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#### BEFORE THE PUBLIC UTILITIES COMMISSION OF OHIO

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In the Matter of the 2018 :

Long-Term Forecast Report : Case No. 18-501-EL-FOR

of Ohio Power Company and : Related Matters. :

In the Matter of the :
Application of Ohio Power :
Company for Approval to :

Enter Into Renewable : Case No. 18-1392-EL-RDR

Energy Purchase :
Agreements for Inclusion :

in the Renewable Generation Rider.

In the Matter of the

Application of Ohio Power: Case No. 18-1393-EL-ATA

Company for Approval to : Amend its Tariffs. :

#### PROCEEDINGS

before Ms. Sarah Parrot and Ms. Greta See, Attorney Examiners, at the Public Utilities Commission of Ohio, 180 East Broad Street, Room 11-A, Columbus, Ohio, called at 9:00 a.m. on Wednesday, January 23, 2019.

#### VOLUME VI

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## **Goldilocks and the Three Climates**

Jonathan Lesser

As Jim Hoecker says in his column this month, in Washington and elsewhere these days, environmental issues are "everywhere, all the time." To attempt to add a voice of reason about global warming and other sofar-unproven theories about which many billions are about to be spent, we are pleased to add Jonathan Lesser as a columnist.—Ed.

With the release in February of the Intergovernmental Panel on Climate Change's (IPCC's) summary of its forthcoming fourth report, all manner of storms, disease, death, plagues of locusts, and generalized mayhem are apparently rounding the global corner as a result of global warming. Apparently, "everybody" agrees that, if we do not immediately reduce greenhouse gas emissions far more than the decreases proposed under the Kyoto Protocol, "grim" and "catastrophic" impacts await. To emphasize the point, many articles on climate change are accompanied by pictures of cuddly polar bears that, from all appearances, have been cast adrift far at sea by a band of evildoers, led by the notorious Captain Coal.

Not to be outdone, France has proposed to create a new, worldwide environmental regulatory body with the power to "punish" greenhouse polluters (read that: the United States). How France

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would punish the United States—stop exporting Brie, perhaps—or why the United States would care, is not clear.

All manner of storms, disease, death, plagues of focusts, and generalized mayhem are apparently rounding the global corner as a result of global warming.

Although many scientists view global climate change as a serious problem, many others continue to express doubt regarding both its magnitude and causes.<sup>2</sup> Clearly, the Earth's climate has changed continuously throughout its history and long before mankind was mucking about. Far more recently, at least by geologic time, the Vikings were farming in Greenland during the 1300s, only to be forced to abandon their efforts when temperatures dropped during the Little Ice Age that followed.

For those who, like me, do not wish to reflexively subscribe to some of the predicted doomsday scenarios—after all, it was just 30 years ago the public was bombarded with headlines that the world was entering a new ice age—with all of their dire consequences, the uncertainty about climate change raises a number of issues. First, how accurately can the costs (and, yes, the benefits) of climate change be estimated? Second, what are the best policy approaches to address climate change, and how much of an impact will those policies have? Do we try to reduce climate change, reverse it, or adapt? Third, what will be the unintended consequences of implementing the policies we choose? For surely there will be unintended consequences. Fourth, what is the best way to explain to individuals that, whatever activist policies are chosen—carbon taxes, cap-andtrade systems, shuttering every coal-fired power plant—such policies will affect everyone, and not just those "wicked" polluters like Captain Coal.

## WHEN HAS THE CLIMATE BEEN "JUST RIGHT"?

In reading the IPPC Summary for Policymakers, one question leaps out: is there a "best" global climate? No doubt the Vikings preferred the warmer climate that allowed them to farm in Greenland to the subsequent "Little Ice Age," which did not. The most recent major ice age ended about 20,000 years ago, having lasted for some 40,000 years. During that time, much of North America was covered in mile-thick glaciers. That climate does not sound overly pleasant. Moreover, I doubt that it would be costless. Thus, if we are concerned about a warming climate, more frequent hot spells, and other climate-related phenomena, does that mean we would be better off if average temperatures were a few degrees lower? If we would be, how much lower? Nobody talks about that. Additionally, no one has shown that today's climate is optimal, in the sense of providing the mix of temperatures, precipitation, and sea level that is just right. Dr. Pangloss, where are you when we need you?

The panic over climate change presumes that, by manipulating greenhouse gas emissions, we can achieve a Goldilocks climate—not too hot, not too cold, but just right. This seems unlikely, especially given examples of rapid climate changing in the past, long before Captain Coal began his reign of terror. For example, according to the National Oceanic and Atmospheric Administration, about 11,600 years ago the climate warmed by 15°C (27°F) in less than a decade. Then, around 8,200 years ago, temperatures abruptly plunged for about 400 years.

I do not know if mankind has the technical wherewithal to prevent those sorts of abrupt changes. I doubt it. Far easier, it seems, is to adapt to a changing climate and minimize the costs to those most affected.

#### REAL COSTS, ETHEREAL BENEFITS

Rather than arguing over the pace of climate change and, more important for some, who should be blamed, let us instead assume that the only debate is over the appropriate policies. Given that, before US policymakers leap headfirst into the car-

bon policy pool, they should examine the costs and benefits of each policy alternative (as well as combinations of alternatives). The benefits will be based on each policy's ability to mitigate climate change, both in absolute terms and the speed at which mitigation would occur under each policy.

Costs will be based on the net impacts on the world economy as well as opportunity costs associated with other policy imperatives, such as improved access to clean water and health care, reduced levels of disease, and so forth. Of course, some argue that climate change will exacerbate certain diseases, such as malaria. If that is the case, then the appropriate framework is to determine whether the least-cost strategy for such impacts is reducing greenhouse gases or, in the case of malaria, direct alternatives such as netting and spraying with DDT.

One issue that is attracting too little attention but that will be crucial for any mitigation policy to work is an ability to limit free riders, the numbers of which, in the case of greenhouse gas emissions, may be huge. Just like a cartel, even if all nations agree to a set of emissions reductions, each nation will have a tremendous incentive to cheat, especially as the stringency of the reduction targets increases. After all, monitoring all the world's greenhouse gas emissions—carbon dioxide (CO<sub>2</sub>), methane, and chlorofluorocarbons—will be neither simple nor cheap. Moreover, the more stringent the emissions reduction targets, the greater the incentive to cheat.

One issue that is affracting too little attention is an ability to limit free riders, the numbers of which in the case of greenhouse gas emissions, may be huge.

On top of that problem, of course, is the fact that some nations may simply refuse to go along. China, for example, announced earlier this year that global warming was a problem for "developed countries," implying that it would continue to spew forth carbon dioxide with impunity. If some nations, especially developing nations that "blame" climate change on the developed nations, opt out of climate-change mitigation, then what? (It is probably safe to assume that France's proposal would be a particularly poor enforcement mechanism.) With those caveats, what would the types of costs and benefits of alternative policies be, specifically with respect to energy consumers?

Policies likely to offer the least benefit at the highest cost likely are the command-and-control variety or, still worse, policies resulting from litigation, such as the lawsuit filed by California's Attorney General last September against US and Japanese automobile manufacturers for creating a "public nuisance" because cars emit CO<sub>2</sub>. The lawsuit alleges that "global warming is causing significant harm to California's environment, economy, agriculture and public health." (No mention if CO<sub>2</sub> emissions from fulminating state attorneys general are also considered to be a public nuisance.)

A more likely command-and-control approach to greenhouse gas emissions will be specific laws mandating emissions reductions, such as those contained in Maryland's Healthy Air Act. Alternatively, these approaches could take the form of higher automobile fuel efficiency (CAFE) standards, banning the use of incandescent lighting (legislation introduced in the California State Assembly), more stringent renewable portfolio standards for electricity generation, and so forth. The impacts of these sorts of policies, especially those that address major stationary source emissions sources like coal-fired generating plants and cement factories, will be to restrict output and raise prices throughout the economy.

Thus, retail consumers will pay more for electricity, and contractors will pay more for cement. Both goods are basic inputs to a growing economy, and price increases will affect everything from the price of homes to the cost of food and health care. Moreover, those economic impacts will ripple through the entire economy. When the prices of basic production inputs increase, so do prices of almost all goods and services. Those price increases, in turn, create more economic ripples that will reduce employment, tax collections, and so forth.

The overall costs of such policies will clearly depend on how stringent the policies are. Raising CAFE standards by one mile per gallon in five years is unlikely to be an economy killer. Ordering all coal-fired power plants to shut down within one year could be. Of course, some, especially those bent on "punishing" polluters, may see this as rough justice for a society that deserves to suffer collectively. However, consumers (and voters) who suffer real economic pain, but who will be unable to discern any benefits whatsoever for that suffering, may rebel.

The other category of policies is market-based, and it includes emissions "cap-and-trade" programs,

carbon taxes, fuel taxes, and so forth. These sorts of policies are more efficient, in the sense that they are more likely to reduce greenhouse gas emissions at a far lower cost. However, these programs will not be costless. It is true that some proposals, such as carbon tax "recycling"—levying carbon taxes while reducing other taxes—would reduce economic harm, compared with simply levying carbon taxes. How much tax recycling would reduce the overall costs will depend on the form of the tax recycling. Moreover, revenue recycling could easily introduce yet more distortions to the US tax code.6 Again, however, consumers will likely respond poorly to any form of tax scheme that raises the costs of the goods and services that they rely on. Finally, market-based approaches, such as cap-and-trade programs, are likely to be more vulnerable to free-rider problems than command-and-control policies.

Of course, global climate change mitigation policies are complicated by the fact that they must be global. The United States cannot impose its policies on the rest of the world, which cannot, in turn, impose its policies on the United States. Developing nations, especially large polluters like China and India, will be reluctant to reduce economic growth that is finally providing so many tangible benefits to their citizenry. It is those nations, rather than the "developed" nations like the United States, Canada, and Europe, that will ultimately determine the success or failure of climate-change policies. Perhaps, then, another policy must be more actively considered: adaptation. That will be the subject of my next column.

- 1. Intergovernmental Panel on Climate Change. (2007). Climate Change 2007. Paris: Author.
- See, e.g., Lindzen, R. S. (2006, June 26). There is no 'consensus' on global warming. Wall Street Journal. See also Wegman, E., et al., Ad Hoc Committee Report on the 'Hockey Stick' Global Climate Reconstruction. Presented to the House Energy and Commerce Committee, July 14, 2006.
- 3. www.ngdc.noaa.gov/paleo/ctl/abrupt.html.
- 4, Baldini, J. U. L., McDermott, F., & Fairchild, I. J. (2002). Structure of the 8200-year cold event revealed by a speleothem trace element record, *Science*, 296, pp. 2203–06.
- A copy of the actual complaint can be found at the California Office of the Attorney General Web site. http://ag.ca.gov/ newsalerts/cms06/06-082\_0a.pdf.
- For an introductory discussion, see Parry, I. (1997, June), Revenue recycling and the costs of reducing carbon emissions.
   Washington DC: Resources for the Future, Climate Issues Brief No. 2, http://www.rff.org/Documents/RFF-CCIB-02.pdf.



# As the Global Climate Turns: The Saga Continues

Jonathan A. Lesser

The goofiness of the enviros continues to have a more or less comic-book quality to it, but it should be remembered that they are able to push programs through Congress, and that the cost of these programs dreadfully impacts the efficiency of the electric industry—just look at the huge proportion of environmental expenditures making up the capital budget of any major electric company. To an extent, we are all spokesmen for our industry, and if there is a single area that needs help, it is avoiding unnecessary costs. If environmental policies are unnecessarily running up the bill, we need to speak out when we can.—Ed.

## ALL THE NEWS THAT'S FIT TO PRINT, PLUS SOME

Much happened in the world of climatechange research and policy during 2009. The U.S. House of Representatives and the U.S. Senate each passed their own versions of a "capand-trade" system, and each were chockablock full of exemptions for favored constituencies. There was the massive gathering at Copenha-

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gen in December, a meeting whose goal was to enact a comprehensive system of greenhouse gas reductions, but which devolved into developing-world extortion for the climate "sins" of the developed world while blizzards raged outside. There was the U.S. Environmental Protection Agency's "endangerment" ruling, under which it determined that carbon dioxide is a threat to human health. The EPA decreed it can-and will—regulate greenhouse gas emissions under the auspices of the U.S. Clean Air Act, unless Congress acts first. And there was "Climategate," in which e-mail communications among numerous climate scientists associated with the Climate Research Unit at the University of East Anglia in Britain revealed them to be less pursuers of scientific truth and more pursuers of political favors and influence, destroyers of inconvenient data, and ivory-tower thugs.

Copenhagen . . . devolved into developing-world extortion for the climate "sins" of the developed world while blizzards raged outside.

There was also real research. In December, University of Waterloo Professor Qing-Bin Lu published a contrarian paper<sup>1</sup> in the journal *Physics Reports*—peer-reviewed, which Climategate scientists insist is the only standard under which skeptics of human-caused climate change may make claims—on the influence of cosmic rays on the earth's climate. Unlike many of the

Climategate scientists, Professor Lu has welcomed review of his data and findings.

President Sarkozy's tax, like the proposed U.S. capand-trade legislation, included a Swiss-cheese-like set of exemptions for industry, exempting 93 percent of industrial emissions—making it worth less than the recycled *papier* it was printed on.

There were also policy changes. In France, on December 30 President Sarkozy's proposed €15 (U.S. \$22) carbon tax was struck down by the French Supreme Court. President Sarkozy's tax, like the proposed U.S. cap-and-trade legislation, included a Swiss-cheese-like set of exemptions for industry, exempting 93 percent of industrial emissions—making it worth less than the recycled papier it was printed on. The court ruled that those exemptions created a system with disproportionate impacts, and was thus inequitable. Those same sorts of exemptions were what killed then-Vice President Gore's Btu tax in 1993: what started out as an economically efficient idea was larded with exemptions, until it was mercifully extinguished.

## THE "PRECAUTIONARY PRINCIPLE" AND CLIMATEGATE

When confronted with the uncertainties of climate research—even absent the Climategate shenanigans—advocates of enacting policies to strictly curb greenhouse gas emissions often cite the "precautionary principle" as their guide.2 The precautionary principle is a "mini-max" approach to risk. It says that we should minimize the risk of catastrophic environmental outcomes, even if the likelihood of such outcomes is small. Moreover, the precautionary principle places the burden of proof on those arguing a policy (including doing nothing) will not have catastrophic consequences. Not surprisingly, a mini-max approach to environmental risks can lead to very different policies than one based on expected costs and benefits.

The problem with the precautionary principle, as it has been applied by policy advocates, is that their application is quite selective. The

precautionary principle supposedly addresses "existential" threats. For example, should a large asteroid—of which there are many floating about the solar system—hit the earth, the consequences—massive and sudden extinctions, global starvation, and plunging the earth into a prolonged ice age—will be far, far greater than the impacts of climate change: just ask the neighborhood dinosaur.

Should a large asteroid hit the earth, the consequences—massive and sudden extinctions, global starvation, and plunging the earth into a prolonged ice age—will be far, far greater than the impacts of climate change: just ask the neighborhood dinosaur.

Nevertheless, while advocating that societies commit to massive changes in lifestyles, mandatory one-child policies to reduce the world population by several billion,<sup>3</sup> and trillions of dollars in lost economic well-being, there is little discussion of increasing our efforts to identify and deflect these earth-shattering asteroids. Similarly, the "precautionary principle" should also mean that, before committing trillions of dollars to combat climate change, we should ensure the underlying research and the policy choices we make as a result are themselves sound.

The "precautionary principle" should also mean that, before committing trillions of dollars to combat climate change, we should ensure the underlying research and the policy choices we make as a result are themselves sound.

Although some believe the science of global climate change is settled, the Climategate scandal has proven that many of the climate scientists who are well known for their vociferous advocacy of major policies (and, of course, lots more research dollars for them) have perverted the scientific method for their own gain. For example, in a December 30, 2009, Letter to the Editor at the Wall Street Journal, Professor Michael Mann, one of the best known of the

climate-change scientists, wrote, "Society relies upon the integrity of the scientific literature to inform sound policy. It is thus a serious offense to compromise the peer-review system in such a way as to allow anyone—including proponents of climate change science—to promote unsubstantiated claims and distortions."

The Climategate scandal has proven that many of the climate scientists who are well known for their vociferous advocacy of major policies (and, of course, lots more research dollars for them) have perverted the scientific method for their own gain.

This is the same Professor Mann who, in 1998, coauthored an article in Nature displaying the later-debunked "hockey stick" global temperature chart (purporting to show constant global temperatures between the years 1000 and 1900, and then a sudden and rapid increase in temperatures thereafter), but who refused to provide the raw data to two Canadian statisticians who later debunked Mann's research as statistical trickery. It is also the same Professor Mann who in a 2003 e-mail stated, "Perhaps we should encourage our colleagues in the climate research community to no longer submit to, or cite papers in [the peerreviewed journal Climate Research]. We would also need to consider what we tell or request of our more reasonable colleagues who currently sit on the editorial board."4

Climategate does not "disprove" man-made climate change, but surely it raises many questions that ought to be answered carefully before the world invests trillions of dollars on economically catastrophic policies to reduce greenhouse gas emissions. Perhaps "regulatory capture" theory applies not just to regulators when they are ruled by special interests, but also to scientists seeking both influence and additional government grant money from those same regulators.

#### WHERE TO NOW?

Thus, after the failure (or success, depending on your point of view) of Copenhagen, the rejection of policies that unduly favor some economic sectors over others, and the unfold-

ing Climategate scandal, where does this leave us from a policy standpoint?

Climategate does not "disprove" man-made climate change, but surely it raises many questions that ought to be answered carefully before the world invests trillions of dollars on economically catastrophic policies to reduce greenhouse gas emissions.

First, how about identifying policies that would increase economic efficiency and have, as a side effect, a reduction of CO, and other pollutants? (This is not the type of policies on the table in the United States.) For example, recent research suggests that reducing methane emissions would be more effective than reducing carbon emissions.5 How about developing cost-effective ways to capture and use methane that is now flared? What about a broad-based CO, tax whose proceeds are "recycled" back into the economy in the form of lower distorting tax rates, so as to encourage investment and economic growth? Surely that would more effectively reduce emissions, and reduce them sooner, than the current legislation before Congress that exempts large swaths of industry for years, or the tax that was struck down in France because of its exempting almost everybody.

What about a broad-based CO<sub>2</sub> tax whose proceeds are "recycled" back into the economy in the form of lower distorting tax rates, so as to encourage investment and economic growth?

Second, how about investing more in climate research—real research, not politically driven research that focuses on hysteria (drowning polar bears, the end of everything, and so forth). Do we really believe that a slightly warmer earth will be worse than one covered in mile-thick ice sheets? We could also step up research in adaptation, since regardless of the causes of climate change, the earth's climate has always changed, and will continue to change, and not always to

our liking. At the same time, why not devote more resources to some of the more immediate environmental and health issues facing us, such as improving access to clean water in developing countries, reducing the incidence of malaria, and increasing crop yields?

We could also step up research in adaptation, since regardless of the causes of climate change, the earth's climate has always changed, and will continue to change, and not always to our liking.

## ONLY NUCLEAR PLANT CAN PROVIDE EMISSIONS-FREE, ROUND-THE-CLOCK POWER

Third, since the world will continue to need more energy, it is time to embrace nuclear power. Although other countries are doing this, if the United States is serious about reducing carbon emissions and reliance on fossil fuels, we need to recognize the limits of renewable resources and jump-start construction of new nuclear plants. Sure, nuclear opponents complain that new nuclear plants cost too much. But without a web of regulatory mandates and subsidies-renewable portfolio standards, investment and production tax credits, and above market feed-in tariffsmany of those renewable resources would never be built. A nearer-term, lower-cost solution is capacity uprates at existing nuclear plants the equivalent of turbo-charging a car engine. Using state-of-the-art technology, the output at an existing nuclear plant can be increased by as much as 20 percent without needing thousands of acres of land or new transmission lines, two issues over which opponents of Big Renewables are fighting mad.6

Output at an existing nuclear plant can be increased by as much as 20 percent without needing thousands of acres of land or new transmission lines.

Solar and wind have their place, but they cannot provide the steady, predictable, roundthe-clock output of a baseload power plant that forms the backbone of the electric generating system, and nuclear power is the only baseload source that emits no carbon in the production of electricity and is not geographically constrained. Why not jump-start the construction of new nuclear plants and accelerate installing capacity uprates at existing ones? We can also train a new generation of nuclear engineers and operators, and need to accelerate R&D efforts for nuclear fuel recycling and developing new reactor technologies, especially small modular reactors.

Solar and wind have their place, but they cannot provide the steady, predictable, round-the-clock output of a baseload power plant.

These are but a few steps available today. Instead of focusing on grandiose emissions trading schemes that carve out exemptions for the well connected, or relying on tainted research, we could focus on policies that would provide real economic and environmental benefits in the near term. O

- Lu, Q.-B. (in press). Cosmic-ray-driven electron-induced reactions of halogenated molecules adsorbed on ice surfaces: Implications for atmospheric ozone depletion, *Physics Re*ports, dx.doi.org/10.1016/j.physrep.2009.12.002.
- 2. Some like to cite the philosopher, physicist, and mathematician Blaise Pascal (1623–62) as "originating" the precautionary principle. In fact, "Pascal's wager," as it came to be known, posited that, although the existence of God could not be proven, believing in God had no downside, while not believing in God, only to find upon one's death that God existed, could have catastrophic consequences. (Presumably, God would look askance at the unbeliever and toss him into hell, or force him to testify before a Congressional committee.)
- Francis, D. (2009, December 10). The real Inconvenient Truth: The whole world needs to adopt China's one-child policy. Financial Post (Canada), http://www.financialpost. com/story.html?id=2314438#ixzz0bNvDNZ48.
- 4. The full text of Professor Mann's e-mail, dated March 11, 2003, can be found at http://www.eastangliaemails.com/emails.php?eid=295&filename=1047388489.txt.
- See, e.g., Watson, R., & El-Ashry, M. (2009, December 29).
   A fast, cheap way to cool the planet. Wall Street Journal, http://online.wsj.com/article/SB100014240527487040397 04574616130812043404.html.
- See my column, (2009, February). Renewables, becoming cheaper, are now passé. Natural Gas & Electricity, pp. 30–32.





# Global Warming, Climate Change, Er, Climate Volatility: 2012 and Beyond

Jonathan A. Lesser

he strikethrough above is not the result of the editor's failure to remove "redlined" changes. Rather, it reflects the ongoing metamorphosis of environmental doomsayers to failed predictions about the earth's climate. Perhaps because global warming was not sufficiently scary to the public, or perhaps because every time former Vice President Al Gore would speak on the subject, his speech would be accompanied by heavy snow or record cold temperatures, global warming became "climate change."

Perhaps because global warming was not sufficiently scary to the public, or perhaps because every time former Vice President Al Gore would speak on the subject, his speech would be accompanied by heavy snow or record cold temperatures, global warming became "climate change."

Of course, the climate has always changed. In the last millennium we have experienced both mini ice ages and periods where temperatures were much warmer than today. Oddly, it was during the lat-

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ter that humanity most flourished, enjoying more bountiful harvests that created healthier populations more resistant to disease. After all, Greenland was so named by the Scandinavians not because of the mile-thick ice sheets that now cover it, but because they were able to farm there. Nor has the litany of predicted impacts from climate "change" decreased, such as attacks by vampire bats, 1 greater levels of mental illness, 2 and (I am not making this up) space aliens destroying the earth because humans are not eco-friendly. 3

After all, Greenland was so named by the Scandinavians not because of the mile-thick ice sheets that now cover it, but because they were able to farm there.

Nor has the litany of predicted impacts from climate "change" decreased, such as attacks by vampire bats, greater levels of mental illness, and (I am not making this up) space aliens destroying the earth.

Now, the new mantra is "climate volatility," because "volatility" is a scary word. Every day there are stories about stock market "volatility," the "volatility" of oil prices, and so forth. Some electric utilities are fighting deregulation because of the threats posed by "volatile" market prices, even if those volatile prices would still be lower than the steady-as-she-goes, cost-based

ones. In short, volatility is the cockroach scampering along the kitchen floor you recoil from when the lights are turned on.

The new mantra is "climate volatility," because "volatility" is a scary word.

Thus, climate alarmists are now focusing on climate "volatility": more heat waves, heavier rains, flashier floods, and snowier snowfalls, all being caused by carbon emissions. The wildfires that plagued Texas last summer, which burned 1,500 homes and left two people dead, and the continuing drought in that state, were held up by President Obama as "proof" of climate change: "You've got a governor whose state is on fire denying climate change." The actual cause of the wildfires was trees and branches falling onto power lines because of high winds. (To answer the inevitable question, yes, high winds must be caused by climate change.)

Volatility is the cockroach scampering along the kitchen floor you recoil from when the lights are turned on.

On November 18, 2011, the United Nations' Intergovernmental Panel on Climate Change (IPCC), released a summary of a forthcoming special report on climate extremes. However, despite stating that, "[c]limate extremes, exposure, and vulnerability are influenced by a wide range of factors, including anthropogenic climate change, natural climate variability, and socioeconomic development," the report focuses solely on human-induced climate change as the cause of "extreme" weather.

## WHATEVER IT IS, IT'S CAUSED BY CLIMATE CHANGE

There are a number of problems with this latest focus on climate "volatility." The first is a statistical one. "Extreme" climate events are just that: extreme. That means that they are rare.

Determining a statistically significant change in "extreme" events is more difficult than determining whether there has been a change in, say, the average.<sup>6</sup> For example, it is relatively straightforward to compare average annual rainfall over the last 30 years and determine whether it has changed significantly from the average of the 30 years before that. But if last summer a large thunderstorm dumped five inches of rain in Dallas and this summer a large thunderstorm dumped six inches of rain in Houston, is that an example of more "extreme" weather?

Determining a statistically significant change in "extreme" events is more difficult than determining whether there has been a change in, say, the average.

According to NASA Chief Scientist James Hansen, one of the most vocal defenders of all things climate change, it would be. Recently, for example, he coauthored a paper claiming that the Moscow heat wave of 2010 and the Texas wildfires were "proof" of climate change based on what is called a "three sigma" event. However, the "proof" is based on three false assumptions: that the statistical distribution of summer temperatures is normal (i.e., a bell-shaped curve); that there is no correlation between summer temperatures from year to year; and that regions like Moscow and Texas are "unique."

In essence, the new mantra of climate "volatility" is a theory that "explains" every weather event... But a theory that "proves" every climate event is no theory, because it is not testable against a null hypothesis.

In essence, the new mantra of climate "volatility" is a theory that "explains" every weather event, whether heat wave, cold snap, drought, flood, or plagues of locusts and frogs. But a theory that "proves" every climate event is no theory, because it is not testable against a null hypothesis.

## WHERE THERE'S SMOKE, WILL THERE BE FIRE?

Because this issue of Natural Gas & Electricity focuses on predictions for the coming year, how will this newest twist to the global warming/ climate change debate fare? In a word, poorly.

How will this newest twist to the global warming/climate change debate fare? In a word, poorly.

The US and world economies, both of which continue to sputter, will remain at the forefront of the political "do something" crowd. With the Solyndra debacle worsening, along with the green energy/green jobs mantra fading,9 the likelihood of any action from Congress to enact climate-change policies that increase the energy prices is nil. But this does not mean that no political action affecting energy prices will be taken.

This does not mean that no political action affecting energy prices will be taken. Such actions will be taken and already have been.

Such actions will be taken and already have been. The president's postponement of a decision to approve the TransCanada Keystone XL pipeline, which would transport oil from Alberta's tar sands to Texas, is one example. The US Department of Agriculture recently cancelled a mineral lease auction for Wayne National Forest (WNF) in Ohio, which will postpone any shale gas development there, despite there already being 1,300 oil and gas wells in operation there currently. Moreover, there continue to be looming new rules from the US Environmental Protection Agency regulating air and water pollution from coal-fired power plants and large industrial sources, such as cement manufacturers.

There continue to be looming new rules from the US Environmental Protection Agency regulating air and water pollution from coal-fired power plants and large industrial sources, such as cement manufacturers.

Nevertheless, with the focus on jobs and the economy, as well as the upcoming presidential

election in November, specific policies to curb greenhouse gas emissions will not be forthcoming from Congress. Of course, expect a long, hot summer with more extreme levels of gaseous emissions of the political type. That is a statistical guarantee.

Expect a long, hot summer with more extreme levels of gaseous emissions of the political type.

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## The Devil and the EPA

Jonathan A. Lesser

he late comedian Flip Wilson had a wildly popular television show back in the 1970s, and one of his most famous characters was "Geraldine Jones" (really, Wilson dressed in drag). Geraldine, an oft-misbehaving young "lady," had a famous catchphrase, "The devil made me do it!"

Even the most efficient coal plant emits at least 1,800 pounds per megawatt-hour, for the simple reason that burning coal releases more CO<sub>2</sub> than burning natural gas.

Maybe that is the real reason behind the EPA's proposed new carbon dioxide (CO<sub>2</sub>) emission rule, which the agency released on September 20, 2013. Under the proposed rule, known as the New Source Performance Standard, new electric-generating plants will not be allowed to emit more than 1,100 pounds of CO<sub>2</sub> per megawatt-hour of generation. Whereas new natural gas—fired generators will be unaffected, the proposed rule will effectively prohibit construction of new coal-fired power plants. Even the most efficient coal plant emits at least 1,800 pounds per megawatt-hour, for the

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simple reason that burning coal releases more CO<sub>2</sub> than burning natural gas.

EPA Administrator Gina McCarthy has insisted that "we don't have a war on coal." If not, the EPA has undertaken a "domestic contingency operation," for which the carbon-emitting enemy is to be destroyed. But whatever one wants to call it, the new rule will have little impact on global carbon emissions and no impact whatsoever on the scourge of climate change.

EPA Administrator Gina McCarthy has insisted that "we don't have a war on coal."

What it will accomplish is to contribute to higher electricity prices and further retard domestic economic growth. And contrary to an "all of the above" energy policy, the EPA's actions, coupled with the almost-impossible task of building new nuclear plants, means that only natural gas—fired plants will be able to supply needed baseload (i.e., "round-the-clock") electricity. Whatever happened to the importance of diverse generating resources?

The EPA's actions, coupled with the almost-impossible task of building new nuclear plants, means that only natural gas—fired plants will be able to supply needed baseload (i.e., "round-the-clock") electricity.

According to data published by the US Energy Information Administration, in 2012, coal-fired

power plants emitted just over 1,500 million metric tons of CO<sub>2</sub>, less than 30 percent of total US emissions of 5,290 metric tons. According to the International Energy Agency, total world CO<sub>2</sub> emissions were about 31,600 million metric tons. Thus, total US CO<sub>2</sub> emissions, which have been decreasing since 2007, accounted for less than 17 percent of world emissions, and US coal-fired power plants accounted therefore for less than 5 percent of world CO<sub>2</sub> emissions.

In 2012, coal-fired power plants emitted just over 1,500 million metric tons of CO<sub>2</sub>.

Because China and India's carbon emissions continue to increase rapidly, unilateral sword-falling actions taken by the United States will have even less impact on overall world CO<sub>2</sub> levels in the future. Yet the EPA insists on its domestic contingency operation against coal. This makes no economic or environmental sense at all.

Because China and India's carbon emissions continue to increase rapidly, unilateral sword-falling actions taken by the United States will have even less impact.

The EPA insists that these new emissions standards are not an effective ban on new coal plants, pointing to coal plants with "carbon-capture" technology that are under development. For example, in September, construction began on a small plant that will convert CO<sub>2</sub> emissions from a cement plant in Texas to baking soda (calcium carbonate).<sup>3</sup> Although some generating plants intend to use the captured CO<sub>2</sub> in industrial processes,<sup>4</sup> the most common strategy is to inject the captured CO<sub>2</sub> underground.

In extreme concentrations, such as might occur if there were sudden leaks of underground gas at the surface, CO<sub>2</sub> is deadly.

Not surprisingly, that approach raises numerous technical and legal issues: how to ensure the injected CO<sub>2</sub> stays underground and, if it does not, who gets sued, because, in extreme concentrations, such as might occur if there were sudden leaks of underground gas at the surface, CO<sub>2</sub> is deadly.

#### **BASTARDIZING COST-BENEFIT ANALYSIS**

The EPA also released a cost-benefit analysis of the proposed rule.<sup>5</sup> As part of this analysis, which must rate as one of the most dishonest cost-benefit analyses of all time, the agency concludes the following:

The EPA anticipates that the proposed EGU New Source GHG Standards will result in negligible CO<sub>2</sub> emission changes, energy impacts, quantified benefits, costs, and economic impacts by 2022. Accordingly, the EPA also does not anticipate this rule will have any impacts on the price of electricity, employment or labor markets, or the US economy.

For a cost-benefit analysis practitioner like the author, this is a very strange conclusion. How can the proposed rule not have any costs or benefits? The answer stems from the EPA's analytical assumptions. Specifically, because the EPA assumes that no new coal plants will be built, even without the proposed rule, concluding that all new generating facilities will be gas-fired or renewable generation, and thus already meet the proposed emissions standards. Hence, the proposed rule will impose no costs. And because no new coal plants will be built anyway, the proposed rule will provide no reduction in CO<sub>2</sub> emissions below levels without the rule.

Despite this bizarre interpretation, in its analysis the EPA discusses the other benefits of the proposed rule. Specifically, the EPA concludes the following:

This [New Source Performance Standard] would provide regulatory certainty that any new coal-fired power plant must limit CO<sub>2</sub> emissions by implementing some form of partial capture and storage. Therefore, the proposed regulation would provide an incentive for supporting research, development, and investment into technology to capture and store CO<sub>2</sub>.

Thus, to summarize, the EPA's cost-benefit analysis concludes its proposed rule will not have any cost because the EPA assumes nobody will build any new coal plants anyway, with or without the proposed rule. And because the EPA concludes that nobody will build any new coal plants anyway, the proposed rule will not lead to any reduction in CO<sub>2</sub> emissions, which is the EPA's primary goal. Yet somehow, despite not changing anybody's behavior or reducing CO<sub>2</sub> emissions, the proposed rule will still provide greater regulatory certainty for all of those developers who will not be building any new coal plants anyway, because they will nevertheless invest in R&D for carbon capture technologies, even though they will not need those technologies because they will not be building any new coal plants. Perhaps the next time a client asks me to perform a costbenefit study, I will simply refer them to the EPA.

If the option to build new coal plants is gone, wholesale and retail electric prices are likely to increase. And high electric prices will take a very real economic toll.

Of course, the proposed rule is likely to have real costs. Although coal plant economics have been hurt by low-cost natural gas, thanks to the boom in shale gas production and subsidized renewable resources,<sup>6</sup> the economics in the future may change. As the demand for natural gas increases, especially from construction of gas-fired generating plants, natural gas prices are likely to increase. Similarly, as more coal plants are retired, thanks in part to other, existing EPA regulations, coal prices may decrease.<sup>7</sup> But if the option to build new coal plants is gone, wholesale and retail electric prices are likely to increase. And high electric prices will take a very real economic toll.

The impacts of any reduced CO<sub>2</sub> emissions on the climate will not even be measurable.

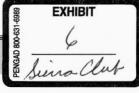
As for the benefits of reduced CO<sub>2</sub> emissions from the proposed rule, the EPA is probably correct, although not for the reasons the agency thinks. The impacts of any reduced CO<sub>2</sub> emissions on the climate will not even be measurable.

The real adverse economic impacts of higher electric prices do not seem to matter to the EPA. Either the agency does not understand the role of electricity in the economy, or perhaps it believes intermittent renewables will provide electric nirvana. They will not. And while the proposed rule leaves natural gas—fired generation intact, the agency continues to overplay the dangers of hydraulic fracturing on water quality, despite its flawed studies.<sup>8</sup>

#### **EPA'S SECOND ACT**

With the proposed rule for new generators under its belt, the EPA intends to issue carbon emissions limits for existing generators in 2014. Perhaps the Devil will take the high road, but in the war—er, domestic contingency operation—against coal, do not bet on it. •

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- 3. Parker, M. (2013, October 3). Construction begins on new carbon capture plant. Scientific American. Retrieved from http://www.scientificamerican.com/article.cfm?id=construction-begins-on-new-carbon-capture-plant. The plant will convert 300,000 tons of CO<sub>2</sub> annually. By comparison, a 1,000 MW coal plant with a heat rate of 12,000 Btu's/kWh and running 80 percent of the time emits some 7 million tons of CO<sub>2</sub> each year.
- Construction on the first such plant, the 400 MW Texas Clean Energy facility, is supposed to begin in the fall of 2013. That plant will capture carbon for use in enhanced oil recovery.
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- 7. One issue in the last few years that is affecting coal is increasing transportation costs for coal delivered via rail. Some coal plant operators have accused railroads of antitrust violations. See Berman, J. (2013, March 26). Railroad antitrust legislation is re-introduced in the Senate. Logistics Management. Retrieved from http://www.logisticsmgmt.com/article/railroad\_antitrust\_legislation\_is\_re\_introduced\_in\_the\_senate.
- 8. See Lesser, J. (2012, December). Frack attack: Environmentalists and Hollywood renew attacks on hydraulic fracturing. *Natural Gas & Electricity*, 29(5), 30–32.





# Outlook—Sunspot Data May Indicate End of Global Warming Trend

Jonathan A. Lesser

In November 2013, yet another climate conference was held, this time in Warsaw. Like the United Nations Doha conference the previous year, the Warsaw conference devolved into a demand by less-developed nations for climate "reparations" from developed nations, principally the United States. The demanders include China and India, which are the number-one and number-four carbon emitters, respectively. In fact, China led a walkout of 132 developing nations from the Warsaw conference to protest the lack of climate reparations. Nevertheless, the conference was a resounding success, assuming success to be an agreement by participating nations to publish intended carbon emissions reductions before the gabfest to be held in Paris in the fall of 2015.

Rather than examine the Warsaw conference's allegations and fulminations, which are a fount of humor, this month's column focuses on the observed decreases in sunspot activity and what that may portend for the world's climate in the future. Understanding how the sun affects the earth's climate is perhaps more important for climate policy than the never-ending whining for dollars to which UN climate conferences devolve.

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#### CHANGES IN SOLAR ACTIVITY ARE CORRELATED WITH GLOBAL TEMPERATURE CHANGES

Although the sun's output, called *irradiance*, is remarkably constant, the sun has a well-known 11-year cycle, during which solar activity ebbs and flows.<sup>2</sup> Although sunspots are the most visible aspect of this cycle, other aspects of the sun change as well, such as X-ray emissions, ejections of material from the sun's corona, and the sun's magnetic field. Why the sun should have such a cycle is not known.

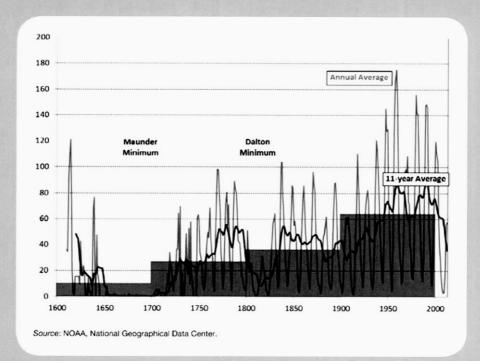
In addition to the 11-year cycle, observations of sunspot activity over the last 400 years have shown extended periods of relatively low and relatively high solar activity. **Exhibit 1**, for example, illustrates annual and 11-year averages from 1610 through 2012.

As shown in Exhibit 1, the 60-year period that began around the year 1645 was characterized by very few sunspots. This period, known as the Maunder Minimum, was also associated with an especially cool period during what has been termed the Little Ice Age, which began in the fourteenth century and lasted through the middle of the nineteenth century.

As Exhibit 1 also shows, sunspot activity increased significantly between 1900 and 1960. Another activity maximum took place around 1990. In fact, sunspot activity in the twentieth century was higher than the previous three centuries, as shown by the gray-shaded rectangles.

Since 1990, however, sunspot activity has decreased rapidly. And recent research suggests that the sun may be entering into another Maunder Minimum–like period.<sup>3</sup> Thus, one key question for climate-change issues is, if the sun enters into

Exhibit 1. Sunspot Activity (1610-2012)



another extended period of low activity, does that mean global cooling is in our future?

Basically, the sun is the sole driver of the earth's climate: without it, earth would be rather chilly. Nevertheless, *correlation* is not *causation*, and there remains significant debate over the relationship between global temperatures and solar activity. Some, for example, have claimed that the Maunder Minimum had nothing to do with the cool period and suggest that volcanic activity was the cause.<sup>4</sup>

Moreover, the relationship between solar activity and global temperatures is further complicated because there is no simple way to take the earth's temperature. As a result, different temperature indices can be, and have been, developed, with each requiring its own level of data torture. For example, **Exhibit 2** shows sunspot activity and global temperature and total solar irradiance. The chart *appears* to show a sudden divergence between global temperatures and solar activity beginning around 1980. Temperatures increase rapidly while total solar irradiance has declined.

Alas, this chart, and the website that publishes it, would have us toss the solar activity causation argument into the rubbish bin. However, the chart itself would have made a fine example for Darrell Huff's classic 1954 book *How to Lie with Statistics*. First, note that the scale on the left is

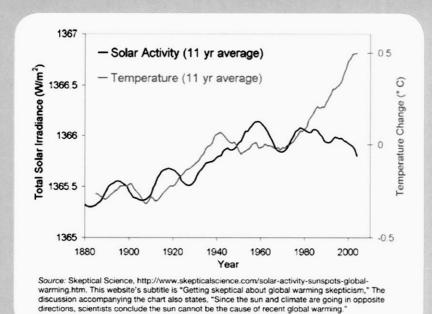
solar *irradiance*, which as previously mentioned stays almost constant. The variation is 2 watts per square meter, or less than 0.2 percent. Thus, the solar "activity" measure is not sunspots.

Second, the temperature data used in the chart, which was developed by NASA's Goddard Institute of Space Studies (GISS) scientist James Hansen, has been shown to be error-riddled and artificially manipulated to show warming temperatures. In fact, GISS itself has admitted the data is flawed.<sup>6</sup> Ironically, in 1999, Hansen, who is one of the most ardent proponents of global warming, said, "In the United States there has been little temperature change in the past 50 years, the time of rapidly increasing greenhouse gases—in fact, there was a slight cooling throughout much of the country."<sup>7</sup>

## GLOBAL TEMPERATURES HAVE NOT RISEN FOR PAST 15 YEARS

Today, there *is* broad agreement that global temperatures have not risen for the last 15 years. Yet none of the climate models has been able to capture this *observed* lack of warming. In other words, none of the climate models that have been used to predict future temperature increases can re-create observed past temperatures. This is like relying on a forecast of electricity demand to determine the need for new generating supplies using a model

Exhibit 2. Temperature vs. Solar Activity



that consistently overestimates past demand. Such a forecasting model would be dismissed (rightly) as inaccurate and unreliable.

Nevertheless, rather than admit to problems with the climate models, those who insist global warming is real and taking place suggest that the missing heat is hiding in the oceans. Perhaps it is. In fact, new research purports to show that rising ocean temperatures are causing fish to become more anxious. Who knows, this may increase the demand for piscine psychiatric services and create schools of Prozac-gulping guppies.

Many individuals who believe in human-caused climate change say "the science is settled." But science is *never* settled. The inability of current climate models to explain the lack of warming over the past 15 years, plus predictions that the sun may be entering a prolonged period of low activity, suggest that much more analysis must be done before we impoverish ourselves by choking off economic growth.

This analysis is especially important for less-developed countries, which rightly wish to improve their citizens' standard of living and are unlikely to receive any climate reparation payments to do so.

#### NOTES

1. See my previous column, Talk is cheap: The UN Doha Conference strikes out again. (2013, February). *Natural Gas and Electricity*, 29(5), 27–29.

- 2. Hathaway, D. (2010). The solar cycle. Living Reviews in Solar Physics, 7(1).
- 3. Ahluwalia, H. (2013, December). An empirical approach to predicting the key parameters for a sunspot number cycle. *Advances in Space Research*. Retrieved from http://www.sciencedirect.com/science/article/pii/S0273117713007473.
- See Lockwood, M. (2013, November). Solar activity and the so-called "Little Ice Age." The Carbon Brief. Retrieved from http://www.carbonbrief.org/blog/2013/11/solaractivity-and-the-so-called-%E2%80%9Clittle-iceage%E2%80%9D/.
- A copy of the book may be downloaded for free at: https:// archive.org/details/HowToLieWithStatistics.
- See Snow, B. (2010, March 30). NASA data worse than Climate-Gate data, GISS admits. Retrieved from http://www.foxnews. com/scitech/2010/03/30/nasa-data-worse-than-climategatedata/.
- 7. See Hansen, J., Ruedy, R., Glascoe, J., & Sako, M. (1999, August). Whither US climate? NASA GISS. Retrieved from http://www.giss.nasa.gov/research/briefs/hansen\_07/. For a comparison, in 2012, Hansen claimed in a YouTube feature, "The oceans will boil." Retrieved from https://www.youtube.com/watch?feature=player\_embedded&v=1uxfiuKB\_R8. In a December 6, 2013, column, Hansen discusses a lawsuit brought by children against the US EPA and the National Association of Manufacturers, "What we owe our kids on climate." http://www.cnn.com/2013/12/06/opinion/hansen-climate-last-chance/index.html?utm\_source=feedburner&utm\_medium=feed&utm\_campaign=Feed%3A+rss%2Fcnn\_topst ories+%28RSS%3A+Top+Stories%29. The appellants' brief can be found at: http://ourchildrenstrust.org/sites/default/files/FiledOpeningBrief.pdf.
- 8. Rising ocean acidification leads to anxiety in fish. (2013, December 4). *Science Daily*. Retrieved from http://www.sciencedaily.com/releases/2013/12/131204182219.htm.



# Talk Is Cheap: The UN's Doha Conference Strikes Out . . . Again

Jonathan A. Lesser

Last November, 10,000 delegates converged on Doha, Qatar, for the United Nations' annual conference on global warming/climate change/climate volatility. The Framework Convention on Climate Change is actually the 18th such UN conference, and proved to be as productive as the previous 17.

## MAJOR AGENDA ITEM, EXPANSION, WENT INTO REVERSE

Since 2007, the conference has focused on the Kyoto Protocol, which was signed 15 years ago and committed developed countries (but not less-developed ones) to nonbinding greenhouse gas emissions reductions targets. Kyoto excludes developing countries, including China and India, where emissions are growing most quickly. For example, between 2006 and 2010, China's and India's carbon emissions increased over 40 percent, from 7,100 million metric tons to 10,000 million metric tons (see **Exhibit 1**). China and India now account for about one-third of world carbon emissions. In contrast, US emissions decreased by 5 percent, from 5,900 million metric tons to 5,600 million metric tons.

China and India now account for about one-third of world carbon emissions. In contrast, US emissions decreased by 5 percent.

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Although the main focus of the conference was supposed to be extending the Kyoto Protocol, Canada, Russia, and Japan all effectively abandoned the agreement. The United States never ratified it in the first place. Thus, for all intents, Kyoto has met its well-deserved demise.

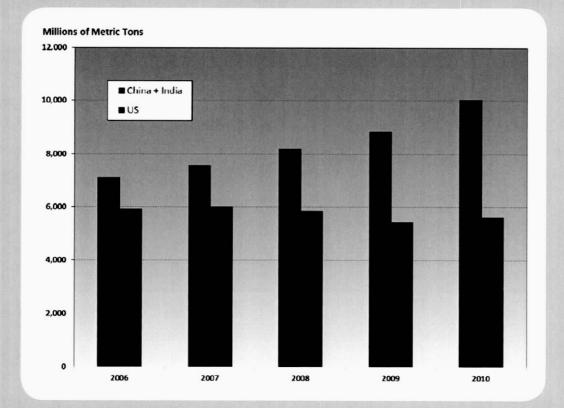
Canada, Russia, and Japan all effectively abandoned the agreement.

## INSTEAD, THEY TALKED ABOUT GETTING MONEY FROM THE UNITED STATES

Instead, the attendees focused on two other issues. First, they agreed to negotiate a new emissions control deal by 2015, which is supposed to take effect in 2020. This agreement will supposedly require all countries—developed and undeveloped—to reduce their carbon emissions. The likelihood of such an agreement being ratified, especially one that accounts for the rapidly growing emissions in developing countries, is vanishingly small. The real focus appears to have been wealth transfers from rich countries to poor ones, as "compensation" for the damage rich countries' greenhouse gas emissions are supposedly causing.

For example, one of the newer and more novel claims (discounting previous speculation about alien civilizations eradicating the earth because of climate change)<sup>1</sup> is that global warming means the "end of pasta."<sup>2</sup> Specifically, according to this view, rising temperatures, extreme storms like Hurricane Sandy, and drought will mean the end

Exhibit 1. Annual Carbon Emissions, US vs. China + India



of wheat, leading to the "end of pasta." (As is well known, the storm surge caused by Hurricane Sandy caused severe damage in the Midwest states. Also well known is that global warming causes hurricanes to strike at high tide when there is a full moon.)

Global warming means the "end of pasta."

Second, developing countries want rich countries to hand over at least \$100 billion annually to compensate for the "damages" that developing countries supposedly have experienced from rising sea levels, extreme weather, and every other ill that can (and has been) attributed to climate change. Of course, it is the United States that these nations are focused on for climate "reparations," because until 2006, the United States had the largest carbon emissions. The fact that the United States is the largest provider

of aid to developing countries apparently does not factor into the reparation demands. Thus, like so many other UN efforts, the annual climate conference has simply devolved into unadulterated money-grubbing.

It is the United States that these nations are focused on for climate "reparations."

There is little chance that the United States and other developed nations will agree to huge wealth transfers and emissions reductions, which will further hobble their already struggling economies, especially when emissions of developing countries' emissions are rapidly increasing. Whether through the imposition of carbon taxes or even greater subsidies for wind and solar energy, the increase in energy costs will simply add to the economic misery. Apparently, the extended hands of developing

nations apparently fail to understand that economic misery will flow "downhill": damaging "rich" world economies will further damage the developing nations' own economies. Moreover, why will developing nations wish to deny their own citizens the fruits of economic development, including greater energy use?

#### WHERE TO FROM HERE?

Although some see the Doha conference as a rousing success,<sup>4</sup> what Doha reveals is the folly of continued efforts to prevent climate change. After two decades of "end of days" predictions by climate alarmists, climate models still fail to capture past climate behavior. Moreover, the efforts by some to manipulate the scientific process to further their aims, such as the "Climategate" emails reveal, as well as efforts to demean those who dare question the "certainty" of the climate science as cavedwelling Troglodytes, reveals not scientific inquiry but naked politics.

The efforts by some to manipulate the scientific process to further their aims . . . reveal not scientific inquiry but naked politics.

Environmentalism has always been a luxury good. Individuals in the poorest countries are focused on having enough food to eat and clean water to drink; they are not worrying about the effects of a changing climate in the decades ahead. If the climate is changing—and it always has—the solution has always been adaptation.

Environmentalism has always been a luxury good.

However, environmentalists resist adaptation because it challenges the "doom and gloom" narrative that is required to maintain funding. For example, cheap and plentiful natural gas, made possible by advances in hydraulic fracturing, is allowing us to heat our homes and generate electricity far more efficiently than with coal, and to reduce carbon emissions. Nevertheless, environmentalists continue to fight fracking,<sup>5</sup>

as well as emissions-free nuclear power, with a vengeance.

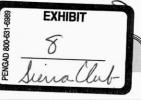
If the climate is changing—and it always has—the solution has always been adaptation.

As for damages caused by extreme weather, it is not impossible to link individual weather events to climate change; the damages are the result of human behavior. Hurricanes have caused increasing damage to coastal areas because people build there and because subsidized flood insurance causes them to rebuild over and over. Eliminating subsidies that encourage behavior that exacerbates exposure to the effects of weather is a first step toward reducing damages. Embracing technology that provides lower-cost, cleaner energy, without endless subsidies, is another.

Hurricanes have caused increasing damage to coastal areas because people build there and because subsidized flood insurance causes them to rebuild over and over.

However, as long as environmental gabfests like Doha continue, real progress will be elusive. After all, why search for real solutions when you can blame scapegoats? •

- See my January 2012 column, Global warming, climate change, er, climate volatility: 2012 and beyond. Natural Gas and Electricity, 28(6), 22–24.
- See Hertsgaard, M. (2012, December 10). The end of pasta. Newsweek. Retrieved from http://www.thedailybeast.com/ newsweek/2012/12/09/bakken-oil-boom-and-climate-changethreaten-the-future-of-pasta.html.
- Yield data for wheat published by the US Department of Agriculture shows that per-acre yields have more than doubled since 1960, and all the while global temperatures have increased.
   See http://www.ers.usda.gov/datafiles/Wheat\_Wheat\_Data/ Yearbook\_Tables/US\_Acreage\_Production\_Yield\_and\_Farm\_ Price/wheatyearbooktable01full.pdf.
- See Hedegaard, C. (2012, December 14). Why the Doha climate conference was a success. *The Guardian*. Retrieved from http:// www.guardian.co.uk/environment/2012/dec/14/doha-climateconference-success.
- See my December 2012 column, Frack attack— Environmentalists and Hollywood renew attacks on hydraulic fracturing. Natural Gas and Electricity, 29(5), 30–32.





## **Rethinking Green Energy Mandates**

Jonathan A. Lesser

n many US states and European countries, mandates providing large subsidies for preferred flavors of green energy have long been *de rigeur*, whether to reduce carbon emissions or spur moribund economies.

Of course, the subsidies have accomplished neither goal: in Europe, subsidies and carbon taxes have not changed the fact that carbon emissions continue to increase; in the United States, the amount of subsidized wind generation has grown so large that it is damaging the ability of unsubsidized generators to compete in wholesale electric markets, while adding to the costs of "firming" inherently volatile wind generation output. As for creating a robust new green economy, well, record-high European unemployment rates, record low labor participation rates in the United States, and moribund GDP growth on both sides of the Atlantic would seem to demonstrate that green energy's economic promise is well hidden.

The amount of subsidized wind generation has grown so large that it is damaging the ability of unsubsidized generators to compete in wholesale electric markets, while adding to the costs of "firming."

Of course, proponents will point to a new solar cell factory here, a wind turbine blade factory there,

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and the jobs created building wind and solar farms as "proof" green energy mandates create economic growth and jobs. That is true, at least for those lucky enough to enjoy subsidized largesse. However, such reasoning ignores the source of that largesse: electric ratepayers and taxpayers at large. Anytime you perform a cost-benefit analysis on a policy and ignore the cost side, discovering that the "benefits" of the policy exceed the costs is easy . . . and meaningless.

Green energy mandates create economic growth and jobs . . . at least for those lucky enough to enjoy subsidized largesse.

Quite simply, governments cannot subsidize their way to economic growth and well-being.

## SUBSIDIES CREATE STRONG ECONOMIC INCENTIVES—TO SEEK OUT MORE SUBSIDIES

It is no secret that industries benefiting from renewable energy largesse have an incentive to keep those subsidies flowing.

The same can be said of most every other industry: unfettered market competition can be brutal; it's so much easier to rely on subsidies to ease the pain. Economists call this "rent-seeking" behavior. And while all forms of energy have been subsidized to some degree, the subsidies provided to renewable energy and energy conservation far exceed any other form of generation. Moreover, renewable energy and energy conservation programs stand apart: not only are they generously subsidized at both the state and federal levels, but

they are also the only types of energy resources for which states mandate minimum investment. No wonder their defenders are so ardent.

In the United States, the wind energy production tax credit (PTC) is the single-largest subsidy of all. In an April op-ed in the *Wall Street Journal*, Patrick Jenevein, CEO of wind developer Tang Energy, argued that the wind PTC should be repealed. He said the following:

If our communities can't reasonably afford to purchase and rely on the wind power we sell, it is difficult to make the moral case for our businesses, let alone an economic one. Yet as long as these subsidies and tax credits exist, cleanenergy executives will likely spend most of their time pursuing advanced legal and accounting methods rather than investing in studies, innovation, new transmission technology, and turbine development. (Jenevein, P. [2013, April 1]. Wind subsidies: no thanks. Wall Street Journal. Retrieved from http://online.wsj.com/article/SB1000142412788732350100457838 6501479255158.html)

In other words, Jenevein stated an obvious but unspoken truth: the presence of subsidies drives wind developers to devote their efforts to continuing those subsidies, rather than improving the efficiency of their product.

The presence of subsidies drives wind developers to devote their efforts to continuing those subsidies, rather than improving the efficiency of their product.

## GREEN ENERGY MANDATES HAVE ZERO IMPACT ON CLIMATE CHANGE

The impact of green energy subsidies on carbon emissions is another example of windmill tilting.

These individual actions have zero effect on the global climate.

Thirty US states, plus the District of Columbia, have renewable portfolio standards, in part to "do something" about greenhouse gas emissions. The European Union has similarly enacted renewable

energy mandates and carbon taxes. Yet these individual actions have zero effect on the global climate. Rather, they simply raise the cost of energy paid by consumers and reduce their economic well-being.

For example, in an article in the (London) Daily Telegraph, Christopher Booker considered the adverse impacts on reliability of Britain's escalating carbon tax, which began in April 2013 at £16 a metric ton. The tax will increase to £30 a metric ton in 2020 and to £70 by 2030. As Booker states, those tax rates will make it "wholly uneconomical to generate any more electricity from the coal and gas-fired power stations that last week were still supplying two-thirds of our electricity."2 He adds that India plans "to build 455 new coal-fired power stations which will add more CO2 to the atmosphere of the planet every week than Britain emits in a year." Already, the new carbon tax is almost 500 percent higher than the carbon price in the EU's ill-fated carbon cap-and-trade scheme, for which prices have collapsed since it was first introduced in 2007.

Wind generation . . . tends not to be available when it is most valuable.

In the United States, as growing quantities of wind generation are injected onto the power grid, they are creating more concerns about overall system reliability. Integrating variable wind generation, which my own research has shown tends not to be available when it is most valuable,<sup>3</sup> is both more costly than for conventional, schedulable generation, and increasingly difficult. The more wind generation to be integrated onto the system, the more impacts sudden changes in wind availability may have on the reliability of the system.

#### MORE-RATIONAL SOLUTIONS?

The most straightforward way to eliminate the economic harm caused by energy subsidies—of all types—is to eliminate energy subsidies. Of course, this is the author's version of windmill tilting, green or otherwise. It is only when the economic damage caused by green energy subsidies becomes so severe and so obvious that arguments for economic sanity may prevail. Until that time, however, US states could, if they are so inclined, take steps to at least mitigate the economic damage.

First, states can scale back their RPS targets. The drive to enact RPS mandates that lead the nation in the percentage of green energy—California comes to mind—is energy suicide. Making electricity cost-prohibitive may polish environmental credentials, but it will permanently tarnish the economic ones, driving business and jobs away to economically friendlier locales. Moreover, mandates raise the cost of electricity for those least able to afford it. How do green energy advocates justify policies that are both economically harmful and inequitable?

States can scale back their RPS targets.

If states kept their RPS targets where they are today, the economic damage would be contained. Additional rate increases could be minimized and the reliability of the electric system would not be jeopardized further. States would also do well to examine the real costs and benefits of their policies by examining both sides of the cost-benefit ledger. If policymakers wish to impose energy policies that cause more harm than good, on the belief that those policies will provide great benefits in the future, at least they should be honest about it. And they should be honest about what is and is not a "benefit." Subsidized jobs are not.

