

From: [Puco ContactOPSB](#)
To: [Puco Docketing](#)
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From: salbright2@aol.com <salbright2@aol.com>
Sent: Saturday, August 29, 2020 10:54 AM
To: Puco ContactOPSB <contactopsb@puco.ohio.gov>
Subject: Icebreaker Windpower, Inc. Case #16-1871- EL-BGN

Good Morning OPSB,

I pulled this article up from 2018 and reviewed it to see if anything has changed for the better for industrial wind "power". I failed to find any favorable improvement. As you consider whether to remove the feathering clause in the permit for Icebreaker Windpower, Inc., please read this article and determine if it is worth it to slaughter thousands of more birds over Lake Erie for such a fraudulent project. In fact, birds aren't the only species to suffer if this project moves forward and is built at all. Humans who drink the lake's water, taxpayers who finance the project, EVERYONE surrounding the lake will pay the price.

A recent submission by Sandra Williams claims an economic boom to the Cleveland area if or when this project is built. Where is the evidence, the hard facts supporting her claims?

Respectfully submitted,
Suzanne Albright
Great Lakes Wind Truth

Looking for Reasons Why Wind Power Can Never Work? Here's the Top 21

May 28, 2018

It doesn't take a genius to work out that wind power is the greatest economic and environmental fraud of all time. All it takes is a little cognitive power and a sense of inquiry. Once people work out that they've been conned, they never turn back. In our travels we've met plenty who've started out in favour of wind power and turned against it; we've never found an example of the reverse. STT dishes up the facts on a daily basis, much to the annoyance of the wind cult. Anyone looking for a solid set of reasons as to why wind power can never work, need look no further than this cracking little list put together by John Droz.

Twenty-One Bad Things About Wind Energy — and Three Reasons Why

John Droz
22 March 2018

Trying to pin down the arguments of wind promoters is a bit like trying to grab a greased balloon. Just when you think you've got a handle on it, it morphs into a different story and escapes your grasp. Let's take a quick highlight review of how things have evolved with merchandising industrial wind energy.

1 – Wind energy was abandoned for most commercial and industrial applications, well over a hundred years ago. Even in the late 1800s it was totally inconsistent with our burgeoning, more modern needs for power. When we throw the switch, we expect that the lights will go on – *100% of the time*. It's not possible for wind energy, by itself, to EVER do this, which is one of the main reasons it was relegated to the archival collection of antiquated technologies (along with such other inadequate energy sources as horse and oxen power).

2 – Fast forward to several years ago. With politicians being convinced that Anthropogenic Global Warming (AGW) was an imminent catastrophic threat, lobbyists launched campaigns to favor anything that would purportedly reduce carbon dioxide. This was the marketing opportunity that the wind energy business needed. Wind energy was resurrected from the dust bin of power sources, as its promoters pushed the fact that wind turbines did not produce CO₂ while generating electricity.

3 – Of course, that just by itself would not have been a significant incentive, so the original wind development lobbyists then made the case for a quantum leap: *that by adding wind turbines to the grid we could significantly reduce CO₂ from those "dirty" fossil fuel electrical sources (especially coal)*. This argument became the basis for many states implementing a Renewable Energy Standard (RES) or Renewable Portfolio Standard (RPS). Those undemocratic standards *mandated* that the state's utilities use (or purchase) a prescribed amount of wind energy ("renewables"), by a set date.

Why was a mandate necessary? Simply because the real world reality of integrating wind energy made it a *very expensive* option. As such, no utility companies would normally do this on their own. They had to be **forced** to. For more on the cost, please keep reading.

4 – Interestingly, although the stated main goal of these RES/RPS programs was to reduce CO₂, not a single state's RES/RPS requires **verification** of CO₂ reduction from any wind project, either beforehand or after the fact. *The politicians simply took the sales peoples' word that consequential CO₂ savings would be realized!*

5 – It wasn't too long before utility companies and independent energy experts calculated that the actual CO₂ savings were miniscule (if any). This was due to the inherent nature of wind energy, and the realities of necessarily continuously balancing the grid, on a second-by-second basis, with fossil-fuel-generated electricity (typically gas). The frequently cited Bentek study ([How Less Became More](#)) is a sample independent assessment of this aspect. More importantly, there has been *zero scientific empirical proof* provided by the wind industry to support their claims of consequential CO₂ reduction.

Studies cited by the wind industry (about wind energy's CO₂ savings) are almost always computer models. As a person who has written some 100,000 lines of code, I can assure you that it's easy to make a model that "proves" that pigs can fly. Models may be appropriate where there is no actual data. Since there are a few hundred thousand turbines in operation worldwide, there is empirical data. If CO₂ is genuinely being saved, the wind industry should be able to show real data.

