



Supporting Wind Energy Innovation

H.R. 3609, 116th Congress

Sponsors: Reps. Paul Tonko (D-NY), Don Bacon (R-NE), Joe Kennedy (D-MA), Jeff Fortenberry (R-NE)

"As we look for ways to lower energy costs and protect our environment, wind power is helping us build a cleaner economy and a brighter future for all Americans."

❖ Paul Tonko

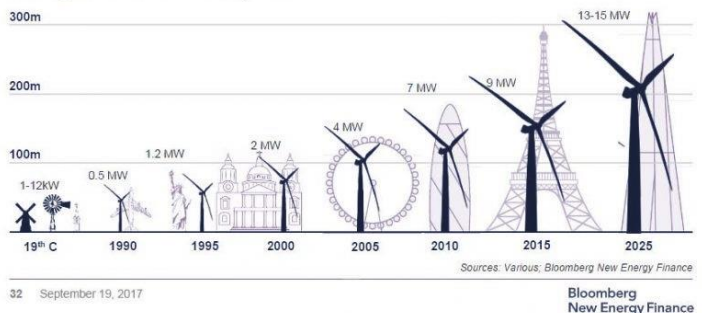
Wind energy is picking up!

- Wind energy today delivers 6.6% of all U.S. utility-scale power generation and according to the U.S. DOE, could provide 35% of America's electricity needs by 2050
- Wind power reduces air pollution and water consumption and grows the U.S. economy:
 - Wind energy generation supports:
 - more than **114,000 U.S. jobs today**, est. **375,000 U.S. jobs by 2030**
 - more than **500 domestic manufacturing facilities**
 - more than **\$1 billion revenue each year** for states, communities & landowners
 - 'Wind turbine technician' is the 2nd fastest growing job in the U.S. today

Federal support drives progress

- Federal support for wind energy R&D has fostered innovation. According to NRDC:
 - Since 2008, the average price of wind energy has dropped by 75%.
 - From 1999 to 2016, the height of wind turbines in the U.S. increased by 49% and the blade length grew by 127%, enabling more efficient wind energy generation.
- More breakthroughs are needed to drive further cost reductions and achieve future deployment targets.
- Offshore, distributed, and other emerging wind energy technologies need investments in RD&D.

Evolution of wind turbine heights and output



Congress Needs to Act!

Supporting wind power research will accelerate innovative technologies, educate local communities, create more jobs, and increase economic activity in rural communities.

The Wind Energy Research and Development Act of 2019

- Authorizes DOE's Office of Wind Energy for five years and directs the Secretary of Energy to:
 - Improve the energy efficiency, reliability & capacity of wind energy generation
 - Reduce cost of permitting, construction, operation & maintenance of wind energy systems
 - Conduct a wind energy technology validation and market transformation program
 - Reduce barriers to widespread adoption of wind power including grid integration, permitting issues tied to potential impacts on wildlife, radar systems, and airspace
 - Develop new wildlife impact mitigation technologies

Connect with Representative Tonko on Facebook, Twitter, and Instagram: @RepPaulTonko