The wind PTC, which is the most egregious green energy subsidy of all, should be eliminated.

Second, the wind PTC, which is the most egregious green energy subsidy of all, should be eliminated. It was set to expire at the end of 2012. Only budget negotiations to avoid a government shutdown saved it for another year. With abundant natural gas supplies—in its latest longterm energy forecast, the US Energy Information Administration projects natural gas production to steadily increase through 2035—why not use the money lavished on PTC recipients on basic energy research instead? For example, if large-scale forms of energy storage can be developed, solar photovoltaics, which have the potential to become far more efficient, would become a far more useful and economic source of electricity. As for wind generation, its economies of scale appear to be exhausted. The largest wind turbines are almost 500 feet tall. How many of these behemoths do we want covering the landscape?

Third, in areas where there are well-run, competitive electric markets, let market forces drive innovation and improved efficiency, rather than additional subsidies, as Tang Energy CEO Jenevein recommends.

In areas where there are well-run, competitive electric markets, let market forces drive innovation.

Fourth, end the economic sword-falling exercises to reduce greenhouse gas emissions. Even if you believe climate change is responsible for everything from warmer temperatures and sullen polar bears to the cold snap that knackered your flower garden, efforts in the United States and Europe to reduce greenhouse gas emissions will be far outstripped by China's and India's expanding use of fossil fuels. Policymakers are deluding themselves if they believe the individual actions they take will have any impact whatsoever on the global climate. Raising energy prices and committing economic suicide will not help.

End the economic sword-falling exercises to reduce greenhouse gas emissions.

Are any of these solutions possible? Yes. Will they be enacted? Probably not, at least not until, as the late Margaret Thatcher quipped about socialism, we run out of other people's money.

Will they be enacted? Probably not, at least, not until . . . we run out of other people's money.

- See, e.g., US Energy Information Administration. (2011, July).
   Direct federal financial interventions and subsidies in energy in fiscal year 2010, Table ES-2. Retrieved from http://www.eia.gov/analysis/requests/subsidy/pdf/subsidy.pdf.
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EXHIBIT

9

Juina Clut



## **Goldilocks Chills Out**

Jonathan Lesser

erhaps it was telling that an April Fools' Day headline for an article by Reuters' environment correspondent was "Global Warming Could Bring Hunger, Melt Himalayas." You just thought global warming would only lead to a 20-foot increase in sea levels, massive city-destroying hurricanes, extinction of one-third of all species (including polar bears), the collapse of agriculture, and deadly disease. Al Gore is a piker.

In fairness, the article only refers to predictions in the newest United Nations Intergovernmental Panel on Climate Change summary report issued on April 6, 2007, which says that 80 percent of the Himalayas' glaciers will melt away over the next 20 years. The only thing missing from the tongue-in-cheek predictions I made in my previous column are the plagues of locusts. Who knows, perhaps they are waiting, with Bigfoot and Godzilla, under all of that fast-melting Himalayan ice.

Lately, the Supreme Court has weighed in. In an April 2, 2007, decision,<sup>2</sup> the Court majority ruled that carbon dioxide is a pollutant that falls under the regulatory jurisdiction of the EPA. The case focused on whether the EPA could regulate CO<sub>2</sub> emissions from automobiles. The EPA argued

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it had no such jurisdiction under the Clean Air Act. The Court disagreed, claiming that "the harms associated with climate change are serious and well-recognized" and that the Clean Air Act's definition of an "air pollutant" includes anything and everything emitted into the air.

Far be it for an economist to question legal dictum, but it seems odd to equate CO<sub>2</sub>—something every human being releases into the atmosphere as a consequence of breathing—with the more noxious stuff that trains, planes, and automobiles emit. Perhaps the government will figure out a way to tax the air we breathe after all.

More interesting was the majority's acceptance that regulating CO<sub>2</sub> emissions from cars will not reverse global warming. Instead, the Court lamely argued that a reduction in CO<sub>2</sub> emissions, which can be achieved only by increasing fuel efficiency, would slow the pace of emissions increases. In other words, the EPA should raise fuel-efficiency levels, regardless of the cost and regardless of the actual physical impact on climate change. The EPA could ban all forms of motor transport henceforth. The effect on global warming still would be negligible.

More interesting was the majority's acceptance that regulating CO<sub>2</sub> emissions from cars will not reverse global warming.

Finally, the majority appears not to have considered the economic impacts of imposing higher

fuel-efficiency standards, even though such impacts are well documented. As fuel efficiency increases, the marginal cost of driving falls. Thus, people drive more and the proffered emissions reductions vanish into the ether. This is one reason why higher federal gasoline tax would be a more efficient way to reduce consumption and CO<sub>2</sub> emissions. Moreover, raising the gasoline tax does not restrict individuals' vehicle choices like higher mandated fuel-economy standards; it simply changes the costs associated with those choices. Of course, raising the federal gasoline tax requires political courage, an oxymoron for our time.

Oddly enough, the Court recognized the weakness of emissions standards (higher CAFE standards are just a CO<sub>2</sub> emissions standard in disguise) in another case it decided on the same day. In Environmental Defense Corp. v. Duke Energy,3 the Court unanimously rejected an interpretation of the Clean Air Act's Prevention of Significant Deterioration (PSD) pollution control regulations. Duke argued that the modifications it made to its coal plants did not fall under the PSD provisions, because none of the modifications increased the hourly emissions rates at those plants. The Court rejected Duke's argument, reasoning that what matters are the plant's total, not hourly, emissions. Thus, the Court recognized that a more stringent emissions standard would not necessarily achieve the ultimate policy goal of lower total emissions.

#### **INEVITABILITY OF ADAPTATION**

Even if one were to accept that the wildest temperature extrapolations are correct, that humans bear 100 percent responsibility for climate change, and that we could somehow stop emitting all greenhouse gases tomorrow, global temperatures will continue to rise. Thus, mankind will have to adapt to climate change, just as it had to adapt before. Today, however, our technology, while unable to control the earth's climate a la *Star Trek*, is far more capable of adapting than Europe was 700 years ago, when cold weather at the beginning of the Little Ice Age set off the Great Famine, which began in the year 1315.<sup>4</sup>

It is not as if those at risk from climate change have been previously immune from risk. The highest point of the island nation of the Maldives, which is located in the southern Indian Ocean, is only 15 feet above sea level. The average height is less than 3 feet. Not surprisingly, the December 26, 2004, tsunami that devastated Indonesia and Thailand caused damage there, too. (Curiously, research shows that since the early 1970s, the Indian Ocean level has fallen some 20–30 centimeters.)<sup>5</sup>

Hurricane Katrina caused extensive damage to New Orleans not because of global warming, but because much of that city lies below sea level. People have always put themselves in harm's way based on an intrinsic cost-benefit analysis. As long as the expected costs are less than the expected benefits, people are willing to assume the risks. When governments subsidize those risks, whether through low-cost flood insurance or dollops of money to rebuild, those intrinsic cost-benefit analyses start to tilt more toward harm's way.

This makes no sense. If we are to adapt successfully to climate change—whether colder or warmer temperatures—we need to become much smarter about it. Nevertheless, among global warming alarmists, adaptation has been given curiously short shrift, other than derided as the skeptics' plot to avoid the massive CO<sub>2</sub> emissions cuts—and economic hardships—climate change alarmists so desperately want.

This reluctance to identify least-cost adaptation strategies is shortsighted, if not disingenuous. Then again, such reluctance may be a natural outgrowth of the far more vicious debates over who should pay, which inexorably lead to the most vicious debates of all: whose fault is it?

From an economic standpoint, however, it does not matter whose fault it is, if indeed it is anyone's. Instead, what matters foremost is how to adapt to climate change, regardless of its cause, at the lowest total cost. That total cost includes economic well-being. Suppose, for example, that shutting down every single coal plant in the world would truly reduce future warming and slow the rise of sea level. Whereas that would certainly lower the cost of building new seawalls and the like, it would drastically raise the price of electricity and lower economic well-being. The world would not have to build new seawalls: a bad thing if we were all too poor to do so.

This is no different than the mistake some environmentalists make when an economist confronts them with the notion of an "optimal"

amount of pollution. How, the environmentalist will splutter, can anything but no pollution at all be optimal? Simple. The point where the cost of further pollution reductions is greater than the benefit of those reductions is the optimal level of pollution (Exhibit 1).

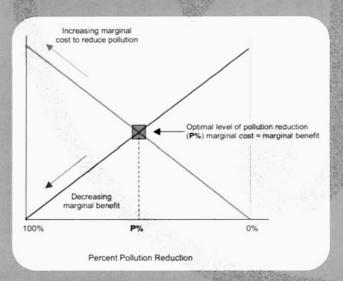
#### **MISTAKING MARGINAL AND TOTAL COSTS**

Alarmists point out that warming will cause billions or trillions of dollars worth of economic damages. Whether it is disease, drought, or deluge, one reason the cost of calamities has increased over time is that there are more people who are affected. But in the same way they can fail to balance the costs of adapting and the cost of reduced economic well-being, alarmists are disingenuous when they attribute all of the costs of climate disasters to global warming.

By this, I do not mean they are wrongly ascribing causation, although there seems to be an increasing tendency to blame everything on climate change, whether a hurricane or a hangnail. Rather, environmentalists tally total costs, instead of tallying the change in total costs with and without climate change.<sup>6</sup>

Thus, if higher sea levels will increase the risk of flooding, the appropriate actions should be based on the change in flooding probability, and not on the total cost of flooding itself. Hurricane Katrina, for example, caused perhaps \$100 billion in dam-

**Exhibit 1.** Determining the Optimal Level of Emissions Reductions



age to New Orleans and Mississippi. Suppose climatologists can (accurately) estimate that one Katrina-like Hurricane will hit New Orleans every ten years and cause \$100 billion in damages if sea levels remain constant. However, if sea levels rise, damages will increase to \$110 billion per hurricane. Assuming everything else stays the same, then the expected marginal increase in damage is \$10 billion every ten years, or \$1 billion per year. That's a much more manageable—and more realistic—number.

What At Gore and other environmentalists are really telling us is that our only adaptation choice is a Hobbesian lifestyle—nasty, brutish, and short—just like the one suffered by the Vikings who were forced out of Greenland in the Little Ice Age in the four-teenth century.

When Al Gore and other environmentalists call for reducing CO<sub>2</sub> emissions 90 percent by the year 2050, what they are really telling us is that our only adaptation choice is a Hobbesian lifestyle—nasty, brutish, and short—just like the one suffered by the Vikings who were forced out of Greenland in the Little Ice Age in the fourteenth century. That is both unreasonable and uneconomic, especially if climate change has little to do with man-made CO<sub>2</sub> emissions.

- 1. Available at: http://news.yahoo.com/s/nm/20070401/ts\_nm/globalwarming\_dc\_1 (Last accessed April 2, 2007).
- Massachusetts v. Environmental Protection Agency, Slip Op. No. 05–1120.
- 3. Environmental Defense Corp. v. Duke Energy, Slip Op. No. 05-848.
- 4. Jordan, W. C. (1996). The Great Famine: Northern Europe in the early fourteenth century. Princeton, NJ: Princeton University Press.
- 5. Morner, N.-A., Tooley, M., & Possnert, G. (2004). New perspectives for the future of the Maldives. *Global and Planetary Change*, 40, 177–182.
- 6. How these costs are estimated is a far more complex issue. For an introduction to some of the techniques economists use to measure environmental costs, see Freedman, A. M. (1993). The measurement of environmental and resource values: Theory and methods. Washington, DC: Resources for the Future.
- To simplify the example, I am ignoring present value considerations.

Residential Non-PIPP Responses

AEP AEP

	Do you have any comments regarding AEP Ohio's development of renewable	
Segment	energy generation that you would like to share?	Comment Category
Residential Non-PIPP	Please do this!	Supportive
	It's about time!!!! Do you really need a survey to know this is the right thing to	
Residential Non-PIPP	do and the right direction?	Supportive
	Continued fossil fuel use is simply not sustainable.	
	We need to invest in altrrnatives. We did several years ago with a solar set up -	
Residential Non-PIPP	and our location is not ideal but it looks as though our roa will be about 10 years.	Supportive
	Renewable energy needs to be utilized not only on generating at the physical	
	plant, but also utilizing all the wasted square footage on residential homes. No	
Residential Non-PIPP	need to use vast amounts of land when we have acres of roofs to utilize.	Supportive
	Please do something to reduce greenhouse gas emissions through extraction and	1
Residential Non-PIPP	burning of fossil fuels.	Supportive
	I think it's great that you're looking at increasing your sourcing from renewable	
	energy. I hope this is a big priority for you and that the process moves quickly.	<b>j</b>
Residential Non-PIPP	Our climate is in trouble. Thanks	Supportive
	Investments in renewable energy should be stepped up rapidly. You need to get	
	out from under our backwards looking legislators, and move on. Stop fence	
Residential Non-PIPP	sitting.	Supportive
Residential Non-PIPP	AEP needs to stop burning fossil fuels	Supportive
Residential Non-PIPP	We are far behind on a global level already, embarrassing!	Supportive
Residential Non-PIPP	This is a business and moral imperative. Be aggressive. Be bold. Lead!	Supportive
	l'm all for seeing an increase in renewable energy. Individuals and	
	corporations should be pushing for this to decrease greenhouse gas emssisions	
Residential Non-PIPP	and to improve the environment in which we live.	Supportive
Residential Non-PIPP	Do it!	Supportive
Residential Non-PIPP	Climate change is real. Oil seems to impact world politics negatively.	Supportive
	I believe that alternate forms of energy are inevitable and if AEP doesn't get on	
Residential Non-PIPP	the bandwagon, it could become obsolete.	Supportive
	We are behind. As a state that is growing rapidly, we should already have solar	
	panels and wind turbines across the state for cost efficient and independent	
Residential Non-PIPP	energy.	Supportive
	I think wind in Ohio should be exploited. Likely solar is not as attractive in our	
	climate. Don't know if offshore Lake Erie is attractive. Renewable energy	
Residential Non-PIPP	from anywhere is desirable if not viable in Ohio.	Supportive
Residential Non-PIPP	do it!	Supportive
	While I applaud the notion of AEP moving to produce its own renewables, I	
	would also love to see AEP be more supportive and open to individuals adopting	
	their own renewables that can feed back to the grid. The shift towards fixed	
	costs and refusal to allow individual houses to sell back large portions of their	
Residential Non-PIPP	solar panel production are a frustrating and unnecessary decision.	Supportive
Residential Non-PIPP	The more you can do, the better.	Supportive
Residential Non-PIPP	Just do it already and keep up with the rest of the modern world.	Supportive
Residential Non-PIPP	wise move! take advantage of renewables	Supportive
Residential Non-PIPP	Willing to pay more if it means energy comes from renewables.	Supportive
Residential Non-PIPP	Hope it ends up being cheaper in the long run.	Supportive
	I hope that AEP will continue to pursue renewable energy to push Ohio forward.	
	It is important to seek renewable solutions to increase the longevity of the	<u>.</u>
Residential Non-PIPP	planet.	Supportive
	While I think local job creation is very important, creating renewable energy	
	systems is way more important, especially with the current rate of climate	<u>.</u>
Residential Non-PIPP	change.	Supportive

	I think this is a conomically and technologically insulable much like the	
	I think this is economically and technologically inevitable, much like the advances	
	in computer processors, packet switching, and cellular communications led to	
D 11 44:-1 N DIDD	the smart phone. We need to get ahead of it and generate the jobs and	
Residential Non-PIPP	capability in Ohio.	Supportive
	Drive 2 hours west into Indiana and you see wind farms, solar farms, etc. It's a	
Danisla setted New DIDD	shame we haven't seen the same kind of commitment to renewable resources in	C
Residential Non-PIPP	our own state.	Supportive
Residential Non-PIPP	I would love to have a renewal energy option and I would use a smart meter.	Supportive
Nesidelicial (4011-11)	I'm okay with reasonable rate increases to make these improvements. Paying a	Supportive
	bit more per Kwh is a small price to pay for long-term sustainability and energy	
Residential Non-PIPP	security.	Supportive
Nesidelicia (40)(11)	I'm very happy to hear that they're considering growing how much is renewable	Jupportive
	because 4.5 percent is laughably inexcusable. There is no logical reason not to go	
	with renewable when it is more inexpensive all around and doesn't risk lives	
Residential Non-PIPP	besides the occasional bird	Supportive
THE STATE OF THE S	Appreciate long-term thinking (not short-term) on this matter from AEP, when	Supportive
Residential Non-PIPP	looking at costs and benefits.	Supportive
neside)	Move rapidly toward a just transition from unsustainable fossil fuels and nuclear	эоррогиче
	power to renewables. Work to get Ohio's wind setback law changed. Thank you	
Residential Non-PIPP	for this survey.	Supportive
neside interior in i	Continue to invest in renewable energy until independent from other non-	зарротите
Residential Non-PIPP	renewable sources.	Supportive
The state of the s	Just makes common sense to use resources available that do not cause harmful	Supportive
Residential Non-PIPP	effects to anything around.	Supportive
	I think it's wonderful that AEP Ohio is investing in renewable energy generation	
	assets for the state and service territory. I would like to see figures on how the	
Residential Non-PIPP	impacts (jobs created, GHG emissions reductions, etc.).	Supportive
	I appreciate the commitment to renewables and hope that other companies (not	
Residential Non-PIPP	just power generation) will push the company and the technology forward.	Supportive
	, , , , , , , , , , , , , , , , , , , ,	
	It is 2018. There is no acceptable reason or excuse that we should still be using	
Residential Non-PIPP	fossil fuels. None. We can do better, ya just choose not to. Do better already.	Supportive
Residential Non-PIPP	Great Initiative!	Supportive
	If it creates jobs, helps the environment, and reduces energy costs then yes I am	
Residential Non-PIPP	in favor of energy renewal	Supportive
	I am so happy that AEP is even considering this!!! This brings me great joy that	
Residential Non-PIPP	AEP is working on being a better Avenue for clean energy	Supportive
	Renewable energy us good for our environment and to help slow down global	
	warming.It will create jobs and help our economy, There is an initial cost to	
	switching over to clean energy vs fossil fuels but in the long run it will provide	
	much cheaper energy for the consumer and the utility companies. This needs to	
Residential Non-PIPP	be conveyed to the consumer.	Supportive
	Regarding production in the state of Ohioit is important for the local economy,	
	but the price of energy is typically more important to most people. If less	
	expensive sources can be generated outside of Ohio, then I think most people	
	I as begins a man and Basses as a street a stree	
Residential Non-PIPP	would be okay with that.	Supportive
Residential Non-PIPP	1 .	Supportive
Residential Non-PIPP	would be okay with that.	Supportive

	Windmills, solar instruments, energy production here in the state of Ohio are all	
	important to citizens of this state. Lower bills should be the result, and THAT	
Residential Non-PIPP	issue is probably most important of all to customers of AEP.	Supportive
Residential Non-PIPP	Please, the more the better.	Supportive
	I know every energy source has environmental impacts and overall usage needs	
	to decrease. That said, I hope AEP will switch to sustainable, renewable options	
	as quickly as possible. My son is 3 and 1 want him to be able to reach adulthood	
Residential Non-PIPP	without experiencing irrevocable climate disaster.	Supportive
	Get it done! 4.5 percent is an embarrassingly low baseline. It shouldn't be	
Residential Non-PIPP	difficult to exceed that.	Supportive
	I believe renewable energy is not just the future but is now. It saves valuable	
	resources that we are depleting at catastrophic rates. I applaud AEP Ohio for	
Residential Non-PIPP	being responsible and working to make our world sustainable.	Supportive
Residential Non-PIPP	Please invest in renewables	Supportive
Residential Non-PIPP	use solar as its been hot lately	Supportive
	This isn't something to think about doing, it's something that MUST be done. We	Ì
Residential Non-PIPP	owe it to the people who will live in Ohio in the next 50-100 years.	Supportive
	Follow through - don't just talk about it. Make certain it is something suitable	
Residential Non-PIPP	that can be generated and used in Ohio.	Supportive
	Renewable energy is the future. Thank you for taking the initiative on long-term	
Residential Non-PIPP	thinking for future generations.	Supportive
	l'd love to watch AEP's endeavors in renewable energy. It's important	
	to me that this state and country are competitive with others around the world.	
	Additionally, the creation of jobs in an economically depressed area is	
Residential Non-PIPP	particularly compelling!	Supportive
Residential Non-PIPP	It's the future of electric power. Don't be stupid, get with the program.	Supportive
	I support efforts in the development of utilizing renewable energy and know that	1
Residential Non-PIPP	it and only it, in addition to magnetic forces, is the future of energy.	Supportive
Residential Non-PIPP	I support the idea. Go for it	Supportive
Residential Non-PIPP	It's great they are pursuing this.	Supportive
	I think increasing the commitment to cleaner, renewable energy sources is very	
Residential Non-PIPP	important to the future of our planet.	Supportive
a	Please lobby the ohio legislature to remove laws that hinder clean energy and	l
Residential Non-PIPP	pass laws that encourage and support wind and solar energy.	Supportive
Residential Non-PIPP	It's the right thing to do for a lot of reasons.	Supportive
Residential Non-PIPP	would realy like to see some action and less conversation	Supportive
	Thank you for requesting input on this topic. I was in south Germany recently,	
	and found their usage very impressive. I'm happy that AEP is making a push to	
Residential Non-PIPP	increase our renewable source usage.	Supportive
<b>.</b>	Do it. Now. Seriously. Not just lip service, the future of the human race already	
Residential Non-PIPP	depends on renewables.	Supportive
nada water nin		
Residential Non-PIPP	I am in full support of developing renewables and reducing dependence on coal.	Supportive
n .) ./ lv nes	Our current administration is making it so hard to do this. We need to go this	
Residential Non-PIPP	direction so you do not have to build another facility.	Supportive
Desidential New SIGN	Not only would it help air quality, It would also create jobs and help bring down	Comments
Residential Non-PIPP	the cost of electricity.	Supportive

	Manual during the state of the	
	Very glad you are doing this - do more; I support wholeheartedly!	
	And I believe it is vital for large organizations such as AEP to step in and do the	
	right thing as a corporate citizen, regardless of the PUCO or current	
	administration.	
Residential Non-PIPP	It is better to be a leader. Co for it	Cumportivo
Residential Non-PIPP	It is better to be a leader. Go for it.  It's about time! AEP has always struck me as more socially conscious than the	Supportive
	other utilities in our region. A commitment to renewable energy would confirm	:
Residential Non-PIPP	my impression.	Supportive
Residential Non-in-	I believe it would be great if AEP Ohio made significant investments in renewable	
	energy for basically all of the reeasons you presented on the previous page.	
	It's very important to make significant and substantial progress toward	
	reliance on clean or at least cleaner and renewable sources of energy. We need	
	to have a strong short and long term plan for improving our air quality, reducing	
	greenhouse gas emissions, becoming energy independent, and keeping jobs in	· ·
Residential Non-PIPP	Ohio.	Supportive
Residential Non-PIPP	Best of luck	Supportive
	USA is way behind other parts of the world with renewable energy. I would	1
	proudly display solar panels or a giant wind turbine on my property if it was an	
Residential Non-PIPP	option:)	Supportive
	It is important to me as an AEP customer to be able to purchase energy that has	
	reduced CO2 footprint, along with fewer mercury and sulfur emissions. I'd	
	prefer to see renewable power generated locally to cut down on local fossil fuel	
	plants and transmission losses, but I understand that generation locally may not	
Residential Non-PIPP	be the most cost efficient based on our weather.	Supportive
	When we rely on technology of the past we are ignoring the innovations that	
	have been made in the past 100 (or so) years. Renewable energy use helps	
	reduce the impact on global warming/greenhouse gas emissions, which is really	
Residential Non-PIPP	our duty as citizens of the world. If we can, we should.	Supportive
	I think it's great that AEP is looking to increase use of renewable energy	
Residential Non-PIPP	sources!	Supportive
	I am in favor of renewable energy and would like to see increased production	
Residential Non-PIPP	using these methods.	Supportive
	Not aware this was being done, but feel that it is a great idea. Wind mill farms	
Residential Non-PIPP	are great, plus another renewable energy source.	Supportive
	Please use more renewable energy and please get away from COAL and	
	ultimately any fossil fuels as a result of migration to solar and other renewable	
	sources. Please alleviate restrictions on those who want to produce solar at their	1
	own homes. Investment in a smarter grid, influencing the political will facilitating	
	incentives to home owners to install solar, distribution network enhancements	
	to facilitate homeowner installations will result in requiring less investment in	
Residential Non-PIPP	generation.	Supportive
	Renewable energy is our future. We need to reduce fossil fuel usage and protect	l .
Residential Non-PIPP	our planet.	Supportive
Residential Non-PIPP	AEP Ohio should be a leader in renewable energy within the state of Ohio.	Supportive
Residential Non-PIPP	Hurry up!!!	Supportive
ACOMENIAL REPORT IF F	If possible, information in my billing email or billing statement of how much of	Sapporave
	my energy consumption is from renewable sources, and where that energy is	
Residential Non-PIPP	generated, would be greatly appreciated.	Supportive
	10	1

	Preserving the world for future generations comes at a cost. The cheapest and	
D 11 11 11 0100	easiest of alternatives are usually are just was of passing on the true costs to	
Residential Non-PIPP	others.	Supportive
n 11 11 11 0100	Glad you are reaching out to customers for feedback, renewable energy is so	
Residential Non-PIPP	important!	Supportive
n	Climate change is a very real threat yo society and the world. The United States is	1
Residential Non-PIPP	falling behind and we NEED to catchup	Supportive
	I feel that renewable energy is important for the future of our country. We	
	need to be independent from foreign oil. We also need to conserve the	
	environment and protect the land from strip-mining and dangerous	
Residential Non-PIPP	underground mining for coal.	Supportive
Residential Non-PIPP	It can't happen fast enough! Break the coal dependence, save lives.	Supportive
Residential Non-PIPP	Great job. Glad utilities are finally "getting it." Let's just hope it's not too late.	Supportive
Residential Non-PIPP	Stop using all fossil fuels	Supportive
Residential Non-PIPP	I am all for it	Supportive
Residential Non-PIPP	Love that you guys are looking into this!	Supportive
	I would have a more favorable opinion of AEP as the level of renewable energy	
Residential Non-PIPP	increases.	Supportive
	Coal is prehistoric, and kills the environment from digging to burning. NW Ohio	
Residential Non-PIPP	is VERY windycan you say wind turbine and/or solar.	Supportive
	See all the wind mills in Van Wert looks impressive.	
Residential Non-PIPP	If you go to Kansas very impressive	Supportive
	As an investor in AEP AND a strong supporter of renewable energy, I am aware	
	of the Oklahoma wind farm deal that fell apart, but to no fault of AEP. I strongly	
	encourage AEP to look for a similar deal as well as continued investments in	
Residential Non-PIPP	renewables in Ohio!	Supportive
	I feel very strongly about the benefits of renewable energy. I'd love to see	
Residential Non-PIPP	AEP expand its use.	Supportive
Residential Non-PIPP	It should receive high priority	Supportive
Residential Non-PIPP	I really encourage this!	Supportive
	We have to get away from coal/oil/gas our lives depend on that. Global warming	
Residential Non-PIPP	is here-we have to stop it.	Supportive
	I believe that being leaders in renewable energy and having a strong	
	commitment to the environment can accompany being fiscally responsible and	
Residential Non-PIPP	profitable.	Supportive
	Our world can't continue on with fossil fuels. They will run out, and we are doing	
Residential Non-PIPP	unbelievable damage to our shared planet with them. This has to end.	Supportive
	This summer is a perfect example of what the future holds if we don't reduce co2	
	emissions and sequester some of the co2 already in the air. It's only going to get	
Residential Non-PIPP	worse.	Supportive
Residential Non-PIPP	Obtain more renewable generation	Supportive
Residential Non-PIPP	Time to get away from fossil fuels. This is the 21st century.	Supportive
	I have seen the windmills in NE Ohio. They seem worthwhile. It would be nice to	
	see how this has worked for this part of the state.	
Residential Non-PIPP	·	Supportive
	.1	
	Wind, fields of huge windmills using the power of wind Clean. safe. and	
Residential Non-PIPP	Wind, fields of huge windmills using the power of wind Clean, safe, and forward thinking. Iowa is an excellent example.	Supportive

:		1
	It is the responsibility of energy providers to continue to improve through	
	research and development new renewable sources of energy. The electrical grid	
	is the foundation of all modern civilization and maintaining this foundation will	
	ensure future generations will have the ability to continue the advancement of	
Residential Non-PIPP	technology improving life for the human race.	Supportive
	we must do something we are last in the world for renewables china and	
Residential Non-PIPP	germany lead	Supportive
NESTGERICAL PROPERTY IN T	8arrian, resu	Supportive
	It's a good thing to do it before you're forced to. Look to the wind farm in Van	
Residential Non-PIPP	Wert County. No reason there aren't dozens more like this in windy areas	Supportive
Residential Non-PIPP	I am glad to see AEP is taking this important step.	Supportive
	I would like to know if there are any investment opportunities available for Aep	
Residential Non-PIPP	renewable energy	Supportive
Residential Non-PIPP	I think this is important for our planet.	Supportive
Residential Non-PIPP	It's about time!	Supportive
Residential Non-PIPP	We would like to help, if we can be a helpful in some way	Supportive
Residential Non-PIPP	Would like to see more information on this.	Supportive
	I believe it is important to create energy in as close proximity to the final use as	
	possible. This way it is easier for the residents of an area to find out where their	
	energy is coming from, and are able to have more of a say in what kind of energy	
	they want through voting. If any given area wants renewable energy, but is	
	dependent on it being produced elsewhere and transported to their community,	•
	they likely have less of a say in whether or not it gets to them because the	
	residents of the area where it will be produced have more control. It would be	
	their land, their jobs, and their problem to deal with. Energy being produced	
Residential Non-PIPP	nearby also means less energy lost and wasted through conversion/travel.	Supportive
Residential Non-PIPP	Honestly, I intend to move to solar if I can - if AEP can do so first, all the better.	Supportive
nesidential (10) (1)	Torrestly throng to more to sold in team in the sold of most an electricity	Заррогате
	AEP Ohio needs to take on more of a leadership role to support renewable	
Residential Non-PIPP	energy with it's consumers i.e. residential and commercial (factories etc.)	Supportive
Residential Non-PIPP	Helping the environment more is awesome	Supportive
· · · · · · · · · · · · · · · · · · ·	Since global warming is a real thing, it is very important to take man made causes	
Residential Non-PIPP	out of the equation.	Supportive
Residential Non-PIPP	I applaud your considering investment in renewable energies	Supportive
Residential Non-PIPP	Awesome! Glad you are trying to be environmentally conscious!	Supportive
Residential Non-PIPP	Sad to hear about the cancellation of the wind catcher project.	Supportive
	Please do something. Renewable energy prevents air and water pollution. It	
	delays the increase in global temperatures and inevitable sea level rise. Don't	
Residential Non-PIPP	ignore the conclusions from 400 years of scientific achievement.	Supportive
	77 77 77 77 77 77 77 77 77 77 77 77 77	
	I would like to see more solar, hydro and wind power being created. Anyone can	\
	go on YouTube and find thousands of innovation being created daily.	
Residential Non-PIPP	Neiborhoods can be power by turbines off the banks of creeks and rivers alone.	Supportive
	I think the most important thing is developing sources that are better for the	- >
	environment. If that can be done locally, that's great, but it's not the end	
Residential Non-PIPP	of the world if it canô€™t be done that way.	Supportive
TOTAL CITICAL NOTIFIED	Yes, would very much like for AEP Ohio to develop/obtain energy from	Jupportive
Residential Non-PIPP	renewable sources. We cannot continue with fossil fuels.	Supportive
CONCENTION NOTE IF F	Thank you for considering making investment in renewable energy. This is so	Jupportive
Residential Non-PIPP	important for us and future generations.	Supportive
Coldenda NON-FIFF	Important for as and ratione Benerations.	Supportive

· .		
	Would like to see a twenty year plan and then follow up on that plan. Planning	
Residential Non-PIPP	and doing something wrong is better than doing nothing at all.	Supportive
Residential Non-PIPP	Important to move to renewable.	Supportive
	Thank you for caring about the environment in this way. I always thought AEP	-
	was this soulless, planet-killing energy company but after this survey I guess I	
Residential Non-PIPP	should take a more nuanced view!	Supportive
Residential Non-PIPP	Glad you're on board	Supportive
Residential Non-PIPP	This is our planet we're talking about. We don't get a do-over.	Supportive
Residential Non-PIPP	The more renewable sources, the better. Be a leader in the industry.	Supportive
	WE LIVE NOW ON OUR PLANET IN A WAY THAT IS NOT SUSTAINABLE. IF WE DO	
Residential Non-PIPP		Supportive
	I think it is important to look at ways to improve America's energy independence	
	for the future. Hopefully this will also reduce costs to consumer and improve	
Residential Non-PIPP	environment.	Supportive
	I feel we are far behind in the development and use of renewable energy and	
Residential Non-PIPP	need to make this an emergency priority.	Supportive
Residential Non-PIPP	I switched my generation service to a 100% renewable supplier years ago.	Supportive
Residential Non-PIPP	Wish it was all wind and solar!	Supportive
	Corporations and local government need to work together to move the US away	
	from carbon energy sources. Obviously, it is extremely important and obviously	
Residential Non-PIPP	the current administration is going in the opposite direction.	Supportive
	All attempts to use turbine and solar products is important for the world to	
	continue to be a more healthy place. You might think about working against the	
	Trump Administration who is on track to destroy us in favor of personal and	
Residential Non-PIPP	corporate greed.	Supportive
Residential Non-PIPP	This is a huge deal for me. Renewable energy is extremely important.	Supportive
Residential Non-PIPP	Development of renewable energy is very important. Get on it ASAP!	Supportive
Residential Non-PIPP	Anything greener is better	Supportive
	I believe that it's been well past the time to talk about, consider, and/or make	<u> </u>
	the changes necessary to provide clean, renewable, energy independent	
	solutions for multiple reasons. If I could have checked more than 3 boxes for	
Residential Non-PIPP	reasons why I would have checked all of them and more!	Supportive
Residential Non-PIPP	Explore Wind farm development opportunities.	Supportive
	It's way past time to begin using more renewable energy! I hope AEP really	
Residential Non-PIPP	Commits to this	Supportive
Trostacificat Prof. 7 (1.1		эмрогиче
	I am very excited about this prospect. In fact, i wonder about parnerships where	
	people could have a discount for having some equipment that could give back	
Residential Non-PIPP	electricity from their solar generating items	Supportive
ACCORDING ROTTER F	Contract their sour Senerating Items	Cuppo, crec
	I think doing more renewable energy sourcing is important for our future. We	
Residential Non-DIDD	should never be dependent on just one or two energy sources.	Supportive
Residential Non-PIPP	Need to start concerning ourselves with how we leave the planet for future	Dahhorase
Posidontial Non-Dipp	·	Supportivo
Residential Non-PIPP	generations.  This would be a great step and would greatly improve my opinion of and	Supportive
Desidential No DIDD		Currontino
Residential Non-PIPP	appreciation for AEP	Supportive
	Being someone who has worked in the electric utilities, I understand it is	
n	expensive to go with all renewables. However, I am willing to increase my electric	•
Residential Non-PIPP	bill for this type of development.	Supportive

Residential Non-PIPP	I would love to see Ohio be at least 50% renewable within the next 15-20 years.	Supportive
Residential Non-PIPP	Glad AEP is taking the lead	Supportive
Residential Non-PIPP	The more renewable we can bring into the grid, the brighter our future!	Supportive
Residential Non-PIPP	the sooner the better.	Supportive
Residential Non-PIPP	Have no clue on what renewable energy initiatives aep is a part of.	Supportive
	Possible credits for solar panels. My nephew is a solar engineer. It has become	
	hugely competitive with china and is employing so many more. AEP must step up	
	now. My other nephew is now a nuclear engineerhe cannot find a job, post-	
Residential Non-PIPP	grad school.	Supportive
Residential Non-PIPP	As long as it's environmentally friendly I love the idea!	Supportive
Residential Non-PIPP	Go for it!	Supportive
Vesideligia Moli-Lilia	I would be happy to pay a little more on my bill to get more renewable energy.	Supportive
	Renewables mean prices won't rise in the future due to dwindling supply,	
	cleaner air for everyone, and helping to keep our planet from getting excessively	
Residential Non-PIPP	hot.	Supportive
	I think it is wonderful that you are moving in this direction. More than	
Residential Non-PIPP	wonderful. Thank you.	Supportive
	Wind & solar energy have been around for years. I have seen solar energy in	
	homes and powering a cabin at the Ohio State fair. I would like to see the	
Residential Non-PIPP	savings to our environment and to customers	Supportive
	Glad to hear AEP is moving forwarddifficult decisions, but critical to	
	sustainability. Don't cave to lobbyists. Find a way to bring solar to every corner	
Residential Non-PIPP	of the state.	Supportive
Residential Non-PIPP	I fully support it! Thank you.	Supportive
	I think it is the responsible and intelligent next steps for any business in your	
Residential Non-PIPP	field. Good job	Supportive
	l'm happy and excited that AEP is looking into greater use of wind and solar	
Residential Non-PIPP	energy generation.	Supportive
	I would love to see a variety of options that a customer can choose from. Lets	
	look for something new and not as costly but will keep jobs and have a good	
Residential Non-PIPP	affect on the environment.	Supportive
Nesidel ida itali i ii i	We need to utilize natural sources for energy and to lower energy costs for	эаррогаче
	consumers. I would like to see the elderly and severely disabled receive little to	
	no costs on energy costs because I see them struggle to keep up and make	
Residential Non-PIPP	decisions that impact their health and well being	Cupportius
Residential Non-FIFF	Energy is always priced at the margin, so anything that can be done to reduce	Supportive
	reliance on a source of energy or set of energy products (such as fossil fuels) will increase reliability, lower costs, and strategically place Ohio in a better position	
In Main Man DIDD	· · · · · · · · · · · · · · · · · · ·	C
Residential Non-PIPP	to compete on the world market.	Supportive
	hat the control of the collection of the collect	
	I think it is a great idea. We need to think futuristic and have something that will	
Residential Non-PIPP	last for generations and not find ourselves in a bind if there are low resources.	Supportive
	We'd be happy to have anything on our property that will help with this,	•
Residential Non-PIPP	either wind turbines or solar panels	Supportive
Residential Non-PIPP	Please look into more green energy projects.	Supportive
	AEP should work with the new Ohio governor to create renewable energy	
	sources and jobs for Ohio. Gov'r Strickland started this process, I would like to	
Residential Non-PIPP	see AEP pick up where he left off.	Supportive
Residential Non-PIPP	just do it! hurry	Supportive
Residential Non-PIPP	Very positive step! Happy to hear of this.	Supportive
Residential Non-PIPP Residential Non-PIPP		
	Very positive step! Happy to hear of this.	Supportive
	Very positive step! Happy to hear of this.  Do as much as possible.	Supportive

	Downship Willing to invest in own shility to constate using solar if available and	<u> </u>
	Rewnable. Willing to invest in own ability to generate using solor if available and fit budget. It's more visible to me if I generated energy via renewables than	
Residential Non-PIPP	not knowing (seeing) from another location. Environmental and independence is motivation.	Cupportivo
Residential Non-PIPP	Coal and natural gas are limited supply; When wind and solar goes, we are all	Supportive
Residential Non-PIPP	gone too.	Supportive
Nesidelitiai Noli-FiFF	gone too.	Supportive
	Congratulations on stepping up to increase renewable energy resources when	
Residential Non-PIPP	the federal government won't. We appreciate your leadership.	Supportive
Residential Non-PIPP	I would greatly support a move toward more wind and solar energy!	Supportive
nesidential (4011-11)	It is extremely important to me, to my family, and many friends of mine that we	Заррогате
	begin doing the hard work to save this planet. I would applaud AEP for making	
Residential Non-PIPP	attempts in this direction.	Supportive
Mesidential (Voll-) If I	attempts in this direction.	Supportive
	I see both renewable/sustainable energy sources and job creation as important,	
	but given the trajectory of climate change, greenhouse gas emission, and the rise	
	of the global average temperature, I consider expanding the use of	
	renewable/sustainable energy sources to be much more vital. It would be great	
	to create more jobs in Ohio, but it is much more important that we switch to	
Residential Non-PIPP	renewable/sustainable energy as soon as possible.	Supportive
Residential Non-PIPP	I am so glad that your company is taking steps to go green!	Supportive
nesidential (Volt ) in t	Quit lobbying against green/renewable energy production in the State of	Supportive
Residential Non-PIPP	Ohio!!!!	Supportive
	We need renewable energy. How do we get rid of those nut heads that seem to	
Residential Non-PIPP	get there way fighting renewable energy.	Supportive
	3	
	I believe that everyone in the energy business should be committed to pursuing	
	renewable energy options. We should pursue options to decrease fossil fuel	
	consumption as quickly as is reasonably possible. I am happy to pay more for my	
	electricity if I know that it is coming from environmentally friendly sources or to	
Residential Non-PIPP	pay a premium on top of my bill for documented pursuit of such options.	Supportive
· · · · · · · · · · · · · · · · · · ·	This is greatly important, and will be carried by millennials owning houses and	
Residential Non-PIPP	championing these issues. Please do this!	Supportive
Residential Non-PIPP	I would be willing to pay more for 100% renewable sourced electricity.	Supportive
Residential Non-PIPP	Thank you for your leadership on this	Supportive
	Renewable energy from Ohio is great, but renewable energy from anywhere is	
Residential Non-PIPP	preferable to air pollution and harming the planet.	Supportive
Residential Non-PIPP	Get on with it. Time 's a wasting.	Supportive
	One of the biggest drawbacks to the way that energy is delivered has to do with	
	simple physics - energy delivered drops off significantly with the line distance	
	travelled. So, wind and solar created and transmitted as close to the end	
	customers is critical to increasing power while holding costs down during a	
	learning and development period. For me, the key words would be "localized	
Residential Non-PIPP	sourcing"	Supportive
	I hope you continue to develop it and pursue it aggressively. It's more than time	
Residential Non-PIPP	we catch up with the rest of the First World.	Supportive
	Solar and wind power stations that are local will be good for the economy and	
Residential Non-PIPP	supply local power supply needs!	Supportive
	Just Do It!	
Residential Non-PIPP		Supportive
	I applaud your investment in renewable energy and will be happy to support	
	future efforts in this area.	
Residential Non-PIPP		Supportive
	I believe at least 50% of AEP's energy should be generated from renewable	
Residential Non-PIPP	sources	Supportive

		1
	Improving services and adding technology to meet consumer needs while being	
Residential Non-PIPP	responsible to environmental concerns is absolutely the right thing to do.	Supportive
Residential Non-PIPP	Please begin as soon as possible.	Supportive
Residential Non-PIPP	Definitely in favor of renewable as opposed to fossil fuels.	Supportive
Residential Non-PIPP	This is a good thing.	Supportive
Residential Non-PIPP	You can do better than you do.	Supportive
	Europe has had diversified and renewable energy sources for decades. Look to	-
	them for best practices and answers to questions like "what about the	
Residential Non-PIPP	birdsâ€⊡	Supportive
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	If you choose to do this, you should have someone talk to Marion Technical	
Residential Non-PIPP	College in Marion, Ohio.	Supportive
	After accessing the Apples to Apples website a few years ago, I selected a wind	1-1
	generated rate of \$0.06 per kilowatt hour. My brother was shocked to hear of	
	that rate as Licking County Cooperative rate is about \$0.13 per kilowatt hour.	
	After an initial investment, renewable energy sources would have no fuel cost	•
	and little maintenance costs, plus the benefit of no emissions and no fly ash	
Residential Non-PIPP	disposal costs.	Supportive
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Stop pollution - Wind and solar seem to make the most stars rating	- apporting
Residential Non-PIPP	Please get rid of ugly wires hanging all over	Supportive
Mesiacinalar Non 1 11 1	You definitely need to look into solar & wind sources. Cleaner, less expensive, &	Supportive
Residential Non-PIPP	less subject to terror problems.	Supportive
Residential Non-PIPP	I would payup to 15% more for renewably sourced electricity	Supportive
Residential Non-Fire	Developments in solar power generation appear to be on the verge of	Supportive
Residential Non-PIPP	comparable costs don't get left behind like kodak company was.	Supportive
Residential Non-PIPP	I think it would be a great investment	Supportive
Residential Non-Fire	T UNITK IE WOULD be a great investment	Supportive
	Take a hard look at distributed generation in addition to renowable energy. It	
	Take a hard look at distributed generation, in addition to renewable energy. It	
o . side exial New DIDD	can increase the dependability of the electrical supply; and be sure to invest in	
Residential Non-PIPP	reinforcing the transmission and distribution networks.	Supportive
Desidential New DIDD	This is a vitally important initiative that AEP should focus on over the next 10	C
Residential Non-PIPP	years.	Supportive
D. aidassis I N DIDD	Be smart. Be creative. Possible cooperation with schools like Hocking College,	
Residential Non-PIPP	Ohio University, etc.	Supportive
Residential Non-PIPP	Hope aboundant energy will mean low monthly bill for customers	Supportive
·	This survey is welcome news from AEP. hopefully it isn't just for PR.	
	Make supplied out of time. The environmental timeing asints death and the same hand	
	We're running out of time. The environmental tipping points don't care about	
	short term profits or politicians worried about their next election.	
	The science is and has been clear. AEP will be complicit unless it begins to act	
Pacidontial Nas DIPP	· · ·	Cunnortivo
Residential Non-PIPP	even more aggressively	Supportive
Residential Non-PIPP	I think it's great!  I view this as the single most important responsibility by a utility company and	Supportive
Residential Non-PIPP	_ , , , , , , , , , , , , , , , , , , ,	Cummortine
Kesidentiai Non-PIPP	would be willing to pay extra, if needed.	Supportive
Desidential New DIDD	This would reduce our dependence on return to account and the second	C
Residential Non-PIPP	This would reduce our dependence on natural resources and improve air quality	Supportive
D - sidoutial N DIDO	Would love a program that helps customers to obtain independent renewable	C
Residential Non-PIPP	energy	Supportive
	Your current level of using renewable should be an embarrassment. Come on	
Residential Non-PIPP	now! See the sunđŸ¤"	Supportive
Residential Non-PIPP	i hope you increase your commitment to renewable/sustainable sources greatly	Supportive

	Thank you for seeking input from customers as well as looking into renewable	· · · · · ·
Residential Non-PIPP	energy solutions.	Supportive
Residential Non-PIPP	Should have been sooner!	Supportive
	I have already switched my source to Acadia(wind power). tho it likely comes	
Residential Non-PIPP	from out of state. Would prefer more IN STATE renewables. Thanks 4 the survey!	Supportive
	It's vital to switch to renewable energy sources, and I'm willing to pay more for	
Residential Non-PIPP	my electricity to do so.	Supportive
	We need better cheaper choices that also help out the local job market and	
	helps the planet all at the sametime. We have the technology but no one wants	
Residential Non-PIPP	to be self sustainable.	Supportive
Residential Non-PIPP	Lack on investment in renewable energy is irresponsible.	Supportive
	Very glad to take part and see AEP is keeping important topics like this in the	
Residential Non-PIPP	burner. You should have asked are you willing to pay more and the answer is yes	<del></del>
Residential Non-PIPP	Put some wind farms in southeast Ohio	Supportive
Residential Non-PIPP	Renewable energy is the best choice for My grandchildren's future	Supportive
	The environment should be everyone's chief concern. Poor environmental health	
Residential Non-PIPP	equates to poor health for all.	Supportive
	I believe AEP has taken far too long to invest in wind and solar in Ohio, especially	
	the solar agreed to in the AEP stipulation. Rate recovery or not, it's the right	
Residential Non-PIPP	business decision for the distribution company.	Supportive
Desidential Non DIDD	list in the second control of the second con	C
Residential Non-PIPP	It is very important to reduce our dependence on coal and other fossil fuels.	Supportive
Residential Non-PIPP	Do it yesterday!	Supportive
Residential Non-PIPP Residential Non-PIPP	Utilize ways to save money and save the planet!!!	Supportive
Residential Non-PIPP	I support this effort.  Renewable will last longer. Fossel fuels will run out.	Supportive Supportive
Residential Non-Fire	I support having to pay slightly higher bills in order to increase the amount of	Supportive
	renewable energy. I have looked into programs that are 100% renewable energy	
Residential Non-PIPP	from other suppliers.	Supportive
nesidential Non 1 ii i	mon other suppliers.	Supportive
	I believe we have to begin to be more responsible users of energy and it won't	
Residential Non-PIPP	be easy. Someone has to do the right thing and soon.	Supportive
	Renewable energy is vital to maintaining a livable planet. This venture should	
	have been advanced years, if not decades ago. At the same time, this	
	development needs to be done without harming the environmentDO NOT	
Residential Non-PIPP	locate wind turbines in Lake Erie bird migration paths, for example.	Supportive
	Glad you are pursuing this path. Don't stop with just a survey - move forward	
Residential Non-PIPP	and implement some form of increase in sustainable energy investments.	Supportive
Residential Non-PIPP	Please act on it now. Solar and wind is the way to go!	Supportive
Residential Non-PIPP	do it!!	Supportive
Residential Non-PIPP	Do everything you can to develop renewable energy.	Supportive
Residential Non-PIPP	It would be nice if it lowered the cost in energy bills.	Supportive
Residential Non-PIPP	I think it's awesome!	Supportive
Residential Non-PIPP	I hope it will drive down the cost of electric energy.	Supportive
Residential Non-PIPP Residential Non-PIPP	Do it and don't penalize the customer for using renewable energy.	Supportive
nesidential NON-PIPP	Please bring this opportunity back to Ohio!  I believe renewable energy critical to our resilience as a country for centuries to	Supportive
Residential Non-PIPP		Supportive
Nesidential Noti-PIPP	it is vitally important for future generations to respect the earth and eliminate	20pportive
	our dependence on fossil fuels Continue research to increase use of wind and	
Residential Non-PIPP	solar	Supportive
TOSIGOTICAL TOPPER	Pools.	-appointe

		1
	The use of renewable resources is very important to me. I do not like when the	
	producers of renewable energies are marginalized or penalized. I applaud	
	individuals that have installed solar installations. To me it is a win-win situation	_
Residential Non-PIPP	we are all in this world together.	Supportive
Residential Non-PIPP	Been a long time coming! Should be very aggressive in doing this	Supportive
Residential Non-PIPP	Please, Please, do more with renewable energy generation!!!!	Supportive
Residential Non-PIPP	OMG YES BUILD BUILD its cheaper and better than fossil	Supportive
	Promoting renewable energy generation should be a priority of any responsible,	
	forward thinking energy production company. Renewable energy generation is	•
	more than an opinion or political ideology to promote, but an appropriate	
	trajectory considering current fuel accessibility, global atmosphere conditions,	
Residential Non-PIPP	and future societal energy demands.	Supportive
	I thinks it's great and I hope one day we burn zero coal and only use natural gas	
Residential Non-PIPP	fired plants for backup.	Supportive
	Your flushed with cash so no reason not to make an investment in renewable	
Residential Non-PIPP	energy.	Supportive
	Continue to reduce use of fossil fuels	
Residential Non-PIPP	Thanks	Supportive
	I personally know 2 grade school boys who died from brain tumors in FL. that	
	lived in the vicinity of a nuclear plant. (\$300K houses)	
Residential Non-PIPP	Give me sun and wind.	Supportive
-	We pay extra for renewable energy credits. We would rather actually get	
Residential Non-PIPP	renewable energy.	Supportive
Residential Non-PIPP	The more the better!	Supportive
	I already pay a premium for the Viridian company to supply solar. I hope to get a	
Residential Non-PIPP	rebate this fall after a 3 year investment. This may be a good model for Aep	Supportive
Residential Non-PIPP	It should happen as soon as possible.	Supportive
	Yes, please make use of current renewable energy resources and invest for	
	yourselves in producing renewable energy. This is a part of doing business.	
	Develop & improve. Improve your business model instead of a piss poor	
Residential Non-PIPP	relationship with the people you serve.	Supportive
Residential Non-PIPP	It's about time!	Supportive
	Contact Elon Musk. You know who he is. He already has the best ideas rolling for	
Residential Non-PIPP	renewable energy	Supportive
Residential Non-PIPP	Renewable energy=good	Supportive
	I'm very excited to see AEP starting to take a stand and want to use renewable	
Residential Non-PIPP	energy sources to improve our environment!	Supportive
	Very happy that AEP Ohio is proactive in regards to energy efficiency and	
Residential Non-PIPP	reducing greenhouse emissions compared to First Energy.	Supportive
Residential Non-PIPP	Get to work	Supportive
	I would like to see a larger % come from renewable resources. Perhaps	1,1
Residential Non-PIPP	incentives for solar panels or wind turbines.	Supportive
	I look forward to greener developments that benefit both the earth, AEP and	
Residential Non-PIPP	electric customers.	Supportive
	very happy to see the use of coal become a thing of the past; too bad it took so	1 - Inharana
Residential Non-PIPP	long!	Supportive
	Renewable save money in long run,,, Renewable safer	
	Renewable will be cheaper with more use,, save oil, and resource's, ,	
	Renewable's better for future life	
Residential Non-PIPP	The rest of the second	Supportive
nesidenda NOIFFIFF	I'm really glad to hear that you are doing this. I think the economic feasibility has	
Residential Non-PIPP	clearly been demonstrated.	Supportive
Residential Non-PIPP	Great idea!	
nesidential NUII-PIPP	Toreaciaca:	Supportive

Residential Non-PIPP	while extended on the underside, while at the same time retracted on the upper side, thus maximizing positive contact area and driving force.	Supportive
	- fairs aren are Branch or are carar to bound in the feeth engaged with the carrellt	ı
	and then the gravity of the earth to position the teeth engaged with the current	
	call it dual gravity power. The gravity of the moon to create the ocean currents,	
	I would like to see ocean current power better investigated. Large submerged horizontal cylindrical generators with engaging/retracting "teethâ€☑ I would	
	Lyould like to see econ gurrent newer better investigated. Large cub	
Residential Non-PIPP	negative effects on the environment.	Supportive
	world for our descendants. We must do everything we can to mitigate our	
	Climate change is real and frightening and will result in a much less habitable	
Residential Non-PIPP	energy	Supportive
	I am very appreciative of your efforts to expand renewable sources for our	
Residential Non-PIPP	Very important initiative! Lead on! Thanks!	Supportive
Residential Non-PIPP	This is a great initiative!	Supportive
Residential Non-PIPP	less than 75,000 jobs in coal vs 650,000 from renewables	Supportive
Residential Non-PIPP	favorable business to locate in Ohio.	Supportive
	source. Cleaner air helps with respiratory problems. All will drive more energy	
	Ohio based renewable energy provides Ohio jobs and diversifies the energy	
Residential Non-PIPP	We should not be running a 21st century economy on 18th century technologies.	Supportive
Residential Non-PIPP	Good looking out, smart business strategy for long term.	Supportive
Residential Non-PIPP	I fully support renewable energy.	Supportive
Residential Non-PIPP	I would like solar energy	Supportive
Residential Non-PIPP	International conflicts. "Go for it, AEP!"	Supportive
	Homegrown energy is also better for Nation Security and the prevention of	
	Exciting news! In the long runwe'll all save money AND the environment.	graph and services
Residential Non-PIPP	future generations.	Supportive
	possible . To stop and reverse climate change for the health of the planet and	
	We need to get as much energy from renewables, wind and solar, as soon as	<u> </u>
Residential Non-PIPP	their customers. This is a critical topic that is of urgent priority.	Supportive
	these important developments, updates, and allow for greater involvement from	
	I am eager to know more about this and would like AEP to continue sharing	
	Building and a second a second and a second	
Residential Non-PIPP	geothermal would greatly help this planet for ourselves and future generations	Supportive
	I think a long term goal of utilizing energy from solar, wind, water, and even	
		1-1
Residential Non-PIPP	We need to reverse human caused climate change NOW!	Supportive
Residential Non-PIPP	I am glad to see AEP looking to the future.	Supportive
Residential Non-PIPP	Please help lead the change that our world so desperately needs.	Supportive
Residential Non-PIPP	development of better energy choices that are beneficial to the environment!	Supportive
	We really appreciate all the hard work that goes into the research and	
nesidential from 1 in 1	Gran lacer.	Supportive
Residential Non-PIPP	than later.	Supportive
Nesideficial Noti-FiFF	I think this is a great initiative. Hopefully it can get off the ground sooner rather	Supportive
Residential Non-PIPP	power. Get off of coal	Supportive
vesidential Noti-FIFF	I don't care where it comes from but we need to invest in wind and solar	Supportive
Residential Non-PIPP	AEP should commit to 100% renewable by 2030	Supportive Supportive
Residential Non-PIPP Residential Non-PIPP	Do it! do more of it faster.	Supportive
Residential Non-PIPP	believe it will create more jobs for Ohioans.	Supportive
a al calar oppo	and can harness natural alternative resources such as solar power, as well I	
	I think it is key to become wiser with our decisions as to how we treat the earth	
	the ohio choice website and I suspect others do as well.	Supportive
Residential Non-PIPP	Ithe chic chaice website and Leuchect others do as well	Cunnartiva

<b>.</b>	Wind and solar energy should be used and should reduce the cost of electricity	
Residential Non-PIPP	for all	Supportive
Residential Non-PIPP	Wind farms like in Indiana would be great. Solar would be great too.	Supportive
	Go for 100% renewable wind and solar, NO FRACKING AND SHALE GAS. Wind	
	and solar is proven to be cheaper than coal, both on the generation side AND the	
Residential Non-PIPP		Supportive
Residential Non-PIPP	It is time to get out of coal!	Supportive
	Language AFRA	
Desidential New DIDD	I would love AEP to use more renewable energy, and recently started paying my	
Residential Non-PIPP Residential Non-PIPP	bill through Arcadia power because renewable energy is so important	Supportive
Residential Non-PIPP	Currently switched generation source to be 100% renewable.  It is better for the environment.	Supportive
Residential Non-PIPP	Our environment needs renewable energy.	Supportive
Nesidential Non-FIFF	Ohio is very suitable for wind energy. Perhaps offshore wind farms on Lake Erie	Supportive
Residential Non-PIPP	(out of sight from land) would be perfect.	Cupportive
Residential Non-PIPP	I think this is such a great idea and it would be great for marketing too	Supportive
Residential Non-PIPP	Just do it. Quit waiting.	Supportive Supportive
Residential NOR-FIFE	I appreciate that you are looking to expand your renewable energy portfolio as	Subbounse
Residential Non-PIPP	well as asking your customers about it.	Supportive
Residential Non-FIFF	I appreciate that my energy company is looking into renewables. I think it's the	Supportive
Residential Non-PIPP	way to go for many reasons.	Cumpartius
Residential Non-PIPP	way to go for many reasons.	Supportive
	This should be a major priority for AEP. The many storms, record high heat, and	
	forest fires across the world this year leave no doubt that global warming is	
Residential Non-PIPP	underway, and every business should help control it if they can.	Supportive
Residential Non-FIFF	dideiway, and every business should help control it if they can.	Supportive
	We seem to rely (and politicians/lobbyists encourage this) on fossil fuels in Ohio,	
	hanging on to old industries instead of training workers for renewable resource	
	jobs. My family were coal miners for generations, but it's time to move on. Coal	
	removal greatly harms our local streams, hills groundwater and wildlife/human	
Residential Non-PIPP	environments. "Clean" coal is ridiculous. Go with renewable - I'll support this!	Supportive
Residential Non-PIPP	I encourage moving towards renewables.	Supportive
residential from Fire	Tenodrage moving contradiction	заррогиче
Residential Non-PIPP	I hope AEP makes a significant commitment to renewable energy. It is the future	Supportive
Residential Non-PIPP	A very good move	Supportive
-	Power generation from renewable sources is extremely important or else the day	
	is not far when we would run out of non-renewable energy sources. Infact, the	
	whole world should take it seriously.	
	I appreciate that AEP Ohio is taking steps towards it. Thank you for taking	
Residential Non-PIPP	initiative to conserve our natural resources! :-)	Supportive
Residential Non-PIPP	A day late and a dollar short on making this move, don't you think?	Supportive
	l appreciate that you want to increase your renewable energy availability. I	
	currently get my power through another company through you that is 100%	
Residential Non-PIPP	l .	Supportive
Residential Non-PIPP	Our future lives depend on it	Supportive
•	The overall commitment to encounraging efficient bulbs and appliances makes	
	me feel that an increase in renewable energy would further the image that AEP	
Residential Non-PIPP	Ohio is proactive in protecting our environment while also helping customers.	Supportive
Residential Non-PIPP	Make it happen!	Supportive
Residential Non-PIPP		Supportive
Residential Non-PIPP	Came from CA, used nuclear, not in favor of that.	Supportive

