

**BEFORE
THE PUBLIC UTILITIES COMMISSION OF OHIO**

In the Matter of the 2018 Long-Term)	
Forecast Report of Ohio Power Company)	Case No. 18-501-EL-FOR
and Related Matters.)	
)	
In the Matter of the Application of Ohio)	
Power Company for Approval to Enter into)	
Renewable Energy Purchase Agreements)	Case No. 18-1392-EL-RDR
for Inclusion in the Renewable Generation)	
Rider.)	
)	
In the Matter of the Application of Ohio)	
Power Company for Approval to Amend)	Case No. 18-1393-EL-ATA
its Tariffs.)	

**DIRECT TESTIMONY OF MATTHEW WHITE ON BEHALF OF INTERSTATE GAS
SUPPLY, INC. AND IGS SOLAR, LLC**

1 **I. INTRODUCTION AND PURPOSE OF TESTIMONY**

2 **Q. Please introduce yourself.**

3 A. My name is Matthew White. I am employed by Interstate Gas Supply, Inc. ("IGS
4 Energy") as General Counsel. My business address is 6100 Emerald Parkway,
5 Dublin, Ohio 43016.

6 **Q. Please describe your educational background and work history.**

7 A. I started my career in energy in 2007 working at the law firm of Chester, Wilcox &
8 Saxbe as an energy and utilities lawyer. At Chester Wilcox I participated in
9 numerous regulatory proceedings relating to utility matters, including natural gas
10 and electric rate cases and electric power siting cases. During that time I was
11 closely involved in cases at the Commission implementing Ohio Senate Bill
12 221("SB 221") which overhauled Ohio's electric regulation and implemented
13 Ohio's renewable energy and energy efficiency standards. I began working at IGS
14 in 2011 in IGS' rotation program where I spent 16 months working in various
15 departments learning IGS' entire business including the electric and gas supply
16 and risk departments. In 2012 I began as an attorney in IGS' regulatory affairs
17 department. I am now General Counsel of IGS Energy and its affiliated companies.
18 I oversee all of IGS' legal and regulatory activities throughout the country. My team
19 is responsible for supporting the legal, regulatory, compliance and legislative
20 needs of all of IGS' businesses. As part of my role I work closely with IGS Solar
21 to support the legal needs of that business. Prior to working in the energy industry
22 I earned J.D. and M.B.A. degrees from the College of William & Mary and a B.A.
23 from Ohio University.

24 **Q. Have you submitted testimony at any regulatory bodies before?**

25 A. Yes. I have submitted written testimony in front of numerous state regulatory
26 bodies including the Public Utilities Commission of Ohio, the Public Utilities
27 Commission of Pennsylvania, the Maryland Public Service Commission, the Illinois
28 Commerce Commission, the Kentucky Public Service Commission, and the
29 Michigan Public Service Commission. I have also testified in front of the state
30 legislatures of Ohio, Michigan and Pennsylvania.

31 **Q. On whose behalf are you submitting testimony?**

32 A. I am submitting testimony on behalf of IGS Energy and IGS Solar (collectively
33 referred to as "IGS").

34 **Q. Can you please describe IGS Energy's business?**

35 A. IGS Energy has been in business for approximately 30 years first as a retail
36 supplier of natural gas, and subsequently, retail electricity supplier. Over the years
37 IGS Energy and its affiliates have expanded their operations to offer a diverse
38 range of products and services to customers including solar, combined heat and
39 power, compressed natural gas refueling, home warranty, energy efficiency and
40 smart appliances, to name a few. IGS is headquartered in Dublin Ohio and
41 employs over 800 individuals nationally, with nearly 700 located in Ohio. IGS
42 Energy serves over 1 million residential, commercial and industrial customers in
43 13 restructured states and over 30 utility jurisdictions.

44 **Q. Can you please describe IGS Solar's business?**

45 A. IGS Solar is an affiliated company of IGS Energy. IGS Solar has been existence
46 for approximately 4 years. IGS owns and operates solar assets in over 20 states

47 throughout the country. IGS Solar's portfolio consists of primarily residential and
48 commercial customer-sited solar projects. A large majority of IGS Solar assets are
49 in restructured electric generation states. IGS continues to aggressively expand
50 its solar development throughout the country.

51 **Q. Can you please give an overview of AEP's Application in this proceeding?**

52 A. Yes. AEP has requested that the Commission determine that there is a "need" to
53 contract for the construction of additional solar and wind resources. AEP proposes
54 to enter into a fixed-rate purchase power agreement with such resources, resell
55 the power into the wholesale market, and recover any revenue deficit through a
56 non-bypassable charge. AEP's request is based upon a dubious survey that it
57 alleges demonstrates that AEP customers have a desire for the construction of
58 additional Ohio-based solar and wind resources. Despite the fact that AEP has
59 not calculated the amount of additional resources that customers allegedly desire,
60 AEP alleges the Commission should determine that there is a need to construct
61 900 MWs of renewable generation (400 MWs of solar and 500 MWs of wind).¹

62 **Q. What is the purpose of your testimony?**

63 A. In my testimony I provide an overview of the statutory construct created upon the
64 enactment of Ohio SB 221 and the changes to Ohio's renewable portfolio
65 standard ("RPS") in the ensuing decade since SB 221's enactment. I explain that
66 it is contrary to the edicts set-forth in S.B. 221, and ensuing statutory changes, to
67 allow AEP to contract for the construction of 400 MW of solar and to recover
68 those costs from all customers. I explain that if it was Ohio's legislative directive

¹ Ex. MW-1 (containing AEP's Response to Direct-INT-1-008).

69 to increase solar development beyond the current RPS requirements in Ohio,
70 then there are much more effective means to incent solar development than
71 AEP's proposal. Nonetheless any directive to allow for cost recovery of solar, as
72 proposed by AEP, must come from the Ohio legislature, but cannot be done
73 under the current statutory framework in Ohio. Further I explain that, from a
74 policy prospective, it is unwise to allow AEP to develop solar in Ohio at
75 ratepayer's expense, and it will actually stifle the development of solar in Ohio
76 over the long run. Finally, I discuss how other states that have competitive
77 electric markets have effectively incentivized the development of solar through
78 competitively neutral means rather than subsidizing a select company to build
79 solar as proposed by AEP.

80 **Q. Has IGS offered any other witnesses in this proceeding?**

81 A. Yes. My testimony provides an overview of Ohio's renewable energy regulatory
82 landscape and policy rational for rejecting AEP's Application. IGS has also
83 submitted testimony of several other witnesses in this proceeding including:

- 84 • Chris Rengstorf—Witness Rengstorf discusses the status of the solar
85 market in Ohio and provides his industry perspective regarding the negative
86 impact that AEP's proposal would have on future market-based
87 development of distributed energy resources.
- 88 • Katie Rever—Witness Rever identifies alternative policies that have been
89 deployed throughout other restructured states to develop renewable
90 resources, as well the additional benefits associated with behind the meter
91 generation. Moreover, she identifies enhancements to net metering policy

and rate design that would reduce barriers to the deployment of distributed energy resources.

- Paul Leanza—Witness Leanza identifies critical flaws in AEP’s long-term forecast. Based upon more realistic market conditions, Mr. Leanza identifies that AEP’s proposal as described by witness Torpey is not in fact economical and is likely to cost customers a great deal of money.

- Joseph Haugen—Witness Haugen identifies that AEP’s proposal is clearly not needed to meet a shortage of capacity or energy due to the vast surplus of generation that currently exists in PJM Interconnection, LLC for the foreseeable future. Moreover, Mr. Haugen provides insight into current proposals before the Federal Energy Regulatory Commission that would modify rules related to the capacity market. Based upon those proposals, Mr. Haugen identifies that the resources proposed by AEP would not likely clear in the capacity market or the proposals would result in an over-procurement of capacity; therefore, AEP’s projection of the economics of its proposal are not reliable.

II. SENATE BILL 221

Q. Can you please provide a brief background of SB 221 as it relates to establishing the renewable energy policy of the state?

