

PPL Renewable Energy | Frey Farm Wind

PPL Renewable Energy designed, built and operates a 3.2-megawatt wind power project at the Frey Farm Landfill in Lancaster County, Pa, which is owned by the Lancaster County Solid Waste Management Authority.

The power generated by the two wind turbines is purchased by the adjacent Turkey Hill Dairy, maker of high-quality ice cream, milk and tea products. The wind project generates about 25 percent of Turkey Hill's electricity needs, enough power to produce 6 million gallons of ice cream or power 700 homes each year. PPL also provides the dairy with steam, which is a byproduct of the power generation process from a 3.2-megawatt landfill-gas-to-energy plant. Turkey Hill's support of green energy makes projects like this possible.

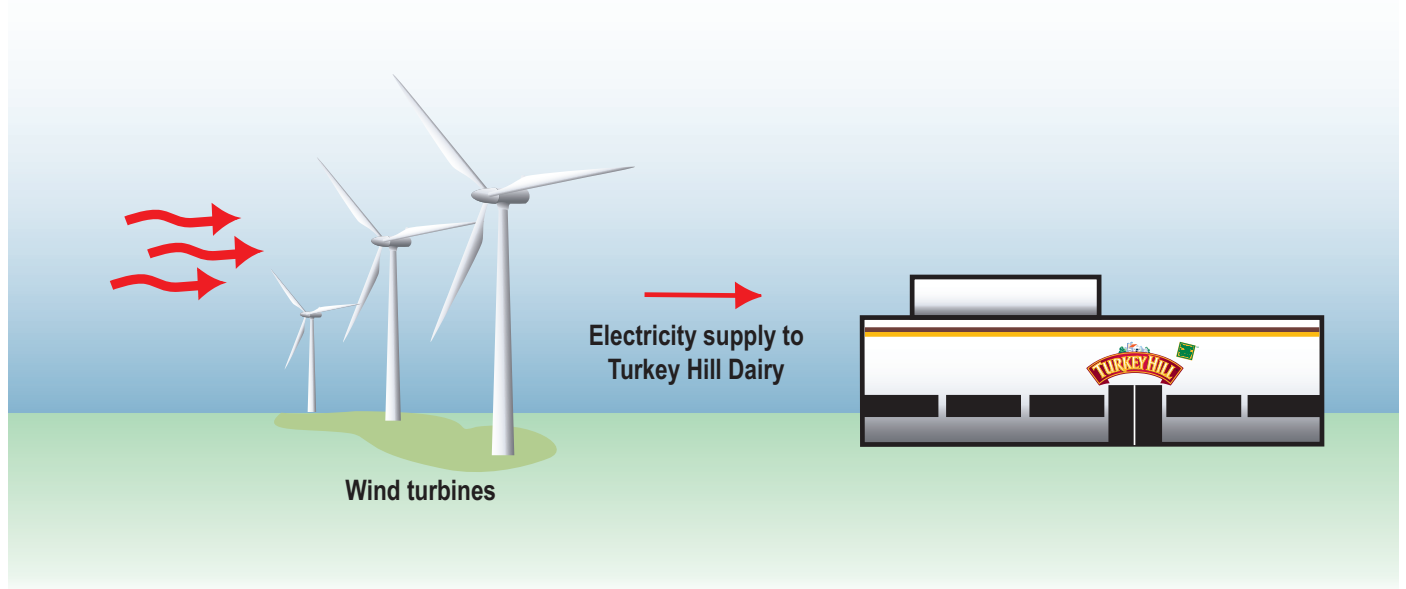
The project consists of two General Electric wind turbines that stand 262 feet high. Each turbine's three blades are 131 feet in length.

Generating the same amount of electricity with fossil fuels would produce about 5,900 tons per year of greenhouse gases. The reduction of greenhouse gas emissions is equivalent to any one of these annual environmental benefits:

- Removing 1,000 cars from the road.
- Not consuming 600,000 gallons of gasoline.
- Reducing the import of 12,000 barrels of oil.



Location:	Manor Township, Pa.
Operational:	January 2011
Equipment:	Two 1.6 MW GE wind turbines
Capacity:	3.2 MW
Input:	Wind
Output:	Supplies 25% of Turkey Hill's annual electric needs



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