	I think is an extremely positive step forward in progress. We want clean air, to	
	reduce emissions, and to diversify the energy supply to bring costs down. Solar	
Residential Non-PIPP	and wind are an excellent natural source of energy.	Supportive
	I wish the Oklahoma legislators had approved your wind farm. I currently pay	
	you for all my electricity being generated by wind (theoretically) and I hope you	
	can encourage more people to participate in that program. If we can replace	
	GOP legislators throughout the country including in Ohio, we may get a rational	
Residential Non-PIPP	green energy industry established.	Supportive
Residential Non-PIPP	Greatest benefit would be reduction in energy cost to individual consumer.	Supportive
	I would like to see more options available that would be more cost effective for	
Residential Non-PIPP	us as energy users that would be more beneficial to the environment	Supportive
	U,	
	I think it is important that every state have it's own renewable energy source for	
	its residents. Wherever and whenever possible renewable energy is the way to	
	go. I realize there will be initial expense to implement, but it is essential for our	
Residential Non-PIPP	future, and our future generations!	Supportive
<u> </u>	I do not understand why AEP hasn't done more to use renewable energy, such as	
Residential Non-PIPP	solar and wind.	Supportive
	we are behind in the global race to achieve this important goal	
Residential Non-PIPP	J J J J J J J J J J J J J J J J J J J	Supportive
-	If you offer any discounts or rebates on getting your house ready or able to use	
Residential Non-PIPP	renewables, I'd love to know about them.	Supportive
	Please do it thinking of the impact for 7 generations in the future, encompassing	
Residential Non-PIPP	all aspects to the people, & environment.	Supportive
	Keep looking to find new energy sources	
	Coal will always be dirty. I spent 36 years in a AEP power plant and in know how	
Residential Non-PIPP	this fuel source works.	Supportive
Residential Non-PIPP	Make it happen	Supportive
	We have lived where this was very important for the environment, the creation	
	of new jobs and for helping fossil fuels last longer. We have decided to embrace	
	it because our Grandchildren are the ones most likely to be impacted by these	
Residential Non-PIPP	improvements.	Supportive
	More companies should be doing this. This is the way of the future. We need to	
Residential Non-PIPP	protect Mother Earth.	Supportive
Residential Non-PIPP	I think any natural way to reduce the use if fossil fuels is great	Supportive
	Renewable Energy is future! I do respec AEP	
Residential Non-PIPP	OHIO for moving forward "Renewable Energyâ€ãŸ′㟌ž	Supportive
	To stay viable into the future it is important to find other sources to produce	
	energy. Not all resources last forever.	
Residential Non-PIPP		Supportive
Residential Non-PIPP	Long overdue!	Supportive
Residential Non-PIPP	Renewable energy should be a priority for AEP Ohio	Supportive
Residential Non-PIPP	Go all in	Supportive
	Greatly favor renewable, natural sources of energy. Problem might be the cost	
Residential Non-PIPP	involved with production and distribution.	Supportive
	As a former employee of Tesla's solar division, i think Ohio has an incredible	
	market for solar that isn't being utilized enough. Solar farms would be a great	
, , , , , , , , , , , , , , , , , , ,	investment for renewable energy generation as well as rooftop solar for	
Residential Non-PIPP	residential homes through the use of net metering.	Supportive
	Regardless of whether green house gas emissions are as serious as some would	
nadawala se	have us believe, renewables should be pursued because they reduce other	Company :
Residential Non-PIPP	environmental insults.	Supportive

Residential Non-PIPP	AEP should have been investing in Solar Energy a long time ago, it would have developed much faster and we would have cleaner air today.	Supportive
	Renewables are increasingly important for a variety of reasons. Particularly as	
Residential Non-PIPP	people increasingly turn to electric powered equipment and transportation.	Supportive
Residential Non-PIPP	Alternative sources of renewable energy is needed now and it will be the future.	Supportive
	As the massive wildfires out West this summer indicate, global warming IS here	
	and we need to take immediate steps to limit the emissions of greenhouse	
Residential Non-PIPP	gases!	Supportive
	I have visited windmill and solar panel fields in Indiana and other states and have	
	wondered why we haven't used solar or wind power here. Humans are	
	destroying the natural balance of earth at a devastating rate, but the immediate	
	gratification, individual comforts and conveniences cause people to forget about	
Posidostial Non DIDD		Supportivo
Residential Non-PIPP Residential Non-PIPP	the bigger picture, our planet and natural environment as a whole.  Please continue to expand non-nuclear renewable energy sources	Supportive
nesidelitiai Non-PIPP	riease continue to expand non-induear renewable energy sources	Supportive
Residential Non-PIPP	Where can I find more information about your renewable energy initiatives?	Supportive
	Glad to hear it. I have been considering switching to Arcadia Power for this very	
Residential Non-PIPP	reason.	Supportive
Residential Non-PIPP	Thanks for considering more wind and solar!	Supportive
Residential Non-PIPP	its about timewhat took you so long?	Supportive
	I feel that AEP shall make all power from renewable energy sources. Then pump	
Residential Non-PIPP	that energy to existing homes.	Supportive
	I've been a by standard on global warming, but what is going on around the	
	world is scary! We need to take these changes seriously and be more proactive.	
Residential Non-PIPP	Thankyou	Supportive
	Reuse the refuse landfill areas by erecting solar panels for the generation of	· · · · · · · · · · · · · · · · · · ·
	electricity. Most of the landfills are publicly owned so most cities would gladly	
	assist if it meant jobs, good land use, and electric generation from renewal	
Residential Non-PIPP	sources.	Supportive
	I would like to encourage AEP to pursue renewable energy generation. I think it	
	is long over due. It would improve my opinion of AEP to see it become a more	
Residential Non-PIPP	progressive corporation.	Supportive
	I have seen energy from Solar Energy allow for more energy at a lower cost that	
	can then be passed on to customers. My energy bills are about 1/3 lower for	
	another home (almost same size) in another state from a company who uses	
Residential Non-PIPP	Solar energy to supplement their supply.	Supportive
	I'm very glad to see the AEP is at least investigating this option. It doesn't make	
	any sense (except to Donald Trump supporters) to stick with non-renewable	
Residential Non-PIPP	energy sources.	Supportive
	I think we should do all we can to use renewable energy sources as a way to take	
Residential Non-PIPP	care of the earth!	Supportive
Residential Non-PIPP	I think this is one of the most important issues we currently have.	Supportive
	Make renewable	i
Residential Non-PIPP	energy a priority in terms of business planning and capex going forward	Supportive
Residential Non-PIPP	We have 45 acres of land. Would love to use it for renewable resources	Supportive
Residential Non-PIPP	Smart long term investment for all of us.	Supportive
Residential Non-PIPP	We need to do this NOW	Supportive
•		ļ
	Go for it. I would love to see windmills as far as the eye can see. I think it is so	
Residential Non-PIPP	breathtaking seeing the ones that I do coming into Ohio from Indiana on US 30.	Supportive

	Tur-	7
Danisharatial No. 1999	It is very encouraging to learn of AEP Ohio's interest and I am pleased that you	C
Residential Non-PIPP	sent out this survey! Go for it!	Supportive
Residential Non-PIPP	It is about time. You're way behind NextEra.	Supportive
Residential Non-PIPP	It's just common sense.	Supportive
Residential Non-PIPP	Please share your goals. When do you plan to hit 10% renewable energy	Supportive
	, , , , , , , , , , , , , , , , , , , ,	
Residential Non-PIPP	DO IT and GET STARTED NOW !!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!	Supportive
	Wind catcher being cancelled is a huge loss. I really wonder if significant AEP	
Residential Non-PIPP	renewable generation will really happen or if it's lip service	Supportive
	Van The search and suith a new the hetter. The esigned of climate change is	
	Yes. The more renewable energy the better. The science of climate change is done. We need to all we can immediately to reduce the effects of climate change	
Residential Non-PIPP	for us and for future generations of all species on earth.	Supportive
Residential Non-PIPP	ioi us and for future generations of an species on earth.	Supportive
	Would like to see AEP invest in more wind energy, but I realize that Ohio is not	
,	exactly the windiest state. Can off shore (Lake Erie) be utilized to improve the	
Residential Non-PIPP	opportunity for capturing more consistent wind energy?	Supportive
Residential Non-PIPP		Supportive
	I am extremely concerned that social justice is maintained as we seek alternative	
	solutions to provide this critical service. No solutions should allow for the have-	
Residential Non-PIPP	nots left behind.	Supportive
Residential Non-PIPP	Hopefully you will pursue renewables	Supportive
Residential Non-PIPP	Smart move and investment for AEP	Supportive
Residential Non-PIPP	Do it. The sooner the better	Supportive
n di dida na	Development of renewable energy generation is critically important to the lives	
Residential Non-PIPP		Supportive
	USA should make a priority of renewable energy. We are loosing ground now,	
Residential Non-PIPP	and are far from the lead position. It got way worst with the president we sadly have now!	Cupportivo
Residential Non-PIPP	Get on with it.	Supportive Supportive
Residential Moll-NIPP	det on with it.	Jupportive
	Anything that reduces pollution is important to me and for grandchildren I don't	
Residential Non-PIPP	know if this makes our electricity more expensive or not	Supportive
100740	We need to be able to provide energy from renewable sources in an ecologically	
Residential Non-PIPP	friendly manner.	Supportive
	I would love to be able to say that I chose my power and my power company	
	because I know it is from renewable energy I know that getting to 100% is not	
Residential Non-PIPP	realistic, but I think we can lead the country if we work together	Supportive
Residential Non-PIPP	There needs to be a greater dedicated effort to securing renewable sources	Supportive
	The state of the s	J
Desidential No. 5000	Renewable energy is critical to reducing the effects of greenhouse gas and to	Supportive
Residential Non-PIPP Residential Non-PIPP	save our planet for future generations. This should be a top priority.	Supportive Supportive
Nesidelitiai Non-PIPP	More from renewable sources please!  Express the benefits of renewable energy sources to President Trump and	Jupportive
Residential Non-PIPP	Governor Kasich.	Supportive
Residential NOII-FIPP	4.5% is extremely low percentage from renewable energy. Needs to be WAY	эчрогич
~	HIGHER than that. I commend AEP for taking the next steps forward in the	
Residential Non-PIPP	advancement of renewable energy in Ohio.	Supportive
Residential Non-PIPP	Go faster into renewables	Supportive
11011111	1	1 1 1 1 1 1

	Thursday like AED to adverge to any covernment officials for more conqueble	
	I would like AEP to advocate to our government officials for more renewable	
	energy minimum requirements. Our current EPA seems set on destroying all	
	progress that had been made to reduce our carbon footprint and not destroy	
Residential Non-PIPP	our environment.	Supportive
Residential Non-PIPP	Do it!	Supportive
Residential Non-PIPP	keep it up	Supportive
:	Utilization of renewable energy would be a greatly benefit the community	
	present and future not just from an energy independent standpoint but also on	
Residential Non-PIPP	the financial and job front.	Supportive
n - d-ld-l N DIDD	I support plans for renewable energy in the most efficient, cost-effective,	C
Residential Non-PIPP	environmentally responsible manner possible.	Supportive
Residential Non-PIPP	Everyone needs to do everything they can to slow global warming.	Supportive
Residential Non-PIPP	Work to make a higher dependence on renewables.	Supportive
Residential Non-PIPP	Think Green! Be Local! Raise Renewables to 25-30% in next 5 years!	Supportive
Residential Non-PIPP	Very thankful AEP is pursuing this.	Supportive
	AEP should have taken a proactive lead into renewable sources years ago. I	
	think this action now is similar to that of feeding a dead horse, the activities	
	should not be a game of catchup. I send payments to an Ohio address for a	
	product that was perhaps generated or produced in an area on the exterior of	_
Residential Non-PIPP	the State of Ohio geographical borders. No sympathy on either thought.	Supportive
	I think it is great that you are thinking about renewable energy- it will keep me a	
Residential Non-PIPP	customer of yours for sure.	Supportive
	Purchasing renewable energy is a no brainer. Its hard to make other lifestyle	
	adaptations to reduce emisions, for example, travelling less, but its very easy to	
Residential Non-PIPP	switch to more sustainable energy sources for power we will use anyway.	Supportive
Residential Non-PIPP	Glad EP is moving in this direction!	Supportive
	Do:	
	1. Wind farms on Lake Erie	
Residential Non-PIPP	2. Invest in solar in the Southwest	Supportive
Residential Non-PIPP	would like solar energy	Supportive
Residential Non-PIPP	fossil fuels will run out!	Supportive
Residential Non-PIPP	Make renewable energy priority #1.	Supportive
Residential Non-PIPP	I would like to see the majority if our energy be from wind or solar	Supportive
Residential Non-PIPP	Please move forward with renewable energy generation. Its time!	Supportive
	,	
	Pike county Ohio has access to multiple transmission lines and land available for	
	solar or wind development in land at former Portsmouth Gaseous Diffusion	
	Plant. Please contact Pike County Commissioner Anthony Montgomery 740-352-	
Residential Non-PIPP	0706. It could save AEP money with having the infrastructure in place.	Supportive
Residential Non-PIPP	Do this!	Supportive
	I see that Consolidated is utilizing solar energy in Delaware, Oh. I would like to	
Residential Non-PIPP	know that my energy came from solar and wind.	Supportive
Residential Non-PIPP	Please do this!	Supportive
Residential Non-PIPP	The sooner the better for clean renewable energy.	Supportive
	I would have thought we would have renewable energy by now, but I do	
Residential Non-PIPP	understand government gets in the way	Supportive
Residential Non-PIPP	Pursue wind and solar energy	Supportive
Residential Non-PIPP		
	Please contiune to use more renewable energy sources :)	Supportive
Residential Non-PIPP	Please contiune to use more renewable energy sources :) Go for it!	Supportive
Residential Non-PIPP		
Residential Non-PIPP		
Residential Non-PIPP  Residential Non-PIPP	Go for it!	

Γ	The investment is a least a second will had a investment to the least a second to use of	1
D - 1 - 11 - 12 - 12 - 12 - 12 - 12 - 12	The investment in solar energy will help improve technology as a move toward	C
Residential Non-PIPP	energy independence.	Supportive
	Renewable energy is important because our fossil resources cannot sustain our	
n il il la contra di più di	use. Mining and drilling our lands have too many negative effects on our	C
Residential Non-PIPP	environment.	Supportive
Residential Non-PIPP	Would love to see more effort towards renewable energy	Supportive
	Ohio is on the same latitude as Germany, the country with the highest # of solar	
	panels per person. Ohio had similar weather - we could utilize solar energy just	
	fine! And I know that until a few months ago, solar provided quite a few jobs	
Residential Non-PIPP	with installation.	Supportive
	Climate change is most important challenge for future of creature. if we missed	
	opportunity, we all will not survive.	
Residential Non-PIPP		Supportive
	Please do commercials telling more about the programs you offer and what you	
Residential Non-PIPP	are doing to contribute the the environment through your programs.	Supportive
Residential Non-PIPP	get off of oil	Supportive
	I think this is a step in the right direction. Understanding that because of	
	developing this does not mean higher prices considering that "wind is free". I am	
Residential Non-PIPP	hoping this helps save the planet and helps the economy for all.	Supportive
Residential Non-PIPP	I have been looking into switching to solar power.	Supportive
Residential Non-PIPP	lower electric bills through renewbles	Supportive
Residential Non-PIPP	just do it. it's the smart thing to do	Supportive
	Great idea. We are behind the times in this area when it fomes to energy. Way	
Residential Non-PIPP	more positive than negatives.	Supportive
	Please lobby the state of Ohio to make renewable energy an important part of its	3
Residential Non-PIPP	comprehensive energy management polocy.	Supportive
Residential Non-PIPP	Solar is not being developed quickly enough.	Supportive
	encourage new construction to incorporate solar.	
Residential Non-PIPP	build wind powered cell towers (cell towers atop wind turbines	Supportive
	Ohio is a great location for solar, especially roof top applications in town on	
	factorys and other large commercial buildings.	
	Wind is also a very viable resource in the Buckeye State.	
Residential Non-PIPP	Put some coal miners to work building the future not the past!	Supportive
	Keeping the development in Ohio will bring new jobs and prosperity not only to	
	aep but to the people here.	
Residential Non-PIPP	Please do utilize free energy sources.	Supportive
Residential Non-PIPP	l'm very interested and glad this is being considered.	Supportive
Residential Non-PIPP	AEP should move towards more renewable sources	Supportive
	We HAVE to make the world BETTER and not continually destroying it. WE HAVE	
	to do the BEST we can do to PROTECT the Atmosphere, oceans, animals, human	
Residential Non-PIPP	life, ALL LIVING THINGS. We NEED to take a stand and protect the future NOW!!	Supportive
	Thanks for drawing attention to the issue. Renewable energy is growing by leaps	
Residential Non-PIPP	and bounds in other countries and we seem to be lagging behind.	Supportive
	It is extremely important to me that AEP Ohio develop and increase renewable	
Residential Non-PIPP	energy generation. I am very excited that AEP Ohio is considering this!	Supportive
	Please continue the investment in renewable energy, building that infrastructure	<del></del>
Residential Non-PIPP	is vitally important to our community and the world.	Supportive
	for the state of t	1 11 11 11 11

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		<del></del>
	It's not like I really have a choice in where I get my electricity, since AEP is	
	essentially a monopoly in my area, but I feel a little better knowing that AEP is at	
	least making an effort.	
	I would be interested to know what AEP's goals are for renewable energy. The	
	survey mentioned a current proportion of 4.5%, which is so low that an	
Residential Non-PIPP	"increase" could be nearly anything.	Supportive
Residential Non-PIPP	Way to go	Supportive
Residential Non-PIPP	I would love to see updates (links to articles maybe included in my bill email)	Supportive
Residential Non-PIPP	No Fracking!	Supportive
	I applaud AEP's interest in renewable energy and away from coal. It would help if	
Residential Non-PIPP	AEP provided its customers with incentives for their use of renewable energy.	Supportive
Residential Non-PIPP	The more earth and pocket friendly, the better!	Supportive
Residential Non-PIPP	Go for it.	Supportive
Residential Non-PIPP	Use more Solar!!!!	Supportive
nosacii ai noi i ii		Supportive .
	I think we as a country need to be very vigilant and look for other means of	
Desidential Non DIDD	energy sources and look how those can benefit us in the future	Commontion
Residential Non-PIPP		Supportive
	Farmers in Darby Twp within Pickaway county could greatly benefit from wind	
	turbine "farmsâ€æspecially along Rt 62 and I-71 where the high voltage	
	transmission lines already run. It just makes great sense and it always seems	
Residential Non-PIPP	windy out there.	Supportive
	While I know the upfront costs are prohibitive, I believe they would be worth it	
Residential Non-PIPP	to provide renewable energy for years to come.	Supportive
	I love that you're asking thisthis is very important to me and I hope you'll go	
	full speed aheadeveryone wins with renewable energy! don't care what	
Residential Non-PIPP	Trump says.	Supportive
Residential Non-PIPP	Glad you're looking into this!	Supportive
	On previous question: Ohio generous I believe would be beneficial for the state	
Residential Non-PIPP	economy, but we should also consider outside competitive sources	Supportive
Residential Non-PIPP	Thank you! AEP OHIO is Great!	Supportive
	It's very important that the U.S.A. become independent of importing our energy	
	needs, it should be more cost efficient for customers, instead of costs rising for	
	today's energy - start using our renewable and make it happen quickly other	
Residential Non-PIPP	than decades!	Supportive
	I am hopeful that this is the beginning of a new era in which power companies	
	are investing and delivering in affordable and clean energy resources. I believe	
	the placement of a dam along our Ohio River would solve a multitude of our	
Residential Non-PIPP	problems where coal plants are being eliminated.	Supportive
	You need to rapidly increase the percent from renewable sources, Zero reasons	
Residential Non-PIPP	not to.	Supportive
	Do it smart, not showy. Example: Solar isn't best for Ohio based on climate, but	Supportive
	wind is. Talk to environmental professionals who study this at Ohio universities	
	to build a reliable, sustainable, and realistic plan that will work best for Ohio's	
Residential Non-PIPP	ecosystems.	Supporting
Residential Non-PIPP		Supportive
nesidential Non-PIPP	Keep home owners informed of what options are available in future.	Supportive
	AEP needs to be ahead of the curve. Investing in alternate infrastructures now	
n tal tra   Alexa Dino	allows Ohio to hire new workers, and decrease the emission of green house	
Residential Non-PIPP	gases.	Supportive

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	We absolutely must make the switch to renewable energy. It will happen	
	eventually, as we currently use limited resources for electricity; however, it is	_
Residential Non-PIPP	important that it happens soon to save our planet for our kids and grandkids.	Supportive
	Please keep it up. I am thrilled with the new approaches to and the	
	development and support of renewable energy, and for using the opportunities	
Residential Non-PIPP	presented for local job creation and training concurrently with it.	Supportive
Residential Non-PIPP	I'm willing to pay for a line item on my bill for this.	Supportive
Nesidential Non-FIFF	Keep up the good job. Thanks for being there through all kinds of weather and	Supportive
Residential Non-PIPP	hazards	Supportive
Nesidential Non 1 II 1	If we expect, as a society, to still be here 50 yrs. from now enjoying a similar	зарроличе
	quality of life, we have to develop alternative, clean energy sources. Hopefully	
Posidential Non DIDD	we're not too late.	Cunnartiva
Residential Non-PIPP		Supportive
D1-1	NW part of Ohio has about 250 wind turbines. They seem to be providing a lot of	i
Residential Non-PIPP	energy.	Supportive
Residential Non-PIPP	Bring it on	Supportive
Residential Non-PIPP	Disease do it. All of it. There is no vesses to not be using renounble energy.	Cum a activa
Residential Non-PIPP	Please do it. All of it. There is no reason to not be using renewable energy.	Supportive
	They put solar panels in at the West Union school, why not do this for	
n :1 :: las non	government housing to. This would help cut the cost needed for upkeep at	
Residential Non-PIPP	apartments and help save the government some money.	Supportive
	Ohio has a average windspeed all year long that max most turbines. With	
	investment to better turbines, solar, and water power. We as a world could go	
	totally green. Saving the world resources and putting money into the investors	
Residential Non-PIPP	pockets.	Supportive
	Energy independence helps all and creates jobs if done correctly. Please focus	
Residential Non-PIPP	on what u do best helping people when no one can.	Supportive
	I would be proud to say that my utility companies are providers of alternative	
	energy. This is crucial for future generations well being as well as being	
Residential Non-PIPP	financially sound in the long run.	Supportive
	There is a need to move away from fossil fuels. However until the regulations	
Residential Non-PIPP	change AEP has to meet its responsibilities the best they can.	C
Residential Non-PIPP	Change AEP has to meet its responsibilities the best they can.	Supportive
	it needs to be considered because we have way too much pollution and green	
Residential Non-PIPP	, , , , , , , , , , , , , , , , , , , ,	Supportive
Residential Non-PIPP	Stay local to support local	Supportive
	The voters and customers have wanted this for well over a decade. It is time that	
	Ohio start showing a real interest in renewable energy. I think at least half of the	
Residential Non-PIPP	AEP energy should come from renewable energy.	Supportive
residential from 1 if t	Great that AEP is showing concern and willingness to look for ways to help our	· ·
	crippled environment! Thank you! All power companies should be doing the	
Residential Non-PIPP	same	Supportive
	I am very supportive of AEP expanding its renewable energy sources. We need	- appoints
	to be realistic about the future regarding pollution, finite resources and quality	
Residential Non-PIPP	of life.	Supportive
. Concentration in I		
	Do not wait on government regulation(s) to evolve your business model.	
Residential Non-PIPP	Continue to innovate now so that we're all prepared for the future.	Supportive
	Please move forward with this development. Becomes more important every	
Residential Non-PIPP	single day. Glad to hear you are doing this!'	Supportive

		<del>\"\"</del>
	It would be really cool to have a dashboard that shows customer how much the	
	various renewables added contribute. Allow teachers/students to use this	
	information in real time to teach about energy, weather, and finding a balance.	
	Oh, and maybe look into partnering with some of the cool CO2 capture tech at	
Residential Non-PIPP	Universities.ðŸ~‰	Supportive
	We are constructing a water wheel to generate DC power to convert, our	
	concept and design have been aided and information provided from a friend,	
	who happens to be an AEP employee!! Imagine that. Thank you AEP for using	
	Ohio people to generate Ohio's power.	
Residential Non-PIPP	[DELETED DUE TO PERSONAL IDENTIFIABLE INFORMATION]	Supportive
Residential Non-PIPP	I think its a good direction to move in	Supportive
	Renewable energy is a win-win-win. Better for consumer's (air quality), AEP	
Residential Non-PIPP	(diversity and renewable) and business (ultimately lower costs).	Supportive
Residential Non-PIPP	Important addition to energy resources	Supportive
Residential Non-PIPP	Coal very dirty, gas little better. Grid vulnerable to outage. Keep up good work.	Supportive
Residential Non-PIPP	It's a great initiative.	Supportive
	Stop using Coal	
	T-1,	
Residential Non-PIPP	Trump	Supportive
	l appreciate the fact that you have solar panels at the schools in Gallia County. If	
	you approached the Village of Vinton they would gladly let you use undeveloped	
Residential Non-PIPP	land for solar panels.	Supportive
Residential Non-PIPP	Great idea!	Supportive
	I think there's tremendous opportunity for wind energy in Ohio, so my hope is	
Residential Non-PIPP	that legislators and regulators will follow industry's lead on this.	Supportive
	It's renewable. We cannot use it up. That in itself is smart. The benefit to the	
Residential Non-PIPP	environment is incredible.	Supportive
Residential Non-PIPP	Invest more in renewable energy	Supportive
Residential Non-PIPP	Be an industry energy leader by advancing the wind turbine and solar markets.	  Supportive
Residential Non-PIPP	We support your efforts to use renewable energy.	Supportive
Residential Non-PIPP	Do as much as you can as fast as you can	Supportive
	I believe renewable energy is an important step to secure Earth for future	
Residential Non-PIPP	generations	Supportive
	I think it is a positive step towards creating a future that will be sustainable for	
Residential Non-PIPP	our planet.	Supportive
	Please please please make a bigger move in this direction. If a huge influential	
	company like yours is proactive and takes a stand to reduce the use of fossil	
	fuels, it will give the rest of us hope that maybe we really can save the planet.	
	Most of us care and are willing to pay a little more to preserve this planet and	
Residential Non-PIPP	this way of life for our children. Also, coal is gross.	Supportive
Residential Non-PIPP	Do it.	Supportive
	I hope we continue to work on renewable energy dispite the current	
Residential Non-PIPP	administration in Columbus and Washington	Supportive
· ——		
	Keep things local and enrich ourselves. The price premium will pay for itself in a	ļ
	long run, and it's easier to deal with issues locally than nationwide. You can	
Residential Non-PIPP	create your own system to put you in control instead of market forces	Supportive
_	Anything that can be done to improve our environment and turn back the tide of	
Residential Non-PIPP	climate change is extremely important.	Supportive

		,
	Sustainable and non-polluting methods are always superior in the long term. I	
	would happily pay higher rates to not use electricity generated using our limited	
Residential Non-PIPP	fossil fuel resources.	Supportive
	I really have no knowledge what AEP is doing with clean energy, other than what	
	has been said about having to use scrubbers (?) etc. You need more info out to	
Residential Non-PIPP	the public.	Supportive
•	We trail the rest of the developed world in the implementation of alternate (non-	
	fossil fuel) sources of energy, at the same time that our climate slips deeper into	
Residential Non-PIPP	1	Cummonthia
Residential Non-PIPP	irreversible global warming. Renewable energy is the only responsible response.  4.5% that's all, really?! What is wrong with you? You Are not competitive, the	Supportive
	market and technology has advanced. This is a great cost competitive	
Residential Non-PIPP		Cupportivo
Residential Non-PIPP	opportunity. Support US products too!	Supportive
	I feel its important to develop renewable energy through the most	
Residential Non-PIPP		Supportive
	Expand your renewable portfolioat much faster rate and trajectory than	- т.р.
	planned. Several months ago, AEP had a great PR release about your future in	
	the clean energy sector. Let's see the results from this and let's not wait 20 years	
	to see them. Be an innovator and your efforts will be rewarded in the future	
	success of your company. I promise that forward thinking utilities who act now;	
	will be the only ones remaining in 10-30 years. Good luck. Thanks for the smart	
Residential Non-PIPP	meter.	Supportive
	Yes, our Electric runs so high, i feel this will help us with our bill, so our bill will	Сирротего
	come down, so it will be a win win.	
Residential Non-PIPP	Thank You!	Supportive
	I would be very happy if AEP increased the amount of energy from renewable	
Residential Non-PIPP	sources, and would be willing to pay more for electricity from such sources.	Supportive
	Renewable energy sources should be cheaper than non-renewable ones. We	
	need to encourage the development and adoption of such sources. My kids are	
	already going to live in a world wracked by human-fueled climate changed. I	
	would prefer they live in one where there is at least some hope of a better	
Residential Non-PIPP	future, and not one with a collapsing biome.	Supportive
	This is one of the most important areas to develop in our country, our planet.	
Residential Non-PIPP	Thank you for keeping it a priority - please push for more development!	Supportive
	I'd like to believe that you've been working on this for a long time; but even	
	"late" is better than "never."	
Residential Non-PIPP		Supportive
	I would like to see a more proactive approach from governmental entities	
	toward supporting solar and wind energy in their communities, whether private	
Residential Non-PIPP	or public	Supportive
	Would be up for Wind Power as my option and to supply to the Grid, place a	
Residential Non-PIPP	wind turbine on my property :)	Supportive
Residential Non-PIPP	It's time we finally make meaningful investments into renewables.	Supportive
	Coal and natural gas are unsustainable and pollutive and the jobs are dangerous.	1
Residential Non-PIPP	Ohioans deserve better options.	Supportive
Desidentials Size	I'm excited to hear you are planning on increasing the renewable energy sources,	
Residential Non-PIPP	wind and solar. If you need a guinea-pig home, I'll be first in line, please!	Supportive
Residential Non-PIPP	The more wind and solar developed the better	Supportive

Residential Non-PIPP	We need to protect our planet for future generations to enjoy. Thank you for looking into this and please consider doing what's best for the environment.	Supportive
nesidential Moli-LILL	looking into this and blease consider doing what's best for the environment.	Supportive
	A magician can only pull so many rabbits out of his magic hat before he runs out	
	of rabbits, and if the magician could pull rabbits out of his hat forever, I think you	
	would find that we would either be over run with rabbits or eating rabbits for	
	dinner every night. Fracking will only be effective for so long before it too runs	
	out. Also, the carbon use by third world countries will continue to increase as	
a el estas pipo	their economies expand. It is up to the developed nations to lead the way in	
Residential Non-PIPP		Supportive
	The more renewable energy that can be produced the better this world will be	
Residential Non-PIPP		Supportive
	Make it more affordable for residence to utilize renewable energy sources	
Residential Non-PIPP	through grants and subsidies.	Supportive
	If AEP is willing to purchase power from individuals who have their personal	
	renewable source and help to educate people about how to implement their	
Residential Non-PIPP	own sources, that could havve a positive impact.	Supportive
	Love it. Keep it coming! Would love to see even a greater percentage come from	
Residential Non-PIPP	sustainable sources.	Supportive
Residential Non-PIPP	Really hope you start doing this type of investment in clean energy	Supportive
	Keep it eco friendly. Our environment IS who we are & our future. We use	
	Mother Earth and her wild and natural wonders for ALL our needs, from fresh	
	water to the air we breathe, from food, building supplies, jewelry, shade	
	aesthetic appreciation, outdoor sports, entertainment and connection to other	1
	sentient beings. We should NEVER take advantage of her & always show deep	
	appreciation & care as she cares for us! The apple tree, the cow & chicken, the	
	river, the air never asks for appreciation just gives and gives; so too must we.	
Residential Non-PIPP	Thx!	Supportive
Residential Notificial	31174	Supportive
	Renewable energy is the key to a future of clean air. We need to use the wind	
Pacidential Non DIDD	Renewable energy is the key to a future of clean air. We need to use the wind	Supportivo
Residential Non-PIPP	and sun to the best of our abilitywe owe it to our future generations. Thanks.	Supportive
	and sun to the best of our abilitywe owe it to our future generations. Thanks.  We are so far behind other countries in developing renewable energy. The	
Residential Non-PIPP Residential Non-PIPP	and sun to the best of our abilitywe owe it to our future generations. Thanks.  We are so far behind other countries in developing renewable energy. The discussion should be over. We must have better energy sources.	Supportive Supportive
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Residential Non-PIPP	and sun to the best of our abilitywe owe it to our future generations. Thanks.  We are so far behind other countries in developing renewable energy. The discussion should be over. We must have better energy sources.  Renewable energy is the best long-term solution to Ohio's energy needs. I will always give my business to energy companies that prioritize and value renewable energies, thank you!  I appreciate the direction that AEP is going for not only the benefit of the customers but the care and concern of our planet as a whole thank you and keep moving forward for future Generations this is the only home we have so let's take care of it thanks again!	Supportive Supportive
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Residential Non-PIPP  Residential Non-PIPP  Residential Non-PIPP  Residential Non-PIPP  Residential Non-PIPP	and sun to the best of our abilitywe owe it to our future generations. Thanks.  We are so far behind other countries in developing renewable energy. The discussion should be over. We must have better energy sources.  Renewable energy is the best long-term solution to Ohio's energy needs. I will always give my business to energy companies that prioritize and value renewable energies, thank you!  I appreciate the direction that AEP is going for not only the benefit of the customers but the care and concern of our planet as a whole thank you and keep moving forward for future Generations this is the only home we have so let's take care of it thanks again!!  I highly value the use of renewable energies and will happily continue to do business with an energy supplier that shares these values.  Please follow up on this plan!	Supportive Supportive Supportive Supportive Supportive
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Residential Non-PIPP  Residential Non-PIPP  Residential Non-PIPP  Residential Non-PIPP  Residential Non-PIPP	and sun to the best of our abilitywe owe it to our future generations. Thanks.  We are so far behind other countries in developing renewable energy. The discussion should be over. We must have better energy sources.  Renewable energy is the best long-term solution to Ohio's energy needs. I will always give my business to energy companies that prioritize and value renewable energies, thank you!  I appreciate the direction that AEP is going for not only the benefit of the customers but the care and concern of our planet as a whole thank you and keep moving forward for future Generations this is the only home we have so let's take care of it thanks again!!  I highly value the use of renewable energies and will happily continue to do business with an energy supplier that shares these values.  Please follow up on this plan!  Do it!  Switching to renewable energy sources is extremely important in a massive scale as not doing so may, I believe, very possibly lead to the end of society as we know it within our lifetime. It sounds exaggerated, but if you study the predictions of climate scientists, my assumption would be seen as conservative.	Supportive Supportive Supportive Supportive Supportive
Residential Non-PIPP  Residential Non-PIPP  Residential Non-PIPP  Residential Non-PIPP  Residential Non-PIPP	and sun to the best of our abilitywe owe it to our future generations. Thanks.  We are so far behind other countries in developing renewable energy. The discussion should be over. We must have better energy sources.  Renewable energy is the best long-term solution to Ohio's energy needs. I will always give my business to energy companies that prioritize and value renewable energies, thank you!  I appreciate the direction that AEP is going for not only the benefit of the customers but the care and concern of our planet as a whole thank you and keep moving forward for future Generations this is the only home we have so let's take care of it thanks again!!  I highly value the use of renewable energies and will happily continue to do business with an energy supplier that shares these values.  Please follow up on this plan!  Do it!  Switching to renewable energy sources is extremely important in a massive scale as not doing so may, I believe, very possibly lead to the end of society as we know it within our lifetime. It sounds exaggerated, but if you study the predictions of climate scientists, my assumption would be seen as conservative. It's truly a shame, with the wealth and knowledge that the United States has,	Supportive Supportive Supportive Supportive Supportive
Residential Non-PIPP  Residential Non-PIPP  Residential Non-PIPP  Residential Non-PIPP  Residential Non-PIPP	and sun to the best of our abilitywe owe it to our future generations. Thanks.  We are so far behind other countries in developing renewable energy. The discussion should be over. We must have better energy sources.  Renewable energy is the best long-term solution to Ohio's energy needs. I will always give my business to energy companies that prioritize and value renewable energies, thank you!  I appreciate the direction that AEP is going for not only the benefit of the customers but the care and concern of our planet as a whole thank you and keep moving forward for future Generations this is the only home we have so let's take care of it thanks again!!  I highly value the use of renewable energies and will happily continue to do business with an energy supplier that shares these values.  Please follow up on this plan!  Do it!  Switching to renewable energy sources is extremely important in a massive scale as not doing so may, I believe, very possibly lead to the end of society as we know it within our lifetime. It sounds exaggerated, but if you study the predictions of climate scientists, my assumption would be seen as conservative. It's truly a shame, with the wealth and knowledge that the United States has, that we are not already or at least close to already using 100% renewable energy	Supportive Supportive Supportive Supportive Supportive
Residential Non-PIPP  Residential Non-PIPP  Residential Non-PIPP  Residential Non-PIPP  Residential Non-PIPP	and sun to the best of our abilitywe owe it to our future generations. Thanks.  We are so far behind other countries in developing renewable energy. The discussion should be over. We must have better energy sources.  Renewable energy is the best long-term solution to Ohio's energy needs. I will always give my business to energy companies that prioritize and value renewable energies, thank you!  I appreciate the direction that AEP is going for not only the benefit of the customers but the care and concern of our planet as a whole thank you and keep moving forward for future Generations this is the only home we have so let's take care of it thanks again!!  I highly value the use of renewable energies and will happily continue to do business with an energy supplier that shares these values.  Please follow up on this plan!  Do it!  Switching to renewable energy sources is extremely important in a massive scale as not doing so may, I believe, very possibly lead to the end of society as we know it within our lifetime. It sounds exaggerated, but if you study the predictions of climate scientists, my assumption would be seen as conservative. It's truly a shame, with the wealth and knowledge that the United States has,	Supportive Supportive Supportive Supportive Supportive

Residential Non-PIPP	Do it!!!	Supportive
Residential Non-PIPP	Please more renewable energy investment!	Supportive
nesidential (1011 / 11 1	I am currently using a service (Arcadia) that uses credits so that all my energy	Supportive
	comes from renewable sources. We are willing to pay extra for thisâ€"it's that	
Residential Non-PIPP	important to us.	Supportive
Nesidential Non-Fire	anportant to us.	Supportive
	As a millennial, I'm deeply concerned about the climate crisis. It gives me hope to	
	see companies like AEP investing in the Solar project in Southeast Ohio, which	
Residential Non-PIPP	can be a blueprint of redevelopment for our region and shifting the grid.	Supportive
Residential Non-PIPP	Exciting!	Supportive
- Chicarton III	Key to the transition from fossil fuels to renewable sources of energy is replacing	Заррогиче
	the jobs lost with new local jobs producing renewable energy equipment and	
Residential Non-PIPP	installing and maintaining it.	Supportive
Residential Non-PIPP	Renewable energy is good for all. Good decision!	Supportive
Nesidential Non-111	I would love the see more energy coming from renewable sources. I think that	Supportive
Residential Non-PIPP	this is important.	Supportive
nesidelitial Non-Firi	GITS 15 IIII POT COTE.	Jupportive
	Do as much of it as you can. We need to do everything to slow the warming of	
Residential Non-PIPP	our planet if we care at all about our children and grandchildren.	Supportivo
Residential Non-PIPP	I think it should be a priority for AEP.	Supportive
Nesidential Noti-FIFF	Would very much like to see AEP increase the use of renewable resources and	Supportive
Residential Non-PIPP	less reliance on fossile fuels.	Cummantina
Residential Non-PIPP		Supportive
Residential Non-PIPP	I think this is the most important thing AEP can do.	Supportive
	I was very excited to receive This news about AEPs interest in utilizing more	
	renewable energy, if there is any way I could help in furthering this agenda	
Posidential New DIOD	please feel free to contact me at any time.	Cumm - udin in
Residential Non-PIPP Residential Non-PIPP	Disease use more recoveries	Supportive
Residential Non-PIPP	Please use more renewable energy	Supportive
	I domâcima avenicalla luga con la constitución de fina a AFD do istruccidad a constitución de la constitució	
Posidential Non DIDD	I don't typically know about efforts like this from AEP, so it would be good if	Commontion
Residential Non-PIPP	we could find out - might make me more proud to pay each month	Supportive
	AED Objective and the Colins of the Colins o	
	AEP Ohio's generation portfolio sends a message to industry that Ohio is	
	forward-leaning and interested in high tech jobs. Access to utility-scale RE is a	
	decision factor for many companies in locating operations in the State of Ohio.	
	Ohio is being overlooked for billions of dollars of investment and thousands of	
	jobs by not adopting an aggressive RE/EE portfolio. Quality of life - breathable	
	air, cleaner water, and the long-term impacts of coal mining on the landscape	
Decide et al sur DIDD	will all improve. By purchasing solar panels and wind turbines manufacturered in	1
Residential Non-PIPP	Ohio, you increase employment.	Supportive
Residential Non-PIPP	Wind, solar, hemp biomass, hydro all need to happen, now.	Supportive
Residential Non-PIPP	Keep up the good work	Supportive
D14 14 0100	It feels like AEP is slow to modernize. This may be inaccurate, but you don't often	
Residential Non-PIPP	communicate with me.	Supportive
	Ohio can be a leader in renewables and AEP Ohio is in a unique position to be	
Besident's IN - DIDE	the driver. I hope you seize the moment and run with it. If so, future generations	C
Residential Non-PIPP	will look back at how forward thinking you all were.	Supportive
Residential Non-PIPP	offer solar source of energy	Supportive
	While I believe that sufficient resources are available, it is going to be	
	increasingly expensive and damaging to the environment to get them.	
	Renewable energy, if done in the proper location, would be an environmentally	
	sound choice.	
Residential Non-PIPP Residential Non-PIPP		Supportive
	Do it now! The planet depends upon it!	Supportive

	Poway, CA uses a system called Vivintbased in Utah. Look at this program to	
	develop something like it for use in Ohio, if you haven't already. Vivint Solar	
Residential Non-PIPP	Development, 4931 N. 300 W., Provo, UT 84604.	Supportive
Residential Non-PIPP	like to know some results	Supportive
Davidantial Nam DIDD	I do not want to go back in time to dirty coal and there is no such thing as clean coal! The USA is so far behind so many other countries when it comes to renewable energy. AEP has the opportunity to help employ more people right	
Residential Non-PIPP	here in Ohio.	Supportive
	Because carbon emissions pose a public problem, I strongly oppose Ohio only offering customers the opportunity to select market-based renewable energy supply products based on their private preferences. Carbon emission impact everyone, independent of private preferences, and so I would much rather support utility-level tariffs that feature increased renewable energy supply for all customers. However, I am not a supporter of titling utility energy supply as "renewable" through the purchase and transfer of Renewable Energy Credits (RECs). RECs are only environmentally valuable if the energy generated from renewable sources that produces the RECs actually displaces the production of energy that would otherwise be produced from non-renewable sources. A major concern for me is that the majority of RECs purchased for "renewable" supply in Ohio are produced from wind farms in the American Southwest that feature their highest production at night. And RECs produced from wind-farms at night, when Locational Marginal Prices (LMPs) are negative in certain grid locations and customers are actually paid to use more energy, are unlikely to fully offset the carbon emissions claimed from avoided non-baseload generation. Said another way, wind-based RECs likely provide less than the claimed environmental benefits to the grid or society since the increased usage due to negative LMPs cancels out, at least some of, the desired displacement of carbon-based generation. Therefore, I would like to express my concern over AEP Ohio utilizing RECs as a method of providing "renewable" energy supply. I would far rather support higher tariffs that achieve solar projects or pumped hydro storage that would create real environmental benefits through avoided carbon emissions at the time of the day when energy is also most expensive. Thanks for taking the	
Residential Non-PIPP	time to read my long comment.	Supportive
	,	E de la -a
Residential Non-PIPP	Hopefully without charging the customer more, but that probably won't happen.	Supportive
	My concern is about the grid. I realize President Trump is working on all he can	G
Residential Non-PIPP	to protect this from happening. I'm thankful to hear.	Supportive
Residential Non-PIPP	I like your strategy to keep increasing renewable energy. You are preparing for the future.	Supportive
	It is in AEP Ohio's best interest to invest in renewable generation resources to provide a long term, stable energy supply for customers. Renewable infrastructure investments with shared cost recovery (ie a partial cost recovery rider coupled with capital investment) could provide the company with reliable generation assets and grid services that will reduce/eliminate dependence on fossil-fuel based generation, transitioning to an abundant, free fuel source. Grid modernization improvements to stabilize energy supply (microgrid/distributed generation/battery storage) is an essential investment as well. There is proven technology to accomplish a 100% renewable grid and many best practices across the country that are valuable planning resources. AEP is well positioned to	
Residential Non-PIPP	actualize a renewable energy-based grid modernization strategy.	Supportive

	I am all in favor of conservation of what we take for granted. We, as consumers	
	should take more of an interest in preservation of the planet for this generation,	
Residential Non-PIPP	and succeeding.	Supportive
	l'm really excited by it! Already starting to see renewable energies grow in	
	pockets of the State, and it's through efforts like that of the AEP's that we	
Residential Non-PIPP	can see really positive change and growth!	Supportive
	If we start with the	
	If we start using local renewable energy, we can generate our own power, using	
B III II III BIBB	our own labor, without polluting our local environment. It would be crazy not to	
Residential Non-PIPP	do more of this. It is the future and we want to be part of it.	Supportive
Residential Non-PIPP	Let's ramp it up before it's too late	Supportive
	Why are you wasting time asking questions, and not just doing it? And why is it	
	taking AEP so long? Look around the world, beyond Washington D.C. please.	
	There's your answer.	
	The granting should the the general second to the the general second to the second sec	}
	The question about "where" I would like the renewable energy to be "sourced"	
n il ir lar DIDD	or "manufactured" - is electricity "lost" as it travels over power lines? If so, then	
Residential Non-PIPP	closer to home, the better.	Supportive
Residential Non-PIPP	Keep working on using renewable energy.	Supportive
Residential Non-PIPP	More wind and solar please.	Supportive
	Just glad AEP is taking such step. Climate change is real and we need to find safe	
Residential Non-PIPP	and clean energy to secure a future for our children.	Supportive
Residential Non-PIPP	Get it going.	Supportive
Residential Non-PIPP	l'm very excited to hear that AEP is making inroads here.	Supportive
	I would gladly pay more for electricity that is not generated by burning fossil	
Residential Non-PIPP	fuels.	Supportive
n alles pipp	I would be interested in participating in a program to test renewable energy.	
Residential Non-PIPP	have 33 acres in Licking County for testing solar or wind power.	Supportive
Residential Non-PIPP	Kudos for taking this step. I support it 100%!	Supportive
Residential Non-PIPP	I think it's a great idea	Supportive
	Do more. The rest of the world is leaving us behind. Coal is dead and has been	
	for a long time, renewable energy is clean energy and can create new jobs. No	
Danislasskial Nass DIDD	more fracking jobs - this natural gas boom will bust just like they have in the	
Residential Non-PIPP	past. We need sustainable energy sources and sustainable jobs.	Supportive
Residential Non-PIPP	Very glad AEP is looking into this!	Supportive
	I am all for the development and use of more environmentally friendly and renewal sources of energy. I live in an apartment and don't have the options of	
		]
Dooldonatal Sterr DIDD	homeowners but if these energy options are available to renters, also, that	S
Residential Non-PIPP	would be ideal.	Supportive
Residential Non-PIPP	Very supportive of renewable energy.	Supportive
	It is vital to switch to all renewable energy for the good of the environment (and	
n. day to bee	thus future generations) and to get our country less dependent on oil that funds	
Residential Non-PIPP	theocratic Middle Eastern regimes	Supportive
n	Please do whatever we can to reduce the impact of climate change. We must do	
Residential Non-PIPP	what we can for future generations.	Supportive
Residential Non-PIPP	Sounds like great ideas!	Supportive
<b>.</b>	There will always be lots of NIMBYs for renewable projects. Preferable they are	
Residential Non-PIPP	convinced, but necessary that they are overcome.	Supportive
	Solar is best here in SE ohio. Let's turn some of the old coal fields into solar	
Residential Non-PIPP	fields.	Supportive
	this is something I will be watching for in the future and hope there is progress	
Residential Non-PIPP	made towards investing in renewable energy	Supportive

	Climate disruption has reached crisis levels and investing in zero-emissions	
	energy sources is the only responsible path forward. Ohio cities also have severe	
Residential Non-PIPP	air pollution and health problems.	Supportive
Residential Non-PIPP	Seems Ohio is not as open minded to change.	Supportive
	Thank you for asking these questions. We have the ability, knowledge, skills and	
	labor force to invest in this shift. Let's do it! Climate change is a real threat, so	
Residential Non-PIPP	let's make progress, Ohio!	Supportive
nesidential (Vol. 1 to 1	More renewable would be wonderful and the closer to home it is generated the	Supportive
Residential Non-PIPP	better!	Supportive
Residential Non First	I am happy to hear you are pursuing renewable energy options! I 100% support	Supportive
Residential Non-PIPP	this idea!!!	Supportive
Residential Non Fire	I am wholeheartedly in favor of moving to clean energy sources. And am excited	Supportive
Residential Non-PIPP	with the opportunities that low cost power can give us all.	C
Residential Non-Fiff	with the opportunities that low cost power can give us all.	Supportive
	1 think AED abouted do mough many to use warming the arrange to be a second to	
	I think AEP should do much more to use renewable energy to become less reliant	
	on fossil fuels. Also, I strongly feel AEP should bury electric lines to minimize	ļ
Residential Non-PIPP	outages, improve aesthetics, and reduce outage overtime costs!	Supportive
	Pleased that wind and solar is being looked at. We must take care of this earth	
Residential Non-PIPP	and our country's best interest!!!	Supportive
	Broadening resources and controls on new power plants makes good overall	
Residential Non-PIPP	sense. More info to homeowners on solar options would be beneficial.	Supportive
	It would be great if you could help communities like glouster and Chauncey by	
Residential Non-PIPP	constructing solar facilities here in Athens county	Supportive
	I fully support AEP's efforts to increase its commitment to Ohio-based renewable	<u> </u>
Residential Non-PIPP	energy projects that create local jobs.	Supportive
	I think solar is reliable and would like to see this brought to AEP customers if it	
Residential Non-PIPP	can readily be transported from high solar radiation areas.	Supportive
	it is apparent that we will run out of fossil fuels that are easily attained in the	
	near future. All technical developments take time to mature & I'm glad you've	ļ
Residential Non-PIPP	begun the process. Thanks!	Supportive
	My children and grandchildren will benefit from moving away from dirty electric	
Residential Non-PIPP	generation.	Supportive
	Would love to see more renewable power in Ohio! I worry Ohio is moving from	
	coal power into just being a natural gas state instead, there should be a good mix	
	of options. I've shopped for renewable offers but hard to know if the energy is	
Residential Non-PIPP	from Ohio.	Supportive
	I would like to see greater use of solar & wind energy. We have to reduce	
Residential Non-PIPP	greenhouse gases and be more independent of foreign energy.	Supportive
, ,	Anything you can do to reduce greenhouse emissions and global warming (yes, I	
Residential Non-PIPP	believe it's a thing) would be great.	Supportive
	AEP needs to step out from under the coal lobby and our backwards looking	
Residential Non-PIPP	legislators and ramp up investments in renewable energy.	Supportive
Residential Non-PIPP	having an alternative to carbon based fuel sources is prudent	Supportive
Noble of the last		очеро не
	Please invest as much as you in into renewable energy sources! Make it easier	
Residential Non-PIPP	for customers to install solar panels and perhaps contribute to the electrical grid	Supportive
	Put in more solar!! One of the largest solar racking companies in America	
	manufactures there product in Columbus, OH!!	
	manageres there product in columbus, origin	
Residential Non-PIPP	Buy local! Build the State of Ohio workforce	Supportive
Residential Non-PIPP	Would happily pay more for using renewables.	Supportive
Mesidential Noti-FIFF	Local renewable energy is important. To much energy is lost in lengthy	Supportive
Decidential New DIDD	distribution.	Supporting
Residential Non-PIPP	uistributioli.	Supportive

	The many the best National and arranged to the second them are	
Desidential New DICC	The more, the better. Wind, and even solar, are now more than cost	Cunnartius
Residential Non-PIPP	competitive with fossil fuels, so there is no excuse to avoid them.  I think it would be a step in a great direction to use solar/wind for our energy	Supportive
Danidantial Nan DIDD	1 .	Common matrices
Residential Non-PIPP	needs.	Supportive
Residential Non-PIPP	Just the hope of taking this seriously  I think it is admirable that is is a goal of yours, and it makes me happy to be a	Supportive
Residential Non-PIPP	customer.	Supportive
Residential Non-PIPP	Phasing out the burning of coal for power generation is the most important thing	Supportive
	AEP can do. Replacing coal with solar and wind will be recognized as both a	
Residential Non-PIPP	brilliant societal as well as corporate PR move.	Supportive
Residential Non-PIPP	Get on with it.	Supportive
Nesideritian North III	det on with it.	Supportive
	I understand that there are costs to developing re newable energy.however,once	
	that is developed, as a consumer who conserves energy, lower pricing should be a	
	fair benefit to consumers like myself who try to keep my environmental footprint	
Residential Non-PIPP	as low of an impact as possible	Supportive
Residential Non-PIPP	Get with government and make positive plans!	Supportive
	0	
	We signed up to get emerg produced by Star Energy Partners Partners through	
Residential Non-PIPP	you. Believe it's very important to promote wind & solar energy.	Supportive
Residential Non-PIPP	no fracking!	Supportive
Residential Non-PIPP	Do more of it and offer incentives targeted at low-income neighborhoods	Supportive
	Renewable energy is about to become cheaper than fossil fuels. The cost is	
:	already dramatically cheaper if the military cost of defending fossil fuel sources	
Residential Non-PIPP	all over the globe is admitted.	Supportive
Residential Non-PIPP	More renewable energy ASAP. More Ohio renewable energy ASAP.	Supportive
Residential Non-PIPP	Keep it local keep it green	Supportive
Residential Non-PIPP	Show us, don't tell us.	Supportive
Residential Non-PIPP	iT SHOULD BE considered seriously	Supportive
Residential Non-PIPP	I'm thrilled that you are seeking other alternatives. We only have one earth.	Supportive
	Someday if enough renewable energy is produced there might be a way to just	
	charge businesses and give free energy to residential customers within the state.	
Residential Non-PIPP	, in the second	Supportive
Residential Non-PIPP	I belong to Sierra Club group that is working on 100% Renewable Energy	Supportive
	Please do it as much as you are economically able to! This is the only way we as	
Residential Non-PIPP	humans should generate power!	Supportive
	It makes me happy that the company is reaching out to its customers and looking	
Residential Non-PIPP	into more renewable energy sources.	Supportive
	Whatever you can do to make strides toward obtaining more renewable energy	
	sources, please make them ASAP. I'd like to keep the world habitable for my	
Residential Non-PIPP	nieces in the future.	Supportive
	Where ever we can produce energy by using wind and solar would be amazing!	
Residential Non-PIPP	l'm glad you guys are working on this .	Supportive
Residential Non-PIPP	would like to fast track renewable options	Supportive
	It is very important to make ALL energy renewable using the natural energy of	
n (1 ) (1)	the planet. The planet and her people cannot continue using harmful	C
Residential Non-PIPP	substances.	Supportive
	that any of 2000/ to obtain a dealer of a Children Children	
m 11	Let's commit 300% to wind and solar energy. Oklahoma squandered the greatest	1
Residential Non-PIPP	opportunity I have seen in my life for clean energy. Makes me mad.	Supportive
Residential Non-PIPP	It's the right thing to do!	Supportive
Residential Non-PIPP	strongly support	Supportive

Residential Non-PIPP	Start with wind.	Supportive
	Should be considered an urgent project.	
	Preponderance of science based evidence supports it.	
Residential Non-PIPP	Congratulations on this initiative!	Supportive
Residential Non-PIPP	l am for green energy 110%	Supportive
	Please start to supply energy to our homes from renewable energy resources	
	ASAP. Our world and grandchildren will thank you. I am excited about the future	
Residential Non-PIPP	of AEPs green energy sources.	Supportive
Residential Non-PIPP	Go for it!	Supportive
	I own a place in another state; recently installed solar and am very, very pleased	
Residential Non-PIPP	w/it.	Supportive
	I feel the United States is way behind when it comes to taking advantage of	
	RENEWABLE RESOURCES. We need to take responsibility as humans for the	
	damage we cause and make huge changes for a positive effect on our	İ
Residential Non-PIPP	environment before it's too damn late!	Supportive
Residential Non-PIPP	Thank you for leading this disscussion.	Supportive
Residential Non-PIPP	Yes. Please install as much as possible. Climate change is no joke.	Supportive
	I would like to see total energy sourced from renewable sources as soon as	<u> </u>
Residential Non-PIPP	possible. Moving away from fossil fuels is very important.	Supportive
	Near Toledo, Ohio, a school district has a wind turbine to cut down on energy	
	bills and they use it as a "hands on" teaching tool for the students to learn about	
Residential Non-PIPP	renewable energy sources and benefits.	Supportive
Residential Non-PIPP	We need to move in this direction as fast as possible!	Supportive
Residential Non-PIPP	A good thing to do	Supportive
	It is imperative that the country move toward 100% renewable energy as soon as	
	possible to slow the progression of global climate change and ecological damage	
	done by using non-renewable energy sources. AEP needs to do its part as quickly	
Residential Non-PIPP	as possible.	Supportive
	Renewable energy sources are a winning solution for everyone except big oil and	
Residential Non-PIPP	coal companies.	Supportive
,	I would love to see a substantial change in how we view the creation of energy	
Residential Non-PIPP	and fuel. I whole heartedly hope that we see this change sooner rather than later	Supportive
Residential Non-PIPP	Ecstatic you are trying to better things.	Supportive
	I think solar and wind energy are very exciting options. We need to explore these	
	in order to preserve our world for future generations. I would love to have solar	-
Residential Non-PIPP	panels on my own home.	Supportive
	I would love to see this. I believe that this would also help reduce blackout	
Residential Non-PIPP	problems.	Supportive
	With fossil fuel supplies depleting and all of the environmental damage done as a	
	result of their use, it is even more important than ever to start using cleaner,	
Residential Non-PIPP	renewable resources.	Supportive
	I applaud AEP's interest in renewable energy, and the commitment you have	
	shown. It is great when a major corporation takes an issue like this one so	
Residential Non-PIPP	seriously. Proud to be your customer.	Supportive
Residential Non-PIPP	The Sun and the wind is free, the cost is in the equipment!	Supportive
	I would be interested to know more about what is being done and what I, a	
	single residential customer, can do to help or drive the innovation in my	
Residential Non-PIPP	(infinitesimally) small way.	Supportive
Residential Non-PIPP	The sooner the better	Supportive
Residential Non-PIPP	We'd be willing to pay a little more for renewable energy generation	Supportive
	We absolutely must move in the direction of renewable energy generation. This	
Residential Non-PIPP	is a non-negotiable.	Supportive
Residential Non-PIPP	Keep working at it. Please.	Supportive