A. Yes. SB 221 was a bill enacted by the Ohio Legislature in 2008 that altered Ohio’s electric market several ways. While there were numerous aspects of the bill, the relevant portions of SB 221 for my testimony include:

- 114 • SB 221 established an RPS for the state of Ohio. The RPS required that
115 load serving entities in Ohio procure a certain percentage of electricity from
116 renewable energy resources. The RPS requirement began in 2009 and the
117 percentage requirement was designed to escalate each year through 2026.
- 118 • The bill also contained a solar specific RPS (“SRPS”) which required load
119 serving entities to procure a percentage of their load from solar resources,
120 escalating each year through 2026.
- 121 • SB 221 required that at least half of the RPS and SRPS requirements be
122 procured through in-state resources.
- 123 • SB 221 made the electric utility responsible for meeting the RPS and SRPS
124 for standard service offer (“SSO”) customers. Competitive retail electric
125 suppliers (“CRESS”) were made responsible for meeting the RPS and
126 SRPS requirements for their (“shopping”) customers;
- 127 • SB 221 prohibited a utility from meeting its RPS or SRPS requirements for
128 SSO customer by seeking non-bypassable cost recovery from all
129 customers.

130 **Q. Was the RPS and SRPS established by SB 221 modified in anyway?**

131 A. Yes. In 2014 the Ohio Legislature enacted SB 310. SB 310, among other things,
132 placed a two-year freeze on the escalation of Ohio’s RPS and SRPS requirements.
133 The bill also eliminated the in-state requirement for the RPS and SRPS such that
134 after SB 310 was enacted load serving entities no longer were required to procure
135 half of their renewable and solar electricity requirements from Ohio resources.

136 **Q. What has happened since the enactment of SB 310?**

137 A. In 2016 the two-year freeze of the RPS and SRPS expired. Since 2016 the RPS
138 and SRPS requirements have escalated as contemplated in SB 221. Since 2016
139 there have been several bills proposed in the Ohio legislature that would freeze,
140 eliminate, or weaken the RPS and SRPS requirements; however, those bills have
141 failed to receive the necessary support in the Ohio legislature or have been vetoed
142 by Ohio's Governor.

143 **Q. Is there currently an in-state RPS or SRPS requirement?**

144 A. No. Under the current RPS law, which was most recently amended by SB 310,
145 there is no requirement to procure renewable energy, or solar energy from in-state
146 resources.

147 **Q. Is it in the purview of the state legislature to set the policy with respect to
148 renewable energy within the State of Ohio?**

149 A. Yes. The Ohio legislature has established a policy that determines the amount of
150 renewable and solar energy that is required to meet customer's electric needs.
151 Certainly, some may not agree with the policy -some want to increase the RPS
152 and some want to eliminate it all together; however, we live in a democracy, and
153 the State of Ohio has settled on a statutory construct to incent renewable energy
154 generation. The State, through the RPS and SRPS, has set percentage
155 requirements that specifies the exact amount of renewable energy generation and
156 solar generation that the state needs for each year through 2026.

157 **Q. Is Ohio having issues with meeting the RPS and SRPS requirements set forth
158 in statute?**

159 A. Absolutely not. To my knowledge, since the enactment of SB 310 load serving
160 entities have had little difficulty meeting the RPS or SRPS requirements. Further,
161 Ohio law allows load serving entities to apply at the PUCO for relief of the RPS
162 and SRPS requirements if compliance with the statute exceeds 3% of the total
163 electric costs. To my knowledge, since the enactment of SB 310, no load serving
164 entity has sought to reduce its RPS or SRPS costs under the cost cap portion of
165 the law. Furthermore, the current market price of renewable energy credits
166 (“RECs”) and solar renewable energy credits (“SRECs”) allows load serving entities
167 to meet their RPS and SRPS well below the 3% statutory cost cap. There is no
168 reason to believe that this will change in the foreseeable future.

169 **Q. Is an RPS the most effective means to incent the development of renewable**
170 **energy in a competitive electric state such as Ohio?**

171 A. Yes. Ohio has restructured its electric generation markets, meaning electric utilities
172 are no longer vertically integrated. With a very limited exception, electric utilities in
173 Ohio no longer own electric generation². Further, the electric utilities are no longer
174 the load serving entity for the majority of load in Ohio. An RPS is a market-based
175 solution that creates a market for RECs and SRECs that allow the multitude of load
176 serving entities to meet the RPS requirements most efficiently. Evidence that the
177 RPS is working is that cost of RPS compliance has come down significantly since
178 implementation of RPS requirements, while the percentage of renewable energy
179 being built and supplied in Ohio continues to rise.

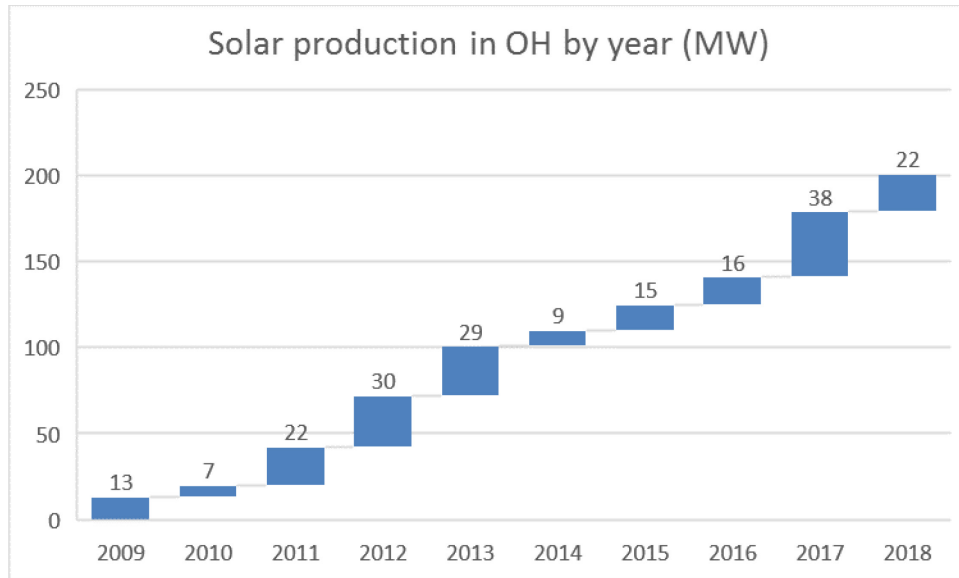
² All investor owned electric utilities in Ohio have divested their electric generation portfolios, except for the limited exception that three utilities own a percentage of two coal generating facilities managed by the Ohio Valley Electric Cooperative (“OVEC”).

180 **Q. How do you respond to claims that not enough solar energy is being**
181 **developed in Ohio?**

182 A. My response to that claim is two fold: First, Ohio *is* building solar generation. The
183 amount of solar being developed in Ohio has increased substantially over the
184 years. Companies like IGS continue to develop solar in Ohio and have plans to
185 increase solar development in Ohio in the future. Second, the Ohio legislature has
186 already established a policy for renewable generation. That policy has explicitly
187 declined to provide a specific incentive to build Ohio based solar or wind beyond
188 what is already being built. If it is the will of the citizens of the State of Ohio to build
189 more solar or wind, the State legislature could simply increase the SRPS
190 requirement or add an in-state procurement requirement to its SRPS. The fact that
191 the Ohio legislature has eliminated the in-state SRPS requirements indicates the
192 legislature does not believe there is a need to build additional resources beyond
193 what the market is already building with the current available state and federal
194 incentives

195 **Q. Can you please give more detail regarding the increase development of solar**
196 **energy in Ohio?**

197 A. Yes. In Table 1 below, it shows that over 200 MWs of solar resources have been
198 constructed in Ohio since the enactment of SB 221.



This table shows that solar construction has steadily increased since 2009. There are also several hundred additional MW of solar in the process of approval at the Ohio Power Siting Board. Moreover, over 605 megawatts of solar have been certified as renewable energy facilities that are deliverable into Ohio.

Q. Can you please expound further on why the Ohio legislature has already determined there is not an additional need to build in-state solar and wind resources?

A. Yes. Previously Ohio had an in-state solar and wind requirement, and with the enactment of SB 310, the State of Ohio repealed the in-state requirement. With this repeal, the state legislature has made its intent clear – that it does not wish to *require* additional construction of renewable energy generation in Ohio, beyond what is already being developed in the market. If the state of Ohio felt that there was need for additional incentives for in-state renewable energy generation, the State could simply re-instate the in-state requirement which would then provide additional incentive to build solar in Ohio.