6 – Apparently suspecting that the CO₂ deception would soon be exposed, the wind lobbyists took pre-emptive action, and added another rationale to prop up their case: *energy diversity*. However, since our electricity system already had considerable diversity (and many asked "more diversity at what cost?") this hype never gained much traction. Back to the drawing board....

7 – The next justification put forward by the wind marketers was *energy independence*. This cleverly played on the concern most people have about oil and Middle East instability. Many ads were run promoting wind energy as a good way to reduce our "dependence on Middle Eastern oil."

None of these ads mentioned that only about 1% of our electricity is generated from oil. Or that the US *exports* more oil than we use for electricity. Or that our main import source for oil is Canada (not the Middle East). Despite the significant omissions and misrepresentations, this claim still resonates with many people, so it continues to be pushed. Whatever works.

8 – Knowing full well that the assertions used to date were specious, wind proponents manufactured still another claim: *green jobs*. This was carefully selected to coincide with widespread employment concerns. Unfortunately, when independent qualified parties examined the situation more closely, they found that the claims were wildly exaggerated. Big surprise!

Further, as attorney and energy expert Chris Horner has so eloquently stated:

"There is nothing – no program, no hobby, no vice, no crime – that does not 'create jobs.' Tsunamis,

computer viruses and shooting convenience store clerks all 'create jobs.' So that claim misses the point. Since it applies to all, it is an argument in favor of none. Instead of making a case on the merits, it is an admission that one has no such arguments."

See a very detailed critique of the jobs situation at PTCFacts.Info. Listed there are TEN major reasons why using jobs as an argument is not appropriate or meaningful. Additionally there is a list of some 45 reports written by independent experts, and they all agree that renewable energy claims are based on numerous fallacies.

Lastly, it is the number of jobs per MWH produced that should be examined. This [study](#) concluded that it took 7± wind energy jobs to produce the same amount of MWH as one fossil fuel worker could. Why is that a good thing?

9 – Relentlessly moving forward, wind marketers then tried to change the focus from jobs to “*economic development*.” The marketers typically utilized a computer program called JEDI to make bold economic projections. Unfortunately, JEDI is a totally inadequate model for accurately arriving at such numbers, for a variety of technical reasons. The economic development contentions have also been shown to be inaccurate, as they never take into account economic losses that result from wind energy implementation – for example [agricultural losses](#) due to bat killings, and job losses due to higher electricity costs for factories, hospitals and numerous other employers.

Additionally, as with jobs, economic development in-and-of-itself has nothing to do with the merits of wind energy as a power source. Let's say we make up a **transportation** RES mandating that *20% of a state's vehicles be replaced by horse power by 2020*. There would be a LOT of “economic development” (making horse carriages and buggy whips, building horse barns, growing and shipping hay) that would result from such an edict. *But would that be any indication that it is an intelligent, beneficial policy?*

10 – Along the way, yet another claim began making the rounds: *that wind energy is low cost*. This is surprisingly bold, considering that if that were really true, RES/RPS mandates would not be necessary. For some reason, all calculations showing wind to be “low cost” conveniently ignore exorbitant subsidies, augmentation costs, power adjusting (see next item), additional transmission costs, and so on. Independent analyses of actual costs (e.g. [here](#)) have concluded that (when ALL applicable wind-related costs are accurately calculated) wind energy is *MUCH* more expensive than any conventional source we have.

11 – A subtle (but significant) difference between wind energy and other conventional sources of electricity is in *power quality*. This term refers to such technical performance factors as voltage transients, voltage variations, waveform distortion (e.g. harmonics), frequency variations, and so forth. The reality is that wind energy introduces many more of these issues than does a conventional power facility. Additional costs are needed to deal with these wind-caused problems. *These are rarely identified in pro-wind economic analyses.*

12 – When confronted with the reality that wind energy is considerably more expensive than any conventional source, a common rejoinder is to object to that by saying that once the “externalities” of conventional sources are taken into account, wind is less expensive than those conventional sources. To gullible sheeple, this might make sense. But consider the following two points.

First, externality analyses posited by wind zealots never take into account the true environmental consequences of wind energy (rare earth impacts [see below], human health effects, bird and bat deaths, the CO2 generated from a two million pound concrete base, etc.).

Second, the “externalities” for things like fossil fuels are always only the *negative* part. If these advocates want a true big picture calculation, then they need to also add in the **benefits** to us from low-cost fossil fuels based electricity. Considering that fossil fuels played a major part in our economic success and improved health and living standards over the past century, such a plus factor would be enormous. [BTW there is some evidence that the negative externalities (e.g. about fossil fuel related asthma claims) are wildly exaggerated. What a surprise!]