	We need to be getting away from coal and eventually marketing all energy from	1
Residential Non-PIPP	wind and solar.	Supportive
The State of the S	AEP should look into Solar Highways (solar panels covering parts of highway) in	Supportive
	and around cities; remove sun glare and majority of snow and rain from	
	highways while creating energy to recharge electric vehicles on electrified	
Residential Non-PIPP	highways.	Supportive
Residential Non-PIPP	More renewable energy!	Supportive
Residential Non-PIPP	Please continue and increase renewable energy.	Supportive
	Wind generation needs to accepted by the community. School Districts with	опротите
Residential Non-PIPP	solar panels need ability to sell excess energy back to AEP.	Supportive
	Although I am fairly conservative, I truly believe we are destroying this earth for	
	future generations by depending on fossil fuels so much. I think there is plenty of	
	evidence to support being more environmentally responsible. Additionally I think	
Residential Non-PIPP	this could be done at an affordable price without depending on foreign suppliers.	Supportive
Residential Non-PIPP	The more the better. How about supporting solar-power generating roof tiles?	Supportive
Residential Non-PIPP	Needs to be done. Go for it!	Supportive
Residential Non-PIPP	Support it very much	Supportive
Residential Non-PIPP	Hopefully, our bills/ charges would be less.	Supportive
Residential Non-PIPP	We have the tech, but not the will. Let's get it done.	Supportive
Residential Non-PIPP	More solar the better	Supportive
	AEP should include utility scale battery storage systems such as those provided	
Residential Non-PIPP	by Tesla Energy.	Supportive
Residential Non-PIPP	Happy to hear it!	Supportive
	Renewable energy will create jobs that were lost due to coal mining decline. So	
Residential Non-PIPP	I'm all for jobs that will be created.	Supportive
	It would be nice for AEP to get involved in novel ways/technologies to generate	
Residential Non-PIPP	electricity - less coal, more wind and solar	Supportive
	The future is moving toward renewable energy, and I want to be part of the	, ,
Residential Non-PIPP	solution, and therefore who I'm purchasing my energy from.	Supportive
Residential Non-PIPP	get with it	Supportive
Residential Non-PIPP	Strongly encourage this development	Supportive
Residential Non-PIPP	We need this. Badly.	Supportive
	I like that AEP is goibg in this direction to serve their customers better. Being	
Residential Non-PIPP	aggresive in renewable energy is a plus.	Supportive
Residential Non-PIPP	Thank you for making this investment!	Supportive
Residential Non-PIPP	Great Idea and hope that it would lower cost over time	Supportive
	4.5 percent is pretty pathetic coming from a company based here in the 1st	
Residential Non-PIPP	world	Supportive
Residential Non-PIPP	Very important	Supportive
	Would be great for renewable energy sources to be developed in Ohio for job	
Residential Non-PIPP	creation and economic growth.	Supportive
	It definitely beats our president's promise to put coalminers back to work.	
	Particularly in comparison to burning fossil fuels, which he, like everyone else	
Residential Non-PIPP	should know is bad for the environment.	Supportive
	In certain countries, I have seen reactors that burn garbage to produce energy.	
	The reactors burn clean, and they actually have a surplus of energy. It would be	
Residential Non-PIPP	fantastic if AEP could lead the charge, from Ohio, to do the same.	Supportive
	Build wind turbines in KS / IL more wind than OH	
	Don't bother with solar in OH - cloudy days	
Residential Non-PIPP	50% - inconsistent power generation	Supportive
	We need to make sure that we have a good quality of air where we live so that	
Residential Non-PIPP	_ · · · · · · · · · · · · · · · · · · ·	Supportive
		, · ·

· hitania	It would like to coop much higger compilment to recovered a group if my	1
Residential Non-PIPP	I would like to see a much bigger commitment to renewable energy even if my energy bill increases	Supportivo
Residential Non-PIPP	Columbus is leading the way as a smart city I am glad to see AEP taking those	Supportive
Residential Non-PIPP	steps as well!	Supportive
itesidential (4011 1)	Energy is most efficient the closer it is generated, so renewable energy in Ohio is	Заррогиче
	important. Working with customers to get solar panels, etc., connected directly	
Residential Non-PIPP	to their homes is important as well.	Supportive
Residential Non-PIPP	I would like to use my property for solar energy for free electric	Supportive
Residential Non-PIPP	I would hope this leads to lower costs for the future	Supportive
Residential Non-PIPP	OH should be ready to face the challenges from the next decade	Supportive
Residential Non-PIPP	I would pay extra knowing my energy comes from a clean source	Supportive
nesidential	I encourage you to continue to look at renewable and other options that are	oupportive .
Residential Non-PIPP	better for the planet	Supportive
Residential Non-PIPP	Laudable effort!	Supportive
Neside Italia (1977)	The sooner this happens, the better. I switched to Arcadia Power some time ago	- Supportive
Residential Non-PIPP	because of AEP's lack of renewables.	Supportive
TODIO OTTO	I love the smell of toxic exhaust fumes while walking to work. They smell so	
Residential Non-PIPP	great. I could bathe in it.	Supportive
Residential Non-PIPP	Continue making it better for all of us	Supportive
Residential Non-PIPP	This is a must!	Supportive
Residential Non-PIPP	Solar energy would be welcomed in Ohio	Supportive
nosidelidai (1011 11)	Natural energy efficiency would save AEP money that could be passed on to their	
Residential Non-PIPP	customers.	Supportive
Nesidential Non I II	AEP should be ashamed at how low the percentage of renewable energy they	
Residential Non-PIPP	use. I want see 25% or more.	Supportive
Testaerrea Testaerre	I wish you would use more renewable energy for so many reasons. If we do not	0000000
	begin to depend upon more on renewable energy, we will do so much damage	
Residential Non-PIPP	to our earth.	Supportive
nesidential Month in t	Thanks for taking a step in the right direction. Cheap renewable energy should	Supportive
Residential Non-PIPP	be our present, not our future.	Supportive
Nesidential Hon Chi C	So out present where	Барротеге
Residential Non-PIPP	I'm sure it will cost me money, everything AEP does cost the customer money.	Supportive
Residential Non-PIPP	Why have you waited so long?	Supportive
TOOTG CITCOT		
	Corporate America, and others, have for far too long looked at the immediacy of	
	the P&L vs proper methods to generate power. Example, when TEPCO scrapped	
	the building a Tsunami wall, alas, Fukishima. When BP disregarded warnings of	
	the Horizon drill site, alas a record spill. I.E. do it right with extra controls in place	
	and your clients will reward you forever. AEP increasing renewable energy	
	should be marketed beyond anyone's expectations as the right thing to do for	
	their customers, "AEP Tomorrow". Would I pay a surcharge to have it done	
Residential Non-PIPP	correctly? Absolutely, every day.	Supportive
	l'm glad to hear this is being prioritized by AEP, I hope that AEP continues to	1122222
Residential Non-PIPP	move towards renewable energy!	Supportive
Residential Non-PIPP	I wholeheartedly support the move toward more green energy sources.	Supportive
	This is SO important and renews my faith in AEP tremendously. Our country is so	
	far behind on developing and relying on renewable energy sources. It's a no-	<u> </u>
	brainer and I hope AEP can lead the way for other energy companies (or at least	
Residential Non-PIPP	get on the bandwagon)	Supportive
nestucitual Notifia?	Every step away from fossil fuels is a good one, especially when we consider the	Jupportive
Residential Non-PIPP	ever-increasing problem of global warming.	Supportive
Residential Non-PIPP	Have 22acres that could become a windmill farm	Supportive
Residential Non-PIPP	Good idea!	Supportive
Nesidential Mon-Fire	Pood (dea:	Inahbor ave

	As a widow of an AEP worker, I always thought years ago that the company	
:	should be seeking other ways to produce electric power, before they were	
	gradually phased out of the coal-fired generation. I hope it's not too late to do it.	
Residential Non-PIPP	My husband's work place is no longer in existence.	Supportive
Residential Non-PIPP	Give me an option to buy renewable energy now!	Supportive
Residential Non-PIPP	Move toward goal of 100% solar and wind generated energy	Supportive
nesidental roll is a	more conditional sources and wind generated energy	Supportive
Residential Non-PIPP	I totally support the initiative and am happy to see that it will finally happen!	Supportive
	Renewable energy is of great importance for now and future generations. The	
Residential Non-PIPP	investment now will pay dividends in the future.	Supportive
Residential Non-PIPP	I am all for it	Supportive
	Making a commitment to using renewable sources of energy just makes good	
	sense. Our children may not feel the impact but our grandchildren and great	
Residential Non-PIPP	grandchildren very likely will.	Supportive
Residential Non-PIPP	I love this initiative.	Supportive
Residential Non-PIPP	Very interested in renewable energy in Washington county, Ohio.	Supportive
Residential Non-PIPP	Get this started!	Supportive
	It is a great step that AEP ohio has decided to do. I would say make sure this	
Residential Non-PIPP	renewable source of energy come into realisation.	Supportive
	Thank you for looking toward energy sources of the future rather than getting	
Residential Non-PIPP	stuck in the past.	Supportive
Residential Non-PIPP	Go for it!	Supportive
Residential Non-PIPP	I would like to see AEP go to 100% renewable energy.	Supportive
	It is of vital importance that we reduce our carbon footprint and invest more in	
Residential Non-PIPP	renewable energy.	Supportive
	I think it is a very innovative idea. It is important to learn new ways to make a	
	more efficient and user friendly source of electricity for humans and also our	
Residential Non-PIPP	planet earth	Supportive
	Investments should be preceded by grid upgrades to insure efficient use of	
	power. Also, when possible, investments should preference Ohio	
Residential Non-PIPP	production/manufacturing/sale/installation.	Supportive
	i would love to see this development and hope it drops our energy bills.	
	However, when I read "investment", I think of increased bills for the consumers,	
	at least initially, unfortunately	
Residential Non-PIPP		Supportive
	Please do this!! It is vital that you expand to renewable energy as much as	
Residential Non-PIPP	possible.	Supportive
Residential Non-PIPP	Need to increase both solar and wind options	Supportive
	I believe that energy that is renewable (solar, wind, tide, hydro) and not	
	dependent on unclean fossil fuels that is so destructive of the world's	
	environment.	
Residential Non-PIPP	Please pursue clean, alternate energy.	Supportive
	I would like more information about the use of solar power and the current	
Residential Non-PIPP	availability of it where we live.	Supportive
Residential Non-PIPP	This should be a no brained. Just do it.	Supportive
Residential Non-PIPP	The more and sooner, the better.	Supportive
	I had no idea that you only produce 4.5% of your energy from renewable	
Residential Non-PIPP	sources. GET MOVING	Supportive
	It would be proud to have my energy come from renewable energy, earth	
	friendly sources especially if it was produced in Ohio + created local jobs. I don't	
Residential Non-PIPP	want Ohio to lag behind in green technology	Supportive

	What took so long. Let's get moving. Anybody over 50 like me should be	ĺ
	embarrassed we are so far behind and will be handling our kids a worse situation	
	than what we inherited. Decisions by the older set should focus on the kids and	
Residential Non-PIPP	future children of our world and the country.	Supportive
	I have seen the windmills in Indiana off I 65 on the farmland. It actually is pretty	
	nice to see. Not loud. We stopped to enjoy it and it probably helps the farmers	
Residential Non-PIPP	so it would be a win-win for generates electricity and for the farmers benefit.	Supportive
Residential Non-PIPP	Please do this. Help to save the environment by using renewable energy.	Supportive
Residential Non-PIPP	Should be done. So important. Glad to know AEP is doing this.	Supportive
Residential Non-PIPP	I like renewables	Supportive
Residential Non-Fiff	It is time to invest heavily in renewable energy, both to limit greenhouse gases	Supportive
Residential Non-PIPP	and to provide good jobs.	Cummanting
Residential Noti-FIFF	I am hopeful that you will ramp up solar and wind energy production	Supportive
Residential Non-PIPP	significantly. These technologies are clean, cost effective and will provide new jobs.	Supporting
residential Non-PIPP	IJUUS.	Supportive
	I have that this is compathing that is going to law at the hills of any continuous by	
Desidential New DIDE	I hope that this is something that is going to lower the bills of aep costumers bo	Supporting
Residential Non-PIPP	that rates are already so high for the middle class working people.	Supportive
	I would love to know if there are any incentives or help for individual customers	
	who would be willing to possibly install windmills or solar panels on our own	
11	land. Its something i have honestly thought about personally. Just not sure	
Residential Non-PIPP	where to start or how it works.	Supportive
Residential Non-PIPP	We support your efforts to generate electricity from wind and solar sources.	Supportive
	I feel that solar and wind power is the future and should have been implemented	
	years ago, it just makes sense, it's time to look into this renewable energy for	
Residential Non-PIPP	years ago, it just makes sense, it's time to look into this renewable energy for the better for people, less costly billing and our amazing planet! Let's do this!!!!	
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Residential Non-PIPP	years ago, it just makes sense, it's time to look into this renewable energy for the better for people, less costly billing and our amazing planet! Let's do this!!!!	Supportive
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Residential Non-PIPP	Go for it!	Supportive
Nesidelicial Noti-1 if F	I think this is incredibly important and I would love to see more energy	Supportive
Residential Non-PIPP	investment particularly in south eastern ohio.	Supportive
Residential Non-PIPP	You are starting MUCH too late!	Supportive
Residential Non-PIPP	Just do it	Supportive
Residential Non-PIPP	Just do it!!!!	Supportive
Nesidential Non-in-	We are very happy AEP is prioritizing efforts to make renewable energy Ohio's	зарротите
Residential Non-PIPP	source for energy.	Supportive
Residential Non Filt	Other types of supplies are going to run out at some point, wind we have and	опротите
Residential Non-PIPP	sun we have at this point.	Supportive
Nesidelitiai Noll-Fiff	Please invest quickly, 4.5% seems low. I have considered other providers for this	
Residential Non-PIPP	reason.	Supportive
Residential Non-PIPP	Glad that you are stepping up to help us to help the world. Thank you!	Supportive
Residential Non-PIPP	Glad to know you are looking into this.	Supportive
Residential Non-PiPP	Glad to know you are looking into this.	Supportive
	Cool is not an ention. Gas has a limit. As a country we have to find a hotter	
	Coal is not an option. Gas has a limit. As a country we have to find a better source of energy, sun and wind, and push for environmental improvements in	
	1	
Residential Non-PIPP	building and construction. This needs to happen despite our current administrations efforts to take us back to the early 1900's.	Supportivo
Residential Non-PIPP	administrations efforts to take us back to the early 1900's.	Supportive
	the componentially important to me and acceptibles and acceptibles.	
	It is exponentially important to me and my children, and my children's children,	
	that energy companies like yours invest in renewable sources of energy NOW as	
	opposed to later when it will be too late. Fossil fuels are antiquated and	
	obsolete. Clean coal is an oxymoron, so please stop trying to sell it as an	
	alternative to burning dirty fuels. It's time to go all in on renewable energy.	
	Damage has already been done to this planet, but if energy producers take the	
	initiative and invest more in renewables NOW, we can mitigate the loss &	
	damages to minimal levels. We ALL have an obligation to leave this planet in	
	better condition than how it was when we received it. Don't wait for Congress to	
Residential Non-PIPP	tell you to do it. Take the initiative and just do it!	Supportive
	We have this responsibility to our children's children. we must leave them with a	i
Residential Non-PIPP	sustainable energy plan.	Supportive
	I think it is an amazing idea and what we need to keep our environment great for	1
Residential Non-PIPP	the future	Supportive
Residential Non-PIPP	This should definitely be a priority!	Supportive
Residential Non-PIPP	Start now	Supportive
	I believe renewable energy investments would not only be beneficial for	
	environmental reasons, but also, a business savvy decision on your part. Thank	
Residential Non-PIPP	you for creating this survey!	Supportive
Residential Non-PIPP	I am looking forward to cleaner, safer and cheaper energy	Supportive
	If it is possible to select a green energy only option without going through and	
	outside provider, I would. Is that an option and if so could it be made more	
Residential Non-PIPP	widely known?	Supportive
	I all for renewables. It just makes sense. Please offer more programs and let's get	
Residential Non-PIPP	this going already.	Supportive
Residential Non-PIPP	It's important to reduce our dependence on fossil fuels.	Supportive
	I appreciate AEP asking its customers for their opinions on increasing its	
	renewable energy generation. There is lots of evidence that renewable energy is	
	more cost effective and the long-term impacts on to reduce the effects of global	
Residential Non-PIPP	climate change is essential.	Supportive
	I think this is long overdue. The technology has been available for greener	
	methods of producing electricity, so I truly hope that you invest in renewable	
Residential Non-PIPP	forms of energy generation.	Supportive
Residential Non-PIPP	Cleaner and hope it will reduce my electronic bill	Supportive
Residential Non-PIPP	Would love to see more solar and wind generation.	Supportive
nesidential HOIFFIFF	Tream fore to see their some time white Benefacion	1bb

Residential Non-PIPP	I am very happy to hear you are considering these options!	Supportive
Residential Non-PIPP	The sooner the better regarding renewable energy generation.	Supportive
Residential Non-PIPP	Continue to develop means of providing renewable energy!	Supportive
Residential Non-PIPP	The sooner the better.	Supportive
Residential Non-PIPP	l'm very pleased to see AEP has interest in expanding.	Supportive
Mesidential Monthir	ide in very preased to see ALF has interest in expanding.	Заррогиче
Residential Non-PIPP	Good luck with the Trump administration. Would love more options though.	Supportive
	The United States is falling behind other countries in the race to become energy	
	independent and to reduce our carbon footprint as a nation. I hope AEP does its	
	part to show the world that the United States is aware of the damage our	
	lifestyles cause and we are taking steps to become both accountable for our	
Residential Non-PIPP		Supportive
Tresta cite in the	I think it is important but understandably it will be difficult to not push the cost	<u> </u>
Residential Non-PIPP	to customers.	Supportive
Residential Non-PIPP	I would like more renewable energy sources for my power.	Supportive
Nesidentiar (VOI) 1 II 1	Two did like more renewable energy sources for my power.	Supportive
	While it is very important that renewable energy be produced in the State of	
	Ohio if at all possible, this is of such critical importance that starting off	
Residential Non-PIPP	immediately with non-local (that is out-of-state) sources is better than waiting.	Supportive
Nesidential Non-FIFF	Infinediately with non-local (that is out-of-state) sources is better than waiting.	Supportive
	Transitioning from non-renewable to renewable energy not only makes good	
	environmental sense, it makes good business sense. Protecting the coal industry	
	benefits a small percentage of the work force and prevents the development of	
	businesses and technologies that could potentially employ a much larger work	·
Davidantial Nam DIDD		C. mana min ca
Residential Non-PIPP	force and benefit the environment in the process.	Supportive
	I	
	I congratulate AEP on its forward thinking. I believe we need to use wind and	
	solar energy sources to reduce carbon emissions. I am saddened by the lack of	
	the US President and Republican lack of support of the Paris Agreement	
	concerning climate change. Our temperatures are on the increase and we need	
	to decrease destruction of vital components of this planet, such as protecting the	
	polar ice caps. Without reduction in carbon emissions, we will see more fires in	
	the Western States and higher temperatures overall. Ohio has plenty of areas	,
	suitable for wind power production. Solar energy installations are also getting	
	less costly and more widely used. We need more public education about these	
	valuable ways to produce the energy we need in our homes, schools, and overall	
Residential Non-PIPP	communities.	Supportive
	With all of the turmoil overseas and oil dependence, it would be very benificial	
Residential Non-PIPP	for the United States to develop and use more renewable energy.	Supportive
	We have a moral imperative to develop such renewable resources, but it is also a	
Residential Non-PIPP	sensible and prudent strategy for economic and environmental reasons.	Supportive
Residential Non-PIPP	Work hard and fast.!!!!	Supportive
	Hope that this will be made a reality in the near future! Would be an important	
	and needed development for the near future and for our younger generations!	
	Thank you for your hard work and dedication to this project! Now to make it a	
Residential Non-PIPP	reality!	Supportive
Residential Non-PIPP	go wind	Supportive
Residential Non-PIPP	long overdue	Supportive
	I am a retired Ohio EPA employee. I believe any improvement in our	
Residential Non-PIPP	environmental resources is very important	Supportive

		<u> </u>
	I applaud you and believe it is imperative that our country use renewable, clean	
	energy. Ecuador is 100% renewable with hydroelectric, solar, and windOhio	[
Residential Non-PIPP	can, too. We have reached a climate crisis.	Supportive
Residential Non-PIPP	Thank you for recognizing that this is a VERY important issue.	Supportive
Residential Non-PIPP	Important to all to use our best resources in this matter.	Supportive
Residential Non-PIPP	as long as it does not include fracking	Supportive
The state of the s	In my opinion, pursueing renewable sources is not optional for AEP, it's one of	
Residential Non-PIPP	your responsibilities.	Supportive
Residential Non-PIPP	Good luck!	Supportive
Residential Non-PIPP	I would like to see more wind and solar power available in Ohio.	Supportive
	I think that the money saved on the current way things are done would offset	
	any cost related to creating renewable energy sources, so it is not only	
Residential Non-PIPP	environmental but economical.	Supportive
Residential Non-PIPP	Great Investment - Make it Happen!	Supportive
	Don't let current short sighted regulatory attitude blind you to long term	
	benefits of non-fossil fuel energy. A time will come where it will look ridiculous	
Residential Non-PIPP	and immoral.	Supportive
	The work of identifying and developing diverse energy sources is essential to the	
	health of our planet (air, soil, water) for all its inhabitants, and to lessen our	
	dependency on outside sources. Thank you for you continued efforts on this	
Residential Non-PIPP	research and your support of conservation and energy reduction.	Supportive
Residential Non-PIPP	Sooner = better	Supportíve
Residential Non-PIPP	Just do it, it's the right thing to do!	Supportive
	I am happy that AEP is moving into cleaner energy. I am using battery powered	
	chainsaws, string trimmers, tillers,, phones, and lights. Electricity is important for	
Residential Non-PIPP	charging batteries.	Supportive
	The renewable energy source must be viable for the location of the source. For	
Residential Non-PIPP	example, if solar is an option, we don't want to use it where there is minimal sun.	Supportive
Residential Non-PIPP	I am glad this is being looked into. Better for the environment and is sustainable	Supportive
	I live in Chillicothe Ohio. The prison here has lots of fields it stop using plenty of	
	room for solor or wind. Sure u can make a deal cheap or by bargaining for the	
Residential Non-PIPP	use of the land.	Supportive
Residential Non-PIPP	I completely support this AEP initiative.	Supportive
Residential Non-PIPP	Thank you for taking the next step!	Supportive
Residential Non-PIPP	Go for it!	Supportive
	Buy local is not just a slogan for the grocery store. Americans are looking at a lot	
Residential Non-PIPP	of their purchases and asking: what is made here?	Supportive
	I hope solar power will become an option for us as a consumer. I would like to	
Residential Non-PIPP	continue to reduce my carbon footprint.	Supportive
Residential Non-PIPP	Please continue to progress in this direction. We need to be a leader in this.	Supportive
	From a previous question, the phrase "better world for future generations"	
	sounds rather abstract and idealistic. It's also misleading. Realistically, a drastic	
	reduction in carbon now will, at best, maintain a relatively stable standard of	
	living for "future generations" of middle class americans. On the other hand,	
	continuing our current consumption of carbon based fuels will guarantee a	
	significantly lowered quality of life in as little as 20-30 years (so, this generation).	
	A 50% increase in renewables in the next 3-5 years is what I would recommend,	
	increasing from there to as close to 100% as we are able to achieve, as soon as	
Residential Non-PIPP	possible.	Supportive

	Pring On The Windmills and Solar Panelal Places Ohio and ACOI Together we can	T
Desidential New DIDD	Bring On The Windmills and Solar Panels! Please Ohio and AEP! Together we can	C am a min
Residential Non-PIPP	BETTER THIS WORLD! YES	Supportive
n	Just do it already. The tech is ready and will become cheaper as more companies	
Residential Non-PIPP	embrace it.	Supportive
Residential Non-PIPP	Love the idea of taking advantage of free wind and sun. We need to go green.	Supportive
Residential Non-PIPP	This effort is far overdue, but it you are truly going to do this then kudos.	Supportive
Residential Non-PiPP	I support your efforts! Let's make the world a better place!	Supportive
Residential Non-PIPP	Go For It. Seems like a good investment.	Supportive
	I fully support your efforts to increase the amount of renewable energy	
Residential Non-PIPP	generation.	Supportive
Residential Non-PIPP	Going green is important	Supportive
Residential Non-PIPP	I think it is great you are even thinking about!	Supportive
	I'm retired. I have no children. It is of the utmost importance to reverse the	
	effects of industrialization of the entire world. I was part of the early 80's	
	attempt by my industry (HVAC) attempt at solar and energy recycling.	
	Government incentives for a few years, then it was gone. 40+ years wasted.	
Residential Non-PIPP	What a shame.	Supportive
	I switched my electricity supply to the AEP renewable energy program. This took	\
	a good deal of research on my part. I think if there was a more clear and easy	
Residential Non-PIPP	way to do this, more people would follow suite.	Supportive
Residential Non-PIPP	Solar and wind	Supportive
	This is very important and needs to happen! Thank you for your interest in this	
	and for soliciting our feedback. Renewable energy just makes sense to anyone	
Residential Non-PIPP	with a brain.	Supportive
	I would like to know more about AEP's renewable resources. How much are you	
Residential Non-PIPP	dependent on nuclear energy?	Supportive
	Job creation is important also, but if you're creating jobs in other states because	
	Ohioans are not willing to allow wind farms, then I suggest you help people	
Residential Non-PIPP	understand that.	Supportive
Residential Non-PIPP	need to go faster	Supportive
	there needs to be more thought put to the science of wind , water , and	
Residential Non-PIPP	methane(waste decay)	Supportive
-	The sooner the better! Even if we need to pay a little more, this is an investment	
Residential Non-PIPP	that must be made.	Supportive
Residential Non-PIPP	Please get away from fossil fuels. They're killing the planet.	Supportive
	I urge you to support and encourage wind and solar development IN OHIO!!	
Residential Non-PIPP	Fight for it and don't be distracted by political bullies like Bill Seitz!	Supportive
Residential Non-PIPP	Please pursue renewable energy!	Supportive
Residential Non-PIPP	If it is better for the earth than I agree	Supportive
	Yes to wind and solar. No to biomass. Burning wood is not carbon neutral,	
	destroys forests and produces more co2 than coal for unit of energy produced	
Residential Non-PIPP	when used to produce electricity.	Supportive
Incardential Moll-Fill F	which assa to produce electroley.	Supportive
Residential Non-PIPP	I welcome AEP Ohio's proactive development of sustainable energy resources.	Supportive
Incoluential Month It's	I would like to see more windmills. I believe every new house that is built should	Supportive
Residential Non-PIPP	be required to have solar panels.	Supportive
nesidential Non-PIPP	Ine reduited to liave sold, ballets:	Supportive

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	I am glad to see AEP taking an interest in renewable energy. i hope AEP's	
	interest will translate to actual investment in renewable energy. I am willing to	
	pay more for renewable energy - it is essential we migrate our energy sources	
	away from fossil fuels to lessen impacts of climate change. It will take bold	
	leadership to do this since our economy is built around a financial system that	
	does not take into account the long term environmental costs associated with	
	fossil fuels. if the true cost of carbon pollution was considered, renewable	
	energy would be an obvious smart investment. government, corporations, and	
	individuals all need to start valuing the future as much as we do the present. as	
	President Johnson said "	
	if future generations are to remember us more with gratitude than with	
	sorrow, we must achieve more than just the miracles of technology. We must	1
	also leave them a glimpse of the world as God really made it, not just as it looked	
Residential Non-PIPP	when we got through with it".	Supportive
residential Non-Firm	We have to reduce our reliance on fossil fuels like coal in order to pave the way	Supportive
	for a better future for our families. Thank you for looking at these alternative	
Residential Non-PIPP	sources of energy to support our future.	Supportive
residential (Vol)-1111	U.S is so far behind many other countries and really needs to increase use of	эаррогис
  Residential Non-PIPP	renewable energy sources	Supportive
THE SIGNATURE OF THE SI	Terremone Chergy Sources	Заррание
	AEP should provide Time of Day (TOD) billing options to consumers and make a	
	supersaver time slot after 11PM. This will it make more likely for consumers to	
Residential Non-PIPP	purchase electrical vehicles that will further improve our environment	Supportive
THE STATE OF THE S	Please continue to move away from non-renewable (coal, gas fired, etc.) and	Jupporture
	destructive (hydropower) sources toward renewable, low impact sources like	
Residential Non-PIPP	solar and wind.	Supportive
	Please keep growing this program. I will continue to purchase 100% renewable	
	energy as long as it is offered. I would like to see more renewables developed in	
	Ohio, but for now, any growth of renewable energy is a good step towards a	
Residential Non-PIPP	sustainable future.	Supportive
Residential Non-PIPP	Important priority for Ohio and AEP	Supportive
	Global warming is a major issue and I like the fact that AEP is going to continue	
	to do its best to help clean up our air and slow down the greenhouse effect by	
Residential Non-PIPP	using renewable energies.	Supportive
Residential Non-PIPP	Great, thanks for pursuing this goal.	Supportive
Residential Non-PIPP	Only future for us	Supportive
	This is fantastic!! Do the right thing and make the push for renewable energy!	
Residential Non-PIPP		Supportive
	I think it's great, this is the future.	
Residential Non-PIPP		Supportive
Residential Non-PIPP	I would be willing to pay more for cleaner energy.	Supportive
Residential Non-PIPP	Important way to go	Supportive
	I believe AEP should pursue renewable energy in Ohio as aggressively as	
Residential Non-PIPP	possible. Wind and Solar is not only the present but the future as well!!	Supportive
Residential Non-PIPP	It is inexcusable that we are lacking in this arena of the future by so much!	Supportive
Residential Non-PIPP	Thank you for being proactive!	Supportive
Residential Non-PIPP	TWENTY YEARS AGO WAS THE TIME TO DO THIS.	Supportive

	Set an example for other states and educate Ohio residents about how	
	important switching to renewble energy is! Gas and oil should be a thing of the	
Residential Non-PIPP	past after learning about the consequences of burning them!	Supportive
	Renewable energy sources are becoming so cheap, you can either agressively	
	pursue them or your current customers will do so on their own and your	
Residential Non-PIPP	company will be deader than the dinosaurs	Supportive
	I think it would be a wise investment, to be explored. It seems to be the way of	
	the future.And, it would be the most inexpensive way to provide for our	
Residential Non-PIPP	electricity needs for now and in the future	Supportive
	So many choices in this state for renewal energy. Wind up north, rivers all	
	throughout the states, Lake Erie and the amount of sun in the summer. More	
	jobs hiring the engineers, construction workers, people to upkeep the	İ
Residential Non-PIPP	structures, etc. It will be a great investment if time is given for it.	Supportive
	Please create a large solar array in Athens County or in one of the counties near	
Residential Non-PIPP	us in Southeast Ohio.	Supportive
Residential Non-PIPP	I think it's a great idea.	Supportive
Residential Non-PIPP	I hope this is something that AEP is seriously looking into doing.	Supportive
Residential Non-PIPP	What's taking you so long?	Supportive
	I am extremely supportive of increasing renewable energy generation. I believe	
	AEP should attempt to increase the percentage of energy generated from	
Residential Non-PIPP	renewable sources every single year in the future.	Supportive
	AEP should get the current weak politicians we have in Ohio to change the	
Residential Non-PIPP	setbacks so we can reap the benefits of wind, particularly in Van Wert County!!	Supportive
	We all know that a cleaner world is a better place for us all ! The future depends	
Residential Non-PIPP	on what we care about now !	Supportive
	Are we too late to the game? AEP has a moral responsibility to promote	
	environmentally sound policies here in Ohio and in DC. I don't believe AEP and	
Residential Non-PIPP	other utility companies are acting at all responsibly on this issue.	Supportive
residential (1017) II I	Renewable energy, i.e. wind and solar, is a win-win. Even better would be to	- Supporting
	bring some of the technology to SE Ohio to help coal miners transition into new	
Residential Non-PIPP	skills and jobs.	Supportive
Trestaction trott in i	This is exciting news. I have recently switched all of my home gardening tools	
	((lawn mower, trimmer, blower and chain saw) to lithium ion battery power. I	
	think electricity from diversified renewable sources is the future of power for	
	most things we use on a daily basis. Please increase AEP's renewable generation	
Residential Non-PIPP	capacity.	Supportive
	There is no excuse to continue the expansion of fossil fuel extraction. It's time	
	to phase out oil coal and natural gas that are non-renewable and devastating to	
Residential Non-PIPP	our health and environment.	Supportive
Residential Non-PIPP	Innovation is important and appreciated	Supportive
Residential Non-PIPP	Yesl	Supportive
	I lived in several countries in Europe, and some of them are leading the way	
	when it comes to renewable energy. It is very positive to hear that AEP Ohio	
	would increase their investment in wind and solar, as the benefits for the	
	community, the environment and future generations will show that you are a	
Residential Non-PIPP	very progressive company.	Supportive
	it's time to act responsibly- stop telling the Trump lie of "clean coal". Trump's	
	agenda of destroying environmental regulations in favor or petroleum based	
	businesses will leave our generation accountable for the wastelands we leave	
Residential Non-PIPP	future generations.	Supportive

	<del></del>	
Residential Non-PIPP	It is my highest priorities when selecting who will provide my electricity.	Supportive
	Very exciting news! A move towards renewables will make us more competitive	
Residential Non-PIPP	in the world.	Supportive
	Fossil fuels are coming to the end of their usefulness. Clean renewable energy is	
Residential Non-PIPP	well worth the investment.	Supportive
	I certainly don't understand all of the science behind it, but I think it is extremely	
	important to move towards renewable energy sources. I feel it would lead to job	
	creation at a greater rate than our traditional means of energy could, and it will	
Residential Non-PIPP	certainly help improve the environmental quality over time.	Supportive
Residential Non-PIPP	We welcome this initiative and will support as a customer	Supportive
	You should supply and provide us with the option to have solar power and allow	
	us to back feed to AEP reducing or eliminating some peoples electric bill and also	
	allowing some people to store it could also be another option to offset cost in	
	both directions, thanks [DELETED DUE TO PERSONAL IDENTIFIABLE	
Residential Non-PIPP	INFORMATION]	Supportive
Residential Non-PIPP	We need to make sure generations to come have a good quality of air	Supportive
Residential Non-PIPP	I fully support development, keep up the good work!	Supportive
		·
Residential Non-PIPP	Would like to see AEP increase its renewable energy generation very soon!	Supportive
Residential Non-PIPP	I think this is a great.	Supportive
	I am from upstate New York, and the only thing that I do not like about Ohio is	
Residential Non-PIPP	the fracking that is going on here.	Supportive
Residential Non-PIPP	I like solar and wind as energy sources.	Supportive
	Build a small demonstration site in Columbus so school kids and adults can see	
Residential Non-PIPP	how it works.	Supportive
	If there is a way to localize jobs in southeast Ohio, I think that could save more	
	lives than you realize. / / We could also draw resources from local vendors as	
	well; I know there are several kickstarters within Athens Rural Action that are	
Residential Non-PIPP	exploring environmental sustainability.	Supportive
	We in Ohio need to be leaders in renewable energy production. Europe and	
	Canada have far more wind turbine installations than we do. Surely we can do	
	better provide local good paying jobs in clean renewable energy and protect	
Residential Non-PIPP	our environment and our health.	Supportive
	I think this is a very important issue. I have actually opted for a more expensive	
<u>-</u>	electricity provider (through the Choice program) because they used renewable	
Residential Non-PIPP	energy.	Supportive
	Thank you for the opportunity to comment. AEP's interest in renewable energy is	
	promising, and I hope to see commitment and results in much greater	
	generation and use of renewables. As a consumer who is aware of and	
n il illi pipp	concerned about my own energy consumption and use of resources, I applaud	
Residential Non-PIPP	you for taking steps toward more sustainable, renewable energy generation.	Supportive
Residential Non-PIPP	Retire all coal burning power plants.	Supportive
Desidential Non-BIDD	I consider it very important that AEP pursue renewable energy options	Cumpartiva
Residential Non-PIPP	aggressively.	Supportive
Residential Non-PIPP	Move faster!	Supportive
Desidential New DICC	there should be an incentive to allow for renewable energy generation to occur	Cummantina
Residential Non-PIPP	including installation and ease the red tape	Supportive
Besidential Non-DICO	Support renewable energy through advocating for tax rebates and other	Supportivo
Residential Non-PIPP	incentives as other states like Massachusetts has done!	Supportive

	Please develop renewable energy. I would love to see AEP use only renewable	
	energy. It's crazy we're only at 4.5% now. Any assistance you can provide for	
	your customers to create renewable energy from solar and wind would be	Ì
Residential Non-PIPP	welcomed also.	Supportive
Residential Non-PIPP	We need to improve our air quality.	Supportive
icsideficial Notificial	The future is something that factors heavily into my choices, and I much prefer	- Capportive
	energy options that will work out better for us in the long run, like wind and	
Residential Non-PIPP	solar.	Supportive
residential Mon-Firs	Please make this something you take seriously! We only have one planet, and	Supportive
	we need to take better care of it by getting away from fossil fuels. Plus if you	:
	create solar panels, wind turbines, or hydro plants, it creates jobs, giving you	
Residential Non-PIPP	great optics.	Supportive
residential Non-FIFF	great optics.	Supportive
	I believe that it is very important that big companies do as much as they can to	
	make as little impact on the world as possible while also trying help rectify the	
	problems they have already caused, so AEP Ohio increasing their use of	
Residential Non-PIPP	renewable energy is a big step in the right direction.	Supportive
Residential Non-PIPP	It is an extraordinarily important endeavor!	Supportive
Residential Non-PIPP	Use what we can reuse.	Supportive
Residential Non-PIPP	Make it happen!	Supportive
residential NON-FIFF	I think all of the reasons you listed for what is important for using alternative	Supportive
Residential Non-PIPP	energy sources in very important but I could only select 3.	Supportive
residential Non-FIFF	I just feel it could only bring positive results in an ever-changing world. Let's not	
•	<b>1</b>	
nest least at the minn	sit back and think someone else will help change the world for the better, let's be	
Residential Non-PIPP	a part of making that change!	Supportive
Residential Non-PIPP	Invest in more solar/wind energy options!	Supportive
Residential Non-PIPP	Good to see this initiative in progress. Thank you!	Supportive
Residential Non-PIPP	Providing renewable energy options should be a top priority	Supportive
Residential Non-PIPP	Please add more renewable energy!	Supportive
D 11 11 12 DIDO	Bring on the Windmills! And Solar Panels! Let's just do this USA! All together	
Residential Non-PIPP	now!	Supportive
Residential Non-PIPP	Better for our world and our kids! Do it!	Supportive
	This is super important. Our over-reliance on fossil fuels is setting ourselves up	
	for failure in the future. Do not, I repeat DO NOT find yourself swayed by lies	
	from the President and his trash EPA. Coal is a dead energy source. It's high time	\
	instead of relying on burning trash to make the lights go on that we find and	
	utilize better resources that will not disappear from the planet (sun, wind,	
Residential Non-PIPP		Supportive
Residential Non-PIPP	Just do it. Invest on it.	Supportive
	Please encourage Ohio lawmakers to reverse the changes made to wind setback	
Residential Non-PIPP	requirements.	Supportive
	AEP must lead on this issue and create renewable energy production in Ohio	l
Residential Non-PIPP	with Ohio workers.	Supportive
Residential Non-PIPP	When do you start?	Supportive
	I hope renewable energy is high on AEP's priority list. This is too important to	
Residential Non-PIPP	delay.	Supportive
	Do more more marketing more reconfiguring of energy sources. Lead on this	
Residential Non-PIPP	issue	Supportive
	I think that it is important that AEP continue to increase the amount of energy	
Residential Non-PIPP	produced from renewable sources.	Supportive
Residential Non-PIPP	I'm ready for solar and wind!! Bring it to my house.	Supportive
Residential Non-PIPP	I'm ready for solar and wind!! Bring it to my house.  Renewable energy could help create jobs, lessen electric bills and create	Supportive

	I build calling to find out the angular and a gray and a support of the	1
Residential Non-PIPP	I tried calling to find out where my energy comes from and no one could tell me. I demand renewable and safe energy	Supportive
Residential Non-PIPP	Please do this sooner than later.	Supportive
Trestactive Test	Renewable energy is paramount to our continued existence and should be done	000000000
Residential Non-PIPP	safely and ethically with the community AEP serves in mind.	Supportive
Residential Non-PIPP	I am happy to hear this is being considered.	Supportive
Residential Non-PIPP	Less dependence on coal would benefit the environment.	Supportive
	This is an extremely important issue. I feel we must start investing in as much	
Residential Non-PIPP	renewable energy as possible	Supportive
· · · · · · · · · · · · · · · · · · ·	0, 1	
	This is great!! I hope Ohio puts some real investments into renewavle energy.	
	The more we solar and wind power we can create, the better. When I'm able to	
Residential Non-PIPP	purchase a house I'm planning on investing in solar immediately.	Supportive
Residential Non-PIPP	Love to see more wind turbines.	Supportive
	Why now and not 20 years ago and why are electric apartments so expensive,	
	more than my home was. The cost of electricity is just too high. Will have to	
Residential Non-PIPP	move because all electric is too expensive to live in.	Supportive
	A much greater emphasis must be placed on the development of renewable	
	energy sources in Ohio and nationwide. Sending out this survey is a good step	
	toward obtaining feedback from AEP customers on the importance of renewable	
Residential Non-PIPP	energy.	Supportive
Residential Non-PIPP	Use as much renewable as possible!!	Supportive
Residential Non-PIPP	I would like to see AEP develop their own assets instead of simply sign PPAs	Supportive
	Every possible opportunity that arises where solar power is a viable source of	
Residential Non-PIPP	energy, it should be utilized	Supportive
	It is sad how little of our energy is generated through renewable energy and I	
Residential Non-PIPP	hope there is an urgency to change that.	Supportive
Residential Non-PIPP	Wind energy has been shown to help farmers crops	Supportive
	The sooner the better. / A question: / Ohio used to grow corn; can corn be used	
Residential Non-PIPP	to make fuel?	Supportive
	they do a great job . keep up the good works . [DELETED DUE TO PERSONAL	
Residential Non-PIPP	IDENTIFIABLE INFORMATION)	Supportive
	I think that it is an important long term strategy for the energy sector to find and	
	develope long term sustainable solutions for energy production. Thank you for	
Residential Non-PIPP	looking into this.	Supportive
<u> </u>		
Residential Non-PIPP	I am disappointed that the current useage of renewable energy is so low.	Supportive
	I would like to have information on incentives for renewable energy farms. Are	
	there business opportunities for people who own land to install a renewable	
Residential Non-PIPP	energy farm on their land?	Supportive
Residential Non-PIPP	This is a good idea	Supportive
Residential Non-PIPP	It's about time. Get on with it.	Supportive
	Please support home owners who are investing in renewable energy, too. It will	
	be a group effort to make this really work well for everyone. AEP needs to be act	
	as a community member, not just a profit making business for shareholders.	
	Collaborative effort will get us all further along in making Ohio a great place to	
Residential Non-PIPP	live for generations.	Supportive
	It is very important that AEP move forward with increasing their use of	
Residential Non-PIPP	renewable energy technology.	Supportive
Residential Non-PIPP	Not aware of what AEP is currently doing WRT renewable energy generation	Supportive
Residential Non-PIPP	i think it is extremely important that you take this step forward	Supportive
	Considerations for the future of the planet are to be commended. The bottom	
Residential Non-PIPP	line is a matter of perspective.	Supportive
	<u> </u>	<u> </u>

Residential Non-PIPP	It's all about the environment! We need to take care of it now!	Supportive
Residential Non-PIPP	It was great to find 100% wind energy available at a reasonable cost.	Supportive
Residential Non-PIPP	would like to see you develop and use solar energy produced in Ohio.	Supportive
Mesidelitiai (4011-FIFF	reduce fossil fuel energy generation as soon as possible. The USA is way behind	Supportive
Residential Non-PIPP	other countries.	Supportive
Residential Non-FIFF	More renewable energy is a great idea and a wonderful step in the right	Supportive
Residential Non-PIPP	direction.	Supportivo
Residential Non-PIPP	State by state generation would help stabilize the grid in the event of a natural	Supportive
Docidontial Non DIDD	disaster such as storms damaging transmission lines.	Cupportius
Residential Non-PIPP		Supportive
Residential Non-PIPP	Please keep pursuing this important initiative!  It's time for a change for the better. And thank you for doing so.	Supportive
Residential Non-PIPP	If given the chance, I would prefer 100pct of my energy to be from wind or solar.	Supportive
	1 4	
Desidential New DIDD	I would install solar but do not want to feed a grid that supports fossil fuels. They	ľ
Residential Non-PIPP	are the past. Let's move to the future	Supportive
Residential Non-PIPP	Do your best	Supportive
Destricted Non-Dipp	I see wind energy being highly utilized in other states and hope Ohio does so	Cumma mis
Residential Non-PIPP	also.	Supportive
	I have contacted several companies in the past about leasing our property for	
	wind or solar. We own 187 acres in Piketon Ohio. It is all in direct sun all day	
	long. We would be interested in someone looking at our property to see if it	
Residential Non-PIPP	would qualify for this program.	Supportive
	Given the improvements in solar cells and wind turbines much happier seeing	
Residential Non-PIPP	that increasing than the use of coal plants.	Supportive
	It's a fantastic way of thinking towards reducing the emissions & a big step	
Residential Non-PIPP	towards reducing global warming.	Supportive
	The best technology should be used. Stop using old energy techniques when	
	there is more efficient ways of producing energy. Less focus on making money	
Residential Non-PIPP	and more focus on Implementing small carbon footprint sustainable energy	Supportive
	This administration is reversing all of Obama's policies and its bad for our planet	
Residential Non-PIPP	and future generations.	Supportive
	Own a solar array on our home's roof. While that satisfies me and my personal	
	commitment - agree that the efficiencies of a community array make more sense	
	in the bigger view. Applaud AEP's efforts to support wind and solar, especially	
Residential Non-PIPP	within their regional markets.	Supportive
	Increased use of wind and solar power is critically important for our environment	1
Residential Non-PIPP	for our future!	Supportive
	Will appreciate any efforts to getting us less dependent on coal and gas. Thank	
Residential Non-PIPP	you!	Supportive
	Use of wind generators makes sense like those in Illinois and Iowa. Ugly, but	
Residential Non-PIPP	effective.	Supportive
	Anything's better than you messing up my driveway and lawn with your trucks	
Residential Non-PIPP	then refusing the fix any of it.	Supportive
	Moving to renewable energy will help us and AEP in the long run. This is a great	
Residential Non-PIPP	move by AEP and you will reap benefits down the road.	Supportive
Residential Non-PIPP	renewable energy is the only sustainable option!	Supportive
	I am still an AEP customer but also switched to Arcadia Power so some of my	
Residential Non-PIPP	electricity would be coming from renewable souses.	Supportive

	Despite the recent Trump administration roll backs on coal fired power plant	
	lemissions, we need to advance the scientific and engineering approaches to	
,	electric power generation and transmission. Solar, wind, and geothermal options	
	would work in our region and there will be investment in that. AEP also needs to	
	ensure the power grid is secure. Significant updates are lagging. I have a new	
	<u>-</u>	
	smart meter installed yesterday on my home yet the transmission lines are faulty	
	and we lose power at least once a month during storms. Buried power lines make the most sense; new communities seek this but our older communities	
Residential Non-PIPP	· ·	Cumportivo
Residential Non-PIPP	need this stability as well.  I applaud you for taking the energy situation seriouslyif Saudia Arabia is	Supportive
Residential Non-PIPP	diversifying then, well, it should give us pause for thought!!	Supportive
Residential Holl-Fiff	I like the vision of progressing towards renewable energy. I support that idea	Supportive
Residential Non-PIPP	Ifully	Supportive
Nesidential Non-FIFF	Hydrocarbon based fuels are finite and have adverse environmental effects. I	Jupportive
	think it is very important to transition away from hydrocarbon based energy	
Residential Non-PIPP	sources as quickly as possible.	Supportive
Residential Non-PIPP	Clean renewable that will eventually lower costs	Supportive
Residential Non-PIPP	I am thrilled that you are developing renewable energy, especially in light of our	Supportive
Residential Non-PIPP		Supportivo
Residential Non-PIPP	current administration. Thank you.	Supportive
	Always keep trying to increase renewable usage!	Supportive
Residential Non-PIPP	Do it	Supportive
Residential Non-PIPP	Applaud AEP Ohio's efforts in this regard.	Supportive
	I shirt the the control of the contr	
Desidential Na DIDD	I think it would be great to see more wind turbines and Ohio to relax the setback	C
Residential Non-PIPP	regulations which are way too extreme versus neighboring states.	Supportive
D1-1	It is important that our utility companies reduce their dependency on fossil fuels	C
Residential Non-PIPP	and switch to renewable energy sources.	Supportive
	venezuetle is seine to hannen. Ohio needs to be a next of it mouthe a leader	
Residential Non-PIPP	renewable is going to happen, Ohio needs to be a part of it, maybe a leader.	Cumportino
Residential Non-PIPP	Good for Ohio's future, employment, finances, etc., helps fix global warming. /	Supportive
	Discontinuent and land. The community and adjust and will appropriate about on	
	Please invest and lead. The community can adjust and will support the changes.	
Desidential New DIDD	We need and appreciate your help and leadership. If you don't move forward	C
Residential Non-PIPP	now the next generation if useers will happily leave your company behind.	Supportive
Posidontial No DIDD	Thanks for considering renewable energy. Hope to see more investment in this	Cummontivo
Residential Non-PIPP	resource in the future.	Supportive
Desidential No. DIDD	I think Ohio invested, built, and operated renewable energy resources should	C
Residential Non-PIPP	benefit all ohioans	Supportive
Residential Non-PIPP	Windmill in my yard would work for me	Supportive
Desidential National	This is a critical issue. Please continue your efforts despite political influences	C
Residential Non-PIPP	and greed.	Supportive
Residential Non-PIPP	The more renewable energy the better!	Supportive
0 11 11 11	Don't think you're doing enough. Stop focusing on shareholders and focus on	
Residential Non-PIPP	your work	Supportive
	I believe it is an awesome idea to use different means for energy such as solar	
	wind and the use of water to generate electricity furthermore I believe we	
	should take care of our state to develop more jobs not outsourced anyting and I	
	believe each state should do the same and we do it as a country everybody	
	works together but within their state trade-ideas want not things like that but to	
	produce jobs cleaner energy for future Generations is an awesome idea thank	ļ
Residential Non-PIPP	you	Supportive
	Please pursue these initiatives. Clean air and diversification of sources are	
Residential Non-PIPP	critical.	Supportive
Residential Non-PIPP	Global Warming is not a Joke! We need renewable energy!	Supportive

		I
	It is so important for many reasons! I would love to see jobs created in Ohio or at	
Residential Non-PIPP	least nearby. But we have to make a better future by investing.	Supportive
Residential Non-PIPP	Please explore renewable energy sources for the future well being of this earth.	Supportive
	It must be done to improve air quality and reduce many bours are emissions and	
Residential Non-PIPP	It must be done to improve air quality and reduce greenhouse gas emissions and try to turn around climate change even though we're 40 years too late for that.	Commontion
Residential Non-PIPP	Customers weren't asked if they wanted coal so why ask if they want	Supportive
Residential Non-PIPP	renewables? It makes sense so just do it.	Supportive
1,00	The state of the s	эаррогиче
Residential Non-PIPP	Become involved in the sale and distribution of solar panels, wind turbines etc.	Supportive
	Being responsible to future generations by producing renewable energy is	
Residential Non-PIPP	important to our current generation.	Supportive
	Coal is dead. Solar and wind farms need to be your focus as an corporation going	
Residential Non-PIPP	forward.	Supportive
Residential Non-PIPP	All of the listed benefits are important.	Supportive
Residential Non-PIPP	Don't give up!	Supportive
	Thank you, AEP, for moving in the direction of renewable energy. It is good for	
Residential Non-PIPP	the planet and good for the job market.	Supportive
Residential Non-PIPP	Just do it!	Supportive
Residential Non-PIPP	I think it is a great idea!	Supportive
Residential Non-PIPP	do maro, and he mare friendly to those of us that have veetten color units	Cummontina
Residential Non-PIPP	do more, and be more friendly to those of us that have roottop solar units.  I was in AEP green energy generation option but it was canceled.	Supportive Supportive
Kezidelitiai Noll-FIFF	Mitigation of climate change is critical. Solar and wind provide economic	Supportive
	opportunities and practical approaches to the reduction of greenhouse gas and	
	pollutant emissions. Either we will be part of the solution or part of the	
	problem. Let's train our workforce to be part of the solution, so that we can all	
Residential Non-PIPP	enjoy the benefits.	Supportive
	There is no doubt that solar and other renewable energy sources are the future	
Residential Non-PIPP	and we need these sources developed as soon as possible.	Supportive
Residential Non-PIPP	Do it!	Supportive
_	I applaud AEP Ohio for their initiatives to include renewable energy sources in	
Residential Non-PIPP	their offering. It shows great stewardship and forward thinking.	Supportive
Residential Non-PIPP	l applaud your intentions!	Supportive
Residential Non-PIPP	Get to work to much talk not enough work.	Supportive
Residential Non-PIPP	Aim for 100% solar / wind energy like Hawaii	Supportive
Residential Non-PIPP	Please! Wind and solar would be so progressive and appreciated.	Supportive
Residential Non-PIPP	Pursue renewable energy in an efficient manner, not a politically correct one	Mixed
(163) delited (16) 1 11 1	If we do start renewable energy I would prefer if it was done without affecting	Wilked
	my bill. I would not be okay if this project was started and the cost to use electric	
Residential Non-PIPP	went up.	Mixed
	If customers were able to participate, I'm sure many of us would allow solar	
Residential Non-PIPP	panels on our homes!	Mixed
	Why not work with home owners to have them install solar panels to help offset	
	the current energy generation? There are many square miles of roof top that	
Residential Non-PIPP	would be prime for this investment.	Mixed
	Renewable energy is great, if it's economically feasible at this time. Don't	
	underwrite its cost. When the time is right, it will become an option that fits into	
Residential Non-PIPP		Mixed
	Would like to see AEP support Ohio energy credits for homeowners who choose	
Residential Non-PIPP	to install renewable energy for their homes	Mixed

	Generation should be on the lowest cost basis. AEP should lobby the	
	government to remove incentives for all types of generation and allow the	
Residential Non-PIPP	market to choose.	Mixed
Residential Non-FIFF	indiket to choose.	Wikeu
	Overall environmental impact is probably the most important thing, moreso than	
	focusing on renewable energies. So the impact of solar panel, battery, and	
Residential Non-PIPP	turbine creation, and how that compares to current methods.	Mixed
Nesidential Notifit is	turbine deadon, and now that compares to current methods	THING O
	Since such investments are highly sensitive to advances in technology, strong	
Residential Non-PIPP	consideration should be given towards leasing equipment over owning it.	Mixed
residential from 1 ii t	consideration should be given covariant reading equipment of a state of the state o	
Residential Non-PIPP	the all in cost over time must be cheaper than standard market portfolio offering	Mixed
	I have read about programs with other electric utilities about "virtual" power	
	plants fueled by home batteries. I would love to have a similar program here in	
	conjunction with something like a Tesla PowerWall battery system. If there were	
	such a system and any incentives, I think it could help offset the only negative	
Residential Non-PIPP	qualities of renewable energy.	Mixed
	As long as it doesn't add cost to my bill, I'm all for it. There needs to be a balance	
	sheet for jobs added in renewable to jobs lost in coal. Everyone needs to know	
Residential Non-PIPP	the toll, whether good or bad.	Mixed
	Offer to build solar on people homes to help with energy production.residential	
	roof space offers an substanial square footage with no additional impact to green	
	space or land aquistion. It will also instill pride in those who accept, by allowing	
Residential Non-PIPP	those want to help tje opportunity with zero to minimal personal expense.	Mixed
	If we get more help with solar roofs and rebates to promote such investments,	
Residential Non-PIPP	that would help	Mixed
Residential Non-PIPP	Need incentives for homeowners to install Panels	Mixed
	Least cost resources should continue to be the goal. Customer choice of rooftop	
	should be facilitated but not harm other captive customers or in other words no	
Residential Non-PIPP	subsidies. Rates should reflect costs of services.	Mixed
	Rebates should be offered to homeowners who add renewable energy sources	
Residential Non-PIPP	to their personal residences.	Mixed
:	As a customer I want the least cost generation for my service. Unless wind/solar	
	projects and or purchase agreements can provide energy at a cost comparable or	
Residential Non-PIPP	cheaper than current market prices then I'm not interested it in.	Mixed
	I would like to see the use of more residential wind/solar electricity generation	
	technology to supplement electricity from the grid. Homes should be more	
Residential Non-PIPP	freestanding with regard to the power they utilize.	Mixed
	I assume there will still be a cost assocaited with distributing renewable energy. I	
	would expect that it would be cheaper if it was produced within the state in	
Residential Non-PIPP	which we live. I would like more information about this.	Mixed
Residential Non-PIPP	Solar farms before wind farms	Mixed
	AEP's support for the installation of solar systems on individual or group	
Residential Non-PIPP	residences would be deeply appreciated.	Mixed
Residential Non-PIPP	Offer programs to help get solar on the roofs of homes.	Mixed
Residential Non-PIPP	Whatever investments should be cost effective.	Mixed
	I would accept a modest increase (< 10%) in my energy bill for more	
Residential Non-PIPP	renewable energy, but not a huge one.	Mixed
		1
	Please stop. The windmills are ugly, they kill birds and bats, and they are a giant	
	waste of money (literally). If you have to use renewables, then give more credits	
Residential Non-PIPP	for homeowners to purchase their own solar panels.	Mixed