215 **Q. Do other states have in-state solar requirements?**

216 A. Yes. A great example is Pennsylvania. Last year the Pennsylvania legislature
217 enacted an in-state specific SRPS meaning that a specific percentage of the
218 Pennsylvania SRPS requirements now must be met by Pennsylvania solar
219 resources. With the enactment of that law, it was clear that the State of
220 Pennsylvania desired to incent development of solar resources in Pennsylvania.
221 And the law has worked. Over the past year the value of Pennsylvania in-state
222 SRECs have risen, attracting more solar development in Pennsylvania. Another
223 example is New Jersey. New Jersey has a very aggressive in-state solar RPS
224 requirement. And the policy in New Jersey is working. The value of SRECs are
225 much higher in New Jersey and quite a bit of solar is being developed in New
226 Jersey right now via competitive market forces. Simply put, if a state wishes to
227 increase solar deployment, the easiest and most effective means to do so is
228 increase the RPS percentages or implement an in-state solar requirement.

229 **Q. Are you taking a position on whether Ohio should enact an in-state solar**
230 **requirement?**

231 A. No. The purpose of my testimony is not to opine on whether the Ohio legislature
232 should adopt an in-state solar requirement. My point merely is that if Ohio
233 determined that it wanted, or needed, to incent additional solar energy
234 development in Ohio, it can easily do so by enacting an in-state solar requirement.
235 And in-fact the Ohio legislature has already considered this issue. Previously Ohio
236 had an in-state solar requirement, but the legislature repealed that requirement
237 with the enactment of SB 310. While there may be legitimate policy reasons to

want to incent solar build specifically in the state (like New Jersey and Pennsylvania have done) Ohio has chosen not to do so.

Q. Are there any federal restrictions on in-state renewable energy requirements?

A. No. Federal courts have held that states have the right to implement in-state renewable energy requirements if they so choose. Therefore, there is no reason under federal law why Ohio could not enact an in-state solar requirement if it wanted to.

Q. Should the Commission circumvent the intent of the legislature by approving AEP to build the solar energy projects specified in its application?

A. No. The Ohio legislature has already established the percentage of renewable and solar energy that it wishes to be supplied in the State of Ohio and those obligations are being met with the State and Federal incentives currently available. The State legislature has also already declined to provide additional incentives for in-state solar development with the repeal of the in-state solar requirement. AEP should not now be allowed to circumvent the intent of the Ohio legislature by flooding the market with 400 MW of solar paid for by Ohio ratepayers.

III. The Need Standard

Q. In your opinion has AEP demonstrated a “need” to develop 400 MW of solar generation in Ohio?

A. No. In my spare time I volunteer to teach for Junior Achievement which is an organization that teaches personal finance and economics to grade school children. One of the core concepts we teach in those classes is that there is a big

261 difference between a “want” and a “need.” A want is something you may desire to
262 have, but it is not actually needed. While AEP may want to have all customers
263 cover its costs to build solar projects, by any standard, AEP has not established a
264 need to require all customers to pay for 400 MW of solar generation.

265 **Q. Is AEP’s proposed solar projects needed to meet the SRPS requirements**
266 **established by the legislator?**

267 A. Clearly no. As I noted already, the Ohio legislator has done away with the in-state
268 solar requirement so there is no longer a need to build solar to meet those
269 requirements. Further, currently the Ohio RPS and SRPS requirements are being
270 met by the entities with those obligations at costs well below the RPS cost cap
271 established by the Ohio legislature.

272 **Q. Is there are need to build solar in Ohio for reliability purposes?**

273 A. No. Outside of needing solar energy to meet a state statutory requirement, the only
274 other reason AEP would “need” to build solar is for reliability reasons. Again,
275 clearly AEP does not need to construct 400 MWs of solar to meet the long-term
276 generation needs of customers. IGS Witness Haugen will expound further on this
277 topic; however. as a competitive generation state the reliability needs for electric
278 generation have been turned over to competitive markets and there never has
279 been more electric generation capacity available to Ohio customers.

280 **Q. Do customers allegedly wanting AEP to build solar generation equate to**
281 **having a need to build solar generation?**

282 A. No. Throughout its application AEP continually seems to conflate the concepts of
283 want and need to support its proposals. One of the primary tools AEP uses to

support its need claim is a customer survey supported by AEP Witness Horner that purportedly shows that customers support more renewable development in Ohio. Even taking everything in the survey at face value (notwithstanding the dubious methodology by which the survey was conducted) submitting a customer survey does not established the need required to support AEP's Application.

Q. If customers want renewable energy can they get renewable energy in Ohio?

A. Yes. There are customers that do want their electricity to be supplied by renewable sources. However, if customers want renewable electricity they have a means to receive solar power and other renewables under the current market construct. First, since Ohio has a competitive retail electric market, AEP customers could sign-up for electricity being served by a CRES provider from renewable electric resources. In-fact IGS makes available a competitive renewable electric product that is sourced from all-Ohio electric generation resources. Furthermore, Ohio customers are also able to install solar on their premises and directly receive solar from that source. There are companies in Ohio, including IGS, that are willing to build, own and operate solar at the customer's premise at no up-front cost to the customer so that a customer can meet all, or a portion of, its electric needs through solar power. More and more customers in Ohio are choosing to receive solar energy and more and more companies are willing to provide solar services to customers. It simply is inaccurate to say customers cannot receive solar electricity or other renewable energy in Ohio.

Q. If AEP's Application is approved, will customers be receiving renewable energy?

307 A. No. Under AEP's proposal, AEP would *not* be retiring SRECs or RECs on
308 customer's behalf but rather would sell the RECs generated by the generation
309 facilities into the wholesale REC markets. By law, a customer is not being supplied
310 by renewable generation unless the REC or SREC from the facility is retired by the
311 customer, or an entity acting on the customer's behalf. If the RECs are sold to
312 another entity the renewable attribute of the electricity produced from the facility is
313 transferred to the buyer of the REC. Therefore, if AEP's application were approved
314 AEP's customers would not actually be supplied electricity by the renewable
315 generation facilities, defeating the purpose that AEP application proports to
316 achieve.

317 **Q. Do all Ohio customers want electricity from renewable resources?**

318 A. While some customers may want renewable electricity, not all Ohio customers
319 want to receive that electricity if it requires paying an increased cost. The customer
320 survey replied upon by AEP even contains many comments made by customers
321 indicating that they do not wish to pay more so that AEP can build renewable
322 facilities. I have attached those comments to my testimony. Although not all
323 customers provided an individual comment, there are over 400 comments in
324 opposition to AEP's proposal.³ Furthermore, the citizens of Ohio have elected a
325 legislature that has declined to implement a policy that would require that solar be
326 built in Ohio. While our democracy is not perfect, in my view the state legislature
327 certainly provides a better reflection of the will of the people than an unscientific
328 customer survey conducted by AEP. Absent the renewable mandates established

³ Ex. MW-2.

by the General Assembly, customers have been granted the choice to select the competitive electric products that they desire and need.

IV. POLICY CONSIDERATIONS

Q. If Ohio wished to incent more solar, is AEP's proposal the best means to do so?

A. Absolutely not. Notwithstanding the legality of AEP's proposal, from a policy perspective, if there are far better means to incent solar development in Ohio rather than approving the application proposed by AEP. As I have already noted, Ohio is a competitive electric generation state; however, AEP's proposal is a throwback to regulated vertically integrated monopoly construct which the State of Ohio turned away from years ago. There are ways to incent solar that use market concepts that are a better fit for competitive generation states such as Ohio. As I will discuss further in my testimony, other competitive generation states have adopted these policies which have worked to develop solar. Some of these policies are within the purview of the Commission and some would require a legislative change. Regardless, the Commission should not now try to fit a square peg into a round whole by forcing 400 MW of utility owned solar on Ohio customers regardless of whether there is any actual need to do so.

Q. What is the best way for Ohio to incent additional build solar?

A. By far the best means to incent solar development, particularly in states that are competitive electric markets, is to increase the incentives available for building solar electricity on a competitively neutral basis. Evidence from other states makes clear that if states make incentives available on a competitively neutral basis, solar

352 projects will be built in those states. Massachusetts, New Jersey and New York
353 are competitive generation states that have more lucrative incentives to build solar,
354 and significantly more solar is being built in New Jersey, New York and
355 Massachusetts than in Ohio. Pennsylvania just adopted an in-state solar
356 requirement for is SRPS and more solar is beginning to be built in Pennsylvania.
357 Maryland has a more aggressive SRPS than Ohio and more solar is being built in
358 Maryland.⁴ Illinois just enacted legislation to provide additional competitively
359 neutral state incentives to build solar. I expect once those incentives become
360 available, much more solar will be deployed in Illinois as well.

