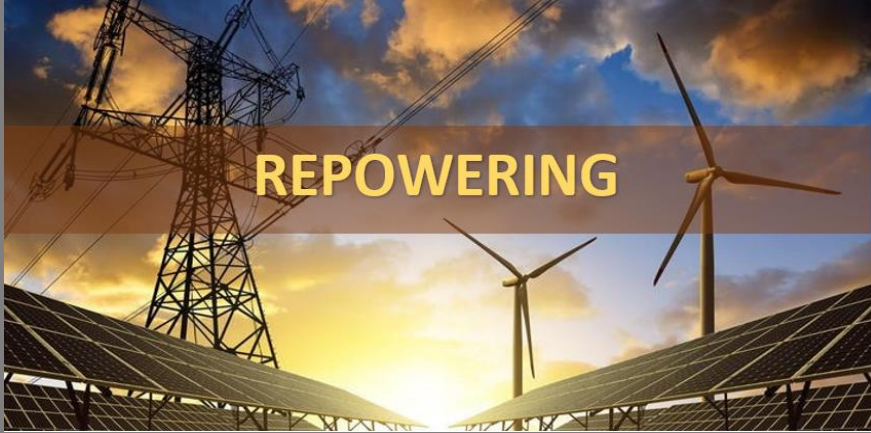


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**What is Repowering?
What Role does it Play?
Why Should we Care?**



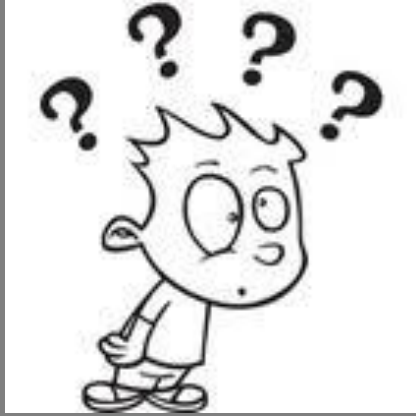


For wind energy, repowering is basically the act of giving a “facelift” to a wind farm.

Renewable Energy may be “Free” but it’s not Immune to Aging



Unlike solar, wind power generation requires moving parts. And as moving parts age, a wind farm’s efficiency and power production declines.



You don't have to be a rocket scientist to figure out the benefits of refurbishing an existing wind farm versus building new.

Why refurbish versus building new?

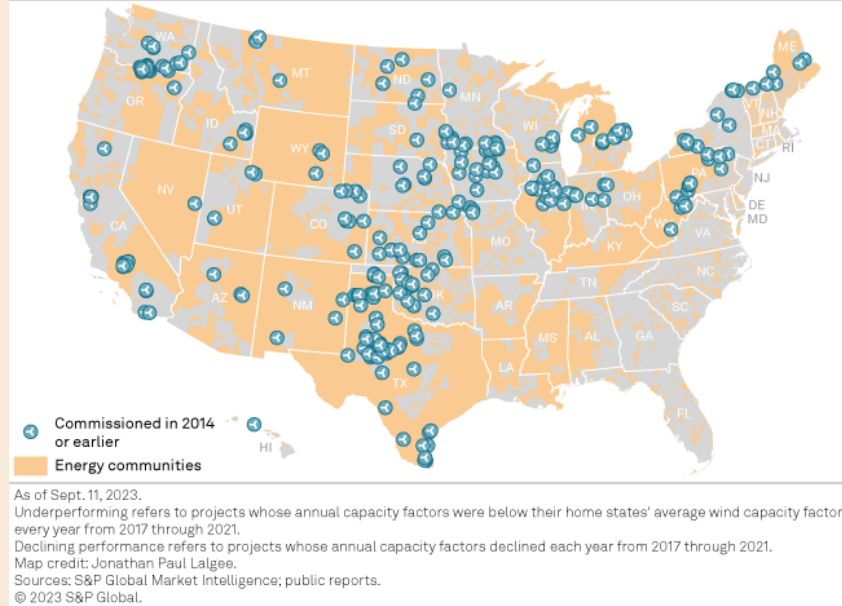


- Replacing equipment 12 years old or older with new technology, coupled with replacing aging materials can boost a wind farm's output by 10% to 20%
- Repowering also costs a lot less than building new – as much as 50- 80% less
- As important, grid-interconnection issues are eliminated



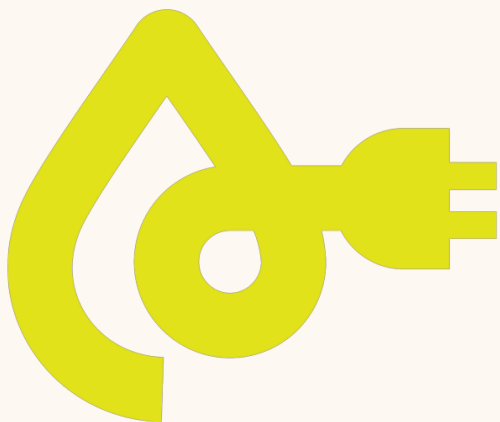
OK it's cheaper and easier for the developer, but why should we care?

Identified potential wind repowering projects



Rising costs, supply chain issues, higher interest rates, and interconnection issues have caused a decline in wind installation over the last few years.

- According to Enversus Intelligence Research, repowering could add 6.5 to 7.5 gigawatts of energy in 2024.
- That would equal the record set in 2019 – but with one big difference.
- In 2019 repowering was driven by a handful of large projects. Today, it appears to be a broader trend.



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- An honest assessment of the climate change effort.
- I cover what's working – but more important - the issues/roadblocks that the industry would prefer to ignore.
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