	It is important but if it is significantly more expensive than the current service it	
Residential Non-PIPP	might not be worth it for customers	  Mixed
Residential Non-Fire	You should offer to put solar panels on all houses and buildings you service. OR	MIXEG
	at least hugely discounted solar panels.	
	at least hugery discounted solar patiers.	
	Also, AEP should consider offering residential customers a discounted rate for	Į
	running appliances during off-peak hours. (EX. Running a dishwasher or clothes	
Posidontial Non DIDD	dryer between midnight and 5am.)	Missad
Residential Non-PIPP	This should not be at the expense of customers.	Mixed
Residential Non-PIPP	I don't think aep really cares about renewable energy. You want to surcharge	Mixed
	people that are doing their part for the environment now (with solar or wind	
Residential Non-PIPP	power) a surcharge.	Mixed
Residential Non-PIPP	We have been talking about getting solar panels installed on our house, even if it	
	costs us a large amount of money out of pocket up front, it is worth it for our	
Residential Non-PIPP	future.	Mixed
Residential Non-FIFF	I'm okay with it as long as it doesn't increase my costs. The cost to implement	IVIIXEU
Residential Non-PIPP	this should not be passed down to the customer.	Mixed
Nesidelliai MOII-PIPP	More attractive subsidies and tax incentives for residents investing in solar	IVIACU
Residential Non-PIPP	energy products.	Mixed
nesidendal Non-PIPP	I wish we had local assistance on planning for installing solar panels. AEP could	IAIIVER
Residential Non-PIPP	charge and help provide the materials perhaps?	Mixed
Residential Non-PIPP	charge and help provide the materials perhaps:	Mixeu
	Be smart and think about the unintended consequences. Wind turbines kill birds,	
	have been shown to have serious health consequences for those living near	1
	them and lower property values for home owners near them. Don't just cave	
	to Progressives and do something stupid just to be trendy. Solar and	
Residential Non-PIPP		Mixed
Residential Non-PIPP	hydroelectric make much more sense than wind. Do your due diligence.	iviixed
	I would think that there would also be an ultimate decline in prices (after initial	
Residential Non-PIPP	investments), and I hope that AEP passes the savings on to its customers	Mixed
Residential Non-PIPP	investments), and thope that ALF passes the savings on to its customers	Mixed
	Energy in general is far too expensive. Even with that being said, I would be	
	willing to pay a renewable energy tax each month if I was assured my energy was	
	generated by renewable means which would then include a tax rebate on my	
Residential Non-PIPP	income taxes. I wouldna€™t want to pay more than 5%, however.	Mixed
Nesidellia Noll-FIFF	If this will keep the cost of electricity the same or lower I am all for change. If not	· · · · · · · · · · · · · · · · · · ·
Residential Non-PIPP	then no.	Mixed
Nesidelitiai Noll-PIPP	I don't know if AEP already offers this, but information on how customers can	IVIIXEQ
	safely provide energy back to the grid via their own renewable installation would	
Residential Non-PIPP	be helpful.	Mixed
Residential Non-PIPP	You pay for the solar, panels I'll have them installed on my roof!	Mixed
Residential Non-PIPP	I would be interested in solar panels if they were more affordable	Mixed
Nesideliciai Noii-FIFF	I would be interested in solar patiers it they were more anordable	Wilkeu
	While I agree with exploring renewable energy sources, I do not agree with wind	
	being used. My reason is because it takes more energy to manufacture wind	
Residential Non-PIPP	turbines than what they will output during their life of service.	Mixed
Residential Non-PIPP	I prefer solar over wind	Mixed
nesidential Non-PIPP	I would like to see incentives placed on Home energy solar systems to help	IVIIXEU
Residential Non-PIPP	reduce demand on the grid.	Mixed
Nesidential Non-PIPP	Maximize Hydro-Electric.	IVIIXEU
	Solar & Wind.	]
Residential Non-PIPP		Miyod
NESIDEITUAI NON-PIPP	DO NOT pass investment costs to consumer.	Mixed

-	all a control of the second of	
	Allow customers an "affordable way‮o tap in to this area. Infrastructure is	
	too expensive for the average home owner to put in their own wind and solar.	
	Give credits (government or private) to loyal customers to be able to invest in	
	there own infrastructure to sell back to the power grid and provide for other	
Residential Non-PIPP	customers as a group, especially in rural areas.	Mixed
Residential Non-PIPP	AEP should advise consumers on best ways to add solar power oe wind power	Mixed
	Need to address intermitant availability and the negative imact to reliability	
Residential Non-PIPP	posed by inverter based resources.	Mixed
	Would be good to encourage homeowners to have systems that supply back to	
Residential Non-PIPP	the grid.	Mixed
Residential Non-PIPP	Hydroelectric power is also a renewable energy source	Mixed
	I wish you would do something These bills are crazy and should not be this	
o	muchLast yr my bill in winter was sometimes \$1,500 a month that's crazy I am	
Residential Non-PIPP	going solar next summer so I don't have to deal with these kinds of bills.	Mixed
Desidential N State	I have solar. Its a shame I was prevented from having a bigger array due to	A Atropad
Residential Non-PIPP	potential categorization as a generation site.	Mixed
Residential Non-PIPP	Help consumers with doing their own renewable energy capabilities and supply	Mixed
	, and the second	
	I would let you put solar panels in my roof if it wasn't costly to me. I would	
Residential Non-PIPP	expect the wind and solar energy to help keep prices at a reasonable rate	Mixed
	I am opposed to this matter if my costs will increase. It would be good to have	
	alternative and back up utilities but not at increased pricing. Obama had said our	
	prices would significantly increase and he invested heavily into solar and wind	
Residential Non-PIPP	with little benefit.	Mixed
· · · · · · · · · · · · · · · · · · ·	Be very careful re environmental impacts. Renewable dose not always mean	
Residential Non-PIPP	greener and cleaner.	Mixed
	I still believe the focus should be on producing low cost generation, regardless of	
Residential Non-PIPP	fuel type.	Mixed
Residential Non-PIPP	No objection as long as it doesn't increase the cost.	Mixed
	Make solar sources AFFORDABLE to homeowners. Allow us to HELP produce this	
	energy. Stop the greed. Focus on what is important LONG TERM FOR ALL	
Residential Non-PIPP	CITIZENS OF OHIO AND THIS EARTH!!	Mixed
	Allow Ohio residents to sell back solar energy created at home, by providing at	
Residential Non-PIPP	least Net Zero metering.	Mixed
	Renewable investments need keep in mind relability and costs, no renewable	1
Residential Non-PIPP	energy if there are lower cost alternatives.	Mixed
Residential Non-PIPP	are you exploring other potential sources outside of solar and wind?	Mixed
	Renewable energy approaches are expensive and have a greater impact on the	
•	environment than coal or gas. But if you chose to use renewable energy	
Residential Non-PIPP	platforms they should be from Ohio employing ohio workers.	Mixed
Residential Non-PIPP	Only if it is cheaper than other energy sources.	Mixed
	Better Rebate on Solar installation at home and remainder energy can be sent to	
Residential Non-PIPP	the grid for free,	Mixed
	I don't want to see a big price increase to pay for it. Take some of your profits	
Residential Non-PIPP	and do it.	Mixed
	Why not provide a large subsidy to homeowners who want to put solar on the	
Residential Non-PIPP	residence. Solar is still not cost affective to install.	Mixed
	While I applaud this move (and hope it'll translate to AEP being more energetic	
	about helping consumers with home solar panels), is this going to raise our bills?	
	would the money be better spend upgrading the current infrastructure (like	
Residential Non-PIPP	moving more lines underground)?	Mixed

Residential Non-PIPP	Any chance for incentives for people that are willing to install solar panels?	Mixed
	Unfortunately this would mean higher utility cost and I am at the top now on my electric bill. I can see converting if this is not going to cost me more money. Plus with the increase knowledge and safety that has been done to the nuclear energy it is safer than the unknown side effects and waste from solar and safer	
Residential Non-PIPP	to the environment than wind b/c of the oil/gas to run the wind. We can enrich uranium at very low cost to benefit customers.	Mixed
	I would like renewable energy but don't want to pay more for electricity	
Residential Non-PIPP	Plus coal is very clean burning now	Mixed
Residential Non-PIPP	I would like to see more ideas around solar panels on customers roofs/property to cover their own energy needs and to be able to supply AEP with extra power.	Mixed
Residential Non-PIPP	AEP should support customer generated renewable energy production as it would be the most efficient and secure source for the future	Mixed
Residential Non-PIPP	Has to make economical sense	Mixed
nesidential Mon-Life	Very much in favor of solar energy if it can be done without using more	IVIIACU
Residential Non-PIPP	resources than other sources. Do not like the tall wind turbines at all!!	Mixed
Residential Non-PIPP	I'd prefer to see more solar sourced energy over wind, as an over abundance of wind farms have the potential to be detrimental to populations of birds.  Keep the cost to the consumer below what other generation methods would be. If it's higher, don't do it.	Mixed
Residential Non-PIPP		Mixed
Residential Non-PIPP	Natural gas. Use it too.	Mixed
Residential Non-PIPP	Provide energy based on most cost effective technology not politics.	Mixed
	Price is my major concern. I will not pay extra for wind, solar or any other	
	alternative energy source. If the cost is not competitive to other sources, do not	
Residential Non-PIPP	pass those additional costs to me.	Mixed
Residential Non-PIPP	How did you decide to only focus on solar and wind?	Mixed
Residential Non-PIPP	I don't want it if it drives my cost higher. I think we have been too quick to abandon nuclear energy.	Mixed
Residential Non-PIPP	There is massive untapped potential in hydro, several locks and dams merely control water flow without harnessing any power.	Mixed
Residential Non-PIPP	Would be interested in exploring this option for my home, but would want to see an immediate benefit as well as long-term. Whether through rebates, or discounted purchase of material, or even through AEP-provided (and owned) materials allowing the customer to assist in your efforts, but not have the financial burden.	Mixed
	If it's not going to lower my energy costs what good is it? It does not do anyone	
Residential Non-PIPP	any good to jack up the cost to use something that is suppose to lower it  Renewable energy sources should be cost effective, reliable and efficient. It	Mixed
Residential Non-PIPP	should not be done with government subsidies or substantually higher cost to the consumer.	Mixed
	I would like to see more distributed generation. Solar panels on my house with a battery that feeds my needs and produces excess energy for the grid would be	
Residential Non-PIPP	ideal. Possible now, but could be easier/more incentivized.  Are the electric producing algae programs viable at this time or are you only looking at wind and solar energy right now?	Mixed
Residential Non-PIPP	How many Ohioans help to produce or offset energy with their solar panels? Is that number growing?	Mivad
residential Mon-Fire	Terret removes browns.	Mixed

Oon't do it unless it makes economic sense for your customers and the long term wishility of the solar and wind systems is assured.  Solar panels on flat useful land makes no sense when the land could be used for other projects and the panels could be on the tops of buildings Prefer the use of solar for renewables. Many downsides to wind turbineshuge bird deaths, degradation of view sheds.  I think renewable energy is the way to for our county's future. Also seems like it should cost in check, espically for people on fixed or little income.  Mixed  I think renewable energy is the way to for our county's future. Also seems like it should cost in check, espically for people on fixed or little income.  Mixed  Residential Non-PIPP  Solar energy is fine but wind turbines have a negative impact on some wildlife.  Residential Non-PIPP  Residenti	Residential Non-PIPP	I am all for alternative energy as long as it is cost effective.	Mixed
Residential Non-PIPP  Assidential Non-PIPP  Residential Non-PIPP			
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But all solar companies to make it easier for behind-the-meter residential customers  Residential Non-PIPP  Bust don't pass on the costs to consumers.  Is AEP looking at incentive programs for residents to add solar/wind generation so excess can go back into the grid?  I am very interested in adopting solar at my home in the next few years, would love to be a part of any educational programs.  Residential Non-PIPP  Residential Non-PIPP  Residential Non-PIPP  Residential Non-PIPP  Residential Non-PIPP  I have Solar PV at my home and took part in the renewable energy rebate program AEP offered a few years ago. I think that if AEP is looking to increase the usage of renewable energy, bringing back a program like that to encourage individuals to help in that goal is a good thing to consider.  Renewable energy, wind and solar, at this time are impracticable at the utility generation level. There will always be a need for central utility generation complex. A better way forward is to improve nuclear or fuel cell technologies with consumer level wind or solar generation.  Mixed  Mixed  Residential Non-PIPP  What about nuclear?  Mixed  Mixed	Residential Non-PiPP	<del></del>	Mixeo
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Residential Non-PIPP What about nuclear? Mixed		ICOMPLEY A REFER WAY forward is to improve alliclear or filel cell fectionicales	
	Residential Non PIPP		Mixed
D. C. M. D. D. D. Thomas and the state of th		with consumer level wind or solar generation.	
		with consumer level wind or solar generation.	

	If investing in renewable energy sources lowers cost to AEP, those savings MUST	
Residential Non-PIPP	BE passed down to its customers.	Mixed
nesidential Notificial	parade down to to describe.	IVIIXCO
	Make investments as renewable becomes competitive with existing sources.	
	Phase in over time as outdated generators are taken offline. Reliability also has	
Residential Non-PIPP	to be kept in mind of course as wind and solar energy fluctuates.	Mixed
Residential Non-PIPP	Put solar panels on my house and you can keep the energy produced	
Residential Non-PIPP	Put solar panels on my house and you can keep the energy produced	Mixed
	this also important to evaluate people and action and incompared affects of a little	
Daridanii dalan DIDD	It is also important to evaluate possible negative environmental effects of adding	
Residential Non-PIPP	solar and wind energy and to evaluate other alternative energy sources.	Mixed
	Please consider the solar "rental" option, like Solar City. This is an effective	
Residential Non-PIPP	model and a win-win for everyone.	Mixed
	I am a solar energy producer already, and I would like to see that AEP goes along	
	this path and enables home producers by offering incentives and good buy-back	
	prices. AEP should ensure that it remains profitable to install solar systems on	
Residential Non-PIPP	private homes.	Mixed
	A shared generation model could be implemented, so customers could sell their	
Residential Non-PIPP	surplus to the network.	Mixed
	If it is done I don't want towers or turbines anywhere near my house. We	
Residential Non-PIPP	already have a transmission line thru out front yard and I hate the sight of it.	Mixed
	I would honestly love to see a program here in Ohio where AEP would foot the	
	initial bill for home owners to install solar panels on their house, and then let the	
	owners pay it back over a decade or two through producing extra energy to put	
	back into the grid daily, on top of their normal power bill payment. I would be	
Residential Non-PIPP	one of the first to volunteer.	Mixed
	I wish I understood more about supplementing with solar or wind on our	
Residential Non-PIPP	residential property	Mixed
	I am hopeful that greater use of solar-produced energy would lower costs of	
	manufacture and installation on private residences. I am somewhat concerned	
Residential Non-PIPP	over the equipment needed for wind-generated energy.	Mixed
	If it is going to lower or allow ekec energy costs to remain constant for a long	
Residential Non-PIPP	time then yes. We want this.	Mixed
	More nuclear in Ohio would be awesome. Maybe look into a NuScale SMR	
Residential Non-PIPP	prototype project?	Mixed
	I would love to be involved in any programs for sourcing from your customers	
Residential Non-PIPP	property like home solar.	Mixed
	If it creates jobs in Ohio with no support from countries outside of USA, I will	
Residential Non-PIPP	support it.	Mixed
	I would like to get involved in solar on my house but can't determine which	
	companies are valid representatives of AEP and which are fly-by-nights that will	
Residential Non-PIPP	leave me with a leaking roof.	Mixed
	<u> </u>	
	from a common sense factor I would hope that these energy producing options	
Residential Non-PIPP		Mixed
	real series contained rates and not added cost factors;;;	IATIVEA

	<del></del>	<u> </u>
	How about you offer solar panels for free to everyone who wants them. There	
	are thousands and thousands of rooftops just begging for solar panels. You pay	
	for the panels, materials, and installation - and then charge a reasonable	
	monthly amount that the consumer pays back to you through a	
	customer/company contract. You get all excess energy and can distribute it to	
	other homes. There will be plenty of people who do not take advantage of this,	
	so you will still get your money. Of course, you can't rip off your customers	
Residential Non-PIPP	much this way, but it would be the right thing to do.	Mixed
Nesidential Non-PIPP	Not a fan of giant windmills but solar panels on homes and commercial buildings	IVIIXEG
Residential Non-PIPP	is cool.	Mixed
nesidential Non i ii i	Want to make sure the savings from these sources are passed on to the	Wiked
Residential Non-PIPP	consumer	Mixed
	Important to reduce or contain energy costs while maintaining sustainable and	
Residential Non-PIPP	reliable energy	Mixed
	I would like to see incentives for installing solar panels on roofs of private homes	
Residential Non-PIPP	and businesses to supplement grid.	Mixed
	Keep looking for ways to develop renewable. Can you put solar panels on	
Residential Non-PIPP	parking garages or give some discounts to homeowners?	Mixed
	Home owners need credits offset the cost to install solar and wind to their	
Residential Non-PIPP	homes.	Mixed
	I would like to see more solar programs including subsidies as an incentive for	
	the home owner to install solar power.	
Residential Non-PIPP	I am not in favor of wind turbines.	Mixed
	Personally, I wish it was affordable to add solar panels to my home. I believe	
	Ohio has enough 'sun' days to make it worthwhile. I think my current electric bill	
	is very high and that is true for many people. Solar energy would seem to be a	
Residential Non-PIPP	more effective and cost-effective solution.	Mixed
0		
Residential Non-PIPP	I am only in favor of sources of renewable energy that LOWER my utility bill!  Would like to see use of renewable energy sources however, cost needs to	Mixed
Pacidontial Non DIDD	remain similar or even lower than current source.	Missa
Residential Non-PIPP Residential Non-PIPP	Rather have cheaper than more expensive renewable.	Mixed Mixed
Residential Non-PIPP	This along with solar paneling built into roofs, roads, etc will help everyone	Mixea
Residential Non-PIPP	involved going forward.	Mixed
Nesidentiai Non-Fiff	as long as it's done because it cost effective and makes since I'm all for it.	Mixed
	however if it's just because someone wants to appease some environmentalist	
Residential Non-PIPP	group then I say it's not worth it.	Mixed
nesidential Non 1 is 1	I'm all for this as long as it doesn't increase the cost per unit or adversely affect	HINCU
Residential Non-PIPP	the reliability of the service.	Mixed
	I would not be in favor, if the costs outweighed the benefits. In other words, if	
	my bill went up significantly, just because of renewable energy usage, I would	
Residential Non-PIPP	not be in favor of these.	Mixed
	Develop wind outside of bat migratory flyways and don't build any	
	hydroelectric dams. Solar should be on people's rooftops and not in farm	
Residential Non-PIPP	fields	Mixed
Residential Non-PIPP	I'm enthusiastic about pursuing cost-effective renewable energy generation.	Mixed
Residential Non-PIPP	I do not feel the customer should pay for it.	Mixed
Residential Non-PIPP	Look into all renewable resource options!	Mixed
	My biggest concern is related to the unknown world of politics. The increasing	
	socialist agenda could one day become a reality where real regulations on	
	current energy sources becomes problematic and costly. Not having alternatives	
Residential Non-PIPP	in place would be bad sort of way	Mixed

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	Do what makes sense financially. Use the cheapest and most legal source of	
	energy. Over time, renewable technologies could become more competitive and	
	that's when they should be used if we are being responsible with people's	
	limited incomes and spending ability. If we believe in other climate related items,	
	that's fine, and I actually agree with many of those myself, but let regulation	
	affect the pricing of energy, which would likely make renewables then the	
	cheaper option. Do enough to learn how to adapt to renewables now, but wait	
Residential Non-PIPP	for market pricing to be advantageous and ideally let the technology mature.	Mixed
residential Non-PIPP	Programs should be available to individual residents to install solar	Iviixeu
	power with low cost loans. Any any	4
Residential Non-PIPP	surplus could be sold to AEP/	Missad
Residential Non-PIPP	More Residential Solar	Mixed Mixed
Residential Non-PIPP	INIOTE RESIDENTIAL SOLAL	Iviixea
Residential Non-PIPP	I would love to be able to have a solar panel on my house at a reasonable cost	Mixed
	I am on fixed income. I can't afford increase to my electric bills to fund this	
	venture. If this can be done at no increase in my costs or lower my bill, I am for	
Residential Non-PIPP	it.	Mixed
Residential Non-PIPP	We need to explore all options!	Mixed
Residential Non-PIPP	I would consider being a pilot house to see if solar could fund my energy bill.	Mixed
	, , , , , , , , , , , , , , , , , , , ,	
Residential Non-PIPP	long term, is it equal or cheaper than gas. Not if it costs significantly more.	Mixed
	Cost to the customer is very important as well. Not all sources (wind etc.) are	
	efficient in all states/areas. Such as Washington state has many cloudy days, so	
Residential Non-PIPP	solar may not be as efficient.	Mixed
Residential Non-PIPP	More people would b willing to switch to solar if it could b done in payments.	Mixed
	Not interested in renewable energy if it cost more to produce than	
Residential Non-PIPP	nonrenewable energy.	Mixed
	Research the health effects that are attributable to renewable energy -	
	Proximity to wind turbines/water turbines. Insider building in more remote areas	
Residential Non-PIPP	to minimize these risks.	Mixed
Residential Non-PIPP	Why no focus on nuclear energy?	Mixed
	I have always wanted to have solar on my roof. It is daunting, no idea where to	
	start or to getting funding. It would be helpful if AEP would be a leading voice in	
Residential Non-PIPP	this.	Mixed
	Consider doing what you can to help local residence adapt their homes to attain	
Residential Non-PIPP	renewable energy.	Mixed
	If you can make it economically feasible for both the wealthy and the	
Residential Non-PIPP	economically disadvantaged it would be more desirable.	Mixed
<del></del>	Hopefully Aep will come out with a program that would help with costs for	
Residential Non-PIPP	consumers to use solar panels, etc	Mixed
	It's only worth doing if it's also economical for both AEP, and us	
Residential Non-PIPP	COSTUMERS.	Mixed
	I think renewable energy is a great idea, as long as it's cost effective. Last I	, , , , , , , , , , , , , , , , , , , ,
	checked, at least as a consumer, renewable energy was still quite a big	
Residential Non-PIPP	investment and not really worth it for financial incentives alone.	Mixed
	Would like AEP to invest in customer wind/solar to provide service to a single	
	client/home and reap the benefits of energy production during low use times.	
Residential Non-PIPP	Win/Win.	Mixed
Residential Non-PIPP	Where is geothermal on the spectrum?	Mixed
Residential Non-PIPP	cost of production is very important - do not go to renewable energy at any cost	Mixed

	It's great as long as the cost to the consumer stays as low as producing	
Residential Non-PIPP	current electricity.	Mixed
Residential Non-PIPP	I despise wind energy! more use of solar would be better!!!!	Mixed
	Increasing renewables should ONLY be done if it will not drive up price. There are	
	some serious problems with making large, far-reaching decisions based on the	
	largely faulty science of anthropocentric global warming. Throughout earth's 4.5	
	billion year history, CO2 levels have fluctuated without being correlated to	
	temperature. Now, all of a sudden, CO2 is the climate control knob, so-to-speak.	
	It doesn't make sense. Likewise, making policy and other important, cost-	
Residential Non-PIPP		Mixed
Residential Non-PIPP	Like the concept, but don't want to pay a higher cost for it.	Mixed
	I placed a 5 KW solar array on the roof of my house, [DELETED DUE TO	
	PERSONAL IDENTIFIABLE INFORMATION], and I've generated almost 8 MWH of	
	energy in the past 2 years. I want to thank AEP for being so cooperative in this	
	effort and working with me to install a net meter. Considering that the net effect	
	of this was that you are selling me less of your product now, this is pretty darned	
	impressive! I read about utilities in the sunny states of Florida and Arizona that	
	are erecting road blocks to the use of solar and it actually makes me proud to be	
Residential Non-PIPP		Mixed
	We also have rivers to run turbines in. Wind can be still and skies can be cloudy,	
Residential Non-PIPP	· ·	Mixed
	Look for outside investors to help keep your current customers costs as low as	
Residential Non-PIPP		Mixed
	In central Ohio, it might be an opportunity to work with housing developments	
	for apartments and condominiums to leverage solar panels and windows/sliding	
	doors. I'd be interesting in participating but my condo association would have to	
Residential Non-PIPP	be amenable to the plan.	Mixed
	We have been interested in putting solar panels on our house. It seems that the	
	biggest road-block is hooking those panels up to the energy 'grid' It is hard to	
	believe that in the USA, we are stumbling over this technology !!!	
Residential Non-PIPP		Mixed
	Ild professor and a second second second second second second second second second second second second second	
	If a prefer solar energy to wind, wind farms are indeous and have a limited life	
	I'd prefer solar energy to wind. Wind farms are hideous and have a limited life span. Once they are obsolete, what do you do with all that hardware? Also, they	
Residential Non-PIPP	span. Once they are obsolete, what do you do with all that hardware? Also, they	Mixed
······································	span. Once they are obsolete, what do you do with all that hardware? Also, they	Mixed Mixed
······································	span. Once they are obsolete, what do you do with all that hardware? Also, they kill birds.	
Residential Non-PIPP	span. Once they are obsolete, what do you do with all that hardware? Also, they kill birds.  I am not willing to pay more for it.  Thank you for requesting feedback. I also feel that nuclear would be a good	
Residential Non-PIPP	span. Once they are obsolete, what do you do with all that hardware? Also, they kill birds.  I am not willing to pay more for it.  Thank you for requesting feedback. I also feel that nuclear would be a good bridge/gateway to greater proliferation of renewable energy.	Mixed
Residential Non-PIPP Residential Non-PIPP	span. Once they are obsolete, what do you do with all that hardware? Also, they kill birds.  I am not willing to pay more for it.  Thank you for requesting feedback. I also feel that nuclear would be a good bridge/gateway to greater proliferation of renewable energy.  Only invest in renewable energy if it available at the same cost as traditional	Mixed
Residential Non-PIPP Residential Non-PIPP	span. Once they are obsolete, what do you do with all that hardware? Also, they kill birds.  I am not willing to pay more for it.  Thank you for requesting feedback. I also feel that nuclear would be a good bridge/gateway to greater proliferation of renewable energy.  Only invest in renewable energy if it available at the same cost as traditional energy sources.	Mixed Mixed
Residential Non-PIPP Residential Non-PIPP Residential Non-PIPP	span. Once they are obsolete, what do you do with all that hardware? Also, they kill birds.  I am not willing to pay more for it.  Thank you for requesting feedback. I also feel that nuclear would be a good bridge/gateway to greater proliferation of renewable energy.  Only invest in renewable energy if it available at the same cost as traditional energy sources.  I would like to see AEP increase use of renewable energy and to reduce costs; my	Mixed Mixed Mixed
Residential Non-PIPP Residential Non-PIPP Residential Non-PIPP	span. Once they are obsolete, what do you do with all that hardware? Also, they kill birds.  I am not willing to pay more for it.  Thank you for requesting feedback. I also feel that nuclear would be a good bridge/gateway to greater proliferation of renewable energy.  Only invest in renewable energy if it available at the same cost as traditional energy sources.	Mixed Mixed
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Residential Non-PIPP Residential Non-PIPP Residential Non-PIPP Residential Non-PIPP Residential Non-PIPP Residential Non-PIPP	span. Once they are obsolete, what do you do with all that hardware? Also, they kill birds.  I am not willing to pay more for it.  Thank you for requesting feedback. I also feel that nuclear would be a good bridge/gateway to greater proliferation of renewable energy.  Only invest in renewable energy if it available at the same cost as traditional energy sources.  I would like to see AEP increase use of renewable energy and to reduce costs; my bill from AEP has steadily increased while service has not prefer solar enhancements to wind power due to impact of wind turbines on	Mixed  Mixed  Mixed  Mixed
Residential Non-PIPP  Residential Non-PIPP  Residential Non-PIPP  Residential Non-PIPP	span. Once they are obsolete, what do you do with all that hardware? Also, they kill birds.  I am not willing to pay more for it.  Thank you for requesting feedback. I also feel that nuclear would be a good bridge/gateway to greater proliferation of renewable energy.  Only invest in renewable energy if it available at the same cost as traditional energy sources.  I would like to see AEP increase use of renewable energy and to reduce costs; my bill from AEP has steadily increased while service has not prefer solar enhancements to wind power due to impact of wind turbines on birds and flying insects	Mixed  Mixed  Mixed  Mixed
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Residential Non-PIPP Residential Non-PIPP Residential Non-PIPP Residential Non-PIPP Residential Non-PIPP Residential Non-PIPP	span. Once they are obsolete, what do you do with all that hardware? Also, they kill birds.  I am not willing to pay more for it.  Thank you for requesting feedback. I also feel that nuclear would be a good bridge/gateway to greater proliferation of renewable energy.  Only invest in renewable energy if it available at the same cost as traditional energy sources.  I would like to see AEP increase use of renewable energy and to reduce costs; my bill from AEP has steadily increased while service has not prefer solar enhancements to wind power due to impact of wind turbines on birds and flying insects  Do the right thing and create jobs in Ohio but don't sacrifice environmental health  If you must go green, I would rather itnot be solar. By far I would prefer a new safer type nuclear plant.	Mixed Mixed Mixed Mixed Mixed Mixed Mixed Mixed
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Residential Non-PIPP Residential Non-PIPP Residential Non-PIPP Residential Non-PIPP Residential Non-PIPP Residential Non-PIPP	span. Once they are obsolete, what do you do with all that hardware? Also, they kill birds.  I am not willing to pay more for it.  Thank you for requesting feedback. I also feel that nuclear would be a good bridge/gateway to greater proliferation of renewable energy.  Only invest in renewable energy if it available at the same cost as traditional energy sources.  I would like to see AEP increase use of renewable energy and to reduce costs; my bill from AEP has steadily increased while service has not prefer solar enhancements to wind power due to impact of wind turbines on birds and flying insects  Do the right thing and create jobs in Ohio but don't sacrifice environmental health  If you must go green, I would rather itnot be solar. By far I would prefer a new safer type nuclear plant.	Mixed Mixed Mixed Mixed Mixed Mixed Mixed Mixed

	Energy derived in the future should keep in mind the footprint it leaves for	
Residential Non-PIPP	Ohio's green spaces and forests that can not be replaced	Mixed
D Non DIDD	Renewable energy is very important to me. Even more important is reducing the	la about
Residential Non-PIPP	number of power outages in my neighborhood!	Mixed
	Renewable energy makes good sense and I think that AEP should invest in it. My	
	biggest concern is the investment will be through increased rates rather than	
Residential Non-PIPP	corporate investment in other sources of energy.	Mixed
	ENCORPERATE SMALLER WATER TURBINES IN THE OVERFLOW OF RESERVOIRS	
	SUCH AS HOOVER DAM IT HAS A CONSTANT FLOW OF WATER THAT SUPPLIES	
	THE CENTRAL OHIO AREA WITH DRINKING WATER, CONSTANT FLOW EQUILS	
Residential Non-PIPP	CONSANT POWER SUPPLY	Mixed
Residential Non-PIPP	Keep the jobs in my area I pay for & use	Mixed
	please consider impacts to wildlife and the environment when choosing new	
Residential Non-PIPP	energy sources	Mixed
Residential Non-PIPP	I assume renewables will cost more. I'm ok with that as long as it's not too much.	Mixed
	I would love to have solar panels on my roof. but the cost is too high. If there	
	was a program that deferred the cost the the equipment and installation. And	1
	provided power during outages while routing the energy back into the grid I	L., .
Residential Non-PIPP	think a lot of people would be interested.	Mixed
	if you are called AEP OHIO then keep it OHIO!! If you can sell any energy to	
	sourounding states do so BUT those funds should also be shared to OHIO AEP	
Residential Non-PIPP	customers in cheaper rates.	Mixed
	I would like solar panels on my south roof. Financial assistants with that would	
Residential Non-PIPP	be good.	Mixed
	I'm willing to pay slightly more for renewable energy, but not much. I believe	
Residential Non-PIPP	most people are the same way.	Mixed
	Balance is important, investment vs return. But oil, coal, and gas (consumable)	
	are too volatile to be 100% relied upon, and renewable is the only proper means	
Residential Non-PIPP	to maintain stability in such markets. Despite the reduced efficiency.	Mixed
	The free market and technology innovation should determine the pace at which	
Residential Non-PIPP	renewable energy is implemented	Mixed
Residential Non-PIPP	Solar panels on roofs	Mixed
	Encourage business & residential customers to install & use solar or wind power,	1
Residential Non-PIPP	that would tie in or somehow collaborate with AEP.	Mixed
		<u></u>
Residential Non-PIPP	would like to see programs offered with solar and wind mills for customers.	Mixed
Residential Non-PIPP	Subsidize solar panels on homes.	Mixed
	No displacement of residents or interference with their lifestyles when installing	
	new energy production.	
		]
	Have an open discussion with all sides to reach compromises.	
	Maria de la Carta	
	Use a percentage of stock holder dividends to help with costs as well as raising	L., .
Residential Non-PIPP	customer rates, which is always inevitable.	Mixed
	More important to decrease the use of coal for energy generation. Renewable	1
B 11144 BIE-	energy is only one option to decrease the use of coal (the most carbon intensive	l
Residential Non-PIPP	fuel).	Mixed
	You need to keep in mind migration patterns of birds , bats when you place the	
<b> </b>	turbines. Also who much more waste is being created from the batteries you use	l
Residential Non-PIPP	to store the electricity. How are those recycled?	Mixed
	Would it be possible for AEP to support renewables at the individual home level.	
	Credits for Home Solar systems as a way to increase Solar with no large	
Residential Non-PIPP	infrastructure.	Mixed

Residential Non-PIPP	Residential solar panels provided by AEP would be nice.	Mixed
INESIGERICAL NOTI-FIFF	nesidential solal pariels provided by Act Would be lince.	WIINEU
	As long as my energy bill doesn't go up as I'm retired and on a fixed income. I am	
  Residential Non-PIPP	a proponent for wind and solar but fear the cost is still too high.	Mixed
Residential Non-PIPP	it should and can cost less . don't use it as an excuse to charge more .	Mixed
Residential Non-PIPP	Pass the savings on to your customers!!	Mixed
The state of the s	Do all you can without raising rates	
Residential Non-PIPP		Mixed
	I support initiatives like this if they are cost neutral. I do not think these types of	
Residential Non-PIPP	initiatives are worth paying higher rates for.	Mixed
	Happy to have on home comtributors to energy generation. Saving money long	
Residential Non-PIPP	term. NOT interested in being overcharged	Mixed
	Solar seems like a great idea. Could cut back on production of electricity on	
	summer days when A/C units are running. I am not sure if this would be more of	
	a peak shaving thing or if you guys were looking at storage too. Would be	
	interested if there was a program to in place to receive power from local	
	customers who already have solar in place. You might be able to incentives	
Residential Non-PIPP	people to install more grid tied systems.	Mixed
Residential Non-PIPP	I vote for the use of solar panels, problem being they are expensive to install.	Mixed
:	Investment into renewable energy should be focused on projects which do not	
	leech harmful chemicals into aquifers and other natural water sources. They	
	should also be planned for 30 years of utility at a minimum due to the significant	
Residential Non-PIPP	investment required.	Mixed
Residential Non-PIPP	Personal solar panel plan and other options	Mixed
	Even though the state legislature doesn't mandate solar credits come from OH, I	
Residential Non-PIPP	would like to see solar investment remain local.	Mixed
	In the past, utilities rammed every suitable river for hydroelectric power. This is	
	now recognized as a mistake. Much of the current growth in "renewable" power	
	is in solar power is large solar farms that are following the same philosophy. This	
Residential Non-PIPP	is the same short sighted mistake and I don't support making it.	Mixed
D	Wind can be useful but is not benign. Damaging to bird migration when placed	5.6° 1
Residential Non-PIPP	in migration path.	Mixed
	Will these renewable resources (windmills) be cost effective? Do we know or are	
Residential Non-PIPP	we building them not sure of future maintenance costs the public will have to	Mixed
Residential Non-PIPP	pay for.  I would like to see these new developments without a noticeable increase in	IVIIXeu
Residential Non-PIPP	· ·	Mixed
nesidenda Norrir	rates.	HINCU
	If solar, how will materials be disposed of once reach useful life? Many of these	
Residential Non-PIPP	materials are harmful and are mined in foreign countries by child labor.	Mixed
Residential Non-PIPP	We should use reasonable economical practices. Common sense solutions.	Mixed
	My only concern is that utilities seem to charge customers more to make	
Residential Non-PIPP	"renewable energy" that's suppose to make it cheaper since it is renewable.	Mixed
Residential Non-PIPP	Renewable energy is nice but not if it raises my electricity rates	Mixed
	While I would prefer our energy sources be within the state, I think they need to	
	be done smartly. Cut trees selectively, not just clear a whole area. Closely	
	monitor when fracking and if problems develop, stop fracking and fix the	
Residential Non-PIPP	problems. If the problems can't be fixed, stop fracking.	Mixed
Residential Non-PIPP	do it where it can be done. Keep all options open	Mixed

	Future of coal is questionable, nuclear will not happen, hydro power is miniscule	
	in this country so it makes perfect sense to diversify energy production on a scale	
Residential Non-PIPP	large enough to keep rates affordable	Mixed
		<b>-</b>
Residential Non-PIPP	Renewable investment that does not grossly increase the end consumer cost	Mixed
 	Costs of electric power provided with renewable energy SHOULD be comparable	
Residential Non-PIPP	to those of fossil fuels.	Mixed
Ini-lti-lat pipp	AEP should also make it easier to sell back locally generated electricity at	B.A.S
Residential Non-PIPP	competitive rates.  I would prefer, whatever you do, it be cost effective above all. If we have to wait	Mixed
	a few years for thatso be it.	
Residential Non-PIPP	Thanks for including us in your decision-making.	Missad
Residențiai Non-PIPP	Thanks for including us in your decision-making.	Mixed
Residential Non-PIPP	We would like the opportunity to use solar panels on our home in this endeavor.	Mixed
	Only do it if it is cost effective. Don't do stupid stuff like try to generate solar in	
Residential Non-PIPP	Ohio.	Mixed
	Encourage larger corporations to partake in energy creation somehow. Reward	
	them for their efforts. Reward/incentivize homeowners to do the same. Is it	
	possible to mount solar panels to sides of tall buildings to take advantage of the	,
Residential Non-PIPP	large surface area exposed to sunlight?	Mixed
Residential Non-PIPP	allow people to put solar on their homes	Mixed
	All the affects of renewable resources, both pros and cons, need to be	
	considered before being accepted. Some sound good in theory but the total	
	affect of producing a wind turbine, what affects they have on the local wildlife,	
	the constant up keep of solar fields and maintenance of a turbine can have just	
	as much damage to the overall environment. And communities need to be	
	educated on BOTH the advantages and disadvantages. Just because it's "green"	
Residential Non-PIPP	does not always mean it's clean.	Mixed
	Energy needs to be cheap and reliable. This is also renewable that's good but not	
Residential Non-PIPP	required	Mixed
	In CA they have the solar panels on roof tops of residence I think that is a	
Residential Non-PIPP	fantastic idea!	Mixed
Residential Non-PIPP	Yes, let customers have the ability to make their own energy	Mixed
	If there is subsudy to install solar shingles I will like to be part of the pilot	
Residential Non-PIPP	program as a tester and provide info back to AEP	Mixed
Residential Non-PIPP	I tend to like solar because of lower unintended negative wildlife impacts.	Mixed
	Energy companies need to promote methods available for renewable energy. A	
	reasonable, society friendly means for generation. In Germany my friends have	
	solar panels on their roof. These methods need to be promoted. Also there	
Davidantial Nam DIDD	needs to be developed that the birds don't kill themselves running into the	NAC - J
Residential Non-PIPP	windmills.	Mixed
Desidential New DIDD	Advances in solar makes sense for homeowners. Wind is suspect in terms of	A A Course of
Residential Non-PIPP	reliability.	Mixed
	I'm more interested in getting rid of above ground power lines. I would also	
Residential Non-PIPP	prefer renewable energy to be done by homeowners rather than AEP.	Mixed
Residential Non-PIPP	GO NUCLEAR	Mixed
Residential Non-PIPP	I am all for it as long as my rates don't go up.	Mixed
Residential Non-PIPP	invest in renewable technology with profits and not raise bills.	Mixed
Mesidential Non-Fire	invest in renewable technology with profits and not raise bills.	
Residential Noti-FIFF	You need to reevaluate how you treat those of us with solar panels on our roofs.	Winco
Residentias NOII-FIFF		Wince

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	National Control of the Control of t	7
	Increasing net metering incentives for home owners that have solar and	
	overproduce is a great idea. Similar to the AEP program that bought customers	
	SREC credits back in 2010-2012 or so. Give homeowners the incentive to sell	
Residential Non-PIPP	their excess energy back to AEP at decent rates.	Mixed
	open investment in land owners to support them changing to solar energy and	
	billing for the equipment over time would be a good role for you and home	
	owners, grow your role in to long term leasing of the euipment and buy back	
Residential Non-PIPP	power to resell under contract	Mixed
Residential Non-PIPP	Do not think wind energy is a good option, much prefer solar.	Mixed
	Keep an eye on aesthetics on anything new that is built - must not visually be a	
	"threat" to nearby homes. Has to be visually nice to its neighbors. Also, give	
Residential Non-PIPP	back to the local community in some positive "community togetherness" fashion.	Mixed
Residential Non-PIPP	should not be forced on to the consumer unless it makes economical sense	Mixed
	Offer programs for houses to use solar panels to generate electricity and use	
Residential Non-PIPP	excess energy to supply others.	Mixed
	Why not move wind and solar to the consumer end to minimize cost and line	
-	loss? Each house generates its own, AEP fills in the demand gaps and darkness	
Residential Non-PIPP	no wind times.	Mixed
Residential Non-PIPP	Don't switch to energy sources that cost more.	Mixed
	Your expansion into solar and wind power should have low environmental	
Residential Non-PIPP	impact.	Mixed
Residential Non-PIPP	Renewable energy generation must be cost effective.	Mixed
Residential Non-PIPP	Don't take farm land.	Mixed
Residential Non-PIPP	start small and learn from the experience	Mixed
	reward customer to locally invest and produce- example give them credits on	
	rates with reassurance that the rug will not be pulled out from underneath them	
	if they make this investment. Ex. Nevada policy changes that impacted solar	
Residential Non-PIPP	adoption.	Mixed
	Alternative energy is the only responsible choice, both fiscally and ecologically.	!
	Between wind and solar, I strongly feel that solar is the better choice: no moving	
	parts that require maintenance, no bird kills or disruption of migration patterns,	
	no vibrations or noise. There is also less resistance to solar from neighbors, as it	
	can't be seen above trees. Solar is silent, still, unobtrusive power that is	
Residential Non-PIPP	perpetually and consistently available.	Mixed
	It is good to pursue this. I personally think the giant windmills and the large	
	fields of solar panels are unsighty. It would be great if solution could be	
	identified that would be more astecially pleasing as well as environmentally	
Residential Non-PIPP	sound.	Mixed
	we would appreciate if the energy resources could be found in our Great State of	
	Ohio, as our rates continually go up. We the customers need a break from high	
Residential Non-PIPP	prices continually	Mixed
C C C C C C C C C C C C C C C C C C C		
	I have heard that it's possible to get a wind turbine/mill? installed on a	
	residential home, which would generate electricity. Options such as this are of	
	interest to me, and is live to learn more about any which may be available.	
	It is important to me that equipment, from vehicles to appliances and more, are	
	built to last thereby reducing costs as well as waste (electrical, maintenance,	
Residential Non-PIPP	water, and landfill.)	Mixed
Residential Non-PIPP	cost should be as low as gas or oil	Mixed

	Don't push the cost of transitioning to other power sources onto customers. It	
	may backfire and cause customers to exodus to other companies. Making a	
	transition one this is important, but alienating your customers when you're	
	already a multi-billion dollar company is a very unwise move. But with that being	
	said, moving towards the goal of 100% renewable energy is a very worthy cause	
Residential Non-PIPP	and I applaud the effort no matter how big or small!	Mixed
	Offering current customers the ability to supplement their energy with	
Residential Non-PIPP	solar/wind plus give back to the grid would be useful	Mixed
Residential Non-PIPP	Try to do it without raising my bill.	Mixed
	Harmondon to see the Mitarature was the standard to the Control	
D 11 11 14 1 1 DIDD	It comes down to costs If it cost me more, then Im not for it. On the contrary,	
Residential Non-PIPP	if I could utilize solar and get rid of the energy company, I would do that!!!	Mixed
Residential Non-PIPP	keep cost low, diversify sources. be mindful of quality of life	Mixed
Residential Non-PIPP	Please no big ugly windmills that kill birds. Solar would be fine.	Mixed
D 11 11 14 11 DIDD	AEP should allow homeowners with Solar to sell unused generated electricity	
Residential Non-PIPP	back to AEP.	Mixed
	Any thought to install solar panels on client's roofs and let them lease them	
Residential Non-PIPP	from you? Buying outright for a home owner is tens of thousands of dollars	Mixed
Residential Non-PIPP	We need to use what resources are there for us to use. Regardless	Mixed
	It is not at all clear in these questions how the Distribution Utility/AEP is going to	
	collect costs of renewable energy from customers who purchase their power	}
	from competitive suppliers. If the revenue recovery issue were included in this	
Residential Non-PIPP	survey, your results might be quite different, I would think.	Mixed
	my biggest concern is market price. If the price of renewable energy is greater	
Residential Non-PIPP	than that of "non renewable," it's of no importance to me.	Mixed
	I would like the option of havin solar panels installed on my house that would be	
Residential Non-PIPP	paid off through my AEP bill, and be able to sell excess energy back to the grid.	Mixed
		****
	All AEP Ohio customers should pay for the development of renewable energy	
	production, at the regulated distribution utility level, based on the amount of	
	demand and total usage. This will encourage efficiency at all rate classes. There	
	should also be an opt-in opportunity for ratepayers to chip in more money	
	toward renewable energy production in their area code, as would be provided in	
	an "eligible customer list" for governmental electric aggregation programs. If	
	possible, these opt-in contributions could be treated as if they are micro-	
	investments that come with a guaranteed return that is feasible for AEP Ohio to	
	continue providing the service. The return back to opt-in subscribers can be	
	granted as an on-bill credit or can be reinvested back into the program, at the	
	customer's choice. AEP Ohio should also encourage customer choice in	
Residential Non-PIPP	generation supply that offer 100% renewable energy-backed products.	Mixed
Residential Non-PIPP	My house is a ranch and the south roof would be GREAT for solar panels	
nesidential NOTIFIER	Renewable energy is a great thing, but there are areas where AEP spends	Mixed
	customer money without regard (paper energy usage reports) that could save	
	paper and money that could be better spent, not at all, or instead on renewable	
Residential Non-PIPP	energy.	Mixed
nesideficial Notice Let	Solar, wind and such are great. BUT, not worthy of spending excess amounts of	IVIIACU
Residential Non-PIPP	money to have them.	Mixed
Residential Non-FIFF	I know there are issues with wind power affecting the migration of birds, so I	IAIIVER
	would want to make sure that alternative energy sources are not even worse for	
Residential Non-PIPP	the environment than our current system.	Mixed
nestacital Notice III	para samonic chan our carrent system	ITTIACU

	Not all landscapes are able to provide substantial renewable energy. However,	
	since AEP is such a large company I assume there could be significant	
	investments in renewable energy all over that would serve as a reliable resource.	
	Given this I would expect not to see much of an effect on my monthly bill. Which	
	is a concern, even though I'd be willing to pay a 10% more if I knew the majority	
Residential Non-PIPP	of my electricity was being supplied through renewable energy generation.	Mixed
	late and have be an in a subject of the state of the stat	
Deside estables DIDD	Would love to see incentives or at least encouragement for distributed	Mixed
Residential Non-PIPP	generation behind the meter. Also would like to see incentives for EV chargers	Iviixed
	This land belongs to the next generations too. We have to put to minimum level	
Residential Non-PIPP	the unintended consequence of any development, including energy needs.	Mixed
Residential Non-Fire	the difficenced consequence of any development, filending energy fleeds.	IVIIACU
	Wind sounds great if it doesn't kill birds & ruin the land.	
Residential Non-PIPP	Solar is fine as well if it really works and isn't just another "green scam‮	Mixed
The state of the s	Homeowners capable of producing 100% of their energy should not be	TTTTT
Residential Non-PIPP	penalized, fined or taxed	Mixed
	We have to do this without injuring animals such as birds who are killed by wind	
Residential Non-PIPP	turbines.	Mixed
Residential Non-PIPP	Possible renewable energy solutions without harm to our environment is ideal.	Mixed
	The main issue with renewable energy is the cost difference with conventional	
	sources. I don't want to have huge increases in my bill just to say that we are	
	using more renewable energy. If the cost analysis makes sense then I am for it	
	but I don't want to just add it to say we are helping the environment while	
Residential Non-PIPP	hurting my budget.	Mixed
	Make sure the renewable energy generation is up, running, and reliable before	
Residential Non-PIPP	starting to cut back on non-renewable generation.	Mixed
	It is good to look for better energy sources but not if we have to pay for you to	
	do this I lived where they raised our rates to build a nuclear plant but it never	
	happened and we never got our money back you are a very big company and	
	help in lots of disasters which is good but not for use if you raise our rates to do	
	this l'm on a fixed income I keep paying more for everything which is it	
Residential Non-PIPP	making it hard for me to live.	Mixed
	lo cru	
	l'm a big advocate, but am not sure, if I was faced with higher prices, how	
	much more l'd be willing to pay for renewable energy. Take for example solar	
-	panels for individual homes: l've never been able to afford the investment.	
	Even if I was not investing in the equipment, a substantially higher energy bill	
Desidential Nam DIDD	would be hard to handle. This is important to me and future generations. Makes sense on so many levels.	Mixed
Residential Non-PIPP Residential Non-PIPP	unless it can be done for the same cost or less, STOP.	Mixed
Residential Non-PIPP	I dont know a whole lot, although I think renewable energy sources are good,	Mixed
	costs are also important and coal should not be neglected. I don't think coal is	
Residential Non-PIPP	nearly as bad as the popular media would like you to think.	Mixed
Nestachiai North II	meany as sad as the popular means would not you to trinin.	
	The development of solar energy is okay, but wind turbines are utterly	
	destructive of the human and natural environment. Turbines are being sited too	
	close to citizens' homes and are harming them with noise, shadow flicker, and	
Residential Non-PIPP	other problems. I do not approve of your reliance on wind power.	Mixed
Residential Non-PIPP	I prefer solar over wind.	Mixed
	build nuclear power plants like Canada has that do Not produce high level, long	
Residential Non-PIPP	life waste.	Mixed

	Today and the second of the control	
a	why can"t we use currents from Ohio and other rivers to generate electricity at	N 45 4
Residential Non-PIPP	dams?	Mixed
		, a
Residential Non-PIPP	If using wind turbines, please make sure that they don't disturb residents	Mixed
	would hope the development of renewable energy will result is lower bills for	
Residential Non-PIPP	the consumer and not an increase to pay for the deveolpment	Mixed
Residential Non-PIPP	Take it from your company profits, not by raising customer rates	Mixed
	I have solar and geothermal at my residence and I would like to see more	
Residential Non-PIPP	encouragement to others to do the same.	Mixed
Residential Non-PIPP	Diversify and invest for the future.	Mixed
<b>x</b>		
	I was enrolled in a wind program with another supplier but recently disenrolled	
	due to the extra \$15 monthly fee I was charged. I do not want AEP to tack extra	
Residential Non-PIPP	monthly fees on in order to access renewable energy.	Mixed
	Give customers credits/rebates to purchase their own renewable energy	
Residential Non-PIPP	equipment for their home. Do not force every customer to bear the cost.	Mixed
Residential Non-PIPP	Will there be incentives for residential or commercial solar installations?	Mixed
	Don't raise my energy rates because of these new investments. Any investment	
Residential Non-PIPP	in new technology should reduce energy costs	Mixed
Residential Non-PIPP	We went solar because we are tired of getting d by AEP	Mixed
	Renewable should be treated like a high cost trend. If the energy is truly better	
Residential Non-PIPP	than what we have now the cost to customer should not be more.	Mixed
	Power sourcing should be cost effective (cost neutral). I would not be interested	
Residential Non-PIPP	in paying higher prices for the sake of wind/solar.	Mixed
- Trestacinetal Total Tari	The year private to the second	
	Is wind and solar cost-effective and viable in Ohio? I have no idea. Please also	
	consider nuclear despite the recent stigma - long term I believe a combination of	
	multiple sources is the best option. Renewable, nuclear, and limited 'clean' fossil	
Residential Non-PIPP	fuels. Glad to see this is a priority for AEP.	Mixed
Kesidelitiai Moli-PIPP	I don't particularly care about how the energy is generated. If the utilization of	Mixeu
	renewable energy is financially advantageous to me, great. If not, let those that	
Death Welster DIDD	view the topic as paramount spend their money on personal sources of	Mixed
Residential Non-PIPP	renewable energy.	
Residential Non-PIPP	You should encourage homeowners to install solar panels.	Mixed
	for the state of t	
	It's going very slow. You shouldn't have a survey to see if it's wanted, just do it.	
	Your customers will thank you for it. But DON'T hike prices for the investment	
	because you already make billions of dollars a year in profit. You will create	Ì
Residential Non-PIPP	loyalty if you invest yourselves and not off the backs of your customers.	Mixed

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	The survey is screaming that you want to go in front of the energy commission to	
	ask for an increase in utility costs based on the fact to promote clean energy /	
	renewable energy. In so many words you are looking for an excuse to raise rates	
:	and at the same time really produce nothing and invest nothing into renewable	
	energy. Just to make bigger profit without any real change on your part. I know	
	you will use my words to bite me in the butt in the long run by playing up some	
	big campaign to dupe the energy commission to raise my rates under the	
	falsehood that you are bending to the people's will of wanting renewable energy.	
	You will state that this doesn't come without costs and you need to raise the	
	rates. Just another "emperor's new clothes" rate increase by you. I wish that one time you would actually do what you claim you will do without raising our rates.	
	However, I can see the writing on the wall. You will use this to get your rate	
Residential Non-PIPP	increase and then do nothing.	Mixed
Residential Non-PIPP	increase and then do nothing.	IVIIXEU
Residential Non-PIPP	A solar power co-op between AEP and homeowners would be awesome.	Mixed
Residential Non-PIPP		Mixed
	It would be good if AEP made investments in distributed generation via rebates	
	or other means to encourage roof top solar or wind to decrease the reliance on	
Residential Non-PIPP	transmission network.	Mixed
<b>1</b>		
	use the most efficient source (costwise) for electicity. If solar, hydro, wind, is	
Residential Non-PIPP	cheaper then use it. Don't spend investment money on inefficient sources	Mixed_
	More solar incentives, strengthen delivery infrastructure to not allow power	
Residential Non-PIPP	outages. Think longer term and at a systems level.	Mixed
Residential Non-PIPP	I have an EV and would consider a solar powered house	Mixed
Desidential Man BIDD	while it appears beneficial-is it cost effective-fuel cells are my choice in the home-	l .
Residential Non-PIPP	no transmission lines	Mixed
  Residential Non-PIPP	Incentives for consumer owned grid connected alternative energy sources.	Mixed
Residential Non-PIPP	More home or business mounted solar.	Mixed
The state of the s	Partner with and encourage residents who can have solar or wind power on their	Manager 1
	property to be able to put any extra power generated back into the grid. Yes, it's	
	your infrastructure, but there is a way that you can still make money, the	
	residents who invested in renewable energy can get some pay back, and the	
Residential Non-PIPP	overall system is more enduring.	Mixed
	Adding solar to my house was pretty easy. AEP was reliable and made it easier	
1	than four years ago. Would AEP consider incentives to encourage more homes to	
	adopt solar? If getting above 4.5% is your goal, then maybe further incentives	
Residential Non-PIPP	are necessary.	Mixed
	My husband used to work at a scrap yard. I KNOW how much AEP wastes in	
Residential Non-PIPP	materials. How about you stop doing this and invest it in renewable resources.	Mixed
Residential Non-PIPP	Help homeowners who want to go solar.	Mixed
1	Do us a favor, and absorb at least some of the costs yourself, since eventually	_
Residential Non-PIPP	you'll need to use all renewables anyway	Mixed
	We need residential programs to promote solar on homes. Every house in Ohio	
	should have solar panels to reduce peak consumption. I am very interested in	<u> </u>
Residential Non-PIPP	him having solar panels at my house.	Mixed
Residential Non-PIPP	Allow customers to provide electricity to grid	Mixed
	I want AEP to hold high ethical standards in considering the environmental	1
	impact and local community disruption caused by all forms of electricity	a a :
Residential Non-PIPP	generation, now and in the future.	Mixed

Residential Non-PIPP	Take care with wind power not to kill or injure migrating birds.	Mixed
	, , , , , , , , , , , , , , , , , , , ,	
	I am open to the concept. However, I feel that I am not as knowledgeable about	
	the topic as I should be. I would be interested in installing solar panels. As long	
Residential Non-PIPP	as the installation cost are not prohibitive.	Mixed
	I am all for it, provided the cost associated with the investment does not increase	
Residential Non-PIPP	to overall cost to the consumer.	Mixed
	Do not pass the cost on to your customers. Find a way to pass the savings on to	
Residential Non-PIPP	customers. You will save money.	Mixed
	Solar as a primary. Wind requires too much upkeep of the turbines. Wind	
Residential Non-PIPP	turbines are also unsightly and solar is less unsightly if installed prudently.	Mixed
	Renewables are the future and should be invested in because it's the right	
	thing to do and we should rely on oil or coal which have a finite life span.	
	However this shouldn't be done on the backs of customers dollars to protect	
	AEPs bottom line and shareholders. Renewables should start to replace old	
	generation. Not be an add for cost while you protect profit margins and ceo	
Residential Non-PIPP	salaries and dividends.	Mixed
	I would love to use solar power shingles, however my HOA does not allow any	
Residential Non-PIPP	sort of solar equipment. Very disappointing.	Mixed
	There should be more options available that provide incentives to customers	
	who stabilize their energy consumption. Dealing with fluctuating demand can	
	create a lot of wasted natural resources if the power company has to constantly	
	start and stop wind turbines in order to keep voltages regulated across the grid.	
	As an energy concious customer, I'm very interested in the benefits of things	
	such as the Tesla power walls; sometimes I'm using 10 amps, sometimes I'm	
	using 100. I believe that if there was an incentive (or more likely, a pentalty) for	
	me to not exceed a certain usage figure in a given day, that my bill should reflect	
	that. I would consider purchasing a power wall if that meant my steady 20-amp	
	usage throughout the day would lower my bill vs my wildly fluctuating	
	consumptionThis incentive or penalty could be accomplished by varying the	
	cost per kwh depending on the time of day or even like how a lot of commercial	
	or industrial billing occurs by taking peak usage into consideration Hopefully	
Residential Non-PIPP	that makes sense. Thanks.	Mixed
	There is a balance of developing renewable energy to make future	
	improvements with the costs associated to do so - there weren't any questions	
Residential Non-PIPP	regarding costs so I assumed price to consumer is negligible.	Mixed
	I think its a good idea, enviromentally speaking, but fear it will be used as an	
Residential Non-PIPP	excuse to raise an already high electric bill.	Mixed
Residential Non-PIPP	Assist users with adding home solar to add back to the grid	Mixed
Residential Non-PIPP	Nurture customer solar & net metering.	Mixed
Residential Non-PIPP	Let us add solar and sell excess power to AEP	Mixed
	I am personally researching solar panels. Does AEP have any resources to help	
Residential Non-PIPP	your customers with this choice.	Mixed
Residential Non-PIPP	I worry it will be very costly and AEP will pass those costs on to their customers.	Mixed
Nesidential Non-Fire		
nesidential Non-Fire	I get the impression that if a home owner gets a professionally installed and	
Nesidential NOILY IFF	I get the impression that if a home owner gets a professionally installed and certified solar or wind solution that they don't receive fair value for anything	
Nesidential Note: IFF		
Residential Non-PIPP	certified solar or wind solution that they don't receive fair value for anything they put into the grid if they net produce on any month. Green is Green, should	Mixed
	certified solar or wind solution that they don't receive fair value for anything	Mixed