361 **Q. Does the solar deployment in the states you mention have anything to do**
362 **with utility deployment of solar assets?**

363 A. No. The driver of solar development in the states I have mentioned is because
364 private developers building solar- not utilities. There are two primary reasons why
365 private developers are deploying projects in states like Maryland, Massachusetts,
366 New York, New Jersey, and Pennsylvania, more so than in Ohio. First, all of the
367 states I mention have higher wholesale and retail electric prices than currently in
368 Ohio; therefore, the economics of installing solar in the states I have mentioned is
369 better because alternative wholesale or retail prices are higher in those states.
370 Because the cost of wholesale and retail power from the grid is relatively low in
371 Ohio, solar tends to be comparatively less competitive in Ohio versus grid and
372 wholesale alternatives. Second, as I mentioned above, the states that have the

⁴ According to the solar energy industry association the following number of MW has been installed per state; New York: 1569.75 MW; Pennsylvania: 399.56 MW; Massachusetts: 2319.23 MW; Maryland: 1006.95 MW; New Jersey: 2646.93 MW. See <https://www.seia.org/states-map>

most solar deployment have strong solar incentives that are available to everyone that wishes to build solar. All the states I mentioned above have a much more aggressive SRPS, have in-state solar requirements, or otherwise provide incentives to build solar in-state beyond what is available in Ohio. However, almost none of the solar being developed in these states is because of utility built solar recovered by all ratepayers.

Q. Can you give examples of competitively neutral incentives that can drive solar deployment in state?

A. Yes. New Jersey has a very aggressive in-state solar requirement. The state is targeting 5% plus of in-state solar. Because of the aggressive in-state solar requirement the SREC value in New Jersey is much higher. These SRECs are available to all developers that wish to install solar. And the policy is working. New Jersey has a smaller population than Ohio but has over 10 times more solar deployed. Massachusetts also offers competitive neutral incentives to install solar. Massachusetts places a floor on in-state SREC prices ensuring developers get a minimum SREC price. Massachusetts has deployed over 10 times as much solar than in Ohio in a smaller populous state. New York also has a declining block feed-in tariff that allows all developers that wish to install solar incentives based on the location the solar is being installed. Again, New York has significantly more solar being installed than in Ohio. All of these states are examples of effective means to promote solar, where incentives are available to everyone, and not just the utility.

Q. Would allowing AEP to build solar in Ohio actually harm the market for private development of renewable resources in Ohio?

A. Of course it would. As I mentioned earlier, Ohio actually does make incentives available to developers of solar in Ohio. Ohio has adopted an RPS and SRPS requirement. Therefore, solar facilities in Ohio are generating SRECs that can be sold to load serving entities in Ohio to meet the RPS/SRPS requirements. While Ohio does not have an in-state requirement, under Ohio law, all the electricity used to meet the RPS/SRPS must be *deliverable* into the state of Ohio. Therefore, load serving entities in Ohio cannot buy RECs and SRECs in states like California to meet their compliance requirement. They must buy RECs/SRECs generated within the PJM and MISO footprint. Because many states in PJM and MISO have an in-state solar requirement, all the SRECs generated in those states are being retired to meet the SRPS in those states, not in Ohio. Therefore, the SREC/REC price in Ohio is highly contingent on the amount of renewable energy being built in Ohio. If AEP is allowed to build 400 MW of solar in Ohio, irrespective of cost, and irrespective of whether Ohio needs the solar to meet its SRPS requirement, the SREC market in Ohio will tank. The SREC value in Ohio, while not as lucrative as in some states, is a legitimate economic value that provides incentive to private developers to build solar in Ohio. Flooding the Ohio market with SRECs, as AEP is proposing to do, will almost certainly lower the SREC value for Ohio developers, lowering the incentive for those developers to build solar in Ohio. Because AEP's assets would be generating SRECs for a long period of time, the negative effects of AEP's proposal would have on the solar market would be felt for decades. Ironically, by approving AEP to build more solar, there would be less solar built by all other parties that are willing to do so at their own expense.

419 **Q. Is there any policy changes the Commission can make if it wishes to facilitate**
420 **the development of solar and wind in Ohio?**

421 A. Yes. While many of the state incentives I discussed above must be adopted by the
422 state legislature, there are some policies changes that the Commission can make
423 that will go a long way to removing the barriers to solar in Ohio. The number one
424 thing the Commission can do that will increase solar deployment in Ohio is to fix
425 net metering. Currently the net metering rules in Ohio only allow solar generating
426 customers to net their generation against their production on a monthly basis. As
427 explained by IGS witness Rever, simply allowing customers to net production
428 against consumption on an annual basis will go a long way to providing solar
429 customers the value of electricity for delivering electricity back onto the grid.
430 Moreover, *nearly every state in the PJM footprint allows for annual netting of net*
431 *metering customers* and certainly any state that has any substantive level solar
432 deployment allows for annual netting. Ohio is an outlier in this regard. IGS has
433 many potential customers that would likely deploy solar at their premises if annual
434 netting were allowed, but as explained by Witness Rever the monthly netting rules
435 have made it less economical for these customers to receive solar.

436 **Q. Besides annual netting for net metered customers, is there any other policies**
437 **the Commission can enact to promote solar?**

438 A. Yes. As explained by IGS witness Rever, another policy change the Commission
439 could make is to adjust commercial rate design to allow customers to realize a
440 reduction in the demand component of their distribution charge so that these
441 customers can get the benefit of the demand they are taking off the grid. Also,

allowing residential customers the ability to receive a reduced capacity tag when the solar assets reduce peak demand would help to develop the residential solar market in Ohio. Also, avoiding fixed charges that don't let customers realize the value of taking production off the grid, would help remove barriers and solar development. In short, there are several policy changes the Commission could adopt to promote solar that are much less costly to customers, and don't involve giving AEP as massive subsidy to develop solar.

Q. How do you respond to the claims that AEP's proposal will be an economic benefit to customers?

A. Many other witnesses in this proceeding point out the dubious assumptions and economic projections AEP has made in its application including Witness Leanza and Haugen of IGS. I will merely point out that if building 900MWs of utility scale solar and wind in Ohio, as AEP proposes, is a wise economic decision for customers, the project would have already been built and financed by private companies, at their own risk. There are tens of thousands of MWs of solar and wind being built throughout the country without ratepayer guarantees. In-fact solar development throughout the country, and in Ohio, has never been so robust. If AEP felt it was a wise economic decision to build these projects it could do so, putting its own shareholders money at risk. The fact that AEP is unwilling to put its own shareholder dollars at risk is telling of what AEP really thinks about the economics of the projects it is proposing. To be clear, I do believe that it can make sense to build renewable generation in Ohio depending on the customer's wants and needs. IGS is already building solar at its own risk in Ohio along with several

other solar companies. However, it does not make sense for the Commission to arbitrarily flood the Ohio market with 900 MWs of renewable generation and forcing all AEP customers to take on the risk of these projects.

V. CONCLUSION

Q. Will you please summarize your testimony?

A. Yes. If we have learned anything from history in Ohio's Commission proceedings, it is that adopting utility schemes to subsidize generation assets is not a wise step forward for Ohio customers and Ohio electric markets. The Application proposed by AEP is not an appropriate or lawful way to promote the growth of solar electricity in Ohio's competitive market construct. Approving AEP's proposal would not only be contrary to Ohio's legislative directive, it is a bad policy decision that would stifle the development of a robust sustainable competitive market for solar in Ohio. If Ohio wishes to develop solar, it could, and should, adopt policies that make competitively neutral incentives available to everyone that wishes to build renewable generation. There are plenty of examples where competitively neutral incentives for solar have worked to incent the development of solar in other states. Further, the Commission could, and should, adopt policies that would remove the existing barriers for everyone to build solar. These policies changes would go much further to encourage the development of renewable generation than what AEP is proposing. Approval of AEP's application would just hand the solar development market over to a select few, at the expense of all customers and other entities that wish to build solar in Ohio. Therefore, I do not recommend its approval.