13 – Although they would like to avoid it, wind developers almost always have to deal with local communities. Their universal pitch to these “host” communities is that the proposed wind project will be a financial windfall. Their plan is based on the fact that most citizens (and their representatives) are technically challenged, so they will not be aware of the realities of wind energy and their real costs. Since most of the rural communities they target are economically strapped, the developers count on the enticement of a million± dollars a year as enough to swing the deal.

However, if citizens (and their representatives) actually investigate this matter in some detail, they will find that numerous independent experts have concluded that there are multiple possible economic liabilities that are attached to these projects. To simplify this research, we have identified [ten \(10\) different](#)

[matters](#) that could be a financial detriment. Interestingly, when the numbers from both side of the equation are added up (e.g. [here](#)) the NET result is almost always negative.

14 – A key grid ingredient for all of our electric energy sources is *Firm Capacity*. (A layman's translation is that this is an indication of dependability: e.g. can we count on this being available next Monday at 3 PM?) Conventional sources (like nuclear) have a Firm Capacity of nearly 100%. Wind has a Firm Capacity of about 0%. *Big difference!*

15 – Since this enormous Firm Capacity discrepancy is indisputable, wind energy apologists then decided to adopt the strategy that wind energy isn't a "capacity resource" after all, but rather an "energy resource." Surprisingly, this may be the first contention that is actually true! But what does this really mean?

The reality is that saying "wind is an energy source" is a trivial statement, on a par with saying "wind turbines are white." Lightning is also an energy source. So what? The fact is that your cat is an energy source too. In this Alice-in-Wonderland reality, connecting the cat to the grid (after heavily subsidizing it, of course), makes as much sense as does connecting puff power.

16 – Wind marketers then hit on a new tactic: that we should use wind because it is a **plentiful** resource. This is a strategy based on a part truth: that we should be utilizing energy sources that are abundant, reliable, and low-cost. However, there are two major deficiencies in this thinking.

First, abundant sources that are **not** reliable, and that are **not** low-cost (i.e. wind energy), are a **net detriment** to our economy. *Second*, if they are really saying that abundance should be our primary focus, then they should be promoting nuclear power and geothermal energy. Both of these sources have something like a *million times* the available energy that wind does. Additionally, both of those are orders of magnitude more reliable than wind is. Also, both are lower cost when comparing the actual levelized cost of wind energy (e.g. Wind+ Gas).

17 – One of the latest buzz-words is *sustainability*. One has to give these marketers credit for being persistently imaginative. The truth about sustainability is:

1. *It is totally hypocritical to have wind advocates attacking fossil fuels as unsustainable, when the wind business has an ENORMOUS dependency on fossil fuels for their construction, delivery, maintenance and operation. This [article](#) explains some of it.*
2. *Nothing is sustainable, as this [piece](#) accurately explains.*
3. *Wind energy is our LEAST sustainable [option](#)!*

18 – A related pitch is that our adoption of wind energy will help us break "our fossil fuel dependence." Guess what? The reality is that wind actually *guarantees our perpetual dependence on fossil fuels*! In addition to wind turbines' dependence on fossil fuels for manufacture, delivery and maintenance, the only way wind energy can quasi-function on the grid is to have it *continuously* augmented by a fast responding power source – which for a variety of technical and economic reasons is usually gas.

It's rather amusing that the same environmental organizations that support wind energy are also against shale gas. That's like saying that you love Italian food but hate tomato sauce. *The two are paired together like Fred Astaire and Ginger Rogers.*

Realizing that their best defense is a good offense, some of these hucksters are now [contending](#) the inverse: *that wind actually augments gas!* So wind that unpredictably generates electricity 25±% of the time is "augmenting" gas, which is reliably supplying the 75±%! This immediately brings to mind the British army band playing "The World Turned Upside Down."

19 – The claim that wind energy is "green" or "environmentally friendly" is laugh-out-loud hilarious – except for the fact that the reality is not funny at all. Consider just one part of a turbine, the generator, which uses considerable [rare earth elements](#) (2000± pounds per MW).

The mining and processing of these metals has [horrific](#) environmental consequences that are unacknowledged and ignored by the wind industry and its environmental surrogates. For instance, just the rare earths of a typical 100 MW wind project would generate approximately:

1. *20,000 square meters of destroyed vegetation,*
2. *2 million pounds of CO₂,*
3. *6 million cubic meters of toxic air pollution,*
4. *29 million gallons of poisoned water,*
5. *600 million pounds of highly contaminated tailing sands, and*

6. 280,000 pounds of **radioactive waste**. (See [this](#), and [this](#), and [this](#).)