		1
	If it is good for people, profit and planet, then it is sustainable. If this is just a	
	green initiative to "clean up the air" without a business plan, then it will fail. And	
	I don't mean subsidies and sky high rates, either. There is always an up-front	
	investmentmake it a bond issueor empower people to generate power on	
	their own land and sell it back to the gridthat is energy independence and	
Residential Non-PIPP	sustainability.	Mixed
	It would be ideal if solar energy could be past from one customer to another or	
Residential Non-PIPP	even allow the customer to rent or purchase solars units for power.	Mixed
	Cost to implement and operate should be equivalent or close to the existing	
Residential Non-PIPP	generation cost (to the customer).	Mixed
	I did not see solar as an option. Our local schools use solar. Rebates would be	
	good to help people afford solar energy at home that will further diversify the	
Residential Non-PIPP	energy supply.	Mixed
Residential Non-PIPP	Help make solar panels (for middle class) more affordable.	Mixed
	l'd like to see a clear and honest discussion of the costs and benefits. My	
	impression is that the costs would be substantial and the benefits illusory. I	
	understand that significant capex will increase AEP's rate base and profits,	
Residential Non-PIPP	but those are not the benefits l'm looking for.	Mixed
Residential Non-PIPP	Do it over time. Not all at once.	Mixed
Nesidential Non-FIFF	help people put up panels on roof tops and also by back what they dont use see	IVIIXEG
Residential Non-PIPP	others that have done this very sucussful	Mixed
nesidential Non-FIFF	others that have done this very sucussing	IVIIXEG
	Mould love to have solar panels on my home. If there was an effectable	
Residential Non-PIPP	Would love to have solar panels on my home. If there was an affordable	s atd
Residential Non-PIPP	program to make this happen, we would sign up immediately.	Mixed
	I would be very interested in having solar panels on my roof and in my	
	neighborhood to generate electricity locally. If I could afford the up front cost I	
Residential Non-PIPP	would have panels installed tomorrow.	Mixed
Residential Non-PIPP	What about consumer generated power?	Mixed
		•
	Solar energy produced on vacant sites that would otherwise be unused makes	
	sense, for example, landfills and rooftops. Wind power makes sense where there	
Residential Non-PIPP	is enough wind and does not create visual obstruction, noise and bird kills.	Mixed
	If a home owner installs solar panels do they get a discount or rebate on the cost	
Residential Non-PIPP	]	Mixed
Residential Non-PIPP	we shouldn't be gouged in pricing for using renewable energy	Mixed
Residential Non-PIPP	If you offer to install solar panels, I would be interested.	Mixed
	Service is more expensive than other options when you go direct through AEP, so	
Residential Non-PIPP	hope this is well intended & not a way to increase prices.	Mixed
	Excellent idea if it can be done gradually and in keeping with newer technology	
Residential Non-PIPP	to minimize any energy costs that would be passed on to consumer	Mixed
	The issue is not as simple as trading a coal plant for a wind farm because its	
	simply renewable. The focus should be on which source least damages the	
Residential Non-PIPP	environment taking into consideration all costs.	Mixed
	I feel that AEP should find ways to utilize renewable energy, but I am also a	
	realist. I know that these changes cannot happen overnight, and even with the	
Residential Non-PIPP	benefits of renewable energy, there are drawbacks	Mixed
	Concerned about the ability to store renewable energy since solar and wind	
Residential Non-PIPP	can't be relied upon 24/7.	Mixed
	Don't abandon nuclear	
Residential Non-PIPP		Mixed

Residential Non-PIPP	I still believe that a clean way to use coal should continue to be reserached	Mixed
	I am a retired chif engineer of a plastic products packaging company, and	
	recognize the need for cost effective power to our companies as well as the need	
Residential Non-PIPP	to improve our atmosphere reducing the greenhouse effect.	Mixed
	Produce clean renewable energy, do not leave garbage from its production.	
	Years ago I saw gas being burned off an oil well. I was told the gas was not worth	
	saving. As a child I thought this was stupid. Oil company left the site a nasty filthy	
Residential Non-PIPP	pit after removing the pumper.	Mixed
Residential Non-PIPP	keep the cost of electric down, use the most cost efficient means	Mixed
	I don't mind if AEP invest in these, but I do not want to bare the cost way of	, mod
	an increased bill for you to make your investment off of my dime. I'd rather	
Residential Non-PIPP	continue using the power I get now. Thank you	Mixed
	Only if it is economical to customers. There is plenty of NG and also nuclear	Mixed
Residential Non-PIPP	energy with the right controls and clean technology.	Mixed
residential Holl 1 II I	chergy with the right controls and clean teemboogy.	MIXEG
	Finding ways to utilize all varieties of energy; create new jobs for residents of	
Residential Non-PIPP	Ohio; and reduce what we're paying each month on our electric bills.	Mixed
ACSIGCIAGI NOTE ET	Renewable energy should be provided to businesses and consumers at no	MINEG
	additional cost. It's natural energy so no fees are necessary. Cost to convert	
	to these sources should be footed by AEP.	
	Additionally if a household uses less energy than others a rebate or credit	
Residential Non-PIPP	should be offered.	Mixed
Nesidelidal Noll-FIFF	Coal has served us well, no doubt. Wind and solar energy should continue to be	Iviixeu
Residential Non-PIPP	explored.	Mixed
Residential Non-Pipp	I really like that you are considering solar. It is a much better choice than wind	Ivnxea
Residential Non-PIPP	power.	Mixed
inesidential (ton-r ii i	power.	IVIIXEU
	Is it a good investment? How reliable is it? Don't just do something because its	
	politically correct. If its a viable source of energy and cost effective I am all for it.	
Residential Non-PIPP	If its not then don't. If you are going to do it keep those jobs in OHIO.	Mixed
Residential Non-PIPP	Don't raise prices just to be "green". It has to balance.	Mixed
residential non in i	bon craise prices just to be green . It has to balance.	Wiked
	Are the plans to take up lots of land to create huge solar fields/wind fields or to	
Residential Non-PIPP	potentially retrofit homes individually to prevent more deforestation?	Mixed
Residential Non-Fir-F	A partnership between AEP and owners of solar panels would be phenomenal. I	Mixed
	wouldn't want to compete with you, I'd want to work with you in achieving that	
Residential Non-PIPP	and I think other citizens would agree.	Mixed
Residential Non-Fit 1	I would put solar panels on my roof if I had someone I could trust to set it all up	IVIIAEU
Residential Non-PIPP	and ensure everything was done correctly.	Mixed
Residential (4011-1 II 1	and ensure everything was done correctly.	IVIIXEU
	While I agree with migrating coal to natural gas as coal plants obsolete, the	
	decision as to choice should be made solely in the interest of providing	
	customers with the lowest cost source. If solar and wind don't compete without	
Residential Non-PIPP	subsidies, then they are not ready for consideration	Mixed
Residential NUII-FIFF	I believe it is important to balance competitive costs/pricing while still making	IVIIXEG
	investments to manage long-term risks and advancing technology that	
	potentially positively impacts the environment, energy independence, and long-	
Residential Non-PIPP	term costs.	Mixed
Nesidential NUII-FIFF	Cost is a factor, since it should not be done for PR and politically correct reasons,	IVIIXEU
Recidential Non-DIDD		Mixed
Residential Non-PIPP Residential Non-PIPP	but only if practically expedient.  Cost vs Benefit	Mixed
·····	<u> </u>	Mixed
Residential Non-PIPP	Focus on cost effectiveness not PR or political correctness.	Mixed

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	I would like to see funding for clients of AEP to be supplied with reduced cost	
Residential Non-PIPP	application of wind and solar on their properties.	Mixed
	I don't want to do this just to say we're doing it. It should be cost-effective. It	
	should pay for itself, or else use other methods. Diversity is a reason to do it	
	that might require some added expense, but I believe innovation will bring about	
Residential Non-PIPP	the changes needed to drive investment in this arena. We don't need to force it.	Mixed
	I want the most efficient power generation possible. Paying more for politically	
Residential Non-PIPP	correct electricity generation does not interest me.	Mixed
	I would like to see encouragement (financially and technologically) of aep for	
	existing customers to supplement energy consumption with residential	
Residential Non-PIPP	production of energy through wind and solar.	Mixed
Residential Non-PIPP	If I could I would have solar power in my house	Mixed
	A sustainable model of power generation is needed. I also think that working	
	with municipalities and counties in Ohio on allowing residents to install solar and	
Residential Non-PIPP	associated battery systems (eg, Tesla home power) would be a great benefit.	Mixed
	I hope to be self sufficient one day. I installed a solar system on my house 5	
Residential Non-PIPP	months ago.	Mixed
	Protection of the local environment is important. We need to invest adequate	
	resources to ensure development is done carefully and responsibly. This is the	
	best compromise between those who want to expand energy development and	
Residential Non-PIPP	those who want to protect the environment.	Mixed
	With more solar panels being used by home owners. It would make sense for	
	AEP to make incentives to those home owners to use their unused energy. Or for	1
Residential Non-PIPP		Mixed
	I will happily look into investing in solar for our home if I know AEP will use any	:
Residential Non-PIPP	overage I store with solar energy.	Mixed
	maybe it would be ok,if it is efficient.i just don,t know how to answer these	
Residential Non-PIPP	questions.	Mixed
	Why are we not talking about water turbines? Even if it's on a smaller scale.	
Residential Non-PIPP	There's got to be a way to create power from the Ohio river.	Mixed
	I would be concerned if AEP's electricity rates increased as corporate earnings	
	increased while developing this renewable energy. Also, I am not interested in	
	burdening the costs of developing alternative energy for other customers around	
Residential Non-PIPP	the state.	Mixed
	If wind and solar were the economically superior sources of energy, AEP would	
Residential Non-PIPP	be using more of those resources already, wouldn't they?	Mixed
	I would to see a program where residents can purchase equipment for solar or	
Residential Non-PIPP	wind energy at a low cost.	Mixed
	If research and reality indicated it could be done efficiently and economically so	
Residential Non-PIPP	that there are no subsidies then go for it.	Mixed
	The free market, capitalism, innovation and competition should dictate the rate	
Residential Non-PIPP	of renewable energy acquisition.	Mixed
	There should be an investment in individual home owners generating solar	
Residential Non-PIPP	electricity and each adding their surplus to the grid.	Mixed
Residential Non-PIPP	Make it more accessible financially for households to have solar panels.	Mixed
	Do you have a program for wind or solar generated by the homeowner and feed	
Residential Non-PIPP	back into your network?	Mixed
	Nuclear power has less co2 emissions than coal, is more efficient than coal, wind,	
Residential Non-PIPP	and solar.	Mixed
Residential Non-PIPP	Support rooftop home solar	Mixed
Residential Non-PIPP	make virtual net metering available for community based solar	Mixed
Residential Non-PIPP	Provide solar installation incentives	Mixed
	<u> </u>	

	Allow credite for energy reporting from solar and wind when to divide the transfer.	
Desidential Nov. DIDD	Allow credits for energy generation from solar and wind when individuals install	A 4:
Residential Non-PIPP	solar panels.  If renewable energy is cheaper then using it is a great idea. Don't charge me	Mixed
	a higher rate based on you deciding to use a more expensive source of electricity	
Residential Non-PIPP	generation.	Mixed
Nesidential Non-Fire	You should organize a campaign to support and encourage home owners to	IVIIXEG
Residential Non-PIPP	contribute producing renewable energy.	Mixed
Nesidelitiai (VOII-i II I	contribute producing renewable energy.	Mixeu
	Would prefer the most economical resource be utilized not the most politically	
	correct. Windmills and hydroelectric have been available for a century yet not	
	utilized. Solar is expensive and trendy. Fear of being usurped by another utility	
	or group seems to be the driver of usage. Our rates should be taken into	
	consideration and "investments‶n unpredictable or more expensive	
Residential Non-PIPP	alternatives needs to be the driver not politically correct trendiness.	Mixed
Residential Non-PIPP	Should support homeowners placing solar panels on house	Mixed
	l'd like to know about how to get solar panels installed on my roof to	TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT
Residential Non-PIPP	cooperatively help the supply	Mixed
	Let's look at cost cost to supply, cost to maintain, cost to sustain. Let's do what	
Residential Non-PIPP	makes the most sens economically.	Mixed
	Develop the reliable renewable energy sources before shutting down the coal /	
	natural gas power plants. Wind and solar power generation is not at a stage to	
Residential Non-PIPP	replace current power plants - can only supplement current energy sources.	Mixed
	I would like the possibility to access to information from AEP and its affiliates to	
	gain knowledge on affordable options for home/residential solar and other	
Residential Non-PIPP	renewable energy solutions/services	Mixed
	What is generated in Ohio should be sold to Ohio: citizens, hospitals, industry.	
	We are or used to be the center of transportation. We could be that again. Our	
	population demands we be place in a higher level of national importance. Too	
	many people along the Ohio river are still in the poverty category, we need to	
	focus on job re-training to get them into entry level jobs in the energy sector as it	
Residential Non-PIPP	pertains to renewable generation operations.	Mixed
Residential Non-PIPP	should lower bills as plenty of return on your stock should cover investments	Mixed
	What opportunities are there for residents, like us, to utilize solar within suburb	
Residential Non-PIPP	neighborhoods?	Mixed
	Provide more incentive and make it easier for individual households to adopt	
Residential Non-PIPP	and participate (i.e. solar panels on the house, etc.)	Mixed
	I am all for renewable energy and all of the benefits that come from it, but as a	
	sole provider for my household I am not for it enough to see costs that are	
Residential Non-PIPP	passed on to the customers in the form of higher electric bills.	Mixed
	Look and see what mistakes or consequences that other companies and state	
Residential Non-PIPP	have made in the past. Don't be in a rush to get it out there.	Mixed
	It would be great if electric generation costs savings were passed to the	
	consumer.	_
Residential Non-PIPP		Mixed
Residential Non-PIPP	Help customers put solar panels up to help relieve current grid	Mixed
Residential Non-PIPP	Get energy where it's lowest cost.	Mixed
	Give better incentives for customers who want to install grid tied solar	
Residential Non-PIPP	generation on their roofs.	Mixed
n ()	AEP shut down 2 coal fired plants here. I'd like to see something built here in	
Residential Non-PIPP	Beverly, Ohio to replace the job losses	Mixed

Between wind and solar, wind is the better choice because the sun goes down	
· · · · · · · · · · · · · · · · · · ·	Mixed
	MINCO
	Mixed
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	Mixed
	MINCO
	Mixed
	IAIVER
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	IVIIXEU
· · · · · · · · · · · · · · · · · · ·	Mixed
sources.	Iviixed
it must justify the cost not be a government funded, they have funded assists	Mixed
	<del>{</del>
Put Solar Voltaic Cells on my nouse.	Mixed
	<b>A 3 1 1 1 1 1 1 1 1 1 1</b>
Cost is important when deciding to increase the amount of renewal energy.	Mixed
	Mixed
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way to live with them. That is also important to me. Consider their right to exist	
as well.	Mixed
If it will help save my household money, I am all for it.	Mixed
Would love a program to help individual consumers to obtain privat renewable	
energy. I e solar panels or wind turbine	Mixed
what do you do when the wind doesn't blow and at night and when there is	
cloud cover? Is there any potential in geothermal?	Mixed
Please make it easier to select renewable energy and energy efficiency as choices	
through AEP. Explain how the bill works through education efforts and what	
each portion of the consumer's bill goes to cover.	Mixed
Cost comparison existing versus proposed renewable.	Mixed
No need to push renewables. Keep the generation playing field level. Lowest cost	
generation first.	Mixed
I am in favor of solar panels on roofs of houses	Mixed
Do you offer renewable energy as an option for home use?	Mixed
Help customers go off the grid - allow them to opt in as needed - especially if	
	Mixed
I'd like for are cost, the customer to go down if your use renewable sources,	
- Table 1 - Tabl	Mixed
Canaidar the faceibility of retrafitting existing dams with hydroelectric generating	
(COUSIDEL THE REGIDINAL OF LEFT OUTTING EXISTING AGUID MITH HAM DEJECTIVE SELLET ATTING	
Consider the feasibility of retrofitting existing dams with hydroelectric generating assets. Floating solar panels might be worth investigating also.	1
assets. Floating solar panels might be worth investigating also.	Mixed
	1
	Put Solar voltaic cells on my house.  Cost is important when deciding to increase the amount of renewal energy.  You pay for it yourself. You have fleeced your customers enough as it is. How about you do the right thing and treat your customers as partners. Customers benefit by reducing their expenses, and you benefit because customers are happier. Don't worry, you will still make enough money to survive.  It is important to understand the impact on ecology as well as economy. If our use of resources tramples on the rights of animals then we must find another way to live with them. That is also important to me. Consider their right to exist as well.  If it will help save my household money, I am all for it.  Would love a program to help individual consumers to obtain privat renewable energy. I e solar panels or wind turbine  what do you do when the wind doesn't blow and at night and when there is cloud cover? Is there any potential in geothermal?  Please make it easier to select renewable energy and energy efficiency as choices through AEP. Explain how the bill works through education efforts and what each portion of the consumer's bill goes to cover.  Cost comparison existing versus proposed renewable.  No need to push renewables. Keep the generation playing field level. Lowest cost generation first.  I am in favor of solar panels on roofs of houses  Do you offer renewable energy as an option for home use?  Help customers go off the grid - allow them to opt in as needed - especially if they can produce excess energy that can be sold back to AEP

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		T
	If renewables can provide power at equal or lower cost than we pay today, that	
o ti valsta pipo	is fine. If other power sources will increase the cost of electricity than I would	
Residential Non-PIPP	not be interested.	Mixed
n et water- ninn	I'd like to see options for solar roofs paid off by generating and supplying	
Residential Non-PIPP	electricity back to AEP.	Mixed
n DIDD	In general, reduction of dependency on foreign energy sources is positive; the	
Residential Non-PIPP	initiatives need to be cost-effective.	Mixed
Residential Non-PIPP	Renewable energy should not harm the earth.	Mixed
	Only make the investment if it will save consumers money in obtaining their	
	electricity. I'm not interested in proving up industries that can't survive in	
	a free market. Contact me if the reader is not familiar with a free market, I know	
	many seem to be more and more with the concept, just kidding. Thanks for the	
Residential Non-PIPP	opportunity to provide feedback.	Mixed
Nesidential Hon-ini	I WOULD LIKE HELP SETTING UP SOLAR PANELS AT MY HOUSE. I ALSO NEED	Mixeu
Residential Non-PIPP	HELP WITH SETTING UP A CHARGING STATION FOR AN EV.	Mixed
nesidentia i i i i i i	THE WITH SETTING OF A GRANGING STATION FOR ALL CV.	MINEG
Residential Non-PIPP	I am all for solar renewable energy. The wind farms however, I do not support.	Mixed
	If AEP is picking a technology, then solar within Ohio or within our electricity	
	market (PJM) would be good.	
	However, leveling the playing field across electricity generation technologies by	
	properly pricing carbon emissions (and other pollutants) via a tax or cap-and-	
	trade regime would be preferred. Market-based mechanisms are best economic	l
Residential Non-PIPP	policies to yield the desired benefits at the lowest total cost.	Mixed
n et a lat ninn	As older methods of electricity generation deteriorate they should be replaced	
Residential Non-PIPP	with renewable sources.	Mixed
	Window Colon and mark scale book how we will be seen a first the seen and the seen	
	Wind and Solar are great goals but they require huge amounts of land and	
	endanger hundreds of thousands of birds. There simply is not enough land to	
	satisfy our energy needs with Wind and land based Solar. While Solar and Wind	
	generation should be increased two other sources should be developed that too	
	many "loud" people have shouted down, These are nuclear power with the	
	newer safer designed reactors and microwave power from solar collecting	
	satellites. Both the later two are achievable if someone puts the effort and	
	dollars into it now in parallel with Solar and Wind. Too much of the direction of	
nt-tt-l Non DIDD	future energy decisions is being driven by politics & PC'ism rather than science	B. Att
Residential Non-PIPP	and economics.	Mixed
	I am not interested in seeing whatever AEP decides to do costs me more money.	
Danidantial Man DIDD	If solar panels are installed to bring renewable energy it should also cost less to	6 d i
Residential Non-PIPP	the consumer.	Mixed
Residential Non-PIPP	Offer solar rooftop package to customers  While expanding/developing renewable energy sources, it is extremely	Mixed
Residential Non-PIPP		Missad
residential Mon-PIPP	important that it is also cost saving to the consumer.  Use local labor in the state of ohio.if using solar or wind try utilizing southeastern	Mixed
Residential Non-PIPP	obio for all three.	Mixed
ACADED MENURITIES		IIVIIXEU
TODIC TITLE		
	I've looked several times into installing solar panels on my home, but the cost is	
	I've looked several times into installing solar panels on my home, but the cost is still too restrictive. Would very much support your development of clean energy	
	I've looked several times into installing solar panels on my home, but the cost is	
Residential Non-PIPP	I've looked several times into installing solar panels on my home, but the cost is still too restrictive. Would very much support your development of clean energy	Mixed
	I've looked several times into installing solar panels on my home, but the cost is still too restrictive. Would very much support your development of clean energy resources.	
Residentia <mark>l Non-PIPP</mark>	I've looked several times into installing solar panels on my home, but the cost is still too restrictive. Would very much support your development of clean energy resources.  I'm all for renewable energy, but I think I feel like most people, It's good as long	Mixed Mixed

<u> </u>	Sounds good , but it's not wise. without a strong nuke component to any	
Residential Non-PIPP	renewable plan, it's doomed to failure	Mixed
Residential Non-Fire	Are you also using water power as a source? I'm glad to know that you are	Wilked
Residential Non-PIPP	moving in the direction of renewable energy.	Mixed
Residential Non-PIPP	Please develop those that also make economic sense	Mixed
nesidential Non i ii i	Fleade develop those that also make economic sense	IVIACU
	I'm good with this pursuit but I'm concerned that it will increase rates. I want low	
Residential Non-PIPP	prices. I am ok with renewable energy. Those are my priorities. :)	Mixed
nesidendal Non Till	prices. Further with reflewable charge, most are my provides.	MACG
Residential Non-PIPP	It should be cost effective i.e. be expected not to cause an increase in rates.	Mixed
Residential Non-PIPP	If it helps to lower my bills, by all means invest.	Mixed
	If AEP is seeking to change to renewable energy, It's very important that those	
	working in the Gallopolis area be offered jobs there, because this community is	
	coal country, & if jobs are moved elsewhere, this whole community could shut	
Residential Non-PIPP	down, & people around here are struggling so much as it is.	Mixed
Residential Non-PIPP	You should buy back power even past the zero amount.	Mixed
Theoria (Tott ) ii i	AEP should pay for their own investments and not expect the customer to pay	
Residential Non-PIPP	more for renewable green energy that cost less to produce.	Mixed
	6,000	
	I would love to see a drop in price for consumer-friendly solar power. A	
	neighborhood or county commitment to purchasing solar powered equipment	
Residential Non-PIPP	might lower the price enough to get a majority to agree to installing it.	Mixed
Residential Non-PIPP	make sure the method is financially feasible	Mixed
nesidential Non-1 in	My husband works for an Ohio based solar design and installation firm, ARP-	Winco
	solar, and if AEP doesn't step up their game, ARP-solar will take over renewable	
Residential Non-PIPP	energy generation in Ohio - one roof at a time.	Mixed
Residential Non-Fire	Windmill farms are killing birds! They are ugly monstrosities! I don't believe that	Wiked
	we need windmill farms cluttering our farmland! / I have no problem with solar	
Residential Non-PIPP	power!	Mixed
nesidential Non-Fire	I would love to see this happen - but is the cost going to be paid by us, the	Wincu
Residential Non-PIPP	consumers??	Mixed
The state that the training	Consumers:	IVIACU
	Solar and wind takes land which is required to supports Ohio's agriculture. If	
	wind turbines or solar panels would not disrupt our forests or wildlife then 1	
	support AEP's endeavor however, as I consumer I would want this concern	
Residential Non-PIPP	addressed. I'm 100% in favor of nuclear energy.	Mixed
Residential Non-FIFF	I don't believe the quality of service should suffer due to this venture.	MINEG
	Additionally, the current price of power needs to remain the same with AEP	
	providing the capital to fund the venture with which they will profit. This is not a	
Residential Non-PIPP	cost that needs to be passed to the consumer.	Mixed
Nesidential Non-Fire	cost that needs to be passed to the consumer.	MINCO
	Renewable energy sources have to be cost effective compared with other	
	conventional sources. If that can be done in Ohio, then locate them in Ohio. If	
Desidential Non DIDD	they are better suited for other states, then locate them there.	Mixed
Residential Non-PIPP Residential Non-PIPP	only if it will reduce costs to customer	Mixed
nesidenda Non-rirr	I do not know enough about it. We need to make sure that this is NOT overly	ITTIACU
	expensive. A small premium provided that this is used for investment and	
	making the renewable energy more efficient is realistic. However, this should not	
Residential Non-PIPP	be corporate greed.	Mixed
Residential Non-PIPP	It shouldn't raise our electric bill's.	Mixed
nesideritiai NON-PIPP	pt shouldn't raise our electric Dill's.	IVIIAEU
7	late a good idea and the right thing to de but not at a higher part to the sustance	
Desidential New DIDD	It's a good idea and the right thing to do but not at a higher cost to the customer	Mirrod
Residential Non-PIPP	as Aep like all other utilities companies profit and price gouge to the extreme.	Mixed

	I support cost neutral development. I do not rate increases for renewable	
Residential Non-PIPP	energy. We pay more than enough already.	Mixed
Nesidential Mon-1 ii i	Development of renewable energy should be done in a cost effective manner	IVIIXEG
Residential Non-PIPP	with the end cost to consumers a priority	Mixed
TRESTITUTE TO THE TREE TREE TO THE TREE TREE TREE TREE TREE TREE TREE	Create a solar program that is easy to understand, helps the consumer and helps	mined
Residential Non-PIPP	you. /	Mixed
	Please do not start using more free resources and then turn around and charge	
Residential Non-PIPP	us more, using solar and wind should make our bills cheaper not more expensive	Mixed
	Can I rent my roof to AEP to install solar panels the utility can use to generate	
Residential Non-PIPP	electricity for the city?	Mixed
	Don't waste our money on renewable sources that the ROI isn't profitable and	
Residential Non-PIPP	requires Federal dollars to subsidize.	Mixed
	It will be ok if it's affordable poor people can't afford huge prices I can't buy my	
	groceries now until my utility bills come in it's not a very good feeling to not be	
Residential Non-PIPP	able to eat until your utilities are paid first	Mixed
	Great if you can manage it, but I don't want to pay significantly more for it.	
Residential Non-PIPP	(Some premium is probably unavoidable; double? Not okay).	Mixed
Residential Non-PIPP	The cost should be less than now.	Mixed
	Im interested in expanding our green eneegy but think the additional cost needs	
	to be considered carefully. Currently many electric bills are unreasonable putting	
Residential Non-PIPP	hardship on your customers	Mixed
	The technology has been available for many years. AEP deliberately fights and	
	charges people for using renewable energy. I live in poverty and get charged an	
	arm and a leg for energy costs. I honestly don't believe AEP gives a what we	
Davidontial Nam DIDD	think, other that how can they gain knowledge to destroy the renewable energy movement.	N dissourced
Residential Non-PIPP	movement. OFF I'm all for renewable energy. But a landscape of windmills in Ohio doesn't excite	Mixed
Residential Non-PIPP	me. But not opposed to a few. Solar would seem better.	Mixed
Residential Non-Fire	Only if it makes electricity cheaper. Don't increase my bill to make someone feel	Mixed
Residential Non-PIPP	good.	Mixed
Residential Non-PIPP	I would like to see solar programs available for individual homes	Mixed
	I am opposed to wind powered energy and fracking for renewable resources.	
	Wind Power is not nearly as efficient as solar and it blights the surrounding areas	
Residential Non-PIPP	with it's intrusiveness to the landscape	Mixed
Residential Non-PIPP	Would like info about installation on my house	Mixed
	AEP should not force its coustomers to pay for its upgrades and investments.	
Residential Non-PIPP	AEP CORP.	Mixed
	I would like to see AEP providing an option to install solar panels on roofs of	
	homes to help reduce electric costs. Not only would this help the customer, AEP	
Residential Non-PIPP	would also benefit.	Mixed
	Why not generate at each house instead of centrally? AEP would be main	
	supplier through coal, gas, and nuclear. Each household would reduce needs	
Residential Non-PIPP	from AEP.	Mixed
	Offer options to which rental customers can take advantage. Provide reasons for	<b> </b>
Residential Non-PIPP	landlords to install renewable sources, such as solar roof tiles.	Mixed
Desidential New DICC	I would hope this effort would reduce energy costs to the consumer and not	0.45-read
Residential Non-PIPP	raise them.	Mixed
	Need less emphasis on profit to AEP and more money, research, resources put	
Residential Non-PIPP	into making renewable energy available to everyone - so we are no longer at the mercy of giant power companies.	Mixed
Residential Moll-LIES	I would like to see a program to install renewable energy resources at a local	IVIIAEU
	level. An example would be to have AEP Ohio install solar panels on the roof of a	
Residential Non-PIPP	residence.	Mixed

	I (C. L	I
	offer homeowners the option of adding AEP Ohio Solar panels to reduce energy	
	bills by allowing the consumer to participate in the energy diversification	
Residential Non-PIPP	production	Mixed
Residential Non-PIPP	Do not do anything that is not already economical without government subsidy.	Mixed
	AEP's only investment into renewable energy should be to offer credits/rebates	
	· ·	
	to customers for them to purchase solar panels for their own property. Each	
Desidential New DIDD	customer should have their own choice regarding renewables and NOT be forced	Mixed
Residential Non-PIPP	into it by having their rates increased due to the online opinions of others.	
Residential Non-PIPP	Hopefully that would bring cost down for electricity /	Mixed
	If embarking on the development of renewable energy will cause electric bills to	
	escalate, then I do not support it. Have your CEO and other administrators pay	
Residential Non-PIPP	for this development out of their enormous salaries.	Mixed
Residential Non-PIPP	Hopefully this will reduce the amount of our bills each month.	Mixed
Residential Non-PIPP	noperally this will reduce the amount of our bins each month.	Mixed
Residential Non-PIPP	We want renewable energy to be employed. But want our costs to stay down.	Mixed
	Develop sources other than coal and nuclear when these sources are	
Residential Non-PIPP	economically too expensive	Mixed
Residential Non-PIPP	Only if it makes it cheaper to the end user	Mixed
	AEP needs to focus on energy and the right mix of reliable sources. It should	
	investigate alternative sources without regard to politics, tax policy and the	
Residential Non-PIPP	whims of the electorate.	Mixed
	Lets make the bills more reasonableuse our system and solar panels, help	
Residential Non-PIPP	the people to know how to use them, help the little peoplenot the rich	Mixed
	Diversifying into alternate energy sources should be a priority. Wind Turbine,	
	Solar, Water generated ways all provide so many less permanent detriments to	
	our overall environment. Finite sources of energy production, like coal, will not	
	always be available. Even investment into renewable methane sources should be	
Residential Non-PIPP	an option kept on the table.	Mixed
	Please continue to provide the lowest cost, most efficient energy. Politically	
	correct goals that are not economically sound investments do not benefit your	
	customers. As renewable energy becomes economically competitive with other	
Residential Non-PIPP	sources, then absolutely make those investments.	Mixed
	Ohio's climate not be the best for solar (too many cloudy days), but there are	
	plenty of open fields that could be used for wind. Assuming the property owners	
Residential Non-PIPP	are appropriately compensated.	Mixed
Residential Non-PIPP	worth exploring	Mixed
	AEP is a huge profitable company. Why must I fund AEP regardless of how little	
	the monthly increase in bill considering in order for ME to go solar I HAVE to	
	fund it myself? Use some of YOUR profit to fund renewable energy instead of	
	keeping your bottom line the same by reducing my income by increasing my	
Residential Non-PIPP	bills.	Mixed
	Whatever avenues AEP chooses, they must be cost effective and while I know	[
	the start up cost would be high the cost of the new cannot raise the rates to the	
	consumer. If your profit margin increases without we the consumers rates	
	holding steady, or, like a snowball's chance in hell, our bills drop, you will not get	
Residential Non-PIPP	support from the consumers.	Mixed

	maybe providing solar as an option at customer premises would work as well.	
	whatever they don't use goes back on the grid and in the event of natural	
	disasters they would maintain power . If you had several customers in every	
	neighborhood that had solar this would help keep your power grid stable a small	
	investment for your company for a huge investment in to customers. Just my	
Residential Non-PIPP	humble opinion.	Mixed
	I prefer that AEP focuses on solar energy development and expansion. Wind	
Residential Non-PIPP	generated power units often interfere and kill/injure wildlife fowl.	Mixed
Residential Non-PIPP	Get municipalities to allow solar panels for individuals use.	Mixed
	need more long term tax incentives for developers and independent owners of	
	office, industrial or retail to add solar or wind power as alternative sources of	
Residential Non-PIPP	energy.	Mixed
	This is all dependent on the cost to customers. While I personally would pay a	
Residential Non-PIPP	bit more, it has to be affordable.	Mixed
	If solar power were less expensive to install, ie affordable at working class	
Residential Non-PIPP	income, use would increase quickly.	Mixed
Residential Non-PIPP	it should be cost effective	Mixed
	I would like to see more solar than wind generated energy. If wind energy is	
	used, it must be located so as to not adversely impact bird migration and nesting	
Residential Non-PIPP	areas.	l Mixed
nestuendat Noll-Fire	in my previous state our energy provider gave deep discounts and rebates for	IVIIACU
	homes that added solar panels and had them setup to collect the energy back	
	into the grid. I have been here a year now and have never heard of such a thing	
	from AEP. So either you have it and don't advertise it or you don't have this kind	
Residential Non-PIPP	of program setup.	Mixed
·····		
Residential Non-PIPP	Consider nuclear energy generation	Mixed
Residential Non-PIPP		Mixed
	How can we answer when you have not told us what the cost will be to us?	
Residential Non-PIPP Residential Non-PIPP		Mixed Mixed
	How can we answer when you have not told us what the cost will be to us? everything should have a cost/benefit component which you are not sharing.	
	How can we answer when you have not told us what the cost will be to us? everything should have a cost/benefit component which you are not sharing.  While I see value in investing in renewable resources, I would have to point out	
	How can we answer when you have not told us what the cost will be to us? everything should have a cost/benefit component which you are not sharing.  While I see value in investing in renewable resources, I would have to point out that to most consumers, they would rather focus on lower energy bills since the	
	How can we answer when you have not told us what the cost will be to us? everything should have a cost/benefit component which you are not sharing.  While I see value in investing in renewable resources, I would have to point out that to most consumers, they would rather focus on lower energy bills since the cost of energy rises at a consistent basis, the idea of investing means higher	
	How can we answer when you have not told us what the cost will be to us? everything should have a cost/benefit component which you are not sharing.  While I see value in investing in renewable resources, I would have to point out that to most consumers, they would rather focus on lower energy bills since the cost of energy rises at a consistent basis, the idea of investing means higher consumer cost. If it can be done at a level that is as cost effective as	
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	How can we answer when you have not told us what the cost will be to us? everything should have a cost/benefit component which you are not sharing.  While I see value in investing in renewable resources, I would have to point out that to most consumers, they would rather focus on lower energy bills since the cost of energy rises at a consistent basis, the idea of investing means higher consumer cost. If it can be done at a level that is as cost effective as nonrenewable resources or even if it cost only a little higher, then I would see the value of a cleaner safer fuel for our electricity. thank you!	
Residential Non-PIPP	How can we answer when you have not told us what the cost will be to us? everything should have a cost/benefit component which you are not sharing.  While I see value in investing in renewable resources, I would have to point out that to most consumers, they would rather focus on lower energy bills since the cost of energy rises at a consistent basis, the idea of investing means higher consumer cost. If it can be done at a level that is as cost effective as nonrenewable resources or even if it cost only a little higher, then I would see	Mixed
Residential Non-PIPP	How can we answer when you have not told us what the cost will be to us? everything should have a cost/benefit component which you are not sharing.  While I see value in investing in renewable resources, I would have to point out that to most consumers, they would rather focus on lower energy bills since the cost of energy rises at a consistent basis, the idea of investing means higher consumer cost. If it can be done at a level that is as cost effective as nonrenewable resources or even if it cost only a little higher, then I would see the value of a cleaner safer fuel for our electricity. thank you!	Mixed
Residential Non-PIPP  Residential Non-PIPP  Residential Non-PIPP	How can we answer when you have not told us what the cost will be to us? everything should have a cost/benefit component which you are not sharing.  While I see value in investing in renewable resources, I would have to point out that to most consumers, they would rather focus on lower energy bills since the cost of energy rises at a consistent basis, the idea of investing means higher consumer cost. If it can be done at a level that is as cost effective as nonrenewable resources or even if it cost only a little higher, then I would see the value of a cleaner safer fuel for our electricity. thank you!  Converting to solar and wind energy sounds good, but not if it increases consumer costs.	Mixed Mixed
Residential Non-PIPP  Residential Non-PIPP  Residential Non-PIPP  Residential Non-PIPP	How can we answer when you have not told us what the cost will be to us? everything should have a cost/benefit component which you are not sharing.  While I see value in investing in renewable resources, I would have to point out that to most consumers, they would rather focus on lower energy bills since the cost of energy rises at a consistent basis, the idea of investing means higher consumer cost. If it can be done at a level that is as cost effective as nonrenewable resources or even if it cost only a little higher, then I would see the value of a cleaner safer fuel for our electricity. thank you!  Converting to solar and wind energy sounds good, but not if it increases consumer costs.  Many customers would participate in solar panels if they were more affordable.	Mixed Mixed Mixed Mixed
Residential Non-PIPP  Residential Non-PIPP  Residential Non-PIPP	How can we answer when you have not told us what the cost will be to us? everything should have a cost/benefit component which you are not sharing.  While I see value in investing in renewable resources, I would have to point out that to most consumers, they would rather focus on lower energy bills since the cost of energy rises at a consistent basis, the idea of investing means higher consumer cost. If it can be done at a level that is as cost effective as nonrenewable resources or even if it cost only a little higher, then I would see the value of a cleaner safer fuel for our electricity. thank you!  Converting to solar and wind energy sounds good, but not if it increases consumer costs.  Many customers would participate in solar panels if they were more affordable.  Doesn't windmills kill birds	Mixed Mixed
Residential Non-PIPP  Residential Non-PIPP  Residential Non-PIPP  Residential Non-PIPP  Residential Non-PIPP	How can we answer when you have not told us what the cost will be to us? everything should have a cost/benefit component which you are not sharing.  While I see value in investing in renewable resources, I would have to point out that to most consumers, they would rather focus on lower energy bills since the cost of energy rises at a consistent basis, the idea of investing means higher consumer cost. If it can be done at a level that is as cost effective as nonrenewable resources or even if it cost only a little higher, then I would see the value of a cleaner safer fuel for our electricity. thank you!  Converting to solar and wind energy sounds good, but not if it increases consumer costs.  Many customers would participate in solar panels if they were more affordable.  Doesn't windmills kill birds  I like the thought of renewable energy but I don't want it to take away the jobs	Mixed Mixed Mixed Mixed
Residential Non-PIPP  Residential Non-PIPP  Residential Non-PIPP  Residential Non-PIPP	How can we answer when you have not told us what the cost will be to us? everything should have a cost/benefit component which you are not sharing.  While I see value in investing in renewable resources, I would have to point out that to most consumers, they would rather focus on lower energy bills since the cost of energy rises at a consistent basis, the idea of investing means higher consumer cost. If it can be done at a level that is as cost effective as nonrenewable resources or even if it cost only a little higher, then I would see the value of a cleaner safer fuel for our electricity. thank you!  Converting to solar and wind energy sounds good, but not if it increases consumer costs.  Many customers would participate in solar panels if they were more affordable.  Doesn't windmills kill birds  I like the thought of renewable energy but I don't want it to take away the jobs people depend on such as coal miners	Mixed Mixed Mixed Mixed
Residential Non-PIPP  Residential Non-PIPP  Residential Non-PIPP  Residential Non-PIPP  Residential Non-PIPP	How can we answer when you have not told us what the cost will be to us? everything should have a cost/benefit component which you are not sharing.  While I see value in investing in renewable resources, I would have to point out that to most consumers, they would rather focus on lower energy bills since the cost of energy rises at a consistent basis, the idea of investing means higher consumer cost. If it can be done at a level that is as cost effective as nonrenewable resources or even if it cost only a little higher, then I would see the value of a cleaner safer fuel for our electricity. thank you!  Converting to solar and wind energy sounds good, but not if it increases consumer costs.  Many customers would participate in solar panels if they were more affordable.  Doesn't windmills kill birds  I like the thought of renewable energy but I don't want it to take away the jobs people depend on such as coal miners  Just because it's a renewable energy source, does not mean that the consumer	Mixed Mixed Mixed Mixed Mixed
Residential Non-PIPP  Residential Non-PIPP  Residential Non-PIPP  Residential Non-PIPP  Residential Non-PIPP	How can we answer when you have not told us what the cost will be to us? everything should have a cost/benefit component which you are not sharing.  While I see value in investing in renewable resources, I would have to point out that to most consumers, they would rather focus on lower energy bills since the cost of energy rises at a consistent basis, the idea of investing means higher consumer cost. If it can be done at a level that is as cost effective as nonrenewable resources or even if it cost only a little higher, then I would see the value of a cleaner safer fuel for our electricity. thank you!  Converting to solar and wind energy sounds good, but not if it increases consumer costs.  Many customers would participate in solar panels if they were more affordable.  Doesn't windmills kill birds  I like the thought of renewable energy but I don't want it to take away the jobs people depend on such as coal miners	Mixed Mixed Mixed Mixed Mixed
Residential Non-PIPP  Residential Non-PIPP  Residential Non-PIPP  Residential Non-PIPP  Residential Non-PIPP  Residential Non-PIPP	How can we answer when you have not told us what the cost will be to us? everything should have a cost/benefit component which you are not sharing.  While I see value in investing in renewable resources, I would have to point out that to most consumers, they would rather focus on lower energy bills since the cost of energy rises at a consistent basis, the idea of investing means higher consumer cost. If it can be done at a level that is as cost effective as nonrenewable resources or even if it cost only a little higher, then I would see the value of a cleaner safer fuel for our electricity. thank you!  Converting to solar and wind energy sounds good, but not if it increases consumer costs.  Many customers would participate in solar panels if they were more affordable.  Doesn't windmills kill birds  I like the thought of renewable energy but I don't want it to take away the jobs people depend on such as coal miners  Just because it's a renewable energy source, does not mean that the consumer should pay more for it.  I do not want an increase of my bill because of renewable energy	Mixed Mixed Mixed Mixed Mixed Mixed
Residential Non-PIPP  Residential Non-PIPP  Residential Non-PIPP  Residential Non-PIPP  Residential Non-PIPP  Residential Non-PIPP  Residential Non-PIPP	How can we answer when you have not told us what the cost will be to us? everything should have a cost/benefit component which you are not sharing.  While I see value in investing in renewable resources, I would have to point out that to most consumers, they would rather focus on lower energy bills since the cost of energy rises at a consistent basis, the idea of investing means higher consumer cost. If it can be done at a level that is as cost effective as nonrenewable resources or even if it cost only a little higher, then I would see the value of a cleaner safer fuel for our electricity. thank you!  Converting to solar and wind energy sounds good, but not if it increases consumer costs.  Many customers would participate in solar panels if they were more affordable.  Doesn't windmills kill birds  I like the thought of renewable energy but I don't want it to take away the jobs people depend on such as coal miners  Just because it's a renewable energy source, does not mean that the consumer should pay more for it.	Mixed Mixed Mixed Mixed Mixed Mixed Mixed Mixed
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Residential Non-PIPP  Residential Non-PIPP  Residential Non-PIPP  Residential Non-PIPP  Residential Non-PIPP  Residential Non-PIPP  Residential Non-PIPP  Residential Non-PIPP  Residential Non-PIPP	How can we answer when you have not told us what the cost will be to us? everything should have a cost/benefit component which you are not sharing.  While I see value in investing in renewable resources, I would have to point out that to most consumers, they would rather focus on lower energy bills since the cost of energy rises at a consistent basis, the idea of investing means higher consumer cost. If it can be done at a level that is as cost effective as nonrenewable resources or even if it cost only a little higher, then I would see the value of a cleaner safer fuel for our electricity. thank you!  Converting to solar and wind energy sounds good, but not if it increases consumer costs.  Many customers would participate in solar panels if they were more affordable.  Doesn't windmills kill birds  I like the thought of renewable energy but I don't want it to take away the jobs people depend on such as coal miners  Just because it's a renewable energy source, does not mean that the consumer should pay more for it.  I do not want an increase of my bill because of renewable energy  I think a company should use their profits to improve or update their equipment and not the customers. Stop the MONOPOLY.  I support renewable energy, but have a concern about wind energy. If you are developing this, you must be responsive to those who do not want wind farms	Mixed Mixed Mixed Mixed Mixed Mixed Mixed Mixed Mixed Mixed
Residential Non-PIPP  Residential Non-PIPP  Residential Non-PIPP  Residential Non-PIPP  Residential Non-PIPP  Residential Non-PIPP  Residential Non-PIPP  Residential Non-PIPP  Residential Non-PIPP	How can we answer when you have not told us what the cost will be to us? everything should have a cost/benefit component which you are not sharing.  While I see value in investing in renewable resources, I would have to point out that to most consumers, they would rather focus on lower energy bills since the cost of energy rises at a consistent basis, the idea of investing means higher consumer cost. If it can be done at a level that is as cost effective as nonrenewable resources or even if it cost only a little higher, then I would see the value of a cleaner safer fuel for our electricity. thank you!  Converting to solar and wind energy sounds good, but not if it increases consumer costs.  Many customers would participate in solar panels if they were more affordable.  Doesn't windmills kill birds  I like the thought of renewable energy but I don't want it to take away the jobs people depend on such as coal miners  Just because it's a renewable energy source, does not mean that the consumer should pay more for it.  I do not want an increase of my bill because of renewable energy  I think a company should use their profits to improve or update their equipment and not the customers. Stop the MONOPOLY.	Mixed Mixed Mixed Mixed Mixed Mixed Mixed Mixed Mixed Mixed

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	Important to keep jobs in ohio - but renewable sources can take up much land	
	and hurt wildlife - so using energy farm in Nevada may be better than Ohio -	l
Residential Non-PIPP	Keeps from infringing on too much nature.	Mixed
	Just need something that, even if has some upfront investment, that is low	
Residential Non-PIPP	maintenance and cheaper for customers in the long run	Mixed
	Renewables are very inefficient and expensive they drive up the cost of my	
Residential Non-PIPP	electricity. They cannot stand alone in the market. It's all politically correct	Negative
Residential Non-PIPP	Stop wasting our money on green boondoggles.	Negative
	I DO NOT want to pay for higher cost unreliable electricity so that some	
	environmentalists can sleep at night. These folks are not even AEP customers	
Residential Non-PIPP	who want renewables, let them pay extra.	Negative
Residential Non-PIPP	Don't bother with it until the technology becomes more efficient.	Negative
Residential Non-PIPP	This is a bad idea.	Negative
Residential Non-PIPP	I believe renewables increase the price of electricity.	Negative
	solar is not cost effective, equipment wears out before it's pays for itself.	
	It should be used only when when practicle. You cost to the customer is already	
Residential Non-PIPP	to high due to you construction choices.	Negative
Residential Non-PIPP	Put that money into client service	Negative
Residential Non-PIPP	Dont do it. I want cheaper bills	Negative
nestaentia non non	I want AEP to produce power using the most economical and reliable sources	i i o gative
	available. At this time, I do not believe renewables provide the most reliable or	
Residential Non-PIPP	the most economical power available.	Negative
nesidential Non Tit	I'm sure some how this is going to cost the consumer big \$\$\$. AEP rips off its	Negative
Residential Non-PIPP	Customers on a daily.	Negative Negative
Residential Non-PIPP	If it costs more, don't do it. We have plenty of resources.	Negative
Residential Non File	in the costs more, don't do it. We have plenty or resources.	Negative
Residential Non-PIPP	Why don't you invest in buried lines. Upgrade the line infrastructure first!	Negative
	I don't expect your company to do anything right. Let's call it like it is. You aren't	
	interested in doing anything but taking money from your customers. We are one	
	good thinderstorm away from not having power for weeks because you people	
	won't upgrade your systems. Stop acting like you care about anything. You care	
Residential Non-PIPP	about money. That's it. Nothing else.	Negative
	We are strongly opposed to wind energy as wind turbines have been shown to	
	have detrimental health effects on people and animals including decreased	
	quality of life, annoyance, stress, sleep disturbance, headache, anxiety,	
	depression, and cognitive dysfunction. Suggested causes of symptoms include a	
	combination of wind turbine noise, infrasound, "dirty electricity", ground current	
	and shadow flicker. Don't give in to the politically correct nonsense that wind	
Residential Non-PIPP	energy is any kind of viable alternative to fossil fuels.	Nogativo
Residential Non-PIPP		Negative Negative
Residential Non-Fiff	The wind turbines are ugly.  I'm ok with coal, gas, and nuclear as well, as long as measures are taken to	inegative
Residential Non-PIPP	minimize environmental impact.	Negative
nesidendar Noll-PIPP	енинимие енунопиненкая пираск.	
	Windmills and solar are not cost efficient, they take up valuable land and are an	
Residential Non-PIPP	eyesore especially the windmills. Ohio is not a good location for either	Negative
nesidential Non-PIPP		Negative
	There needs to be a push for cleaner on-demand energy supplies (i.e. nuclear) to	
Residential Non-PIPP	supplement the times when the renewable sources do not produce sufficient	Negativo
nesidentiai Non-PIPP	supply.  Really could care less. Use whatever is most cost efficient. And that is not	Negative 
Posidontial Non DIDD		Negativo
Residential Non-PIPP	solar,wind, etc	Negative

	I prefer to do business with "socially acceptable" companies. Socially acceptable	
Residential Non-PIPP	companies can not take money from the government or accept tax breaks.	Negative
Residential Non-PIPP	Burn coal. Keep Ohio jobs.	Negative
	I look at the brownouts California experiences and how they have bought into	
Residential Non-PIPP	this and want dependable electricity.	Negative
	Don't raise customer bills because of political pressure to get into a "renewable	,
Residential Non-PIPP	energy" boondoggle!	Negative
Residential Non-PIPP	I don't want to pay the higher cost	Negative
	AEP should generate power that has the best mix for clients and is not subject to	
	the whims of political correctness. Just because it is labeled "renewable" does	
Residential Non-PIPP	not make it clean or efficient!	Negative
Residential Non-PIPP	Keep coal	Negative
	There is no reason to buy energy that isn't cost effective. Until the cost of	
	production of renewable energy reaches the cost of fossil and nuclear, using it is	
Residential Non-PIPP	only for publicity and helps on one	Negative
	From what I have read, renewable energy from solar and wind are expensive and	
Residential Non-PIPP	harmful to the environment	Negative
	I want to know who is going to cleanup the ugly wind/solar farms when the	
Residential Non-PIPP	equipment rusts/breaks down or are closed down	Negatīve
Nesidential Holl I II I	equipment rustay areana as will be also disorded as willing	regative
	Renewable energy sources have historically increased the cost of electricity to	
Residential Non-PIPP	consumers, and at this time are a liability, not a benefit to the public.	Negative
Residential Holl I II I	consumers, and at this time are a hashing, not a serient to the public.	regative
	I have heard in the past that wind energy is not efficient and uses as much	
Residential Non-PIPP	energy as it generates. If so, not sure why adding that would make sense.	Negative
Residential Non-PIPP	they need lower there rates	Negative
Residential Non-Filt	they need lower there rates	Ivegative
	I believe we need to find more ways to produce energy but I do not believe in	
Residential Non-PIPP	the liberal and Democratic Party views on anything including energy.	Negative
nesidential Non-FIFF	Cost not efficient - still need electricity to run wind turbines. When product	Negative
	doesn't work anymore, what environmental consequences will occur? I.e.	
Residential Non-PIPP	unrecycleable material, cost of replacing them.	Negative
Residential Noti-PIPP	diffecycleable fracerial, cost of replacing them.	Negative
	this needs to be done without increasing costs to us customers. Really probably	
Desidential New DIDD		B1 41:
Residential Non-PIPP	would be better and have less environmental impact to invest in nucular instead.	ivegative
	not in favor if it drives up rates. From what I read, these options need large	
D1-1	subsidies to make them competitive and we are charged either through taxes or	NI43
Residential Non-PIPP	higher rates.	Negative
	Until some breakthrough in electrical energy storage occurs Solar and Wind	
D!- 4 -  A) DIDD	electric generation will remain non economically competitive relative to	
Residential Non-PIPP	conventional generation technologies.	Negative
	I detest the giant wind turbos. Until or unless wind energy can be obtained from	
	smaller and less invasive and ugly means, I will resist these. What good is it to	
	destroy our birds and disturb wildlife, not withstanding the look of pristine land/	<u>.</u>
Residential Non-PIPP	water with these, don't think it's a good trade off	Negative
	It's a waste of money, and can only work with subsidies. Installing solar farms	
	in a state that averages 65 days per year of sunny days is absurd, and we need	
	the backup gas powered plants anyway.	
	It's a political thing, and has nothing to do with economics. Stick to nuclear	
Residential Non-PIPP	and gas	Negative

	The production of equipment for wind energy creates huge amounts of	
	pollution. Windmills are a real threat to avian wildlife! They are visually	
	extremely unsightly! Solar maybe a better option but great amounts of	
	pollutants are created in the production of solar cells. No "free lunch" in either of	
Residential Non-PIPP	these options!	Negative
Residential Non-PIPP	Burn coal. Why is it that I'm using less electric but my bill keeps going up?	Negative
Nesidential Non-Fiff	Obama tried this with wind farms and it was a huge failure. Whatever way you	INEGALIVE
Davidantial Nam DIDD		No satirus
Residential Non-PIPP	go, i hope it is with this in mind.	Negative
	Constitution when the second facility of the	
	Generating plants are already in place and furnish adequate and reliable power	
	to the point that some units are idled during periods of less demand. The costs	
	associated with the development of solar and wind power does not make sense.	
Residential Non-PIPP		Negative
	Wind for lar never is not a south and and and and and and and and and and	
	Wind/solar power is notoriously unreliable and extremely expensive way to	
	generate electricity in this area. Although I believe they have their place in the	
	ideal geographical locations, I do not believe they are well suited for Ohio, nor	
	am I willing to pay extra for the electricity generated by these systems. We have	
	an all electric house, we have a geothermal (ground source) heating and cooling	
	system. I love alternative energy, but it HAS to be affordable, efficient, and	
	maintainable. Solar is awesome in the very sunny south west, wind only where	
	there are no alternative energy sources and where no one minds the death toll	
Residential Non-PIPP	of the birds.	Negative
	To save on costs, please produce the minimum legal requirement of renewables.	
	"Renewable" is a nice idea, but it just doesn't make financial sense yet. Taxpayer	
	subsidies might make it look better, but we're still footing the bill but through	
Residential Non-PIPP	our taxes instead of electric bill.	Negative
Residential Non-PIPP	It is a shame that we cannot use the coal that we have.	Negative
Residential Non-PIPP	Coal.	Negative
Residential Non-PIPP	Do Not support renewable energy	Negative
	Usually these renewable energy sources consume more natural resources to	
	build than they will save in their lifetime.	
Residential Non-PIPP		Negative
	I find it unfortunate that government regulations pushed AEP away from coal. I	,
Residential Non-PIPP	believed the scrubbers being used at coal plants were good.	Negative
	I believe wind energy does more harm than good. Look at the amount of	
	concrete and steel used to build them and the amount of maintenance required.	
	It also is a health hazard to neighbors who are not compensated for the	
Residential Non-PIPP	encroachment on their land. I oppose this.	Negative
	Stop wasting money on these expensive sources of power when there are much	
Residential Non-PIPP		Negative
	Renewable energy is nice. But, I want and need RELIABLE energy. I am not	
	willing to pay extra for fad projects. I am not willing to sacrifice reliability for	
Residential Non-PIPP		Negative
	All this "climate change" GARBAGE is nonsense. COAL is our area's greatest	
	natural resource, and we should use it. Using COAL keeps the COST of our	
	electricity LOW, and keeps many in Ohio and neighboring states EMPLOYED.	
Residential Non-PIPP	QUIT closing coal-fired power plants just because the radical left says you should.	Negative
	Measure the real economic and environmental consequences of renewable	<b>9</b>
	energy, including the manufacture of equipment required. There are real	
Residential Non-PIPP		Negative
nesidential Non-FIFE	Lear. Octo men and bach	· · · · · · · · · · · · · · · · · · ·

, , , , , , , , , , , , , , , , , , ,	The marketing of renewable energy suppliers resembles that of disreputable	
Residential Non-PIPP	products such as cheap electronics or cancer insurance.	Negative
residential Hori- 1	products satir as creap creat only or carries madranger	regative
Residential Non-PIPP	Renewable energy is great, but it doesn't need to be developed by AEP Ohio.	Negative
	I understand that we will still need traditional fuel sources for electricity because	110Batile
	of reliability, especially in Ohio where there is less wind, less sunshine and less	
Residential Non-PIPP	hydro potential.	Negative
Residential Non-PIPP	Clean Coal baby	Negative
	I have no interest in AEP increasing the use of renewable energy. I do not want	
	to pay the increased cost of such energy sources. I'm fine with the reliable,	
Residential Non-PIPP	efficient and economical energy sources such as gas and coal.	Negative
Residential Non-PIPP	renewable energy is way to expensive	Negative
	I do not want energy provided by wind. The wind mills or whatever you call them	
	are not cost-effective and they kill tons of birds. As for solar energy in central	
Residential Non-PIPP	OH, good luck with that lo\(\tilde{\text{V}}^{\tilde{\text{V}}}\),	Negative
	AEP is sitting on plentiful natural gas. Use it to produce the cheapest electricity	
Residential Non-PIPP	possible.	Negative
	Suggest you double and triple check your projected return on investment before	
Residential Non-PIPP	you go spending a bunch of cash on renewable energy.	Negative
	It would be a poor use of ratepayer funds. Those are intermittent and unreliable	
	forms of energy production. Better to keep nuclear plants running, with natural	
Residential Non-PIPP	gas as peaking units.	Negative
	Renewable energy is not cost competitive with traditional sources without	
	government subsidies supporting and distorting the market. It is feel good policy	
	that accomplishes little. The free market is best to address current and future	
Residential Non-PIPP	energy needs.	Negative
	Renewable energy is an expensive farce, and will never be able to supply	
	adequate energy. Coal, oil, and gas is the only real answerand we have lots of	
Residential Non-PIPP	those items.	Negative
	Stop wasting my time and money on pipe-dream ridiculous utopian fantasy-land	
	liberal environmental policies! Dig for coal and burn it!!! Simple as that. You	
	should be spending your time and investment money on ways to burn coal more	
	efficiently so you get more bang for your buck. And btw, isn't hydroelectric	
	generation a cheaper alternative to wind and solar anyway? If your soooooo	
	concerned about the environment (yea right, you're just virtue signaling with this	
	survey nonsense), then build cost effective hydro producing lakes every where	
Residential Non-PIPP	you can!! Solar and wind power. Pfft. What a joke! Hippies	Negative
Residential Non-PIPP	Use clean coal technology until the supply makes it no longer feasible.	Negative
Residential Non-PIPP	AS A RETIRED COAL MINER CLEAN COAL IS THE ONLY WAY TO GO	Negative
	I believe coal mining is extremely important, so anything else is unimportant to	
Residential Non-PIPP	us.	Negative
	I am tatally against the use of windmills to produce energy. They are killers of	
Residential Non-PIPP	birds and are ugly to observe!!!	Negative
	Bring back reliable cheap pleantiful coal with modern reasonable pollution	
Residential Non-PIPP	standards	Negative
Residential Non-PIPP	Put your money into your distribution system. Your reliability totally sucks.	Negative
	I don't like the turbines. For the amount of electricity they provide, it's not worth	
	it. It also defeats the purpose of the environmental impact because I think they	
	produce their own impact on the environment.	

