

# PPL Renewable Energy | Moretown Landfill

PPL Renewable Energy designed, constructed, owns and operates a 3.2 megawatt landfill gas-to-energy plant at the Moretown Landfill in Washington County, Vermont. PPL partnered with Interstate Waste Services, which provides the landfill gas and land for the project.

PPL uses methane gas that is collected every day to fuel its two Caterpillar engine generators. The engines produce approximately 25.2 million kilowatt-hours per year, enough electricity to power approximately 2,400 homes.

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.

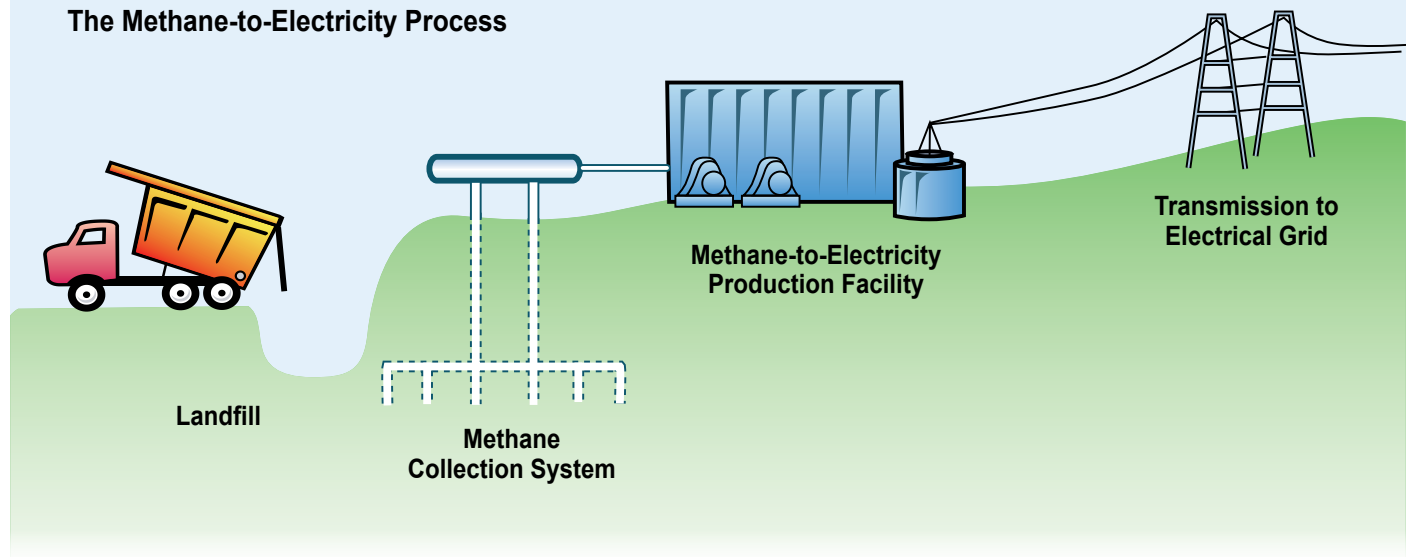
The reduction of greenhouse gas emissions is equivalent to any one of these annual environmental benefits:

- 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.



<b>Location:</b>	<b>Moretown, Vt.</b>
<b>Operational:</b>	<b>December 2008</b>
<b>Equipment:</b>	<b>Two Caterpillar 3520 (1.6 MW) engines</b>
<b>Capacity:</b>	<b>3.2 MW</b>
<b>Input:</b>	<b>Landfill methane gas</b>
<b>Output:</b>	<b>Around the clock, base load power</b>

## The Methane-to-Electricity Process



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