

PPL Renewable Energy | **Cumberland County Landfill**

PPL Renewable Energy designed, constructed, owns and operates a 6.4-megawatt landfill gas-to-energy plant at the Cumberland County Landfill in Cumberland County, Pa.

PPL uses methane gas from the landfill to fuel its generators. The engines will produce approximately 50.4 million kilowatt-hours per year, enough electricity to power approximately 4,800 homes.

This landfill gas-to-energy plant will reduce annual greenhouse gas emissions by 79 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:

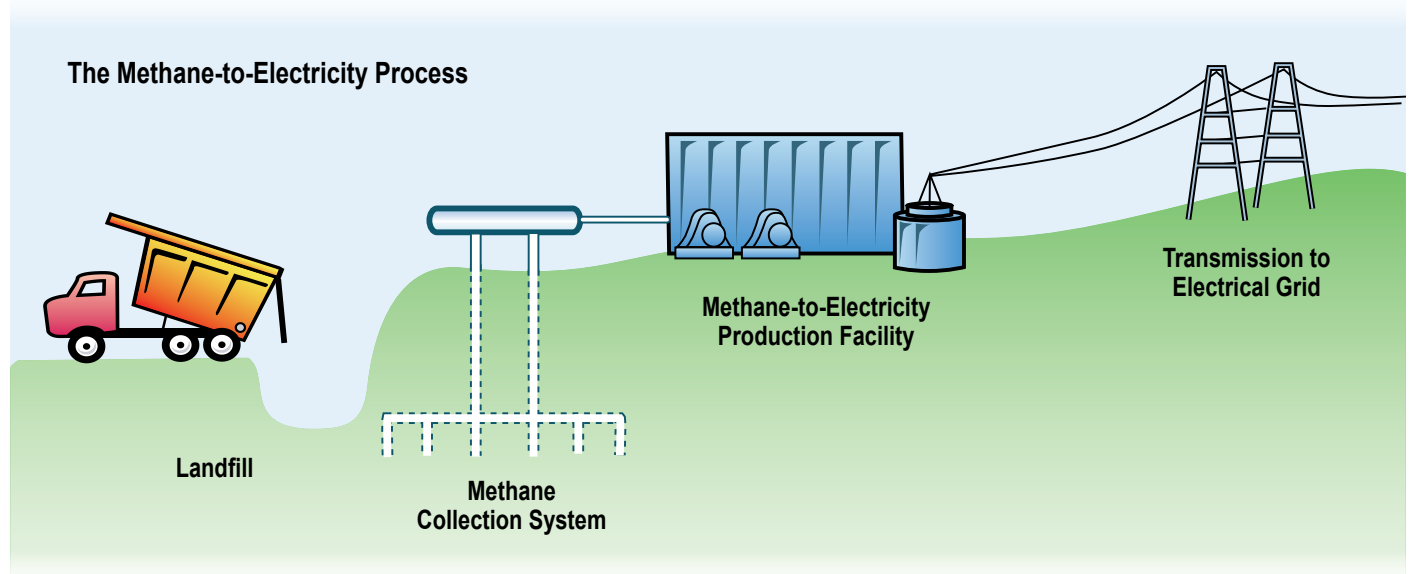
- Removing 6,600 cars from the road.
- Not consuming 4.0 million gallons of gasoline.
- Reducing the import of 83,500 barrels of oil.
- Not using 1.5 million propane cylinders for home barbecues.

Adams Electric Cooperative participated in this project by designing and assisting in the construction of over six miles of electric line to transmit the renewable energy to the local utility grid.



Location:	Shippensburg, Pa.
Operational:	February 2009
Equipment:	Four Caterpillar 3520 (1.6 MW) engines
Capacity:	6.4 MW
Input:	Landfill methane gas
Output:	Around the clock, base load power

The Methane-to-Electricity Process



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