		112 112 112
	Believe it will be too costly to implement and maintain therefore passing more	
Residential Non-PIPP	costs to the consumer. Also, flying creatures such as birds may be harmed.	Negative
Residential Non-PIPP	It was a mistake to go away from your coal power plants.	Negative
Residential (Vol) 1 II 1	Power generated by wind and solar are very expensive. I believe the country is	мевание
Residential Non-PIPP	better served by using coal and natural gas.	Negative
The state of the s	Secret Served by using courselle factorial Basis	Negative
Residential Non-PIPP	renewable energy, particularly wind, is a worthless feel good waste of resources	Negative
	Ohio ranks about # 40 out of the 50 states for the quality of wind and solar for	
	energy. This means "green" energy is energy that takes a lot of my "Green"	
	A laws color installation in summy CA in it 4 th years and word a record bigh of 1/4	
	A large solar installation in sunny CA in it 4 th year produced a record high of 1/4 of its predicted yearly KWH output. During the peak noon sun CA must pay	
	other states to use their excess power, buying it from residents at full retail	
	rates, shooting up costs.	
	Tates, shooting up costs.	
	Modern countries like CA, France and Sweden enjoy safe, reliable and plentiful	
	power at about 5 c/KWH from Nuclear (without the choking regulations shooting	•
	the cost out of sight), China is building 19 new plants and went critical on 4	
	Westinghouse a few years ago, 7 years after ordering them.	
	Ref: Wall St. Journal 8-13-18, pagesA17 Phony numbers and B9 top.	
	Also Dr. Muller, "Physics for Future Presidents" Seville Spain generates solar for	
	only 28 cents/KWH! Germany shutting down Nuclear has so far tripled power	
	costs and increased carbon emissions greatly.	
Danisla skiel Nasa DIDD	IDELETED DUE TO REDCOMAL IDENTIFIABLE INFORMATIONS	
Residential Non-PIPP	[DELETED DUE TO PERSONAL IDENTIFIABLE INFORMATION] Wind and solar energy will never come close to meeting the energy needs of our	Negative
	economy. The only reasonable sources of energy are fossil fuels and nuclear	
	energy. Renewable energy is simply pie in the sky dreams of ignorant citizens	
Residential Non-PIPP	who are unaware of this reality.	Negative
Residential Non-PIPP	nuclear could replace all of the choices you're looking at.	Negative
Residential Non-PIPP	For now, it's a toy.	Negative
Residential Non-PIPP	Wind farms are an ugly and terrible plight on local communities.	Negative
	Any investment should make economic sense based on its own merits, and not	
Residential Non-PIPP	rely on tax subsidies or redistribution of wealth.	Negative
Residential Non-PIPP	too expensive - lower the cost to natural gas based supply	Negative
	FACTS and factual information critical to making informed decision. Wind	
	turbines & solar, require open, treeless swaths of land which can lead to	
	deforestation. Amber waves of grain, are far more attractive than fields of black	
Residential Non-PIPP	solar panels.	Negative
Residential Non-PIPP	Natural gas I'd plentiful	Negative
Residential Non-PIPP	Renewable energy is not consistent, it is subsidized at our expense, it cannot be stored and often is not available when needed.	Negative
nesidential Non-PIPP	Windmills are way too costly to build then to maintainalso take up too much	Negative
	green space and are noisey for the actual amount if energy supposedly	
Residential Non-PIPP	saved!!!!	Negative
	I wouldn't do it, your cost are going to go through the roof, all these other	3
	companies that are doing this , aren't able to be competitive with AEP It is not	
Residential Non-PIPP	worth it Stay with what you are doing	Negative
	I just want reasonable energy costs for reasonable use. No wasting money to	
Residential Non-PIPP	seem politically correct.	Negative
Residential Non-PIPP	Its expensive and faultydon't waste money on it! Foolish!	Negative

Residential Non-PIPP	So you really think 'solar' is going to work in Ohio? You're dreaming!	Negative
	Choices of source of energy should be based of least cost. Wind and solar	
	apparently are not least cost based on all I have heard. Besides cost issues both	
Residential Non-PIPP	do serious damage to the bird population.	Negative
Residential Non-PIPP	Lower prices, use gas or coal	Negative
Residential Non-PIPP	Wind turbines are annoying, ugly and kill birds.	Negative
Residential Non-PIPP	Don't build those ugly windmills	Negative
	Wind and solar require are eye pollution for the amount of quality land. Wind	
	and solar are kill wildlife. Wind and solar do not work if the wind doesn't blow or	1
	the sun isn't shining.	
Residential Non-PIPP		Negative
	Wind and solar energy production in it's current form has been proven to be a	
	total failure and waste of monetary resources better spent on updating and	
Residential Non-PIPP	upgrading the current outdated electrical infrastructure.	Negative
	Maintenance and generation costs are much higher with wind / solar power, and	
Residential Non-PIPP	they can not accommodate variable load demands.	Negative
	Renewable energy sources are not cost-effective compared to more traditional	
	means of power generation, and shouldn't be considered unless, or until they	
Residential Non-PIPP	become so.	Negative
	Renewable energy in OH is probably not worth the investment since we do not	
Residential Non-PIPP		Negative
Residential Non-PIPP	It's so expensive to install!	Negative
Residential Non-PIPP	Renewable energy is to expensive!	Negative
Residential Non-PIPP	"Renewable energy" doesn't solve environmental issues	Negative
Testa di tali i i i	Wind energy is very expensive, an eye sore, very lethal to birds and bats, and	
	uses too much land.	
Residential Non-PIPP	If it wasn't heavily subsidized by tax payers you wouldn't be doing it.	Negative
ne ora ora ora ora ora ora ora ora ora ora		, 1-8+ • · · ·
	Don't waste money on wind generation: There a maintenance nightmare and if	
	the wind doesn't blow you don't any power.	
	Same with Solar, a waste of money, if the sun doesn't shine, no power.	
Residential Non-PIPP	You need to stick with baseline power coal generation, Natural gas and nuclear.	Negative
Nesidential Non-1 II 1	100 heed to steek with separate power coal generation) installar gas and institution	ricgutive
	Renewable energy ahh the fashionable thing to do. Why not go more to	
	natural gas, economical and abundant and it does not require tax incentives to	
	be viable. Let the free market system determine the viability of renewable	
	energy. Mars is warming along with the earth. Perhaps the sun has something	
	to do with climate change. What a novel	
Residential Non-PIPP	idea.	Negative
Mesidericial Moli-Fili F	Please consider the entire cost to the environment as well as to your customers.	regative
Residential Non-PIPP	Don't give in.	Negative
Residential Non-FIFF	DOI! ( BNC III	Negative
	Renewable energy is currently more expensive to the customer. It is necessary to	
	reduce the overall expense of renewable energy particularly to the retired,	
	physically impaired, and those that are out of work for any reason.	
	physically imparied, and chose that are out of work for any reason.	
Residential Non-PIPP		Negatíve
Nepluendal Non-FIPP	Another AEP ripoff.	, togative
Posidontial Non DIDD	Your customers are forced to pay but never receive any ROI.	Nogative
Residential Non-PIPP	Windmills and solar are a foolish waste of money. Burn the thousand years	Negative
Desidential New DIDS	•	Nogotivo
Residential Non-PIPP	worth of coal, and natural gas that are in this country.	Negative
	I shink the wind forms are unknown has a high man of billion highly the form have	
Desidontial No. 2022	I think the wind farms are ugly and has a high rate of killing bird's. We have lots	Mogative
Residential Non-PIPP	of coal and the technology to keep the coal burning safe and clean.	Negative

Can anything be done to lower our electricity bills?  I do not want any of those large wind-mills near my home. They are loud and ugly  Negative  If it raises costs WHAT SO EVER I am against it. Why not invest in infrastructure before looking for other things to spend money on. Each outage take you longer and longer to respond, yet you have available resources for windmills and solar			
Residential Non-PIPP Resident	Residential Non-PIPP	state of the art can compete on equal footing with current methods and sources	Negative
of any significant benefit. All the while, it unnecessarily drives up prices. Deliberately shifting investments into a less reliable, less flexible, more expensive beliberately shifting investments into a less reliable, less flexible, more expensive Negative  Wind and solar are overpriced, and unreliable. I hope that if you go down this ill-conceived route, it will be the shareholders, and not the customers, who are stuck with the expense.  Negative  Residential Non-PIPP  Reside			
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Deliberately shifting investments into a less reliable, less flexible, more expensive power source is not a wise course of action.  Wind and solar are overpriced, and unreliable. I hope that if you go down this ill-conceived route, it will be the shareholders, and not the customers, who are stuck with the expense.  Negative  Use coal that's readily available, but plan ahead. You've cleaned it up greatly but you really need to stop letting them take the fly ash to spray on us!  Residential Non-PIPP  R			
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and longer to respond, yet you have available resources for windmills and solar		If it raises costs WHAT SO EVER I am against it. Why not invest in infrastructure	
Residential Non-PIPP   panels???		and longer to respond, yet you have available resources for windmills and solar	
	Residential Non-PIPP	panels???	Negative

	Solar nanole in Ohio 22 with all our grange rains weathout Overest IV- 2 Net to	
	Solar panels in Ohio ??.with all our crappy rainy weather?. Overcast dYs ?. Not to mention our dreary cloudy 4 month winters!	
	Windmills that make tons of noise chop up our	
	Birds an break down an wear out fast !!. Don't waste your \$\$ on these pie in the	
	sky sceAms !!. None of these screams can put out the kilowatt hours coal can !!.	
	An I don't wann hear the global warming scams!! It's all total BS to get a carbon	
	tax approved to charge me to breathe!!. An these total bs wind mills that can't	
	hold a candle to coal power will raise my electric bill how much ??. As far as the	
	argument that coals to dirty ?? Ever hear of scrubbers ?? They actually work !!.	
	An coals	
	Plants with good 1,s can put out very little emissions!! If operated correctly!!!so	
	drop these wind mill solar panel sceems an still to coal !! I'm not a tree hugin	
	liberal an will never ever believe In climate change scams!!	
Residential Non-PIPP	It's all fake just like CNN news !!!	Negative
Residential Non-PIPP	Wind Turbines are ugly and kill birds. It is too cloudy for solar in Ohio.	Negative
	Just another way of soaking the public into believing AEp will invest billions of	
	dollars into renewable energy with no long term benefit to the average person	
Residential Non-PIPP	customer.	Negative
Residential Non-PIPP	Don't waste your money	Negative
		-
Residential Non-PIPP	I have read that the cost of transmitting wind-generated energy is quite high.	Negative
Residential Non-PIPP	Plenty of natural gas, clean	Negative
	Taxpayer subsidies should not be used to create renewable power projects.	
Residential Non-PIPP	Wind and solar should stand upon their own with respect to economics.	Negative
Residential Non-PIPP	Perhaps investigate "cleaner" ways to use coal.	Negative
	I do not see it as that important if you are only meaning wind and solar. There is	
Residential Non-PIPP	plenty of coal and nat gas. Our electric costs are high enough already.	Negative
,	Renewable energy cannot compete with coal or nuclear. Both in terms of price	
Residential Non-PIPP	and energy output	Negative
Residential Non-PIPP	Stop wasting money on renewables. Build nuclear.	Negative
Residential Non-PIPP	I do not want any wind turbines in Central Ohio.	Negative
Residential Non-PIPP	wind farms harm bird life and are noisy to residents	Negative
n	Go with nuclear. It's clean. It produce a lot more power than solar or wind.	
Residential Non-PIPP	Keep our nuclear plants alive.	Negative ,
Posidential New DIDD	Wind turbines KILL birds, and solar panel farms require large amounts of land	A1
Residential Non-PIPP	that cannot be used for other purposes. Not a fan of either.  Renewable energy programs are not cost effective in the future.	Negative
Residential Non-PIPP	Renewable energy programs are not cost effective in the future.	Negative
	Since government subsidies are typically needed to make renewable	
Residential Non DIDD	Since government subsidies are typically needed to make renewable energy	Negativo
Residential Non-PIPP Residential Non-PIPP	economically feasible, please do not waste tax payer money on this.  Do not like wind farms	Negative
mesidential NOII-PIPP	I am opposed to politically motivated reasons to use this source or that. The only	Negative
	criteria should be what is the most reliable source that provides the most reliable	1
Residential Non-PIPP	power at the best price and value.	Negative
	Investing in renewable energy for political correctness is not in the best interests	regative
	of your customers. Prices will go up because renewable sources cost more to	
Residential Non-PIPP	install and more to operate.	Negative
	metal distribute to operate.	, regative

Renewable is currently and in the foreseeable future totally uneconomical. AEP and other utilities would be much wiser to spend major resources to educate the public on the safety and wisdom of nuclear power. Utilities have refused to challenge gov regulators re the safety of nuclear power.  Residential Non-PIPP Stick with COAL or gas more dependable.  Renewable energy is BS. Cost too much. Benefits over exaggerated  Residential Non-PIPP Not at all good for the environmentally friendly.  Residential Non-PIPP I support coal! Residential Non-PIPP Use Ohio natural gas also to for power generation.  Wind and solar need to compete without government subsidies. They are currently both inefficient and expensive. Wind turbines are offensive and will at some future date, be eliminated (1 hope)  Residential Non-PIPP Residential Non-PIPP do not cave to pressure from whacko's  Wind and solar are giant wastes of time and money that people who are bad at physics pay lipservice to so they can appear virtuous.  Anyone who knows the difference between a megawatt and a gigawatt can tell you that nuclear is only possible alternative if you're looking to get away from fossil fuels.  Green energy initiatives touting windmills and solar panels are mostly run by charlatans looking for opportunities for graft. I lose respect for any company that gets mixed up in that chicanery.  Residential Non-PIPP Negative
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Residential Non-PIPP Negative
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Dont waste the shareholders money on this crap. The only thing it does is
Residential Non-PIPP makes.environmentalists feel good. It won't reliably keep my welder running. Negative
Residential Non-PIPP Complete waste of money & time. Man made global warming is a fraud. Negative
Residential Non-PIPP AEP NEED NO RENEWABLE ENERGY IDEVELOPPEMENTS!!! Negative
With regard to energy generation, I believe the entire process and
environmental impact must be considered. Solar and wind energy sources
certainly appear to have smaller carbon footprints. And while important, it's
the popular environmental focal point. What about the materials being mined,
the chemicals used in the production, the energy used in the entire life cycle, the
storage of generated power, the equipment's disposal/end of life strategies.
Green house gases show a negative trend with regard to the environment. Yet
wind turbines for example show an immediate impact on avian mortality. Many
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other biological systems are codependent on the avian population and
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	IN ACC assessed floor assessed assessed as a second assessed as a second assessed as a second assessed as a second	1
	IMO current "renewable" energy sources are expensive and unreliable. I would	
Residential Non-PIPP	prefer that AEP invest in current infrastructure such as nuclear energy and low-	<b>.</b>
Residential Non-PIPP	impact carbon-based fuels.	Negative
Residential Non-PIPP	Not a fan of wind energy as it can kill birds and bats which are necessary for the	<b>31</b>
Residential Non-PIPP	eco system. Use coal	Negative
Residential Non-PIPP	Windmills for electric kills birds flying and is ugly.	Negative
Residential Non-PIPP	Too soon	Negative
Residential Non-FIFF	AEP made a mistake by retiring their coal plants and moving away from coal	Negative
Residential Non-PIPP	power plants.	Negativa
Residential Non-PIPP	do not support	Negative
Residential Non-PIPP	Renewable energy is not consistent, can't be stored and is more expensive than	Negative
Residential Non-PIPP	traditional fuels.	Mogative
Residential Non-FIFF	along with global warming it's hoax perpetuated by hollywood weirdos, elizabeth	Negative
	warren types and OBOMBME	
Residential Non-PIPP	PUHTUI	Nomativa
Residential Non-FIFF	rontor	Negative
	I do not want to purchase power generated by windmills in Ohio. I do not believe	
	they are in our best interests. IT is a waste of valuable resources and	
Residential Non-PIPP	encrosaches on the property rights of Ohio citizens. It is a waste of taxpayer	 
Residential Non-PIPP	dollars to subisdize this and they arent even made in the USA	Negative
	Mind Turkings are gaingle guing his. They are he his to be used in growth	
	Wind Turbines are going to ruin ohio. They are to big to be put in rural	
	communities. Ohio has the most relaxed regulations for big wind companies for	
	the sitting of the turbines next to non participating neighbors. Keep the Turbines	
	Out Of Ohio. When all the customers are moved out of area do to the turbines	
	my guess is the Lost of customers wouldn't be worth it. It's also a proven fact	
Desidential New DIDD	that Wind Power raises electric bills which nobody wants to see. Turbines do	
Residential Non-PIPP	nothing to lower the carbon.	Negative
	A sentiment from Midward Florida and a section in Mark Object of the	
	A gentleman from Midwest Electric spoke at a meeting in Van Wert, Ohio a while	
	back. He stated that they had a contract with a wind energy company, but was	
	going to let the contract expire because they were losing tons of money on it.	
	Wind energy is unreliable, expensive, and inefficient. If it weren't for government	
	subsidies, they wouldn't even build wind farms.	
	There are also dangers and negative health effects associated with wind	
	turbines.	
Danida skial Nasa DIDD	I would say that AEP needs to do some research on other countries that were	., .,
Residential Non-PIPP	gung-ho about renewable energy and then lost their butts because of it.  Coal is abundant in Ohio and Midwest. Stay with coal for base generation and	Negative
Pacidontial Nan DIDD	·	A1
Residential Non-PIPP	natural gas for on demand.	Negative
	Industrial wind turbines cannot stand on their own without tax abatements.	
	They only have a life expectancy of 20 to 25 years, most likely not being replaced	
	or removed once the life expectancy is done. They harm wildlife like bats and	
	birds, including our national bird the bald eagle. They can cause many health	
Desidential March 1999	effects in both humans and livestock. They cause flicker from sunlight and	
Residential Non-PIPP		Negative
	Renewable energy provided by IWT is not a reliable source and drives costs up	
Destale and the comme	for consumers. IWT are not welcome in southern Van Wert County and we have	
Residential Non-PIPP		Negative
	Wind is a joke. I live near turbines and on many hot humid days they do not turn.	
	Wind is unreliable as is solar. More is spent promoting and paying out than is	
Residential Non-PIPP	produced. Think twice before promoting more.	Negative

	Industrial Wind Factories are nothing but a big scam and money grab on hard	T
	working tax payers. Stop the destruction of our communities, our environment	
Desidential New DIDD	and our very way of life.	
Residential Non-PIPP Residential Non-PIPP	The I with your windmills!!	Negative
Residential Non-PIPP	The I with your windmills!! too expensive	Negative
Residential Non-PIPP	too expensive	Nogotivo
Residential Non-PIPP		Negative
	Stop. It's unreliable and grossly inefficient: solar only works half the day at best;	
	wind only generates when the wind is blowing. Then there's the birds getting	
	killed by the turbine blades, the infrasound pollution, and on top of that it's	
Residential Non-PIPP	three times more expensive. I don't want to pay for that.	Negative
Residential Noti-Fire	Go Bach to Ohio coal. AEP spent millions to meet EPA standards only to shutter	Negative
	up the plants. AEP needs to stand up to EPA. It is a waste of money to go into	
	"renewable energy" when it has its own dangers and the EPA will keep changing	
Residential Non-PIPP	the regs on it.	Nogativo
Nesidential Non-FIFF	I despise wind energy, I is a part without citizens paying for the subsidies. They	Negative
Residential Non-PIPP	ruin the beautiful sky, & lower property values,	Negative
nesidential Non-FIFF	need to diversify,,,,,fossil fuels are still necessary and important for american	Negative
Residential Non-PIPP	jobsthe liberal energy views will not work	Negative
Nesidendal Non-i ii i	Too expensive now. You are just catering to the extreme left in this area. Lower	Negative
Residential Non-PIPP	your rates through our abundant existing resources.	Negative
incolactical Non-Tit	I would like to see AEPOhio to support the development of resources utilizing	riegative
Residential Non-PIPP	Ohio's plentiful shale gas.	Negative
Residential Non-PIPP	My uderstaning is it has a higher cost.	
Nesidential Non-FIFF	lwy duerstanning is it has a nighter cost.	Negative
	Stop caving to leftists who want to make us poorer, colder in winter, hotter in	
	summer under a false belief that fossil fuels will cause climate change that would	
Residential Non-PIPP	not otherwise happen & that nuclear power can't be used safely.	Negative
Nesidential Non Till	Wind power in populated rural areas should not be considered as it is in many	Negative
	areas today. Health and safety risks are too great to have them close to homes.	
Residential Non-PIPP	They are not efficient producers of electricity.	Negative
The State of the S	They are not emolent producers of electricity.	Negative
	Since the sun does not always shine and the wind does not always blow, will also	
	need redundant fossil, hydro, or nuclear generation unless you want to spend a	
	lot on battery storage. Just go with the lower cost technically acceptable option	
Residential Non-PIPP	that complies with environmental regulations.	Negative
	and somples were environmental egalations.	Negative
	Wind generation is not the answer. Return on investment is very low, even in 30	
	years. They cannot generate enough electric energy to cover the carbon	
Residential Non-PIPP	footprint, because of yearly declining name plate capacity.	Negative
,	Think u should concentrate on ower best asset that is coal. Coal is cheaper and	
	produces jobs for Ohio that's more important than the political renewal	
	eneargy & use nat gas as backup but I do not see nat has as renewal energy or	
Residential Non-PIPP	comes from the ground just like coal. Time to think about the people not politics.	Negative
	I think it is a waste of time and money at this point because both wind and solar	
Residential Non-PIPP	do not pay for themselves but rather need significant subsidies to be viable.	Negative
		_
Residential Non-PIPP	Stick with natural gas and oil, we have plenty and Global Warming is False	Negative
	I'm not crazy about wind energy and not sure Ohio has what it takes to make	_
Residential Non-PIPP	solar energy work. What about nuclear?	Negative

, and any of the state of the s		
	For me the important issue is not the source of my home electricity but its price.	
Residential Non-PIPP	At the moment solar energy is neither efficient or nor price competitive.	Negative
	To the average AFD distribution average African average affine and a second average af	
	To the average AEP distribution customer, this survey conflates the role of the	
	AEP utility with the (competitive) AEP power supplier. Is the provision of	
	renewable energy only limited to the standard service offer, or would there be	
	some mechanism at the utility level, such as a rider, which would apply to	
o II at IA Dino	customers taking power through a competitive supplier? This survey does not	<b>.</b>
Residential Non-PIPP	feel "right" and is potentially misleading.	Negative
Residential Non-PIPP	Not interested because it is too expensive.	Negative
	I don't feel it's necessary at this time. It's very expensive to do and the cost is	
Residential Non-PIPP	passed on to the customer.	Negative
Residential Non-PIPP	Not interested in renewable energy	Negative
	Cut cost instead of expansion. Added expense for something easily wiped out by	
Residential Non-PIPP	other polluting countries like China and India.	Negative
	Why is my electric distribution company considering making investments in	l
Residential Non-PIPP	generation? Are such investments within Ohio law?	Negative
	Let people who want renewable energy pay the additional cost. Don't make	
Residential Non-PIPP	everyone pay for something the only a segment of society wants.	Negative
	If you're spending money, put it into upgrades that keep the system robust. Bury	
	power lines. Shield major infrastructure from emp damage (both man made and	
Residential Non-PIPP	solar).	Negative
Residential Non-PIPP	renewable energy is way overpriced	Negative
	I shouldnt have to pay a penny more to make some tree huggers feel better	
	about turning on their lights or air conditioning. I appreciate the reliable service	
	we have now and feel good that the reliabilty is due in no small part to our coal	
Residential Non-PIPP	industry. Dont.mess with it.	Negative
	Do not waste money with renewables. In the end, this will only increase the price	
Residential Non-PIPP	for costumers.	Negative
Residential Non-PIPP	It is a wasteful farce. Just produce energy cheaply, please.	Negative
	Sun does not shine at night. Sun does not shine much from November to March	
	in Ohio. Wind does not blow much at night. Appreciate the effort but there are	
	technology hurldes. I like Germany's approach. Local generation as opposed to	
Residential Non-PIPP	generate and transmit.	Negative
	Would rather see infrastructure improvements such as more underground wires	
Residential Non-PIPP	and better grid security.	Negative
	Reduce the cost of our energy not increase it. Wind and solar energy are more	
	expensive than fossil fuels. Man made global warming is not proven science and	
	has been a big lie with false information. Invest in clean coal and other fossil	
Residential Non-PIPP	fuels that will ultimately reduce energy costs.	Negative
	Wind and solar energy are more expensive and less efficient than current fossil	
Residential Non-PIPP	fuels. Man made global warming is not proven science	Negatīve
Residential Non-PIPP	The science related to renewable energy is just not there	Negative
	Feel the generation from wind and solar versus current technology from natural	
	gas is more expensive and will result in increased rates. What is wrong with	
Residential Non-PIPP	natural gas? We have significant supplies and it is clean energy source.	Negative
Residential Non-PIPP	I favor nuclear energy as the best energy source.	Negative
Residential Non-PIPP	Wind turbines are ugly, kill birds and are inefficient.	Negative
		<b>3</b>
Residential Non-PIPP	Climate change is a hoax. Keep going with coal if you can and really want to.	Negative
	I'm not sure that out latitude and average wind and sun hours are suitable for	<u> </u>
Residential Non-PIPP	investing substantially.	Negative

There is no need to use the inefficient renewable source	tes. We have plenty of
natural gas. In the state. Wind turbines kill millions of b	
Residential Non-PIPP it's devastating the bird and bad population bad for ou	
Residential Non-PIPP You are wasting your time, effort and money on solar a	
I used to think wind & solar were the way to go ever	n back 40 yrs ago. But
having followed the progress, implementation & econo	
they are not efficient as once thought and have uninte	
are hurtful to the environment, consumers & economy	· • • • • • • • • • • • • • • • • • • •
haven't added up. Nuclear power plants, as the USA h	- I
them seems like the long, long range solution. / The o	
cleaned up amazingly over the decades and are the wa	
Residential Non-PIPP decades.	Negative
It most be cost effective. If it lowers my electric bill, the	en investigate the
opportunity. Don't succumb to the "feel good" society	
economic sense. Natural gas and coal are abundantly	•
Residential Non-PIPP should be investigating opportunities to exploit those r	
Residential Non-PIPP It's a waste of money /	Negative
Take advantage of the fossil fuels ( Nat. Gas) available	
acting like you are pressed to find non-Fossil Energy So	urces. If you did this we /
all know you would be saving us unnecessary expense.	Your all into the far Left,
Residential Non-PIPP get off your butts and believe in Trump.	Negative
When it's viable people will use it without government	
pressure. I love that the smokestacks are cleaner, natu	ıral gas burns cleaner than
Residential Non-PIPP coal etc tho	Negative
Residential Non-PIPP stick with what works,	Negative
I would be very upset if I saw AEP was accepting tax br	eaks for renewable energy
Residential Non-PIPP project or production.	Negative
Too much energy wasted on catering to the politics in t	this. Focus on value and
Residential Non-PIPP technology not on climate alarmists.	Negative
Residential Non-PIPP Wind and solar depend on weather. Not sure if these v	vill be usable for Ohio. Negative
Residential Non-PIPP Too expensive	Negative
Residential Non-PIPP unreliable, inefficient, expensive, unsustainable	Negative
The electricity generating market is both regional (Mul	
Regulated monopolies should not be engaged in this b	1
Residential Non-PIPP than as a competitive bidder to end-users	Negative
`	
What your loyal customers want is lower electric bills.	Renewable energy is
Residential Non-PIPP expensive, and we don't want to pay for it. Stop invest	ing in renewable energy! Negative
There are other cost-effective options to decrease gree	
Residential Non-PIPP air pollution such as using more natural gas and less co	oal. Negative
Residential Non-PIPP Until the technology improves, its not worth it.	Negative
At present, renewable energy is not cost efficient comp	pared to natural gas and
Residential Non-PIPP coal, particularly in this part of the country.	Negative
I want electricity generated efficiently and reliably. I do	not want to pay more for
virtue signalling and the unintended consequences tha	t often arise from well-
Residential Non-PIPP intentioned but misguided plans.	Negative
No but I appreciate being able to participate in future of	decisions that AEP may be
Residential Non-PIPP considering	Excluded
Residential Non-PIPP No	Excluded
Posidential Non DIPD no	Excluded
Residential Non-PIPP no	

Residential Non-PIPP	Not at this time	[Fueluded
		Excluded
Residential Non-PIPP	no	Excluded
Residential Non-PIPP	No comments at this time	Excluded
Residential Non-PIPP	N/A	Excluded
Residential Non-PIPP	N/A	Excluded
Residential Non-PIPP	N/A	Excluded
Residential Non-PIPP	NA .	Excluded
Residential Non-PIPP	No	Excluded
	I've actually already taken this survey once, but I wanted to say that there was a	
	question regarding my being okay with adding up to \$1.25 to my monthly energy	
Residential Non-PIPP	bill. If that is what	Excluded
	This is the second time this survey was emailed to me.	
	It's important for AEP to invest in the future, but there is absolutely no reason	
	your *customers* should need to foot the bill through raised rates for your new-	
Residential Non-PIPP	found greenness. Fix your in-house finances first, then invest where you want.	Excluded
Residential Non-PIPP	Keep costs to consumers low as possible.	Neutral/Unclear
Residential Non-PIPP	lower my cost	Neutral/Unclear
		7.000.00, 0.10100.
Residential Non-PIPP	Do what it takes to keep the costs low, it's important to retired on fixed income	Neutral/Unclear
	I'm only interested if it does not raise the cost per unit. Like most folks that I	
	know, my family can barely cover the price of our AEP bill and often have to	
Residential Non-PIPP	make sacrifices in other areas just to be able to cover the electricity bill	Neutral/Unclear
	If its going to increase the cost of electric or add another fee/tariff to my bill,	
Residential Non-PIPP	don't do it	Neutral/Unclear
Residential Non-PIPP	I am more concerned with cost.	Neutral/Unclear
Residential Non-PIPP	Keeping the jobs in Ohio will come back ten fold.	Neutral/Unclear
Residential Non-PIPP	Continue to provide quality service at a reasonable price.	Neutral/Unclear
	I wish AEP had lobbied for a market structure similar to NH and NJ where excess	
	energy credits are sold at market rates and not what currently exists in the state	
Residential Non-PIPP	of Ohio.	Neutral/Unclear
Residential Non-PIPP	Figure out how to store electricity.	Neutral/Unclear
Residential Non-PIPP	Would it make our bills lower	Neutral/Unclear
Residential Non-PIPP	Reduce salary's of upper management.	Neutral/Unclear
	Ohio is a deregulated state, so how is AEP Ohio developing this renewable	
Residential Non-PIPP	energy? Via AEP Energy arm, or through PPA's with other developers?	Neutral/Unclear
	To help reduce costs of electricity to home owners an bring back jobs to the	-
Residential Non-PIPP	workers that lost their jobs in Ohio from shutting down plants	Neutral/Unclear
Residential Non-PIPP	Too damn high	Neutral/Unclear
Residential Non-PIPP	What ever it takes to lower my electric bill.	Neutral/Unclear
Residential Non-PIPP	What is 5 and 10 year plan and target % to add capacity.	Neutral/Unclear
Residential Non-PIPP	I don't really know about it.	Neutral/Unclear
Residential Non-PIPP	This is only good if it lowers my utility bill.	Neutral/Unclear
Residential Non-PIPP	I would not want to see increased expense in my bill.	Neutral/Unclear
Residential Non-PIPP	What impact will this have on our costs?	Neutral/Unclear
	By local job creation I would expect real Americans. Not jobs created overseas.	
	Not jobs given to those who just came to the United States. And not jobs to	
Residential Non-PIPP	those enticed to go to the United States.	Neutral/Unclear
Residential Non-PIPP	Do what you want as long as it doesn't increase my cost.	Neutral/Unclear
Residential Non-PIPP	Please use my money more wisely.	Neutral/Unclear
Residential Non-PIPP	I am not in favor of anything that would increase my bill	Neutral/Unclear
nesidential NUH-FIFF	It and not in layor of anything that would increase my bill	ivedit all Officiear

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Residential Non-PIPP	Your job is to provide low cost, reliable, clean energy. Don't just pick one of the above!	  Neutral/Unclear
Residential Non-111	Transmission and storage are just as important as generation how will the	ineditaly officient
	energy get here if it isn't generated in Ohio, and how will excess production be	
Residential Non-PIPP	stored to meet peak demand periods?	Neutral/Unclear
Residential Non-PIPP	Please consider funding or sponsoring indoor aquafarms.	Neutral/Unclear
Nesidential Non-111	Renewable is important, but it's not important that you build the	Nedtraly Official
	infrastructure. If you can buy and resell renewable in a way that makes sense	
Residential Non-PIPP	then do that.	Neutral/Unclear
	Just provide cheap, reliable, stable electricity, and as long as you're not nuking	
Residential Non-PIPP	the ocean like Tepco, we're all good.	Neutral/Unclear
	I think all of you at AEP do a good job. I would trust that you would do what's	
	right for business and man kind. Treat us right, you'll be respected, and profits	
Residential Non-PIPP	will surely come your way.	Neutral/Unclear
	THE USERS WILL HAVE TO PAY FOR	
	THE DEVELOPMENT AS USUAL.	
Residential Non-PIPP	SO WHY DO YOU ASK??	Neutral/Unclear
Residential Non-PIPP	How much will it cost?	Neutral/Unclear
	Pros and cons not withstanding, I am finding it very difficult to have the ability to	
	pay and my biggest concern is what would this do to cost. Many things in this	
	world may be wonderful, but if I can't afford them, they are out of the question.	
	Example: I don't have central air and use my small window air conditioner and	
Residential Non-PIPP	fan only when desperate.	Neutral/Unclear
	Not important to me at all. The priority should be to provide the cheapest, most	
Residential Non-PIPP	reliable electricity regardless of source.	Neutral/Unclear
	Please do not turn this into something that will increase the bill down the road.	
Residential Non-PIPP	The rates are already ridiculously high.	Neutral/Unclear
	I do not want AEP's efforts at integrating renewable energy to increase my bill. I	
Residential Non-PIPP	have to service sites and cannot afford any increase.	Neutral/Unclear
	Where does the equipment come from, Asia or is it American made? Does it cost	
	more or less to purchase this equipment than a new coal or gas fired power	
Residential Non-PIPP	plant?Will maintenance cost more or less than a power plant?	Neutral/Unclear
Residential Non-PIPP	Keep it cheap	Neutral/Unclear
Residential Non-PIPP	I'd prefer a cheaper bill. I do not care about wind or solar.	Neutral/Unclear
	Need to introduce DC long line transmission. Convert to AC at major terminals in	
Residential Non-PIPP	the state. This allows use of energy sources from long distance generation.	Neutral/Unclear
Residential Non-PIPP	just keep my bill as low as possible	Neutral/Unclear
Residential Non-PIPP	We that live in the country need our lines replaced, they are old and break easy	Neutral/Unclear
Residential Non-PIPP	Do whatever necessary to provide lower cost to me.	Neutral/Unclear
	If this will result in higher monthly bills, I am not in favor of the development of	
Residential Non-PIPP	this process.	Neutral/Unclear
itesiaentar iton i n	hate AEP, they are the only source of electricity in the city of Columbus	incarra, one,car
	which gives them the power to charge us very high electric bill. AEP is like	
Residential Non-PIPP	the NAZI in Columbus Ohio. Them.	Neutral/Unclear
	The state of the s	
Residential Non-PIPP	currently have roof top solar. Do you count my generation as part of this goal?	Neutral/Unclear
RESIDENTIAL MONTH INT	Renewable energy generation is a good idea, but my electric bill has been a lot	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
	higher since the meter was changed. I am not too excited for my bill to go up	
Residential Non-PIPP	even more	Neutral/Unclear
Residential Non-PIPP	Will wind and solar still work if we are hit with an EMP?	Neutral/Unclear
nesidential Non-PIPP	Just don't want to receive another bill increase, seems to happen much too	Neutral/Officiear
Pacidontial Nam DIDD		Noutral/Unalass
Residential Non-PIPP	often.	Neutral/Unclear

		ı
Dt-lantial Nam DIDD	I want my energy to be as inexpensive as possible. I don't care about renewable	Novemble Inches
Residential Non-PIPP	l don't know where my electric is coming from now but \$180 monthly budget is	Neutral/Unclear
n i (ti-liti DIDD	· · · · · · · · · · · · · · · · · · ·	91
Residential Non-PIPP	really really bad.	Neutral/Unclear
t tantial Nam DIDD	I don't care where or how my electricity is generated. I want the most reliable	
Residential Non-PIPP	service for the cheapest price.	Neutral/Unclear
Residential Non-PIPP	Please increase your ues of alternative production devices from CO2 producers.	Neutral/Unclear
lesidential Non-PIPP	Prease increase your des or aiternative production devices from CO2 producers.	Neutraly Officies
Residential Non-PIPP	Hows this gonna effect my electric bill i sure dont need it to go any higher	Neutral/Unclear
Residential Non-PIPP	Don't raise rates much because of it	Neutral/Unclear
Residential Non-PIPP	Please have a program for off peak EV charging.	Neutral/Unclear
Residential Non-PIPP	Cheaper bills	Neutral/Unclear
testa		, , , , , , , , , , , , , , , , , , , ,
	It would be useful to share any studies regarding the economics of customers	
Residential Non-PIPP	installing renewable energy vs utilities installing renewable energy.	Neutral/Unclear
Residential Non-PIPP	Everything is important if it has to do with AEP. There is none better than AEP	Neutral/Unclear
Residential Non-PIPP	It should not increase the cost of energy. If it does don't do it.	Neutral/Unclear
	I am more concerned with keeping our prices down than with spending extra	
Residential Non-PIPP	dollars to utilize 'greener' forms of energy.	Neutral/Unclear
Residential Non-PIPP	If it is going to raise the bills I would rather you not do it.	Neutral/Unclear
	As AEP make investments in renewable energy, how much savings should the	
	average consumer expect to see in their monthly bill? Also, how soon will it be	
Residential Non-PIPP	implemented: 2020?	Neutral/Unclear
Residential Non-PIPP	If it costs the consumer more, I'm agin it.	Neutral/Unclear
Residential Non-PIPP	Keep costs low that is the most important issue.	Neutral/Unclear
Residential Non-PIPP	Don't pass added costs to consumer. Your rates are already exorbitant.	Neutral/Unclear
Residential Non-PIPP	keep the cost down.	Neutral/Unclear
	Just try to improve the dependability. We get a lot of brown outs and outages	
Residential Non-PIPP	when there isn't even bad weather. Thanks.	Neutral/Unclear
Residential Non-PIPP	Will it increase the cost of electricity for us or reduce it?	Neutral/Unclear
Residential Non-PIPP	Anything to make our bill cheaper	Neutral/Unclear
	Im concerned about keeping the cost of electricity down so senior citizens can	
Residential Non-PIPP	pay their bill. Along with low income people.	Neutral/Unclear
Residential Non-PIPP	will my electric bill go up?	Neutral/Unclear
	Think it is a good plan, however, I am limited budget is this going to be an	
Residential Non-PIPP	increase in my costs?	Neutral/Unclear
Residential Non-PIPP	I support Worthington Ohio's ballot initiative.	Neutral/Unclear
	I do not want blackouts like CA and may foreign countries have because they	
	depend too much on renewable energy. I prefer affordable and abundant energy	
Residential Non-PIPP	over green energy.	Neutral/Unclear
Residential Non-PIPP	Lower energy costs	Neutral/Unclear
	not fully aware of projects being proposed within AEP. Being a retiree of 40+	
Residential Non-PIPP	years I believe employee input needs to be more involved	Neutral/Unclear
tesidential Non-PIPP	Livable price is primary consideration.	Neutral/Unclear
	I do not want AEP to rely on renewable energy if it means that my bill will be	
Residential Non-PIPP	higher.	Neutral/Unclear
	Only if it reduces the price for customers. I don't see the point of renewable	
Residential Non-PIPP	energy if we have to pay more	Neutral/Unclear
Residential Non-PIPP	Don't want to pay more.	Neutral/Unclear
Residential Non-PIPP	How will this effect our electric costs that we (the public) pays to you?	Neutral/Unclear
		<del></del>
	In the long run of bureing, maintailing and replacing, how cost effecty is your	

<u> </u>		
	Deliability of a second of the	
	Reliability and cost are most important to everyone I speak to. I am an AEP	
n tala talan DIDD	employee. My friends and neighbors know this. The only things they ever talk	N
Residential Non-PIPP	about are with regard to AEP is: Cost, reliability, and community service.	Neutral/Unclear
Residential Non-PIPP	Have you considered co-op operations	Neutral/Unclear
0 11 11 11 0100	I live in a 1500 sq ft house my bill is almost always over 300\$ which is absolutely	
Residential Non-PIPP	stupid but I already no you don't care thanx	Neutral/Unclear
n (1 () 1 N ()	In the near and long term electricity should be as inexpensive for consumers as	
Residential Non-PIPP	gas is!	Neutral/Unclear
Residential Non-PIPP	I can barely afford to pay my bill as it isdisabiled vet farmer	Neutral/Unclear
Residential Non-PIPP	I want energy that I can afford and are from sources that make that happen.	Neutral/Unclear
Residential Non-PIPP	Please keep energy affordable for low income and fixed income individuals.	Neutral/Unclear
	I care if I am going to see a reduction in my electric bill. If I am going to pay more	
,	\$ so you can invest or u keep the \$ for yourself and we rep no benefit in our bill. I	
Residential Non-PIPP	don't care	Neutral/Unclear
Residential Non-PIPP	choose the cheapest power - doesn't matter if it is renewable.	Neutral/Unclear
Residential Non-PIPP	will this increase or decrease our electric bill??	Neutral/Unclear
	Some areas within Franklin county especially the lower income areas have a	
	transformer that is not strong to handle severe winds, hail. Will this be looked	
Residential Non-PIPP	into at in those areas?	Neutral/Unclear
	Will it be safe from computer hacks?	
Residential Non-PIPP	Will it cost less?	Neutral/Unclear
	these changes have to produce an affordable energy option that is cost effective	
	for all consumers, it must be affordable and not increase the service to the place.	
	where baby boomers are strapped withe bill while the generation, behind, us	
Residential Non-PIPP	reaps the benefit, of our, payment	Neutral/Unclear
	Do not invest in renewable energy unless it will reduce costs to consumers. I do	
	not want to pay more for your renewable energy investment. Keep costs	
Residential Non-PIPP	affordable for the poor.	Neutral/Unclear
	If it lowers my bill l'm fine with it. If it costs more on my monthly bill, then !	
	will choose a different provider. It's my bottom line that matters most right	
Residential Non-PIPP	now. Not in a position to pay more	Neutral/Unclear
Residential Non-PIPP	The only concern is that the AEPOhio generation is very reliable!	Neutral/Unclear
Residential Non-PIPP	I want my energy cheap a reliable	Neutral/Unclear
Residential Non-PIPP	cost of service	Neutral/Unclear
Residential Non-PIPP	I think u should do what is most economical. Not political.	Neutral/Unclear
Residential Non-PIPP	the new meter gives higher amount bills since replaced	Neutral/Unclear
Residential Non-PIPP	would it be more expensive?	Neutral/Unclear
	All for it so long as it doesn't increase my bill.	
Residential Non-PIPP		Neutral/Unclear
	At what cost is this to me the customer. I know it will either increase your profits	
Residential Non-PIPP	or shares but what does it do for me the consumer.	Neutral/Unclear
	Yes, your costs are ridiculously high and seem to increase during Summer and	
	Winter. Find alternate energy means for the sake of my savings; future	<u> </u>
Residential Non-PIPP	generations can deal with there own issues as I am dealing with you now.	Neutral/Unclear
Residential Non-PIPP	Keep the price of electric low.	Neutral/Unclear
Residential Non-PIPP	Anything that reduce energy costs to the consumer!	Neutral/Unclear
Residential Non-PIPP	Generate power at lowest cost.	Neutral/Unclear
	Like I answered to the first question cost is most important. I am all for all of the	
	things that were listed as choices but if it is significantly more expensive it is not	
Residential Non-PIPP	worth it to me	Neutral/Unclear
Residential Non-PIPP	Lower bills????	Neutral/Unclear

Residential Non-PIPP	If this means a rate increase, I cannot afford it.	Neutral/Unclear
Residential Non-PIPP	stop stealing money from poor citizens	Neutral/Unclear
Residential Non-PIPP	Just reduce the cost to us.	Neutral/Unclear
Residential Non-PIPP	stay as you are supplying constant electric to my home	Neutral/Unclear
Residential Non-PIPP	would the cost of energy come down?	Neutral/Unclear
Residential Non-PIPP	No bill increase	Neutral/Unclear
residential from ( 1)	You are already charging too much for energy, please do not make investments	Treating Official
Residential Non-PIPP	that will cost your customers more.	Neutral/Unclear
residential Horrini	that will cost your customers more.	reduction Official
Residential Non-PIPP	Is it saving me money or is it going to cost me more because of development	Neutral/Unclear
Residential Non-PIPP	The energy costs need to be lowered and energy use more efficient	Neutral/Unclear
TO THE TOTAL	Why the did my bill triple this month? money hungry pigs. I'm	11000.04 0110.00.
Residential Non-PIPP	broke as and yet you still want to steal my money.	Neutral/Unclear
Nesiderida Non i III	broke us and yet you sail want to security money.	Treatray Official
	As a customer, getting my bill reduced is more important than anything. Only	
Residential Non-PIPP	invest in renewal energy that will help consumers reduce the cost of their bills.	Neutral/Unclear
Residential Non-PIPP	How much will the cost of change affect the cost of use?	Neutral/Unclear
Residential Non-PIPP	I want reliable and cheap power. Nothing else matters.	Neutral/Unclear
nesidential NOTEFIE	I just wish my darn electric would stay on and that AEP would do a better job at	reducial/Officient
Besidential New BIDD	maintaining their lines	Neutral/Unclear
Residential Non-PIPP	The most important consideration for energy generation is cost, far and above	Neutral/Onclear
Desidential New DIDD	everything else.	Novembly in close
Residential Non-PIPP Residential Non-PIPP	How expensive would this be to the consumer?	Neutral/Unclear Neutral/Unclear
	My electric bill is too expensive is the anyways you can help me	
Residential Non-PIPP	lwy electric bill is too expensive is the anyways you can help me	Neutral/Unclear
	I Aire d - f AFD hill in a a in b in b in b a	
	I am tired of my AEP bill going up expentially higher! I do not think I can ever	ļ
	afford wind or solar energy. Give people like me barely making it a break!	
	actually got NASA complete insulation in my house and keep my thermostat at	
	82! My bill still goes up! What can I d to lower my AEP bill!?? Also have new	
Residential Non-PIPP	double plane windowss! I need help!	Neutral/Unclear
	Our household is in agreement for any service that helps to maintain an honest	
Residential Non-PIPP	Energy Supplier.	Neutral/Unclear
	You charge way too much. If this lowers the cost then do it but if I have to pay	
Residential Non-PIPP	more then forget it.	Neutral/Unclear
Residential Non-PIPP	I hope this investment by AEP will not increase our electric bills.	Neutral/Unclear
	As long as it does not increase monthly costs for those of us that are retired and	
	living on a pension and it will be fine, but it does increase the monthly cost - then	1
Residential Non-PIPP	I would have to vote against it.	Neutral/Unclear
	Although I support the development of renewable energy, I cannot afford the	
Residential Non-PIPP	continuous and dramatic increases in my electric bills.	Neutral/Unclear
Residential Non-PIPP	dont raise rates on the customers	Neutral/Unclear
Residential Non-PIPP	Don't raise my bill.	Neutral/Unclear
	Now will	
Residential Non-PIPP	This increase my bill or lower it	Neutral/Unclear
Residential Non-PIPP	l'm good either way.	Neutral/Unclear
	AEP is enjoying a monopoly around where I live so I don't believe they care	
Residential Non-PIPP	about cost to consumers	Neutral/Unclear
Residential Non-PIPP	I would our cost to go down not up!!!	Neutral/Unclear
Residential Non-PIPP	what really do you mean by renewable energy	Neutral/Unclear
	Well first of all I really think AEP should focus more on their customers first, The	
	bill is always high I feel like AEP rip people off with high monthly bills I don't	
	understand why AEP charge so much I have check the meter and is running slow	
		Noutral/Unalogs
Residential Non-PIPP	and I'm not the only one that think like this google it.	Neutral/Unclear

· · · · · · · · · · · · · · · · · · ·	Cost. The current costs seem too high. I am hoping the new meters will fix some	· · · · · · · · · · · · · · · · · · ·
Residential Non-PIPP	serious problems with usage.	Neutral/Unclear
RESIDENCIA NON-1 II I	Scribus problems with dauge.	1100000
	AEP SUCKS! I changed my address and did not receive a notice from collections	
	until it appeared on my credit report I did not know it was delinquent. I would	
	have paid the bill in full if I had known it existed. If you do not REMOVE	
	NEGATIVE INFO after payment is received you will meet my attorney and I will be	
	sueing for damages as I have a home loan application in process and if denied	
	housing due to you lack of due diligence I will be seeking monetary damages.	
	indusing due to you lock of due dingence i will be bearing monetary will ages	
Residential Non-PIPP	[DELETED DUE TO PERSONAL IDENTIFIABLE INFORMATION]	Neutral/Unclear
	You charge way too much for electric service, actually it's all the riders you put	
	on the bills. If your new endeavors further increase the riders and utility charges	
Residential Non-PIPP	then forget it, I don't want things to change.	Neutral/Unclear
	Right now, electric bills our way too high- higher than all other utilities - never	
Residential Non-PIPP	know when electric is going to be out.	Neutral/Unclear
Residential Non-PIPP	try keeping the cost down cause we're all POOR.	Neutral/Unclear
	What I would prefer is that AEP focuses on keeping my power on consistently	
Residential Non-PIPP	NOW. We have lost power in my area 3 times in the last 2 months.	Neutral/Unclear
Residential Non-PIPP	Concerned if there is going to be an increase in cost per month.	Neutral/Unclear
Residential Non-PIPP		Neutral/Unclear
	Unit price is the biggest concern. As long as the electricity bill does not increase, I	
Residential Non-PIPP		Neutral/Unclear
	we cant afford to put out any more money and I think that if aep is up grading	
Residential Non-PIPP	they need to do it with there money in stead of charging the costumer	Neutral/Unclear,
	What are the upper limits for Solar energy percentage in Ohio, and what are the	
Residential Non-PIPP	upper limits for Wind energy percentage?	Neutral/Unclear
Residential Non-PIPP		Neutral/Unclear
Residential Non-PIPP		Neutral/Unclear
Residential Non-PIPP	I didn't realize when I signed up there were going to be 2 bills to pay.	Neutral/Unclear
	American Electric Power is affiliated with American Energy Partners. This is so	
	misleading and needs to be stopped. You are ripping people off.	
Residential Non-PIPP	Just provide low cost energy possible with honesty.	Neutral/Unclear
Residential Non-PIPP	Please reduce the electricity price. Thanks	Neutral/Unclear
Residential Non-PIPP	If it makes my prices any higher not interested.	Neutral/Unclear
Residential Non-PIPP	what is this going to cost taxpayers or customers?	Neutral/Unclear
Residential Non-PIPP	I don't want to see my electric bill go up as a result	Neutral/Unclear
	The minimal cost mentioned now will likely increase considerably soon after	
Residential Non-PIPP	implementation.	Neutral/Unclear
	I can't believe you people are taking something so much cheaper to produce and	
Residential Non-PIPP	actually make it more expensive just to get more money. Ugh.	Neutral/Unclear
Residential Non-PIPP	Is it possible for locals here in Ohio to have solar Power	Neutral/Unclear
	Ø¥Ù+ Ø\$لؕØ\$Ù,Ø© Ø\$Ù"ÙØºØ-دذ© Ù+ÙŠ Ø•Ø\$Ù,Ø© Ù+Ø¸ÙŠÙØ©	
	تسØ\$عدØïلى تخٮŠÙ®\$لإنبعØ\$Ø«Ø\$ت Ø\$لضØ\$رة	
Residential Non-PIPP	Ù^تؤÙÙ+ ÙØ³ØªÙ,ؓل Ø£Ù <b>Ø</b> ¶Ù" للأØ~يال الÙ,Ø§Ø¯ÙØ©	
Residential Non-PIPP	Hope you are looking to keep costs down for customers.	Neutral/Unclear
	of not knowing my usage of electric is unexpected. I need actual reading, not	
Residential Non-PIPP	For 2 month a guessing game.	Neutral/Unclear

- <u> </u>		
Residential Non-PIPP	This questions on this survey are so slanted toward AEP how can it be impartial?	Neutral/Unclear
Residential Non-PIPP	My bill is always toooooo high.	Neutral/Unclear
Residential Non-PIPP	What are the costs involved?	Neutral/Unclear
Residential Non-PIPP	will this result in yet another charge to the customer?	Neutral/Unclear
Residential Non-PIPP	The Important to the customer is to lower our bill.	Neutral/Unclear
Residential Non-PIPP	Will this increase or decrease my extremely high electric bills???	Neutral/Unclear
	Because is rally expensive	
Residential Non-PIPP		Neutral/Unclear
Residential Non-PIPP	I need for AEP to keep my electric bills as low as possible.	Neutral/Unclear
Residential Non-PIPP	I just don't want this to end up with increased utility bills.	Neutral/Unclear
	am curious about the question about renewable energy creation within the	
	State of Ohio wouldn't line loss reduce the efficiency and viability of renewable	
Residential Non-PIPP	energy creation distant from it's point of use?	Neutral/Unclear
	It's very Important to keep our prices down expically for older people on	
Residential Non-PIPP	fixed income so they can eat and live a little better!	Neutral/Unclear
Residential Non-PIPP	Only consideration should be cost and reliability.	Neutral/Unclear
		rication officied
Residential Non-PIPP	Concerned for continuous uninterrupted or at least limited interrupted service.	Neutral/Unclear
Residential Non-PIPP	Keep it as cheap as possible however that looks.	Neutral/Unclear
lesidential Non-PIPP	DON'T RAISE PRICES TO DO IT	Neutral/Unclear
Residential Non-PIPP	Thank you.	Neutral/Unclear
	Cost for the customer is also one of the most important factors	<del>                                     </del>
Residential Non-PIPP Residential Non-PIPP	AEP rates are already excessive. Do not raise them further.	Neutral/Unclear Neutral/Unclear
Residential Non-PIPP	into higher electric bills at any point in time? Will the use of renewable energy positively impact families living in poverty?  Organizations like Godman Guild are able to work with AEP Ohio to develop training programs for individuals needing jobs with tracks to careers.	Neutral/Unclear
Residential Non-PIPP	If we're heading towards the increasing use of automatons & automatic readers why not invest in cleaner & cheaper (per cost by watt & hopefully recyclable products/parts) labor overall locally so that at least towards the great lakes region & the Ohio river it could compete with the western/eastern parts of the U.S. as well as use less coal in southern Ohio & parts of the Virginias	Neutral/Unclear
Residential Non-PIPP	lower the cost of energy	Neutral/Unclear
Residential Non-PIPP	I would like save every electrics less cost i alway keep light off at nite I used to on when I'm watch to and so less cost save my money live my place no plm	Neutral/Unclear
lesidential Non-PIPP	I want the most affordable power possible.	Neutral/Unclear
esidential Non-PIPP	don't increase electricity price	Neutral/Unclear
esidential Non-PIPP	great service	Neutral/Unclear
esidential Non-PIPP	Price is more important	Neutral/Unclear
esidential Non-PIPP	Do anything that will lower my cost. I can't afford your electric now.	Neutral/Unclear
esidential Non-PIPP	quit sending me survey, I'll drop you	Neutral/Unclear
esidential Non-PIPP	Why my bill is to mouch and i make fix pament can u get me offer for builing is great dill for me	Neutral/Unclear
Residential Non-PIPP	It might help your customers if you use less confusing words in some of your messaging. The email titled "Utility-sourced renewable generation" did not encourage my interaction. Additionally, I get too much volume of email from AEP and am not likely to read what you send.	Neutral/Unclear

	I cant afford any more money for extra bills I live on a limited income I cant even	
Residential Non-PIPP	buy food and have no public assistance to help pay for anything	Neutral/Unclear
	your power is way to over priced. I can never retire because of this never ending	
Residential Non-PIPP	expense !!!!!	Neutral/Unclear
Residential Non-PIPP	I don't want to pay any more than what I currently do	Neutral/Unclear
Residential Non-PIPP	Keep rates as low as possible.	Neutral/Unclear
	1/	
	アンケートにご協力いただいた皆様、ありがとうございました!調査を	
	すでに完了している場合は、このメッセージを無視することができます	
Residential Non-PIPP	0	Neutral/Unclear
	If it is going to continually spike our rates which are ridiculous already then can	
	the idea. Electric regardless of how big of home and efficiency should not be	
	what it is. Private residences 3000 sq. ft. and under should not have \$600 to \$1k	
	bills in the winter, and spring and fall should never reach 3to4 hundred. I seen	
	my by go up insane amounts in just one year about 6 to 7 years ago when rates	
	started to climb. If ESO regulations have reduced or is holding steady with	
Residential Non-PIPP	current standards then do not invest in renewable in the midwest.	Neutral/Unclear
Residential Non-PIPP	How will this effect my bill?	Neutral/Unclear
Residential Non-PIPP	Don't raise my bill	Neutral/Unclear
	I honestly don't care if you do or don't do the renewable energy as long as you	
Residential Non-PIPP	don't increase my bill. But you most likely will so I may just switch over to solar.	Neutral/Unclear
	I'm guessing this survey is for the consumer to agree with "greener" ways of	
	receiving electric. With that being said, I also guessing that that will come with a	
Residential Non-PIPP	price that will be extended to the consumer.	Neutral/Unclear
	Just that, my AEP bill is off the charts with AC, night lites, tv only electric and	
Residential Non-PIPP	necessary items being used. Lights are never used but on occasion.	Neutral/Unclear
	If it is a lot more expensive to use renewable sources I would prefer not to I like	
Residential Non-PIPP	my electric bill as low as possible.	Neutral/Unclear
Residential Non-PIPP	Do mot increase my bill.	Neutral/Unclear
Residential Non-PIPP	How expensive?  ▼	Neutral/Unclear
Residential Non-PIPP	I don't want higher bills!	Neutral/Unclear
Residential Non-PIPP	Already did	Neutral/Unclear
	Don't have enough information to make reasonable comments. How much is my	
	bill going to go up to finance this development? As a senior I cannot afford	
Residential Non-PIPP	additional utility bills.	Neutral/Unclear
Residential Non-PIPP	Will this now development as you call it. lower my hill? That's all I care about	Neutral/Unclear
Residential Non-PIPP	Will this new development as you call it, lower my bill? That's all I care about  Why should I pay \$30 plus dollars even If im not home for 2 months not using	Neutral/Officiear
	any electricity? I'm from NYC and over there IF you don't use energy, then you	
Booldontial Nam DICC	dont get charged for it! It's ridiculous that I have to pay for distribution even if I	Noutral/Heatage
Residential Non-PIPP	didn't use energy.	Neutral/Unclear
Residential Non-PIPP	Hopefully this doesn't raise our power rates again!	Neutral/Unclear
	l installed solar hot water \$10,000. 1983. Sold house in 2009. Very very long pay	
	back for high investment. Based on putting money on the table and 26 years	
	experience I am NOT CONVINCED that solar, or wind are viable in Ohio or	
	Connecticut where I used to live. / Ask me about photovoltaic installed on each	
	house grid connected with the "meter running backward" and I have definite	
	opinions - that AEP will not want to hear and therefore the reason you are NOT	
Desidental No DICC	asking! Hundreds and thousands of little electricity producers with photovoltaic	Marshaal/Haralasa
Residential Non-PIPP	beats solar or wind concentrated in one hand (AEP) -hands down!	Neutral/Unclear

