

Distributed Wind Deployment: Net-Zero Homeowner



The project owner sought to become a net-zero home and business-owner to reach his goal of energy independence. The photo shows his 25 kW Eocycle wind turbine and 30 kW solar array in York, PA. *Photo courtesy of Eocycle*

In Their Words

As an experienced installer, why do you think this installation will be successful?

“We balanced all of the necessary aspects for this project to help the host achieve a net zero electric bill. By focusing our efforts into qualifying the site, correctly determining a proper tower height, and choosing a turbine model with enough capacity, the wind turbine should offset the homeowner’s remaining grid-purchased electricity (net of his existing 30kW solar array).”

- Roger Dixon, Project Installer and member of the DOE Distributed Wind Installer’s Collaborative

Project description: The owner had a 25-kilowatt Eocycle wind turbine installed on a 140-foot tower, which separates the turbine from treetops and other potential barriers to consistent winds.

Year of installation: 2018

Type of customer: High energy-use homeowner, motivated by personal values and the desire for a net-zero energy home (meaning renewable energy is generating enough to cover all electricity, heating, and cooling needs).

Utility: Edison Company (Met-Ed) is part of FirstEnergy, which is one of the nation's largest investor-owned utilities.



Installer Roger Dixon of Skyland Renewables climbs the Eocycle tower during turbine construction at a York, Pennsylvania residence. *Photo courtesy of Eocycle*