Q. Does that conclude your testimony?

488 A. Yes. But I reserve the right to supplement my testimony.

CERTIFICATE OF SERVICE

The undersigned hereby certifies that a copy of the foregoing *Direct Testimony of Matthew White on behalf of Interstate Gas Supply, Inc.'s and IGS Solar, LLC*, was served this January 2, 2019 via electronic mail upon the following:

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/s/ Joseph Olikier

Joseph Olikier

**OHIO POWER COMPANY'S RESPONSE TO
DIRECT ENERGY, LP
DISCOVERY REQUEST
PUCO CASE NO. 18-501-EL-FOR, 18-1392-EL-RDR, AND 18-1393-EL-ATA
FIRST SET**

INTERROGATORY

Direct-INT-01-008 To the extent AEP Ohio contends there is an undersupply of renewable energy available to Ohio consumers, quantify the level of undersupply.

RESPONSE

As indicated in the survey presented in our filing, customers desire that the company increase its level of renewable resources and it would appear that the Company's supply of renewable energy is undersupplied to meet its customer's needs. The Company has not calculated the level of undersupply.

Prepared by: William A. Allen

Survey Responses
Renewable energy is great, but it doesn't need to be developed by AEP Ohio.
I agreed to pay slightly more for the choice that had 100% renewable energy on the ohio choice website and I suspect others do as well.
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 energy needs.
I simply want access and choice in selecting various degrees of clean energy in my tariff.
Look for outside investors to help keep your current customers costs as low as possible.
The free market and technology innovation should determine the pace at which renewable energy is implemented
I just want reasonable energy costs for reasonable use. No wasting money to seem politically correct.
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 survey, your results might be quite different, I would think.
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 customers taking power through a competitive supplier? This survey does not feel "right" and is potentially misleading.
I already pay a premium for the Viridian company to supply solar. I hope to get a rebate this fall after a 3 year investment. This may be a good model for Aep
I appreciate that you want to increase your renewable energy availability. I currently get my power through another company through you that is 100% wind power.
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 corporate investment in other sources of energy.
Ohio is a deregulated state, so how is AEP Ohio developing this renewable energy? Via AEP Energy arm, or through PPA's with other developers ?
Stop wasting our money on green boondoggles.
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 who want renewables, let them pay extra.
U guys have sh[expletive] service so y not try to male even more cutomers unhappy by bring this in to up charge more
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 rate payers of AEP Ohio.
Dont do it. I want cheaper bills...
I'm sure some how this is going to cost the consumer big \$\$\$\$. AEP rips off its customers on a daily.
If it costs more, don't do it. We have plenty of resources.

Why don't you invest in buried lines. Upgrade the line infrastructure first!
This should not be at the expense of customers.
I don't think aep really cares about renewable energy. You want to surcharge people that are doing their part for the environment now (with solar or wind power) a surcharge.
I'm okay with it as long as it doesn't increase my costs. The cost to implement this should not be passed down to the customer.
Reduce salary's of upper management.
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 about money. That's it. Nothing else.
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 energy is any kind of viable alternative to fossil fuels.
I am not in favor of using renewable power if it costs us customers more like it did a couple years ago. That wasn't good.
Really could care less. Use whatever is most cost efficient. And that is not solar,wind, etc..
I prefer to do business with "socially acceptable" companies. Socially acceptable companies can not take money from the government or accept tax breaks.
Maximize Hydro-Electric. Solar & Wind. DO NOT pass investment costs to consumer.
not in favor if it drives up rates. From what I read, these options need large subsidies to make them competitive and we are charged either through taxes or higher rates.
PLEASE REDUCE ENERGY COST TO USERS.
I switched my generation service to a 100% renewable supplier years ago.
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 and gas
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 pass those additional costs to me.
THE USERS WILL HAVE TO PAY FOR THE DEVELOPMENT AS USUAL. SO WHY DO YOU ASK??
Do Not support renewable energy
There should be no limitations on private producers of renewable electricity.
Stop wasting money on these expensive sources of power when there are much cheaper and proven alternatives.

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 untested, unproven PC projects that are not as efficient, not as reliable.

I want my energy to be as inexpensive as possible. I don't care about renewable energy.

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, efficient and economical energy sources such as gas and coal.

I do not feel the customer should pay for it.

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 gas as peaking units.

Currently switched generation source to be 100% renewable.

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 you can!! Solar and wind power. Pfft. What a joke! Hippies

No more renewable until it is cost competitive, and no subsidies.

Put your money into your distribution system. Your reliability totally sucks.

Encourage business & residential customers to install & use solar or wind power, that would tie in or somehow collaborate with AEP.

Its expensive and faulty.....don't waste money on it! Foolish!

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 don't care

I'm more interested in getting rid of above ground power lines. I would also prefer renewable energy to be done by homeowners rather than AEP.

Another AEP ripoff.

Your customers are forced to pay but never receive any ROI.

I fu[explative] hate AEP, they are the only source of electricity in the city of Columbus which gives them the fu[explative] power to charge us very high electric bill. AEP is like the NAZI in Columbus Ohio. Fu[explative] them.

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 increase and then do nothing.

Why the fu[explative] did my bill triple this month? God damn money hungry pigs. I'm broke as fu[explative] and yet you still want to steal my money.

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 !! It's all fake just like CNN news !!!

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 then forget it, I don't want things to change.

What I would prefer is that AEP focuses on keeping my power on consistently NOW. We have lost power in my area 3 times in the last 2 months.

The free market, capitalism, innovation and competition should dictate the rate of renewable energy acquisition.

Hope you are looking to keep costs down for customers.

This questions on this survey are so slanted toward AEP how can it be impartial?

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.

Only consideration should be cost and reliability.

I think this is a very important issue. I have actually opted for a more expensive electricity provider (through the Choice program) because they used renewable energy.

Why is my electric distribution company considering making investments in generation? Are such investments within Ohio law?

Would rather see infrastructure improvements such as more underground wires and better grid security.

AEP should not force its coustomers to pay for its upgrades and investments. FU[EXPLATIVE] AEP CORP.

The electricity generating market is both regional (Multi-state) and competitive. Regulated monopolies should not be engaged in this business in any other form than as a competitive bidder to end-users

There is no need for renewable energy. Use Ohio natural gas and coal.

Ya we over pat as it is stop riasring the price we barley can feed are families now

If we do start renewable energy I would prefer if it was done without affecting my bill. I would not be okay if this project was started and the cost to use electric went up.

Don't bother with it until the technology becomes more efficient.

lower my cost

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 the economics of energy supply and demand.
Hard to beat conventional sources of electrical generation that is not dependant on sometimes unreliable sunlight or wind.
This is a bad idea.
Generation should be on the lowest cost basis. AEP should lobby the government to remove incentives for all types of generation and allow the market to choose.
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 make sacrifices in other areas just to be able to cover the electricity bill...
If its going to increase the cost of electric or add another fee/tariff to my bill, don't do it
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 to high due to you construction choices.
Put that money into client service
I care about the cost of energy, not the source. Renewable energy is generally more expensive and a less stable source.
I am more concerned with cost.
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 subsidies. Rates should reflect costs of services.
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 cheaper than current market prices then I'm not interested it in.
Regarding production in the state of Ohio...it 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 would be okay with that.
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 of Ohio.
if it is cost effective do it if not don't
Whatever investments should be cost effective.
Would it make our bills lower
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 for homeowners to purchase their own solar panels.
I would think that there would also be an ultimate decline in prices (after initial investments), and I hope that AEP passes the savings on to its customers
Windmills and solar are not cost efficient, they take up valuable land and are an eyesore especially the windmills. Ohio is not a good location for either
Too damn high
What ever it takes to lower my electric bill.