Residential Non-PIPP	Way to expensive I wish there was another energy company	Neutral/Unclear
Residential Non-PIPP	thanks always for providing us with out electricity	Neutral/Unclear
	I would want to ensure that energy costs did not become even more	
Residential Non-PIPP	unaffordable because of this change.	Neutral/Unclear
Residential Non-PIPP	No	Neutral/Unclear
Residential Non-PIPP	As long as the prices come do I'm good with whatever you me to do!!	Neutral/Unclear
Residential Non-PIPP	Reliable power and dependable	Neutral/Unclear
Desidential New DIDD	My bills are always huge. I live in a small condo and in between two others. So in other words I m enclosed on both sides by other units. It makes no sense to me. I have tried very hard to keep my electric turned off if I'm not using it. I've changed all my light bulbs to LED light bulbs. I don't get it. And I'm tired of being ripped off. I also need to get on the budget plan for the winter. But I'm sure	
Residential Non-PIPP	that's a huge hassle like everything else.	Neutral/Unclear
	I don't care about renewable sources. Want lowest utility bills possible however	
Residential Non-PIPP	you make that happen please!	Neutral/Unclear
Residential Non-PIPP	Will the rates go down with this?	Neutral/Unclear

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**Residential PIPP Responses** 

Coome aust	Do you have any comments regarding AEP Ohio's development of renewable	
Segment	energy generation that you would like to share?	Comment Category
	This is the most wonderful initiative I've seen in a while! Please. Please do this.	
Residential PIPP	Our planet needs us!	Supportive
n - dd - dd I pipp	Hopefully it will allow us to have less power outages ever since the Beverly	
Residential PIPP	hydroplant closed the power goes out on a continued basis	Supportive
Residential PIPP	Renewable energy means lower bills and a better environment.	Supportive
Residential PIPP	Hopefully it makes the energy bills lower in cost.	Supportive
	Wind turbines make great electricity. Use them in the state to reduce costs. On	
	the old land fill out side of mount Vernon is a great high point to put one. It	
Residential PIPP	could power the city and more.	Supportive
	If we in the more Rural areas were able to help, whether by solar or wind, it	
	would help everyone. We could reduce the destruction of the ozone layer, clean	1
	the air, which would be beneficial to the health of people, and make us energy	
Residential PIPP	independent.	Supportive
Residential PIPP	What took you so long?	Supportive
	I believe renewable energy is the key to solve the global warming problem, we	
	should alwaya be on the front of new technology instead of trying to keep the	
	old way up to date by "patching" it. I say embrace the new way, the better way	
	of doing things. It is time to catch up with Europe on many things, and to help	
Residential PIPP	make our planet better.	Supportive
Residential PIPP	I hope to see great advancement in renewable energy in the very near future.	Supportive
Residential PIPP	Do it quickly. The environment is in trouble. I like the idea of clean energy.	Supportive
Residential PIPP	It would hopefully create more jobs!!!	Supportive
Residential PIPP	Anything that will save energy and cost on our electric bills I am for !	Supportive
Residential PIPP	Renewable energy should most certainly be used to make our State better.	Supportive
	Using wind and solar is a great idea. If we can harvest it to also use during the	
	winter when the sun is out for a shorter time period it would be fantastic. I	
Residential PIPP	personally would put panels on or near my home.	Supportive
Residential PIPP	Very good program: maintain, and do more.	Supportive
Residential PIPP	I'd love to see alot more solar/wind incentives for residential usage.	Supportive
	It could lower the cost to the customers as well as the company due to carrier	
Residential PIPP	charges an whatnot	Supportive
Residential PIPP	Put some on our land	Supportive
Residential PIPP	I've always been interested in solar energy.	Supportive
Residential PIPP	I have land if interested for wind mills.	Supportive
Residential PIPP	Should save customers some money!	Supportive
	Very happy you are considering investing in renewable sources for our future.	
Residential PIPP	Thank you.	Supportive
Residential PIPP	Be nice to be 100% renewable energy	Supportive
Residential PIPP	SImply YESmore more wind and solar!!	Supportive
Residential PIPP	Wind turbines needed.	Supportive
	Finally? planet preservation overrides greed? This is a fantastic move on AEP's	
Residential PIPP	part, but WE all know that money supersedes common sense and goals.	Supportive
	l'm thrilled to learn that this is something AEP is looking to do!! I believe	1
	using renewable energy sources is very important for so many reasons, not the	
	· · · · · · · · · · · · · · · · · · ·	Supportivo
Residential PIPP	fleast of which is our personal nearth and the fleath of our planet,	120DDOLUVE
Residential PIPP	least of which is our personal health and the health of our planet.  It would be nice if it was in Ohio, but if you are switching to solar and wind for	Supportive
Residential PIPP	It would be nice if it was in Ohio, but if you are switching to solar and wind for more of the energy, it can come from anywhere in the us.	Supportive

	I have seen in Europe that they use trash to generate energy. Roads to generate	
	solar energy. Roof tops for solar energy. Huge amounts of potential for real	
Residential PIPP	change if we will look and do for human benefit not just profit.	Supportive
residential i ii	I am glad to know that renewables are being used for power productionit will	Supportive
	help protect the earth for generations to comewe have to stand up and be	ĺ
	responsible caretakers for the gift of life we have on this planet called Mother	
Residential PIPP	Earth	Supportive
Nesidelitial FIFF	Cdi UI	Supportive
	I would like to see AEP using wind and solar energy more then any other	
Residential PIPP	resources. Also helping it's customers to be more independent with solar energy.	Supportive
Residential PIPP	I'm glad you've(AEP) finally taken an interest IN preserving the earth.	Supportive
Residential PIPP	Taking advantage of free energy just seems like a no-brainer to me.	Supportive
	Another round of low cost programs for solar and small wind turbines for	J
	residential customers is necessary. Stopping ALL fossil fuel usages to power and	
	heat homes in this and future centuries is irresponsible to the planet and causing	
	its death unnecessarily! Why does AEP's COO believe the weather is becoming so	
	extreme? It is the people occupying this planet that causes most of the reactions	1
	by the atmosphere and the planet. It is the base greed by all fossil fuel	
	companies that has created so much turmoil with this green earth. It can be	
	turned around by the countries and companies that abuse the fossil fues byl	
	drilling, but only by refusing to continue using all fossil fuels to enrich	
Residential PIPP	themselves.	Supportive
	Honestly I think it's a wonderful thing and am even exploring options for my	
	home since I know it isn't the bulk of AEP generated electricity supplied to	1
Residential PIPP	me.	Supportive
	I personally think this is an amazing idea and one that would not only help Ohio,	
	but the world. People are going to disagree with this because they lack common	
	sense but you can teach them and show them renewable energy is the way to	
Residential PIPP	live. Good luck.	Supportive
Residential PIPP	Cleaner is better for our offspring, period	Supportive
Residential PIPP	Free energy. It's really a no-brainer. Get it done.	Supportive
	I think each year we need to better our electricity. We need to keep getting it	
	from Ohio and giving Ohioans jobs. We need to keep getting cleanerPair for	
	future generations. And we sure need to get better programs for people who	
	cannot afford aep all the time. We need to also find a way to lower the cost of	
Residential PIPP	electricity especially since we are getting it from Ohio.	Supportive
	Divest from coal.	
	Start lobbying for green energy.	
	Promote an energy buy-back program for homeowners and businesses, install	
Residential PIPP	the meters for it.	Supportive
n - M - M - M - M - M - M - M - M - M -	renewable energy generation is the right thing to do for the country and for the	
Residential PIPP	world. If the US doesn't get on board we will be left behind in the future.	Supportive
Residential PIPP	do it, don't just talk about it	Supportive
Residential PIPP	Please use wind turbines	Supportive
Residential PIPP	It's our future to provide a clean environment for generations to come.	Supportive
Residential PIPP	Environmently Friendly!!!	Supportive
	I believe that this is a greater step to ensuring a better quality of life for all	1
	people that are customers or not. Jobs created within the state of Ohio as well as	
Residential PIPP	supply and demand at hopefully a better rate.	Supportive
Residential PIPP	go for it	Supportive

	If you're going to create local jobs make it fair in the education of and hiring	1
Residential PIPP	procedures for all races	Supportive
Nesidential FIFF	We're seeing catastrophic global events due to climate change. It's imperative we	
Residential PIPP	not kill ourselves. That is all.	Supportive
Residential PIPP	Generation in Ohio may create jobs.	Supportive
Residential PIPP	Glad your trying	Supportive
Residential PIPP	Just do it, (&thumb your nose at Trump).	Supportive
Residential PIPP	Its good that AED Objective dayslanment of ranguable aparts, generation	Supportivo
	Its good that AEP Ohio's development of renewable energy generation	Supportive
Residential PIPP	Doing a great job.  as a electrician, I understand the need for energy diversity, fossil fuel has been	Supportive
Residential PIPP	the norm, but will not last forever.	Supportive
Residential PIPP	I am glad you are working in this direction to improve our environment	Supportive
	aep development of energy well help all of us.an hope it bring down the coast of	
Residential PIPP	useage.	Supportive
	I fully believe that as a whole mankind cannot afford not to diversify our energy	
	sources. Life moves on and we cannot hold this evolution of the society back so	
Residential PIPP	we must move forward.	Supportive
	I think its a great idea for AEP to invest. I have read so much on renewable	
Residential PIPP	energy.	Supportive
	Solar the best bet for now. Hydrogen should be used also, on a limited basis due	
	to necessarily limiting it because of the danger of it falling in wrong hands.	
Residential PIPP	Helium 3 the ultimate best source known. Mine the MOON!	Supportive
<u>`</u>		
	We need to start depending on renewable energy, to further ourselves, our	
	planet, and the future generations. We can't depend on non renewable energy	
Residential PIPP	forever, and we have to take better care of the planet on which we all live.	Supportive
residential in i	While initial costs for solar wind towers are quite high, they produce enough	Supportive
	energy to pay for themselves within a relatively small window frame. I throughly	
	enjoyed the opportunity to see how it works first hand when I lived in a different	
Residential PIPP	state.	Supportive
Residential PIPP	Keep the public informed.	Supportive
	Speed it up! Ohio is always behind on these types of issues. Bring it to the people	
	with confidence and a voice. People in this area don't want a survey, they want a	1
Residential PIPP	hand shake and commitment.	Supportive
Residential PIPP	I think it this is another brilliant step in the right direction.	Supportive
Residential PIPP	do it	Supportive
Residential PIPP	I think the biggest benefit is diversity. Just my opinion.	Supportive
Residential PIPP	It's great that AEP is considering using more renewable energy, thanks so much!	Supportive
	Luca del la cata a caracteria de cada cata a caracteria de la catacaca a a de la catacacaca de la catacacaca de la catacacacaca de la catacacacacaca de la catacacacacacacacacacacacacacacacacaca	
	I would love to see more wind and solar provided energy sources in Ohio and	
	around the country. I feel it is important to our country's future and the future	
	of generations to come. Eventually oil will no longer be a resource that is readily	
n 11 (110)==	available and we will need to have other sources to provide for our needs. These	ł .
Residential PIPP	other sources will be a valuable commodity to our communities.	Supportive
Residential PIPP	Keep striving to make renewable energy sources.	Supportive
	I'm pleased to see that your company is moving into the future of renewable	
D . I	energy. We as a species should contribute to the earth and take only what we	
Residential PIPP	need.	Supportive
	I would like to see more "healthy" energy produced for our earth and future	
D1-1	generations with the cost for the middle class kept in mind when considering	
Residential PIPP	which sources and/or combination of energy generating sources to use.	Supportive

	A. L	··········
	As long as it doesn't cost consumers more money it's a good idea. While	
Desidential SISS	we need as many ways as possible to get energy people can't afford to pay	
Residential PIPP	more for it.	Mixed
Residential PIPP	I think it's a good idea as long as the do not get anything from China	Mixed
Residential PIPP	Why not put solar panels on the top of the wooden poles that go along our road.	Mixed
Residential FIFF	Hopefully your also exploring how to provide these services so they will be more	
Residential PIPP	affordable especially to those on low or fixed incomes	Mixed
- The State of the	like to see you help customers get solder panels for there homes to use as a back	
Residential PIPP	up power supply	Mixed
	As long as it doesn't make rates go up in all for it! Solar and wind energy have	
Residential PIPP	proven what they can do. It's time to use it!	Mixed
Residential PIPP	Try adding hydro power into it.	Mixed
	Looking forward to this happening, as I'm sure the savings will be passed into the	
Residential PIPP	customersthrough lower costs in the future.	Mixed
	I wish I could afford solar panels & wind mills for my home. Being on a fixed	
Residential PIPP	income it isn't possible.	Mixed
	Offer those who own their home and live on limited income a way to lower the	
Residential PIPP	bill & help bank energy with solar panels and/or wind.	Mixed
	I think we should eb allowed to go fully solar we we as customers wabt to, but	
Residential PIPP	also habe aep service for when solar isnt working well.	Mixed
	I like the idea of solar energy but not big on the idea of wind because of having	
	those turbines in this county (Seneca). I don't think that would be a good thing	
	to do to the environment and the people who live here. They should be put	
Residential PIPP	somewhere were there's more open space and no people.	Mixed
Residential PIPP	Need to use our own solar panels	Mixed
	Residents near wind turbines are strongly put off by the intense noise pollution	
	stating the turbines sound like jet engines running frequently. Property values	
	are dropping near these wind farmslet us explore various uses of wind power	
Residential PIPP	to find a more silent and effective "windmill".	Mixed
Residential PIPP	The renewable energy needs to be a reliable source.	Mixed
Residential PIPP	Just hope it won't cost us more if this is the way you decide to go.	Mixed
Desidential DIDD	I think our power bill is high enough with all the taxes and fees charged. But	B 45
Residential PIPP	natural resources is a very good option.	Mixed
	It's important for each state to have independent energy resources to include an energy grid for each state. This would prevent many states from losing power if	
	there is a grid problem. (Example: Texas)	
	Fossil fuels are our most reliable source of energy followed by hydro- electric.	
	Until solar and wind generated power can be as reliable; they will have to remain	
Residential PIPP	as supplemental power sources.	Mixed
Nesidellilai FIFF	Renewable energy is supposed to be cheaper than what we have now. How	iviixed
Residential PIPP	much will this increase our electric bills?	Mixed
RESIDENTIAL LITT	THOCH WILL CHARLES OUT CICCOLO SINS:	IVIIAEU
	Let's not create laws making renewable hard to implement for individual	
Residential PIPP	people them being off the grid helps the grid provide power to others.	Mixed
	Y don't you pick some houses and put solar on there roofs that way we can	remod
Residential PIPP	all save money	Mixed
	an out a name y	TTIAGG
	Don't rush into anything that hasn't been fully vetted. Take the time necessary	1
Residential PIPP	to make sure any renewable energy is really sustainable and dependable.	Mixed
Residential PIPP	Do it without raising our bills	Mixed
Residential PIPP	Sounds great if it doesn't cost us more on our already high rates	Mixed
	Indiana Birmin in annual and annual annual annual infilinger	,

	Ok renrwable energy is great but at what cost? Utility companies cannot have a	
	blank check cannot waste our \$ on the name of research and charge whatever	
	price they want.	
Residential PIPP	price troy warter	Mixed
Nesidential i ii		WINCO
	Solar panels on houses that are billed by AEP at lower cost, or even with a	
	payment plan that could lower electric bills of that household and possibly feed	
	back to the grid. If that would be put into effect also offer insurance (like the gas	
	company monthly payment within the bill) to service and repair those issues that	
Desidential DIDD	would be considered the homeowners responsibility after install.	Mixed
Residential PIPP	I would love to converty home t solar power. I have been told there are	Iviixed
•		
	programs to help with this and fixing insulation etc in homes. I would love to	
	contact these programs!!! The earth needs us! And we need it. We cant continue	
Residential PIPP	wasting it!	Mixed
	It describes a server to be the best solution to the The Collins of the server.	
	Hydroelectric seems to be the best solution to me. The fish hatchery program	
	was developed to deal with the migrating fish issue. I also do not believe these	
	dams have to be so high. They make them high so the gravity of the water falling	
	increases energy in the water but this is not absolutely necessary to generate	
	electricity. Smaller dams would not produce year round because they do not	
Residential PIPP	have a huge reservoir but neither will wind or solar.	Mixed
a distribution		
Residential PIPP	I think it's a great idea assuming that it also cut the cost on your electric bill	Mixed
	Offer solar panels are a more reasonable price to consumers to help with energy	
Residential PIPP	generation	Mixed
	When wind farms are built they should not be within a reasonable distance from	
	a town or so close to property lines. There where 3 large wind mills placed about	
	three hundred yards from my home. On windy days we can hear them. I wish we	E.
Residential PIPP	had a choice in this.	Mixed
	The more you do to create jobs and save the environment the more support you	
	will have. Just dont eliminate current jobs instead train them to your new	
Residential PIPP	systems.	Mixed
Residential PIPP	Ya we over pat as it is stop riasring the price we barley can feed are families now	Negative
ACSIGE FOR THE	To the order to the process of the control of the c	THE BULLE
	The cost of manufacturing windmills and solar panels greatly counter the	
	practicality of using them. Any savings is substantially offset by this. Also, these	
	forms are not constant. The wind doesn't always blow and the sun doesn't	
	always shine. The only way to harness the power is by using batteries, which	
	again, the harm done by manufacturing batteries and then disposing them is far	
Residential PIPP	worse than coal or natural gas to the environment.	Negative
	i think you should use gas to generate power its cheep and renewable	
Residential PIPP		Negative
	My husband currently works at AEP and his coal plant is scheduled to close down	
	in the next couple years so I am against them changing to a different kind of	
Residential PIPP	energy!!!!	Negative
Residential PIPP	Stick with coal. Or do you not care about saving the consumer money?	Negative
	what a wast of money on tech rthat is not efficient enough for the commercial	
	market. what is the problem with clean coal. it's proven, efficient and cost	1
	effective, not to mention Ohio has an abundance of it, so does the rest of the	
	country. Politics destroy's good tech for rthe wasteful benefit of "trying " to look	
Residential PIPP	"green'.	Negative
	· · · · · · · · · · · · · · · · · · ·	·

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	The reason I chose "moderately Imp." for Ohio created renewable energy is that	
	if you HAVE to do this, I would prefer Ohio based renewable energy. I am	
	actually against the idea. Wind turbines kill thousands of migrating birds, and	
	solar energy is often contracted out to non USA companies, or sham companies,	
	as happened when Obama gave millions of dollars of taxpayer's money to a solar	
	company out west that went bankrupt! It sounds nice and trendy, but is	
	impractical. FYI: I have a tiny carbon footprint; don't own a car and have few	
Residential PIPP		Negotive
Residential PIPP	appliances.  It will most likely make rates go up.	Negative
Residential PIPP	Coal, natural gas and nuclear is cheaper	Negative Negative
Residential PIPP	Don't like it - coal is cheaper.	Negative
Nesidential i ii P	DOIT Clike it - Coar is Cheaper.	ivegative
	You should be investing your resources in the Conesville Ohio plant. I live in	
1	Coshocton county this operation is very vital to our community, why not invest in	
	something you already own, instead of something you don't own. Is there any	
Residential PIPP	common since left in management anymore ? my answer is probably not !	Mogativa
Residential FIFF	Having seen this in numerous areas, it turns out to be a waste of time and	Negative
	money. I believe it is just to satisfy unfounded concerns by environmentalists.	
Residential PIPP	Our planet is NOT fragile! God doesn't make junk!	Negative
Residential PIPP	no	Excluded
Residential PIPP	non @ this time, thanks	Excluded
Residential FIFP	non w this time, thanks	Excluded
]	This is the second time I've taken this survey. I don't know much about these	
Residential PIPP	windmills but my understanding is they deplete instead of helping???	Excluded
nesidential Fire	Give the people cheaper electric rates. You charge way too much and keep	Excidued
Residential PIPP	"riders" in place years after the storm damage occurs.	Neutral/Unclear
Residential PIPP	Do whatever keeps my electric bill lower.	Neutral/Unclear
Residential PIPP	I'd like to see America stand on its own two feet.	Neutral/Unclear
Residential PIPP	Lower ele. Bills and not so many outages	Neutral/Unclear
Trestaetrelat 1 11	Reliable, efficient, low cost energy is important. Reliable transportation and	ivedial officient
Residential PIPP	delivery is more important.	Neutral/Unclear
Residential PIPP	I'm not complaining you guys treat me good you guys also respect me	Neutral/Unclear
Treate and the property of the	My bill is extremely to hight for a single mom of 4 to pay. Maybe my metor	14cdtaly official
Residential PIPP	needs to be read more often	Neutral/Unclear
Residential PIPP	Lower my dame bill	Neutral/Unclear
Residential PIPP	Keep it inexpensive	Neutral/Unclear
Residential PIPP	Lower costs, all the extras charges are getting out of control	Neutral/Unclear
Residential PIPP	Yes lower utility bills would be nice	Neutral/Unclear
Residential PIPP	My bill is too high.	Neutral/Unclear
	Seems cost keeps going up. We that are on fixed income have a hard time paying	
Residential PIPP	our monthly bill. Anything that reduces higher rates is not good for seniors.	Neutral/Unclear
	, , , , , , , , , , , , , , , , , , , ,	
Residential PIPP	keep the cost down!!!!! we pay TOO MUCH for our electric the way it is!!!!!!!	Neutral/Unclear
Residential PIPP	why	Neutral/Unclear
Residential PIPP	Hopefully it lowers the cost of electric	Neutral/Unclear
Residential PIPP	Something help keep bill affordable	Neutral/Unclear
Residential PIPP	Keep it low cost	Neutral/Unclear

Small C&I Responses

Segment	Do you have any comments regarding AEP Ohio's development of renewable energy generation that you would like to share?	Commont Category
Small C&I	We need to slow down carbon emissions to slow global warming!	Comment Category Supportive
Small Con	Less than 10% of energy coming from alternative renewable resources seems	Supportive
	low. Of course I don't know what the industry standard is. I would be interested	
	to see/hear what AEP's goal is over the next 5 and 10 yr. period to increase this	
Small C&I	%.	Supportivo
Small Col		Supportive
	We have solar panels that were made possible by your rebate program several	
	years ago. Thank you for your support of solar energy! [any chance of another	
Small C&I	rebate program???]	Supportive
	Please stop depleting the planet's resources and switch to 100% renewable	
Small C&I	energy as soon as possible. Thank you.	Supportive
Small C&I	Do it	Supportive
Small C&I	Would be interested in renting out ground for solar panels.	Supportive
Small C&I	Think this is a worthwhile endeavor and encourage you to pursue it	Supportive
Small C&I	Should have been done years ago	Supportive
	Yes start using your resources and lower the cost of generation service it's	
Small C&I	border line crimina	Supportive
	Please make the effort to move towards greater renewable energy. As a country,	
	we've been far too driven by profits over responsibility and have likely dragged	
	our feet on moving towards renewable energy due to the cost of conversion.	
Small C&I	Lead the way.	Supportive
	It will be easier for us to get behind the initiative if it is providing jobs in our	
Small C&I	communities.	Supportive
	I think it's wonderful. A company so big to really look to the future and	
Small C&I	protect our planet is a huge and worthy investment.	Supportive
	Check out Florida's energy services. They switched all their plants to natural gas	
	and supplemented with solar panels. They may have the least expensive	
Small C&I	electricity in the country. Ohio may not have enough sunshine for solar panels.	Supportive
	Would like it to happen as soon as possible for my grandchildren's long term	
Small C&I	health.	Supportive
	Yes I have a perfect đŸ'Œ very large open flat parcel of property with a	
Small C&I	transmission line running through it. You should contact me!!	Supportive
	Again I would like to see AEP do what they can to embrace renewable & get	
	away from fossil fuels so to protect the planet for our children. If AEP could	
	invest into more R&D it could create more jobs & investments in the USA rather	
Small C&I	than China.	Supportive
	It would be nice to have the type independence with the grid in Ohio that Texas	
	has. If the effort was made to allow our "state produced" power to be shared	
	with other utilities until circumstances warrant the "state produced" utilities be	
	diverted back to statewide use only, such as in the event of EMP strike or other	
Small C&I	type of grid damage do to outside attackers.	Supportive
	Type - gird damage do to outro attanto	
	This would be one of the most amazing things ever. I have always wanted to	
	move to solar panels, but couldn't afford to. If energy companies moved to	
	renewables, nobody would have to do that! It seems like the only thing that	
	really makes sense. We are wasting trillions of gallons of fresh water with	
	fracking for gas, etc. It makes no sense when we could move en masse to	
Small C&I		Supportive
SITIALI COL	something better that made more sense.	Supportive
	We have a large area of farmland that is not farmable. We think it would be a	
S 11 CO.:	perfect location for solar panels. We are very interested in renewable	C
Small C&I	energy's.	Supportive

	Cala Caraba Gardha abada a la anta da la cala  T	
	Solar Energy has finally reached the place where it makes good business sense.	
	AEP Ohio needs to encourage all customers to include solar in their construction	
S II CO I	plans.	
Small C&I		Supportive
Small C&I	It is important and well worth increasing use of renewable energy resources.	Supportive
Small C&I	Solar and wind are much better options than fracking to get natural gas.	
Siliali Col	Renewable energy is good for everyone and I am very happy as a design	Supportive
S		C
Small C&I	professional to see AEP pursuing this.	Supportive
Small C&I	I hope with possible developments of renewable energy it will cost cheaper.	Supportive
Sittati Car	Changing from proven energy sources to newer, cleaner ones is difficult but I	
Small C&I	fully support the effort and I appreciate the hard work.	Supportive
Small C&I	It is about time you get with the program.	Supportive
Sindir Con	We have visited so many other states that are taking advantage of renewable	Supportive
Small C&I	energy. Ohio needs to do the same.	Supportive
Sman Con	chergy. Onlo needs to do the same.	Supportive
Small C&I	I beleive it is the future of energy and should be utilized as soon as possible.	Supportive
Small C&I	Ohio Jobs for Ohio Families!!	Supportive
Jiman Gai		3
Small C&I	I always wondered if it was feasible to use sewer flow to generate power	Supportive
Small C&I	I own land along your power line lets do solar and or wind	Supportive
	Please continue to pursue utility renewables. I fully support, especially because	
	it's still difficult and confusing for consumers to pursue their own residential	
Small C&I	renewable generation	Supportive
Small Car	Tenewable generation	Supportive
Small C&I	I believe that it is a responsible business approach that will benefit customers.	Supportive
Small C&I	Wind!!!	Supportive
	AEP has earned my trust as a company through their quality service and product.	
1	I trust them to make decisions that will keep our great state and country well	
	supplied with the energy we need, energy diversified, energy independent and	
Small C&I	position us to be an energy exporter.	Supportive
Small C&I	Please move forward!	Supportive
Small C&I	Very glad to know that AEP is developing renewable energy options.	Supportive
Small C&I	Love to hear that this is a focus of AEP!	Supportive
Small C&I	it is about time.	Supportive
Small C&I	No fracking	Supportive
Small C&I	l'd love to get in on solar energy	Supportive
Small C&I	Go for it	Supportive
	I feel there should be more accessibility to customers to get their own renewable	
Small C&I	energy sources	Supportive
·	We have MANY wind turbines in our county, if we have to look at them, let's get	
Small C&I	some benefit from them!	Supportive
Small C&I	anything that helps the environment while also lowering energy bills is a win win	Supportive
Small C&I	Please do anything you can!	Supportive
	I'd be willing to have a wind energy generator attached to my office if it were	
Small C&I	cost efficient.	Supportive
Small C&I	I would like to help. What can I do?	Supportive
	Very happy that you are making this effort and hope that it keeps improving and	
Small C&I	increase the energy efficiency	Supportive
Small C&I	The more the merrier. The sooner the better.	Supportive
Small C&I	Yes, I wan to go solar with my business!	Supportive
	· · · · · · · · · · · · · · · · · · ·	<del></del>

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	I would like to see more sources for power development rather than fossil fuels	
	The more diverse sources we have the greater benefits for the future	
Small C&I	generations and the environment.	Supportive
Small C&I	It is about timeyou need to get with the program	Supportive
Sitiali Cod	it is about timeyou need to get with the program	Supportive
	Seems like NOT pursuing renewal energy generation is counter productive! We	
	will run out of oil and natural gas. And renewables don't create greenhouse	
Small C&I	gases. Should be a winwin, no brainer decision!	Supportive
	IT'S GREAT THAT YOU ARE SERIOUSLY TAKING THIS ON.	
Small C&I	THANK YOU!	Supportive
	As a country, we need to reduce our dependence on oil. Coal is dirty and	
	dangerous. Solar and Wind power are infinite, and don't spoil air and water	
Small C&I	quality. We NEED to do this, NOW!	Supportive
	Don't give up. I know the State legislature changed the setback for turbines. Coal	
	is not dead, it's just really dirty. While cheap to mine, it's expensive to clean.	
Small C&I	Diversify the supply.	Supportive
	Dietary etc. Supply.	Joopport
	Use of alternative forms of energy generation will accelerate improvements in	
	efficiency and dependability, thus lowering cost of alternative energy systems.	
	Whereas continued use of fossil fuel sources will demand increases in the scale	
	and efficacy of pollution controls and thus increase the cost of generation.	
Small C&I	Balanced alternative sources will result in both social and economic benefits.	Supportive
Jillali CXI	Would AEP have any input in putting in an electric high speed rail from rural	Supportive
	communities to larger cities? Country people need the same healthcare as city	
Small C&I	people but it's harder to achieve due to distances.	Supportive
Siliali Col	people but it's harder to achieve due to distances.	Supportive
	This is such an important issue, if we value things like every city on a coastline,	
	for example; and energy companies are one of the biggest players in the game,	
	the people who can really make a difference with their choices. Yes, it's up to	
	consumers to reduce their own energy consumption and to make better product	
C    CQ	and investment choices, but nothing we individually do could ever make as much	
Small C&I	difference as switching the entire electrical grid (or a lot of it) to renewables.	Supportive
C	Would like to see more programs for customers to participate in renewable	
Small C&I	programs.	Supportive
Small C&I	You are behind on this. /	Supportive
	It is important for future generations to increase renewable energy sources. AEP	E .
	should work towards increasing its renewable energy sources for the good of the	
Small C&I	environment.	Supportive
	I enjoy using AEP Ohio electricity high-quality reliable energy for me at a very	
C II CO I	reasonable rate thank you [DELETED DUE TO PERSONAL IDENTIFIABLE	C
Small C&I	[INFORMATION]	Supportive
s 11.60 t	I hope that AEP comes through with plans to use renewable energy, it just makes	
Small C&I	good business sense.	Supportive
Small C&I	I have land available for a windmill. It is always windy there.	Supportive
Small C&I	Get it done	Supportive
	Less polutuon, better quality of life, and taking care of the environment is very	
a 11 ca:	important to us. We do our small share and would appreciate aep doing what	
Small C&I	they can do ,too.	Supportive
	Keep up the good work you have good employees like [DELETED DUE TO	
Small C&I	PERSONAL IDENTIFIABLE INFORMATION]	Supportive
Small C&I	Yes Please do all you can	Supportive
	We also need to allow virtual net metering so smaller scale community based	
Small C&I	solar can be input to the grid. This allows for local involvement.	Mixed
Small C&I	if it is cost effective do it if not don't	Mixed

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	If it's done, there has to be manufacturing jobs that are attached to any large	
  Small C&I	investment by customers.	Mixed
Sitiali Col	Maybe give people options on their bills to have solar or wind generation	Ivilked
Small C&I	options to buy or lease to own.  Mixed	
Small C&I What about hydroelectric generation?		Mixed
	Diversification is always important in all things. Having one type of source leave	
Small C&I	you open to unforseen issues.	Mixed
Small C&I	I want whatever provide cheaper energy!	Mixed
	I am investigating and participating in a solar co-op to consider solar panels for	
	my business. It would be great if AEP provided some monetary incentive to help	
Small C&I	cover the install costs.	Mixed
_		
	Using Renewable sources of energy makes sense if the cost is competitive with	
Small C&I	other forms of energy for example coal and natural gas.	Mixed
	I believe diversity of sources is very important. Conesville is very important to	
  Small C&I	our community and I see to big a shift to completely get away from coal.	Mixed
Small C&I	If it will make costs go up, than I'm not interested.	Mixed
Smail Col	I hear in New Jersey they have a program for solar electric panels on homes, why	
Constit C&I	not Ohio	Mixed
Small C&I	I would like to think that with renewable generation, solar panels, etc., could be	IVIXEO
Small C&I	make available to customers at prices we could actually afford	Mixed
Silla i Col	make available to costoniers at prices we could actually afford	Ivixed
	Make it easier for customers who already have solar and wind to connect, feed	
	to and draw from AEP. Last time I checked the coops were making it very easy	
Small C&I	and AEP was making it at least somewhat difficult.	Mixed
Sillali COI	Would put solar panels on my house if for very inexpensive or offered thru aep	Wilked
Small C&I	with done kind of a payment	Mixed
Sman con	I simply want access and choice in selecting various degrees of clean energy in	MIXEO
Small C&I	my tariff.	  Mixed
Silian Con	Make it easy to do net metering for individual home owners. With runaway	Mixed
	climate change a distinct possibility, there should also be a cost associated with	
	polluting for the producers of dirty energy. That could help fund your costs	
Small C&I	associated with the clean energy conversion.	Mixed
	Very interested in participating in any solar pilot program that you might come	
Small C&I		Mixed
	I would like the lowest cost power, no more and no less. If renewables can not	
	produce power at a lower cost than nat gas or coal then it should not be	
Small C&I	considered.	Mixed
	I would like to see better support for on site generation, i.e. net metering for	
	commercial customers. Or subsidies to help me install solar that will benefit the	
Small C&I	grid.	Mixed
	I would like to see AEP continue its commitment to community by diversifying	
	energy sources for the future. Until AEP invests, we cannot improve options with	
Small C&I	more efficient alternatives/new technologies.	Mixed
	I moved here from MN. I would not participate until I was assured that a solid	
	company with a sound business plan was proved. Solar energy and wind	
	companies just do not have their act together. Many times sold to a new	
Small C&I	company mid build.	Mixed
	I would much rather use solar or water than wind. Wind in the long run can	
Small C&I	cause issues to a person's health	Mixed
	Renewable energy should be a BENEFIT to Ohio customersnot an increased	
Small C&I	cost	Mixed

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	Renewable energy should not endanger anything. Today's wind mills are	
	environmentally dangerous due to leaking and birds. Wind mills should be	
	placed where they offer little risk to wildlife. Even cost saving light bulbs that	
	were pushed contain materials that should be treated as hazardous waste but	
	nobody is taking a strong effort to reclaim them. What concerns should there be	
	with solar panels after they are no longer in use? Before jumping into the next	
	new thing better understanding of the long term effects should be better	
Small C&I	understood.	Mixed
	Renewable energy is extremely important for our planet but it must be	
	developed with a strategy that controls costs as well. It must be affordable to all	
Small C&I	or it will not develop as quickly as it should.	Mixed
	I just mentioned the fact that we do not want the good cleared land to be used	
Small C&I	when there are many acres of unused land available for less money	Mixed
Small C&I	I might be interested in a solar system in my facility.	Mixed
Small C&I	Only if the renewable energy is cheaper	Mixed
	invest ONLY in ventures that are cost efficient and profitable to users and your	
Small C&I	stockholders!	Mixed
Small C&I	solar over wind since solar is more practical.	Mixed
	We of course want to protect our invironment but not to the point of going	
Small C&I	overboard on expense to do so.	Mixed
	If renewable energy is a higher cost then don't invest until the cost is equal to	
Small C&I	natural gas or coal.	Mixed
	Cost Effective Renewable energy is a wise investment. But if it's an expensive	
Small C&I	transition simply for unbalanced EPA rules then screw them	Mixed
Sinair Co.	Don't waste time and money on technology that does not produce results. This	IVIIAEU
	overall looks like a money losing project, so don't invest into it until a small	
Small C&I	project shows it can be productive on a mass scale.	Mixed
Sman Con	project shows it can be productive on a mass scale.	Iviixeu
	I love solar but I hate the way the windmills look. I live on a farm and they have	
Small C&I	ruined the landscape at night. Looks like I live in the middle of an airport.	Mixed
Sman Con		Iviixea
	NEED TO KEEP THINGS IN PERSPECTIVE ECONOMICALLY, COAL AND GAS ARE	
	STILL A GOOD SOURE OF ECONOMICAL POWER, THE WINDMILLS ARE HIGH	
Small C&I	RISK!!	Mixed
	If the development does not come at an even higher energy cost increase to	
Small C&I	customers, I think it is a pretty good idea.	Mixed
	I'm in Zanesville, I would love to see the dam we have by the river produce	
Small C&I	energy. Diversifying is an unavoidable necessity.	Mixed
Small C&I	if you go after renewable energy sources, do not raise our rates	Mixed
Small C&I	Hope The Investment Cost Doesn't Make It Unaffordable.	Mixed
Small C&I	Build some new nukes with modern technology.	Mixed
Small C&I	Wind energy does not have a ROI that can be utilized before it is obsolete.	Mixed
J	I am for whatever energy is the most economically available. Be it wind, solar,	
Small C&I	coal, natural gas or nuclear	Mixed
	I think it's to costly. Which means I'm going to pay for it. I don't think it's a good	
Small C&I	return on my dollar	Mixed
Siliali COI	I don't want tp pay a penny extra for renewable energy. If coal is cheaper, burn	
Small C&I	it.	Mixed
Jinan Cot	Why do we not use more hydroelectric power at the dams on the Ohio River for	тился
Small CRI	example?	Mixed
Small C&I	Make it easy for your customers to generate some of there electric from solar or	IVIIAEU
Small CO.I		Miyad
Small C&I	wind and use AEP for the rest of their their requirement.	Mixed

<u> </u>	This is a cost of doing business and should lower your profit and not have a	
	higher cost passed on to us, the customer. You are protected by PUCO and can	1
Small C&I	set profits, we can't.	Mixed
Small Col	I recommend you generate electric energy using the most cost effective means	Ivrixed
C II C9.1	available.	8.0°
Small C&I	available.	Mixed
	Creating tabe even temporary ones in the areas where AED owns and newered	
C	Creating jobs, even temporary ones, in the areas where AEP owns coal-powered	A 4:
Small C&I	plants would help offset the impact of the scheduled closure of those facilities.	Mixed
	It would help if AEP provided substantial financial aid for wind & solar energy	
	The state of the s	
c "C01	equipment for homeowners with the agreement that unused energy generated	<b></b> .
Small C&I	would be sold at a discounted price, or given back to AEP.	Mixed
	Nathrille the control of the second by the second s	
	While I love the idea of renewable energy generation I also recognize the value	
	of non-renewable sources regarding jobs in those sectors. I would hope all	
c 11 CO 1	energy sources could be used wisely to benefit both people and the environment	
Small C&I	without leaving people in traditional sectors of energy "out in the cold and dark."	Mixed
	11.	l
Small C&I	I have no interest in renewable energy if it's going to increase my electric bill.	Mixed
	Wind power is not efficient. Solar is slightly better. Not in favor of wind	l
Small C&I	production at all.	Mixed
	I thought renewable enery was more expense, I would not like to see you invest	
Small C&I	money into it if that's the case	Mixed
	I believe AEP needs to invest in itself as any other business needs to invest in	
	itself. I do not like that AEP wants its customers to pay for their renewable	
Small C&I	energy.	Mixed
	I want the cheapest electricity possible, please DO NOT invest in renewable	
Small C&I	energy if it increases costs.	Mixed
Small C&I	if cost effective do it if not don't	Mixed
Small C&I		
- "	it needs to be made easier to put up solar panels in individuals homes and not	
Small C&I	have to deal with all the red tape	Mixed
Small C&I	Rebates or credits to businesses investing in solar/wind technology.	Mixed
Small C&I	I would hope that it doesn't add any cost to our bill.	Mixed
Small C&I	nice for future power generation, but not to replace current plants	Mixed
	Pass the savings along to your customers. If you can generate electricity cheaper	
Small C&I	by using renewable energy then we should pay less for it.	Mixed
Small C&I	There is no need for renewable energy. Use Ohio natural gas and coal.	Negative
- "	U guys have service so y not try to male even more cuatomers unhappy by	l., .
Small C&I	bring this in to up charge more	Negative
	Hard to beat conventional sources of electrical generation that is not dependant	
Small C&I		Negative
	I already have options for renewables through the deregulated choice market.	
	AEP Ohio should not be building generation. The financial risk of any generation	
	including renewables should be left to independent developers and certainly not	
0 11 20 1	rate payers of AEP Ohio.	l
Small C&I		Negative
a 11 204	I care about the cost of energy, not the source. Renewable energy is generally	
Small C&I	more expensive and a less stable source.	Negative
	I am not in favor of using renewable power if it costs us customers more like it	
Small C&I	did a couple years ago. That wasn't good.	Negative
- " - " -	The return on cost doesn't seem to be there. Political correctness doesn't pay my	
Small C&I	bills.	Negative
Small C&I	Wind and solar will not work in the North	Negative

	IV. and the entire reference massible. We are discount to date district.	
Small C&I	Keep the price as low as possible. We are disappointed the distr/transmission	Negative
Silidii C&I	are more expensive now than making electicity.	Negative
	What I do value is consistent reliable energy and i feel that the cost of using	
	renewable energy sources has not been fully examined. I believe the actual cost	
	lifetime of renewable energy will be much more expensive and the worn out	
Small C&I	turbines and panels may be worse for the environment than coal or nuclear.	Negative
Siriali Col	turbilles and panels may be worse for the environment than coar or nuclear.	ivegative
	I am happy with natural gas supplied power, especially with the recent moves for	
	cleaner production. We (Ohio and USA) have an abundance of natural gas	
Small C&I	available, so that as the primary energy source is most logical to me.	Negative
Small C&I	No more wind tubines near homes. Keep the current Ohio setbacks	Negative
Sindii Cai	The file will capitle steel from the same same same same same same same sam	110841110
Small C&I	i feel that the wind mill farms are the cause of a lot of the climet change	Negative
Small C&I	I am a coal miner I wish to see the continued use of coal.	Negative
Small C&I	No more renewable until it is cost competitive, and no subsidies.	Negative
Jindii Ga.	Most renewable energy sources have a larger negative impact on the	11484111
	environment than fossil fuels. Solar because of toxic chemicals used to produce	
	the cells and wind because of a tenuous (if not negative) energy balance (i.e., it	
	takes nearly as much energy to produce, erect and maintain the wind turbines	
Small C&I	than is returned)	Negative
	RELIABLE ENERGY IS IMPORTANT, NOT THE SOURCE. I tend to believe that	
	energy that is subsidized by government is extremely unreliable, just like	
Small C&I	government regulation.	Negative
	I am not interested in being PC about electric generation. We should not 'cave'	
	to the radical environmental crowd that does not understand the problems with	
Small C&I	wind and solar. The high cost of these is prohibitive.	Negative
	those windmills are nothing but a waste, can.t understand why you would want	
Small C&I	to waste good money on this crap	Negative
	We need to try and be as competitive as possible providing electricity if we want	
Small C&I	to attract future business to Ohio	Negative
	From my knowledge of renewable energy sources, they are not cost efficient to	
	use. Also, they are not as good for the environment as many in the media and	
	government would want us to think. Ask the many, many birds that are killed	
Small C&I	each year by wind turbines.	Negative
	I think that this is a waste of money. Wind and solar are the most expensive	
	forms of energy. Instead use the abundance of natural gas in the area to	
	generate lower cost electric. Lower my rate instead of raising my rate for solar or	
	wind produced electric. I am against any form of electricity generation if it comes	
Small C&I	at a higher cost to me.	Negative
	Do not put wind turbines near our homes. They should not be closed we to	
Small C&I	anyone's home! They are unreliable and are bad for the environment.	Negative
	Renewable energy on first glance appears to be a wonderful idea. However, it is	
	more a PC flavor of the month being pushed as a solution to a described problem	ו
	that has virtually no scientific basis. Renewables MAY become economically	
	viable in the future but currently do little more than increase overall costs and	
1	destabilize the power grid. Those that call renewables "cheap energy‮	
	ignore the costs of government subsidies, which I believe must be accounted for	
	in the final cost of energy. Renewables sounds great but the reality is that they	
	are unreliable and much more expensive. My hope is that those advocating large	
	scale mandated renewables, have their entire personal electrical usage supplied	
Small C&I	solely by renewables.	Negative

•

	Renewable energy is TOO expensive.	
	Bring back clean-burning coal-fired electric generating plants - just as efficient,	
Small C&I	costs MUCH less, America's coal supply is almost limitless.	Negative
Small C&I	waste of resources raising our bills	Negative
	I'm from Van Wert County, Ohio and the wind farms have been terrible and are	
	very unpopular with our community. Please do not "push wind" on your	
Small C&I	customers at the expense of rural quality of life.	Negative
Small C&I	What ever is cheaper	Negative
	We have an abundance of fossil fuel in this country. Use it. Renewable is still in	
Small C&I	the talking stages & can't possibly compete with the sources of fossil fuel.	Negative
Small C&I	Wasted money.	Negative
Small C&I	WASTE OF MONEY	Negative
	Renewable energy sources are not a viable replacement for fossil fuel. In	
	addition renewable energy projects usually require government subsidies	
Small C&I	(taxes).	Negative
Small C&I	Stay on task	Negative
	The most economical form of energy is always the best. Fossil fuel is not the	
	demon non-thinkers want us to believe it to be while expensive wind and solar	
	power are not the deliverers the same people want us to believe them to be. 1	
	pay several AEP monthly bills and assure you that cost, convenience and service	
Small C&I	are my bottom line! Thanks for asking.	Negative
Small C&I	Coal	Negative
1	I'm against wind and solar for electric generation. Use the abundance of natural	
Small C&I	gas in the area. Lower my electric instead of raising the price of electric.	Negative
	Renewable energy should only be pursued when it is competitive in the market	
Small C&I	place. Renewable energy as it is today is not a good option.	Negative
Small C&I	No windmills!	Negative Negative
Small C&I	Renewable energy is too expensive and too unreliable	
	Burn coal. It's the most reliable and provide s. Many jobs. Remember the	
Small C&I	wind doesn't always blow and the sun doesn't always shine	Negative
	Those types of energy are extremely expensive. Solar panels and so forth are	
	outrageously priced. You pass on those expensive costs to the consumers which	
Small C&I	will cost customers much more. Stay affordable.	Negative
	"Renewables" are more expensive and most have a greater negative	
Small C&I	environmental impact that current generation methods.	Negative
Small C&I	mall C&I dont waste the money Ne	
Small C&I	Solar energy is not cost effective in our area without government subsidies.	Negative
	Use coal. It provides jobs it more reliable and it can be burnt clean and it is	
Small C&I	cheaper	Negative
	Develop renewable energy in the areas of the country where it is financially	
	viable to do so without subsides. Generating power from wind in Ohio is a	
Small C&I	waste!	Negative
Small C&I	No	Excluded
Small C&I	No Excluded	
Small C&I	Not at this time	Excluded
	Renewable energy generation must be accompanied by energy storage.	
	Commercial-scale energy storage units must be developed for effective use and	
Small C&I	distribution of renewable energy.	Neutral/Unclear

Small C&I	Need to increase jobs for the loss of are steel and manufacturing industries	Neutral/Unclear
Small C&I	Work on storage as this is biggest obstacle to most renewables	Neutral/Unclear
Small C&I	PLEASE REDUCE ENERGY COST TO USERS.	Neutral/Unclear
Small C&I	Is there an estimated cost that would be passed on?	Neutral/Unclear
	I am not happy with extra fee we have to pay for another supplier to pay beside	S
Small C&I	paying for AEP.	Neutral/Unclear
	I would like to see the current workers for AEP trained so they can continue to	
	work near their homes instead of laid off or transferred to other locations in	
	order to continue to work. How can each village, town, city help provide	
Small C&I	locations to retain our workers?	Neutral/Unclear
Small C&I	the only thing i care about is affordability	Neutral/Unclear
	Should make it easier for individuals to have dual use systems. This is because	
Small C&I	not everyone would use this type of system.	Neutral/Unclear
	you would think the bill would be cheaper	
Small C&I	i get bills from other electric companys and they are way cheaper you guys	Neutral/Unclear
	I would like to see energy produced at the least cost whether that be coal,	
Small C&I	nuclear, renewable or some or means.	Neutral/Unclear
	The bill is way to high. Especially for transport and delivery when we have 2	
Small C&I	electric plants in our county.	Neutral/Unclear
	Yorkville OH Hydro Electric Plant	
Small C&I	Empice Ohio Hydro Electric Plant	Neutral/Unclear
Small C&I	I don't care what you do. Just quit charging me for excuses you call expenses.	Neutral/Unclear
Siliali Col	You provide a commodity that is required for the society to operate. Regulatory	
	governmental controls are necessary yet difficult for the consumer to evaluate.	
	We need to protect our environment and that has its costs on a business and	
	personal level. We are hopeful that R & D will have something on the horizon	
	that benefits production profits, environmental foresight and consumer price	
Small C&I	i i	Neutral/Unalear
Small C&I	strangulation in mind. Will it raise bills?	Neutral/Unclear Neutral/Unclear
Smail Col	will it raise phis?	Neutral/Unclear
	I don't care too much about renewable energy. I would like to see demand	
Small C&I	charges go away. Particularly if I put my own renewable energy in.	Neutral/Unclear
Small C&I	I don't see it as being too important how the energy is generated.	Neutral/Unclear
<u> </u>	You have to go thru too many vendors to get your electricity or energy. That	reacialy officient
Small C&I	makes extra costs for us.	Neutral/Unclear
		iteation, oriental
	What incentives are available for small business in Ohio to offset current electric	
	usage charges? As far as I can see - none seems there should be more monies	
Small C&I	available for businesses to develop some of the alternatives	Neutral/Unclear
Small C&I	Unfortunate that Texas is not a forward-thinking state.	Neutral/Unclear
	keep the lower prices	
	keep it basic	
	keep the lower prices	
Small C&I	keep the lower prices	Neutral/Unclear
Small C&I	l am not a business. Homeowner Neutral/Une	

	The fields of solar panels would be better suited on lands which aren't in a building zone. The cost to build the renewable stations is crazy. The consumers now, will pay for the cost of you building it. Then you will reap profits forever and the consumers will see no cost reduction. So basically if it's going to cost me higher bills for you to increase your future profits I am against it! I have seen nothing but increase after increase yet I consume less energy. You keep adding in more customer charges and costs for misc things that you as a company should be paying. Why am I paying costs that are associated for you running your business? I don't even have an actual live person read the meters here yet we are charged as if someone drives here and looks at 3 different meters. We are charged 3 times for renewable energy program and whatever the PUCO says you can now add into the bills also. It's ridiculous. You will get government funding to go more "green" yet you will charge the consumers for the rest of the cost. You should come out smelling like a rose while the actual consumers see no benefit of it. I can see why the amish use solar and gas as main sources. They can control their costs and use whereas us dumb electric consumers have to pay your prices	
Small C&I	or go without.	Neutral/Unclear
Small C&I	We rent the space	Neutral/Unclear
Small C&I	thanks for wanting my opinion	Neutral/Unclear



# Jonathan A. Lesser

Adjunct Fellow President, Continental Economics

Media Contact

212-599-7000

Request An Interview

**Biography** 



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Jonathan Lesser is an adjunct fellow at the Manhattan Institute. As president of Continental Economics, Lesser has more than 30 years of experience working for regulated utilities, for government, and as a consultant in the energy industry. He has addressed economic and regulatory issues affecting energy in the U.S., Canada, and Latin America. Those issues include gas and electric utility structure and operations, generating asset valuation under uncertainty, cost-benefit analysis, mergers and acquisitions, cost allocation and rate design, resource investment-decision strategies, cost of capital,

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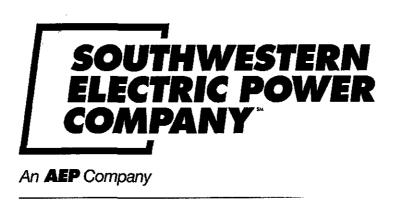
Ohio Power Company Case Nos. 18-501-EL-FOR et.al. IGS-INT-01-011 Attachment 1 Page 1 of 1

Wyandot Solar Facility		
Year	Capacity Factor, %	
2010 <sup>1</sup>	17.6%	
2011	16.1%	
2012	17.8%	
2013	16.1%	
2014	16.5%	
2015	16.5%	
2016	16.3%	
2017	15.4%	
2018 <sup>2</sup>	15.3%	

Note 1: Wyandot achieved its commercial operation date on May 26, 2010.

Note 2: Data represents the period January 1 - October 31, 2018.

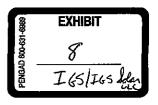




#### BOUNDLESS ENERGY"

# INTEGRATED RESOURCE PLANNING REPORT TO THE ARKANSAS PUBLIC SERVICE COMMISSION

**December 14, 2018** 





2018 Integrated Resource Plan

#### 3.4.4.1 Existing Levels of Energy Efficiency (EE)

SWEPCO currently has EE programs in place in its Arkansas, Louisiana, and Texas service territories. SWEPCO forecasts EE measures will reduce peak demand in 2018 by 3.9MW and reduce 2018 energy consumption by approximately 26GWh.

#### 3.4.5 Distributed Generation (DG)

DG typically refers to small-scale customer-sited generation behind the customer meter. Common examples are Combined Heat and Power (CHP), residential and small commercial solar applications, and even wind. Currently, these sources represent a small component of demand-side resources, even with available federal tax credits and tariffs favorable to such applications. SWEPCO's retail jurisdictions have "net metering" tariffs in place which currently allow excess generation to be credited to customers at the retail rate.

The economics of DG, particularly solar, continue to improve. Figure 12 below charts the fairly rapid decline of expected installed solar costs, based on a combination of AEP market intelligence and the Bloomberg New Energy Finance's (BNEF) U.S. Renewable Energy Market Outlook forecast. The following installed cost forecast as well as the breakeven values calculated and shown in Figure 12 and Figure 13 do not include an estimate of the impact of the solar tariffs that went into effect earlier this year.

#### 2018 Integrated Resource Plan

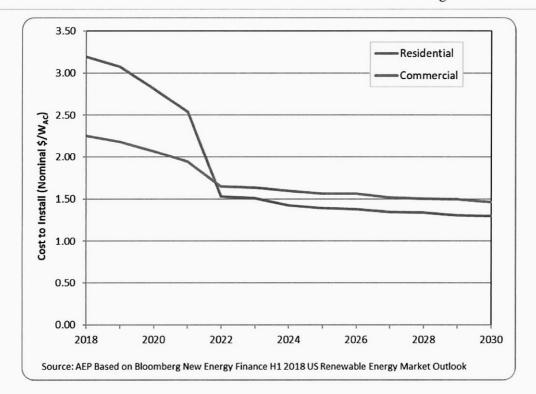


Figure 12. Residential and Commercial Forecasted Solar Installed Costs (Nominal \$/WAC) for SWEPCO States

Prior to 2022, during the ITC phase out for residential systems, costs for residential customers are expected to decline rapidly. This decline, which is forecasted to bring residential costs down to commercial cost levels, is attributed to a shift from value-based pricing to cost-plus-margin pricing. Installers are expected to spend less on customer acquisition and less on customer specific solutions as they aim for the lowest cost installations possible.

While the cost to install residential solar continues to decline, the economics of such an investment are not favorable for the customer for a number of years. Figure 13 below illustrates, by SWEPCO state jurisdictional residential sector, the equivalent value a customer would need to achieve, on a dollar per watt-AC (\$/WAC) basis, in order to breakeven on their investment, assuming a 25-year life of the installed solar panels based on the customer's avoided retail rate. Also included is the average cost of solar residential installations in SPP. Figure 13 below shows that the current cost of residential solar exceeds the cost which would allow a customer to breakeven on an investment over a 25-year period.

#### 2018 Integrated Resource Plan

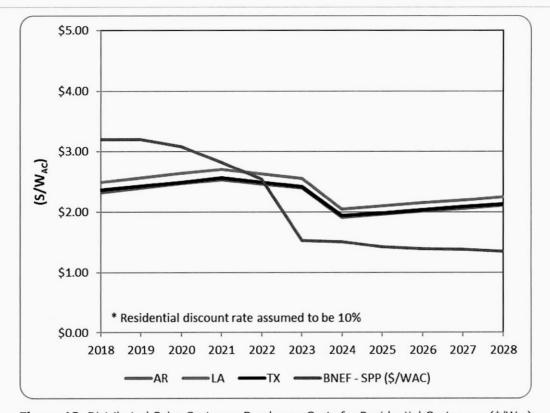


Figure 13. Distributed Solar Customer Breakeven Costs for Residential Customers (\$/WAC)

A challenge of determining the value of a residential solar system is assigning an appropriate cost of capital or discount rate. Discount rates for residential investments vary dramatically and are based on each individual's financial situation. Figure 14, below, shows how the value of an Arkansas residential customer's DG system can vary based on discount rate.

#### OHIO POWER COMPANY'S RESPONSE TO THE OFFICE OF THE OHIO CONSUMERS' COUNSEL'S DISCOVERY REQUEST



# PUCO CASE NO. 18-501-EL-FOR 18-1392-EL-RDR AND 18-1393-EL-ATA TENTH SET

#### **REQUEST FOR ADMISSION**

OCC-RFA-10-007 Admit or deny that the effect of including a cost of carbon in the

fundamentals forecast will increase the operating cost of natural gas fired combined cycle plants which increases the benefits of the renewable

energy projects under the AEP Ohio impact analysis.

#### **RESPONSE**

Admit.

Prepared by: Karl R. Bletzacker

John F. Torpey