20 – Modern civilization is based on our ability to produce electrical POWER. Our modern sense of power is inextricably related to *controlled performance expectations*: when we turn the knob, we expect the stove to go on 100% of the time – *not just on those wildly intermittent occasions when the wind is blowing within a certain speed range*.

Underlying a lot of the wind lobbyists' claims is a carefully crafted, implied message that there is some kind of wind energy "equivalency" to conventional sources. This assumption is the basis for such assertions that XYZ wind project will power 1,000 homes. Such claims are totally false. They are dishonest from several perspectives: the most obvious error being that XYZ wind project will NEVER provide power to any 1000 homes **24/7**. It might not provide power for even **one** home 24/7/365!

Yet we see this same "equivalency" message conveyed even more subtly on EIA tables for leveled costs. Wind and conventional sources should *not* be on the same table, but they have been (defended only by a small footnote). One useful analogy is to consider the cost, speed, reliability and load capacity of a single eighteen-wheeler truck in making daily interstate deliveries of furniture, heavy equipment or other large products. This semi-truck is equivalent to a nuclear plant.

In energy generation terms, the wind turbine equivalent is to attempt to replace the single truck with golf carts. How many golf carts would it take to equal the cost, speed, reliability and load capacity of a single eighteen-wheeler in making daily interstate deliveries? This is a trick question, as the answer is that there is **no** number that would work: not ten, not a hundred, not ten thousand, not a million. Exactly the same situation exists in the electricity sector: *no number of turbines will ever equal the cost, reliability and output of one conventional electricity plant*.

21 – A close cousin of the prior illegitimate contention is that "The wind is always blowing somewhere, so spreading wind projects out will result in a combination that has a dependable output." Like essentially all the wind industry mis-infomercials do, this bald assertion has a soothing, reassuring ring. However this marketing claim is unsupported by any empirical, real-world evidence. For instance, in southeastern Australia about 20 wind [projects](#) are spread out over a single 1000± mile long grid. Yet the combined [result](#) in no way even approximates the consistent dependable performance of our primary conventional sources.

Again, our modern society is based on abundant, reliable, affordable electric **power**. All these specious claims for wind energy are simply part of a long line of snake oil sales spiels – intended to fool the public, and to enable politicians to justify favoring special interests by enriching various rent-seekers (which will then return the favor *via* campaign contributions and other reelection support).

They get away with this scam primarily for three basic reasons.

1 – *Wind proponents are not asked to independently PROVE the merits of their claims before (or after) their product is forced on the public.*

2 – *There is no penalty for making bogus assertions or dishonest claims about their product's "benefits," so each successive contention is more grandiose than the last.*

3 – *Promoting wind is a political agenda that is divorced from real science. A true scientific assessment is a comprehensive, objective evaluation with transparent real world data – not on carefully massaged computer models and slick advertising campaigns, which are the mainstay of anti-science evangelists promoting political agendas.*

So, in effect, we have come around full circle. A hundred-plus years ago, wind energy was recognized as an antiquated, unreliable and expensive source of energy – and now, after hundreds of billions of wasted tax and consumer dollars, we find that (surprise!) it still is an antiquated, unreliable and expensive source of energy. This is what happens when science is relegated to a back-of-the-bus status.

Paraphrasing Dr. Jon Boone:

Let's see the real world evidence for the lobbyists' wind energy case. I'm weary of these relentless projections, uncontaminated as they are by reality. In a nutshell, what these profiteers are seeking to do, through methodological legerdemain, is to make wind appear to be what it is not. This is a plot lifted out of Cinderella and her step-sisters, or the Emperor's New Clothes. It's really a story of class aspirations, but one that is bizarrely twisted: giving wind a makeover to make her seem fetching and comely when in fact she's really a frog.

When you hear that wind opposition is all about NIMBYs, think about the above points, and then reflect on what NIMBY really means: *The Next Idiot Might Be You*.

But consider the sources. When a major turbine manufacturer calls a catastrophic failure like a blade

falling off [component liberation](#), we know we are in for an adventurous ride in a theme park divorced from reality.

See [WiseEnergy.org](#) and [EnergyPresentation.Info](#) for more detailed explanations, including charts, photographs, entertaining graphics, and numerous references.

[Editor note: This post updates the most read piece in the history of MasterResource. Last updated in 2012, the post's previous iterations were "[Wind Spin: Misdirection and Fluff by a Taxpayer-enabled Industry](#)," which was itself an update of "[Fifteen Bad Things About Wind Energy, and Three Reasons Why](#)."]]

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Summary: Public Comment of Suzanne Albright, Great Lakes Wind Truth, via website,
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