

PPL Renewable Energy | Greater Lebanon Refuse Authority

PPL Renewable Energy designed, constructed, owns and operates a 3.2 megawatt landfill gas-to-energy plant at the Greater Lebanon Refuse Authority (GLRA) Landfill in Lebanon County, Pa.

PPL uses the methane gas from the landfill to fuel its two Caterpillar engine generators. The engines will produce approximately 25.2 million kilowatt-hours per year, enough electricity to power approximately 2,400 homes in Lebanon County.

In addition, PPL and GLRA received “Community Partner of the Year Award” from the U.S. Environmental Protection Agency’s 2007 Landfill Methane Outreach Program for the project’s innovative educational center.

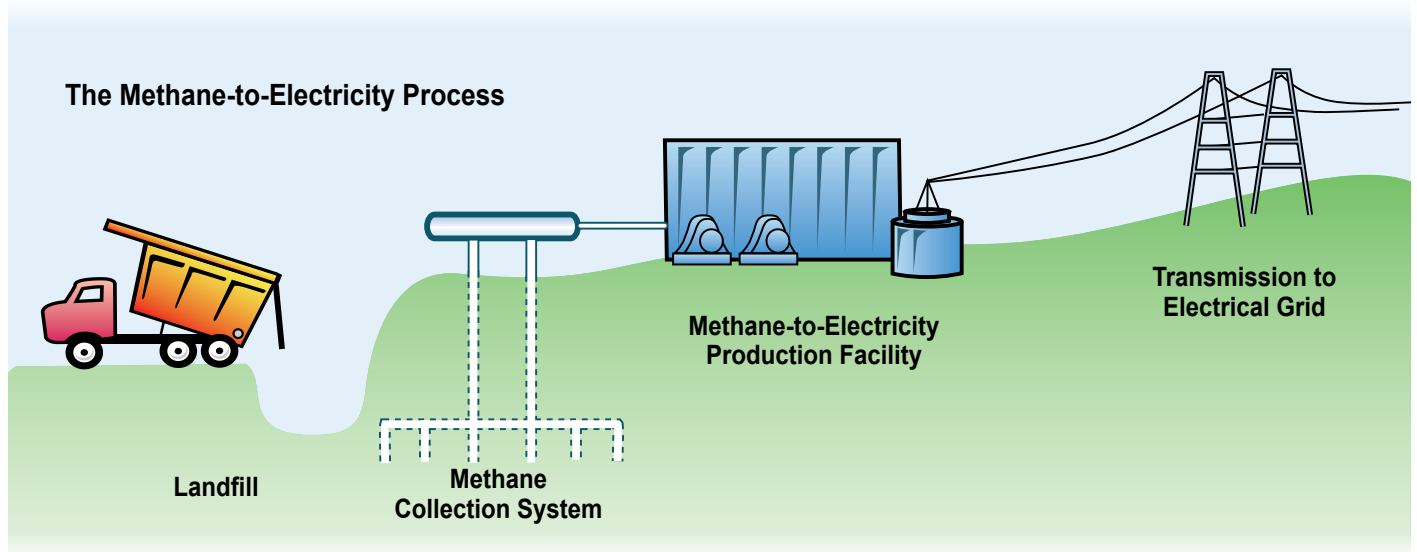
This landfill gas-to-energy plant reduces annual greenhouse gas emissions by 39.6 million pounds of carbon dioxide by avoiding the use of fossil fuels.

The reduction of greenhouse gas emissions is equivalent to any one of these annual environmental benefits:

- Removing 3,300 cars from the road.
- Not consuming 2.0 million gallons of gasoline.
- Reducing the import of 42,000 barrels of oil.
- Not using 750,000 propane cylinders for home barbecues.



Location:	Lebanon, Pa.
Operational:	September 2007
Equipment:	Two Caterpillar 3520 (1.6 MW) engines
Capacity:	3.2 MW
Input:	Landfill methane gas
Output:	Around the clock, base load is sold to PJM



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