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 turbines than what they will output during their life of service.
Burn coal. Keep Ohio jobs.
The return on cost doesn't seem to be there. Political correctness doesn't pay my bills.
Don't raise customer bills because of political pressure to get into a "renewable energy" boondoggle!
I don't want to pay the higher cost
Maybe give people options on their bills to have solar or wind generation options to buy or lease to own.
I wish you would do something... These bills are crazy and should not be this much...Last yr my bill in winter was sometimes \$1,500 a month that's crazy.. I am going solar next summer so I don't have to deal with these kinds of bills.
This is only good if it lowers my utility bill.
Keep coal
I would not want to see increased expense in my bill.
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 only for publicity and helps on one
As long as it doesn't cost consumers more money it's a good idea. While we need as many ways as possible to get energy people can't afford to pay more for it.
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 with little benefit.
What impact will this have on our costs?
I still believe the focus should be on producing low cost generation, regardless of fuel type.
I want whatever provide cheaper energy!
From what I have read, renewable energy from solar and wind are expensive and harmful to the environment
Do what you want as long as it doesn't increase my cost.
Please use my money more wisely.
I want to know who is going to cleanup the ugly wind/solar farms when the equipment rusts/breaks down or are closed down....
Renewable energy sources have historically increased the cost of electricity to consumers, and at this time are a liability, not a benefit to the public.
I am not in favor of anything that would increase my bill
they need lower there rates
Keep the price as low as possible. We are disappointed the distr/transmission are more expensive now than making electricity.
Cost not efficient - still need electricity to run wind turbines. When product doesn't work anymore, what environmental consequences will occur? I.e. unrecycleable material, cost of replacing them.
Only if it is cheaper than other energy sources.

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 turbines and panels may be worse for the environment than coal or nuclear.
I don't want to see a big price increase to pay for it. Take some of your profits and do it.
this needs to be done without increasing costs to us customers. Really probably would be better and have less environmental impact to invest in nuclear instead.
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 moving more lines underground)?
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 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.
I would like renewable energy but don't want to pay more for electricity Plus coal is very clean burning now...
Has to make economical sense
Keep the cost to the consumer below what other generation methods would be. If it's higher, don't do it.
Renewable is important, but it's not important that you build the infrastructure. If you can buy and resell renewable in a way that makes sense then do that.
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, notwithstanding the look of pristine land/ water with these, don't think it's a good trade off
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 these options!
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 worse than coal or natural gas to the environment.
Provide energy based on most cost effective technology not politics.
Burn coal. Why is it that I'm using less electric but my bill keeps going up?
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.
Have no clue on what renewable energy initiatives aep is a part of.
I don't want it if it drives my cost higher. I think we have been too quick to abandon nuclear energy.

Not important to me at all. The priority should be to provide the cheapest, most reliable electricity regardless of source.
Please do not turn this into something that will increase the bill down the road. The rates are already ridiculously high.
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 of the birds.
If it's not going to lower my energy costs what good is it? It does not do anyone any good to jack up the cost to use something that is suppose to lower it
It is a shame that we cannot use the coal that we have.
Don't do it unless it makes economic sense for your customers and the long term viability of the solar and wind systems is assured.
I do not want AEP's efforts at integrating renewable energy to increase my bill. I have to service sites and cannot afford any increase.
Renewable energy has to be affordable to all. Expensive renewable energy negates the effort to build it.
I'd prefer a cheaper bill. I do not care about wind or solar.
Congratulations on stepping up to increase renewable energy resources when the federal government won't. We appreciate your leadership.
No
just keep my bill as low as possible
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 available, so that as the primary energy source is most logical to me.
Helping to push more solar incentives programs in Ohio for not just the utility, but all solar companies to make it easier for behind-the-meter residential customers
No more wind tubines near homes. Keep the current Ohio setbacks
Just don't pass on the costs to consumers.
After accessing the Apples to Apples website a few years ago, I selected a wind 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 disposal costs.
Coal.
Renewable energy should only be increased if the cost, unsubsidized is beneficial and profitable.
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.
Hope abundant energy will mean low monthly bill for customers
We that live in the country need our lines replaced , they are old and break easy

If investing in renewable energy sources lowers cost to AEP, those savings MUST BE passed down to its customers.
Usually these renewable energy sources consume more natural resources to build than they will save in their lifetime.
It is also important to evaluate possible negative environmental effects of adding solar and wind energy and to evaluate other alternative energy sources.
I find it unfortunate that government regulations pushed AEP away from coal. I believed the scrubbers being used at coal plants were good.
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 encroachment on their land. I oppose this.
I have already switched my source to Acadia(wind power). tho it likely comes from out of state. Would prefer more IN STATE renewables. Thanks 4 the survey!
If it is done I don't want towers or turbines anywhere near my house. We already have a transmission line thru out front yard and I hate the sight of it.
i think you should use gas to generate power its cheep and renewable
Do whatever necessary to provide lower cost to me.
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. QUIT closing coal-fired power plants just because the radical left says you should.
If this will result in higher monthly bills, I am not in favor of the development of this process.
Measure the real economic and environmental consequences of renewable energy, including the manufacture of equipment required. There are real dangers with this path.
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 leave me with a leaking roof.
from a common sense factor I would hope that these energy producing options would aide in lower consumer rates and not added cost factors???
The marketing of renewable energy suppliers resembles that of disreputable products such as cheap electronics or cancer insurance.
Want to make sure the savings from these sources are passed on to the consumer
Your flushed with cash so no reason not to make an investment in renewable energy.
Important to reduce or contain energy costs while maintaining sustainable and reliable energy
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 even more
I am only in favor of sources of renewable energy that LOWER my utility bill!
Just don't want to receive another bill increase, seems to happen much too often.
Would like to see use of renewable energy sources however, cost needs to remain similar or even lower than current source.
I don't know where my electric is coming from now but \$180 monthly budget is really really bad.
I don't care where or how my electricity is generated. I want the most reliable service for the cheapest price.

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 fields
Clean Coal baby
renewable energy is way to expensive
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 OH, good luck with that!ðŸ˜™,
AEP is sitting on plentiful natural gas. Use it to produce the cheapest electricity possible.
i feel that the wind mill farms are the cause of a lot of the climate change
Give the people cheaper electric rates. You charge way too much and keep "riders" in place years after the storm damage occurs.
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 for market pricing to be advantageous and ideally let the technology mature.
How's this gonna effect my electric bill i sure dont need it to go any higher
Suggest you double and triple check your projected return on investment before you go spending a bunch of cash on renewable energy.
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 it.
long term, is it equal or cheaper than gas. Not if it costs significantly more.
Cheaper bills
Hopefully your also exploring how to provide these services so they will be more affordable especially to those on low or fixed incomes
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 solar may not be as efficient.
Not interested in renewable energy if it cost more to produce than nonrenewable energy.
Do whatever keeps my electric bill lower.
Renewable energy is an expensive farce, and will never be able to supply adequate energy. Coal, oil, and gas is the only real answer.....and we have lots of those items.
It's only worth doing if it's also economical for both AEP, and us CUSTOMERS.
no
A day late and a dollar short on making this move, don't you think?
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 investment and not really worth it for financial incentives alone.
It should not increase the cost of energy. If it does don't do it.
cost of production is very important - do not go to renewable energy at any cost
I am more concerned with keeping our prices down than with spending extra dollars to utilize 'greener' forms of energy.
Use clean coal technology until the supply makes it no longer feasible.

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-affecting decisions based on this garbage doesn't either.

AS A RETIRED COAL MINER CLEAN COAL IS THE ONLY WAY TO GO

If it is going to raise the bills I would rather you not do it.

If it costs the consumer more, I'm agin it.

I believe coal mining is extremely important, so anything else is unimportant to us.

Keep costs low that is the most important issue.

Don't pass added costs to consumer. Your rates are already exorbitant.

keep the cost down.

Just try to improve the dependability. We get a lot of brown outs and outages when there isn't even bad weather. Thanks.

Bring back reliable cheap plentiful coal with modern reasonable pollution standards

Anything to make our bill cheaper

I am a coal miner I wish to see the continued use of coal.

I am not willing to pay more for it.

Only invest in renewable energy if it available at the same cost as traditional energy sources.

Im concerned about keeping the cost of electricity down so senior citizens can pay their bill. Along with low income people.

Most renewable energy sources have a larger negative impact on the 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 than is returned)

no

You should pass savings on to your customers!

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.

If it costs more than coal, nuclear or coal, don't do it.

Believe it will be too costly to implement and maintain therefore passing more costs to the consumer. Also, flying creatures such as birds may be harmed.

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 considered.

It was a mistake to go away from your coal power plants.

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 over green energy.

the only thing i care about is affordability

Power generated by wind and solar are very expensive. I believe the country is better served by using coal and natural gas.

Lower energy costs

Livable price is primary consideration.

renewable energy, particularly wind, is a worthless feel good waste of resources
I do not want AEP to rely on renewable energy if it means that my bill will be higher.
<p>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"</p> <p>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.</p> <p>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.</p> <p>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.</p> <p>[DELETED DUE TO PERSONAL IDENTIFIABLE INFORMATION]</p>
No
Wind and solar energy will never come close to meeting the energy needs of our 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 who are unaware of this reality.
nuclear could replace all of the choices you're looking at.
Only if it reduces the price for customers. I don't see the point of renewable energy if we have to pay more
Wind farms are an ugly and terrible plight on local communities.
Any investment should make economic sense based on its own merits, and not rely on tax subsidies or redistribution of wealth.
Don't want to pay more.
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 the State of Ohio geographical borders. No sympathy on either thought.
too expensive - lower the cost to natural gas based supply
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 solar panels.
Natural gas I'd plentiful
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 energy!!!!

Reliability and cost are most important to everyone I speak to. I am an AEP employee. My friends and neighbors know this. The only things they ever talk about are with regard to AEP is: Cost, reliability, and community service.
Renewable energy is not consistent, it is subsidized at our expense, it cannot be stored and often is not available when needed.
Windmills are way too costly to build then to maintain...also take up too much green space and are noisy... for the actual amount if energy supposedly saved!!!!
it should and can cost less . don't use it as an excuse to charge more .
RELIABLE ENERGY IS IMPORTANT, NOT THE SOURCE. I tend to believe that energy that is subsidized by government is extremely unreliable, just like government regulation.
I support initiatives like this if they are cost neutral. I do not think these types of initiatives are worth paying higher rates for.
Happy to have on home contributors to energy generation. Saving money long term. NOT interested in being overcharged
I wouldn't do it, your cost are going to go through the roof, all these other companies that are doing this , aren't able to be competitive with AEP... It is not worth it... Stay with what you are doing....
In the near and long term electricity should be as inexpensive for consumers as gas is!
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 wind and solar. The high cost of these is prohibitive.
So you really think 'solar' is going to work in Ohio? You're dreaming!
I can barely afford to pay my bill as it is...disabled vet farmer
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 is the same short sighted mistake and I don't support making it.
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 do serious damage to the bird population.
We should use reasonable economical practices. Common sense solutions.
Lower prices, use gas or coal
My only concern is that utilities seem to charge customers more to make "renewable energy" that's suppose to make it cheaper since it is renewable.
Wind turbines are annoying, ugly and kill birds.
No
Don't build those ugly windmills
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 the sun isn't shining.
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 upgrading the current outdated electrical infrastructure.
choose the cheapest power - doesn't matter if it is renewable.

<p>you would think the bill would be cheaper i get bills from other electric companys and they are way cheaper you guys</p>
<p>I would prefer, whatever you do, it be cost effective above all. If we have to wait a few years for that...so be it. Thanks for including us in your decision-making.</p>
<p>Maintenance and generation costs are much higher with wind / solar power, and they can not accommodate variable load demands.</p>
<p>those windmills are nothing but a waste, can.t understand why you would want to waste good money on this crap</p>
<p>Renewable energy sources are not cost-effective compared to more traditional means of power generation, and shouldn't be considered unless, or until they become so.</p>
<p>Renewable energy in OH is probably not worth the investment since we do not have many sunny days and the only wind that can be counted on is off Lake Erie.</p>
<p>It's so expensive to install!</p>
<p>Only do it if it is cost effective. Don't do stupid stuff like try to generate solar in Ohio.</p>
<p>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 affordable for the poor.</p>
<p>If it lowers my bill I'm fine with it. If it costs more on my monthly bill, then I will choose a different provider. It's my bottom line that matters most right now. Not in a position to pay more</p>
<p>No</p>
<p>invest in renewable technology with profits and not raise bills.</p>
<p>Renewable energy is to expensive!</p>
<p>I want my energy cheap a reliable</p>
<p>I would like to see energy produced at the least cost whether that be coal, nuclear, renewable or some or means.</p>
<p>"Renewable energy" doesn't solve environmental issues</p>
<p>cost of service</p>
<p>Wind energy is very expensive, an eye sore, very lethal to birds and bats, and uses too much land. If it wasn't heavily subsidized by tax payers you wouldn't be doing it.</p>
<p>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. You need to stick with baseline power coal generation, Natural gas and nuclear.</p>
<p>I think u should do what is most economical. Not political.</p>
<p>should not be forced on to the consumer unless it makes economical sense</p>
<p>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 idea.</p>

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 understood.
Please consider the entire cost to the environment as well as to your customers. Don't give in.
Don't switch to energy sources that cost more.
The bill is way to high. Especially for transport and delivery when we have 2 electric plants in our county.
No objection as long as it doesn't increase the cost.
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 prices continually
cost should be as low as gas or oil
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 and I applaud the effort no matter how big or small!
It comes down to costs.... If it cost me more, then Im not for it. On the contrary, if I could utilize solar and get rid of the energy company, I would do that!!!
At what cost is this to me the customer. I know it will either increase your profits or shares but what does it do for me the consumer.
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 each year by wind turbines.
Not at this time
Keep the price of electric low.
Windmills and solar are a foolish waste of money. Burn the thousand years worth of coal, and natural gas that are in this country.
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 at a higher cost to me.
my biggest concern is market price. If the price of renewable energy is greater than that of "non renewable," it's of no importance to me.
Only if the renewable energy is cheaper
I am currently using a service (Arcadia) that uses credits so that all my energy comes from renewable sources. We are willing to pay extra for thisâ€”it's that important to us.
Renewable energy is a great thing, but there are areas where AEP spends 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 energy.
Solar, wind and such are great. BUT, not worthy of spending excess amounts of money to have them.

Unnecessary and not economically feasible at this time in my opinion. Until the state of the art can compete on equal footing with current methods and sources of energy generation...Don't waste your/my time!
Renewable energy is fraught with problems and really isn't mature enough to be of any significant benefit. All the while, it unnecessarily drives up prices. Deliberately shifting investments into a less reliable, less flexible, more expensive power source is not a wise course of action.
Generate power at lowest cost.
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 worth it to me
It feels like AEP is slow to modernize. This may be inaccurate, but you don't often communicate with me.
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.
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 I'm on a fixed income I keep paying more for everything which is it making it hard for me to live.
unless it can be done for the same cost or less, STOP.
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!
Renewable energy in its current form is not helping reduce harmful emissions and is not anywhere near renewableâ€ 2. The investment at this point
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 that has virtually no scientific basis. Renewables MAY become economically viable in the future but currently do little more than increase overall costs and destabilize the power grid. Those that call renewables "cheap energy" ignore 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 solely by renewables.
stop stealing money from poor citizens
Renewable energy is TOO expensive.
Bring back clean-burning coal-fired electric generating plants - just as efficient, costs MUCH less, America's coal supply is almost limitless.
waste of resources raising our bills
Lower ele. Bills and not so many outages
We went solar because we are tired of getting raped by AEP
Renewable should be treated like a high cost trend. If the energy is truly better than what we have now the cost to customer should not be more.
Power sourcing should be cost effective (cost neutral). I would not be interested in paying higher prices for the sake of wind/solar.

You are already charging too much for energy, please do not make investments that will cost your customers more.
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 customers at the expense of rural quality of life.
Wind production needs to provide a protection to prevent slaughtering birds
no fracking!
I want AEP to wait until there is a renewable energy format that is economically feasible. Right now neither solar nor wind are reliable or cost effective. You should stick to natural gas or clean coal until such time as a renewal source is reliable and economical.
I want reliable and cheap power. Nothing else matters.
Wind energy has been demonstrated to have adverse health effects on people and animals. Wind energy is NOT an intelligent or reasonable alternative to the use of fossil fuels.
Stick with coal. Or do you not care about saving the consumer money?
Yeah they should put the two coal fired power plants back online.
Wind power kills birds and looks bad outside is novel appearance. Solar power is not efficient cost wise to my understanding.
NEED TO KEEP THINGS IN PERSPECTIVE ECONOMICALLY, COAL AND GAS ARE STILL A GOOD SOURCE OF ECONOMICAL POWER, THE WINDMILLS ARE HIGH RISK!!
I am tired of my AEP bill going up exponentially higher! I do not think I can ever afford wind or solar energy. Give people like me barely making it a break! I actually got NASA complete insulation in my house and keep my thermostat at 82! My bill still goes up! What can I do to lower my AEP bill!?? Also have new double pane windowss! I need help!
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
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 panels???
Wind Turbines are ugly and kill birds. It is too cloudy for solar in Ohio.
We have an abundance of fossil fuel in this country. Use it. Renewable is still in the talking stages & can't possibly compete with the sources of fossil fuel.
Wasted money.
Don't waste your money
I have read that the cost of transmitting wind-generated energy is quite high.
My bill is extremely too high for a single mom of 4 to pay. Maybe my meter needs to be read more often
what a waste of money on tech that is not efficient enough for the commercial market. what is the problem with clean coal. it's proven, efficient and cost effective, not to mention Ohio has an abundance of it, so does the rest of the country. Politics destroy's good tech for the wasteful benefit of "trying " to look "green'.
WASTE OF MONEY
4.5 percent is pretty pathetic coming from a company based here in the 1st world
Perhaps investigate "cleaner" ways to use coal.

AEP is enjoying a monopoly around where I live so I don't believe they care about cost to consumers
Renewable energy sources are not a viable replacement for fossil fuel. In addition renewable energy projects usually require government subsidies (taxes).
Renewable energy cannot compete with coal or nuclear. Both in terms of price and energy output
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 farms...let us explore various uses of wind power to find a more silent and effective "windmill".
Stop wasting money on renewables. Build nuclear.
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 and I'm not the only one that think like this google it.
I love the smell of toxic exhaust fumes while walking to work. They smell so great. I could bathe in it.
I do not want any wind turbines in Central Ohio.
I still believe that a clean way to use coal should continue to be reserached
Wind turbines KILL birds, and solar panel farms require large amounts of land that cannot be used for other purposes. Not a fan of either.
Renewable energy programs are not cost effective in the future.
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 suing 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.
[DELETED DUE TO PERSONAL IDENTIFIABLE INFORMATION]
I am opposed to politically motivated reasons to use this source or that. The only criteria should be what is the most reliable source that provides the most reliable power at the best price and value.
Stay on task
I don't mind if AEP invest in these, but I do not want to bare the cost way of an increased bill for you to make your investment off of my dime. I'd rather continue using the power I get now. Thank you
Right now, electric bills our way too high- higher than all other utilities - never know when electric is going to be out.
try keeping the cost down cause we're all POOR.
Lower my dame bill
Don't raise prices just to be "green". It has to balance.
Keep it inexpensive
Investing in renewable energy for political correctness is not in the best interests of your customers. Prices will go up because renewable sources cost more to install and more to operate.
Concerned if there is going to be an increase in cost per month.
I do not want my bill to raise at all 0 increase
we cant afford to put out any more money and I think that if aep is up grading they need to do it with there money in stead of charging the costumer

Lower costs, all the extras charges are getting out of control
Investments should be preceded by grid upgrades to insure efficient use of power. Also, when possible, investments should preference Ohio production/manufacturing/sale/installation.
Stick with COAL or gas more dependable.
Renewable energy is BS. Cost too much. Benefits over exaggerated
Not at all good for the environmentally friendly.
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-found greenness. Fix your in-house finances first, then invest where you want.
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 the state.
If it makes my prices any higher not interested.
I support coal!
Please use the media to let us, the public know when and how you implement changes to increase your renewable resources. Thank you.
I'm against wind and solar for electric generation. Use the abundance of natural gas in the area. Lower my electric instead of raising the price of electric.
keep the lower prices keep it basic keep the lower prices keep the lower prices
I think it's too costly. Which means I'm going to pay for it. I don't think it's a good return on my dollar
I don't want to pay a penny extra for renewable energy. If coal is cheaper, burn it.
Renewable energy should only be pursued when it is competitive in the market place. Renewable energy as it is today is not a good option.
Don't waste the shareholders' money on this crap. The only thing it does is make environmentalists feel good. It won't reliably keep my welder running.
Get energy where it's lowest cost.
AEP NEED NO RENEWABLE ENERGY DEVELOPMENTS!!!
My bill is always toooooo high.
will this result in yet another charge to the customer?
do not support
No need to push renewables. Keep the generation playing field level. Lowest cost generation first.
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 encroaches on the property rights of Ohio citizens. It is a waste of taxpayer dollars to subsidize this and they aren't even made in the USA. .
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 way to do this, more people would follow suite.

Burn coal. It's the most reliable and provide s. Many jobs. Remember the wind doesn't always blow and the sun doesn't always shine
The Important to the customer is to lower our bill.
Coal is abundant in Ohio and Midwest. Stay with coal for base generation and natural gas for on demand.
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 produced. Think twice before promoting more.
Industrial Wind Factories are nothing but a big scam and money grab on hard working tax payers. Stop the destruction of our communities, our environment and our very way of life.
The hell with your windmills!!
too expensive
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 opportunity to provide feedback.
non @ this time, thanks
I am not interested in seeing whatever AEP decides to do costs me more money. If solar panels are installed to bring renewable energy it should also cost less to the consumer.
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 three times more expensive. I don't want to pay for that.
Go Bach to Ohio coal. AEP spent millions to meet EPA standards only to shutter 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 the regs on it.
I have no interest in renewable energy if it's going to increase my electric bill.
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 will cost customers much more. Stay affordable.
Too expensive now. You are just catering to the extreme left in this area. Lower your rates thtough our abundant existing resources.
DON'T RAISE PRICES TO DO IT
AEP should pay for their own investments and not expect the customer to pay more for renewable green energy that cost less to produce.
AEP rates are already excessive. Do not raise them further.
keep the cost down!!!! we pay TOO MUCH for our electric the way it is!!!!!!
For me the important issue is not the source of my home electricity but its price. At the moment solar energy is neither efficient or nor price competitive.
lower the cost of energy
Not interested because it is too expensive.

I don't feel it's necessary at this time. It's very expensive to do and the cost is passed on to the customer.
Not interested in renewable energy...
Cut cost instead of expansion. Added expense for something easily wiped out by other polluting countries like China and India.
Let people who want renewable energy pay the additional cost. Don't make everyone pay for something the only a segment of society wants.
dont waste the money
Use coal. It provides jobs it more reliable and it can be burnt clean and it is cheaper
I want the most affordable power possible.
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 solar).
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 industry. Dont.mess with it.
Price is more important
I want the cheapest electricity possible, please DO NOT invest in renewable energy if it increases costs.
Only if it makes electricity cheaper. Don't increase my bill to make someone feel good.
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 fuels that will ultimately reduce energy costs.
Don't like it - coal is cheaper.
Do not do anything that is not already economical without government subsidy.
I cant afford any more money for extra bills I live on a limited income I cant even buy food and have no public assistance to help pay for anything
Keep rates as low as possible.
There is no need to use the inefficient renewable sources. We have plenty of natural gas. In the state. Wind turbines kill millions of birds across the country it's devastating the bird and bad population bad for our community
You are wasting your time, effort and money on solar and wind.
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 sources, then absolutely make those investments.
I honestly don't care if you do or don't do the renewable energy as long as you don't increase my bill. But you most likely will so I may just switch over to solar.
Take advantage of the fossil fuels (Nat. Gas) available in this region and quit acting like you are pressed to find non-Fossil Energy Sources. If you did this we / all know you would be saving us unnecessary expense. Your all into the far Left, get off your butts and believe in Trump.
I am still an AEP customer but also switched to Arcadia Power so some of my electricity would be coming from renewable souses.
Do mot increase my bill.
stick with what works,
Too expensive

Way to expensive I wish there was another energy company
unreliable, inefficient, expensive, unsustainable
What your loyal customers want is lower electric bills. Renewable energy is expensive, and we don't want to pay for it. Stop investing in renewable energy!
Until the technology improves, its not worth it.
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.
Having seen this in numerous areas, it turns out to be a waste of time and money. I believe it is just to satisfy unfounded concerns by environmentalists. Our planet is NOT fragile! God doesn't make junk!
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 don't care about renewable sources. Want lowest utility bills possible however you make that happen please!

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Summary: Testimony of Matthew White electronically filed by Mr. Joseph E. Olier on behalf of IGS Energy and IGS Solar, LLC