

PPL Renewable Energy | Northern Tier Landfill

PPL Renewable Energy designed, constructed, owns and operates a 1.6-megawatt landfill gas-to-energy plant at the Northern Tier Landfill in Bradford County, Pennsylvania.

PPL uses methane gas from the landfill to fuel its engine generator. The engine produces approximately 12.6 million kilowatt-hours per year, enough electricity to power approximately 1,200 homes.

The facility provides hot water, which is a byproduct of the process, to the Northern Tier Hydroponic Greenhouse. The greenhouse uses the hot water to create a controlled agricultural environment to produce crops year-round.

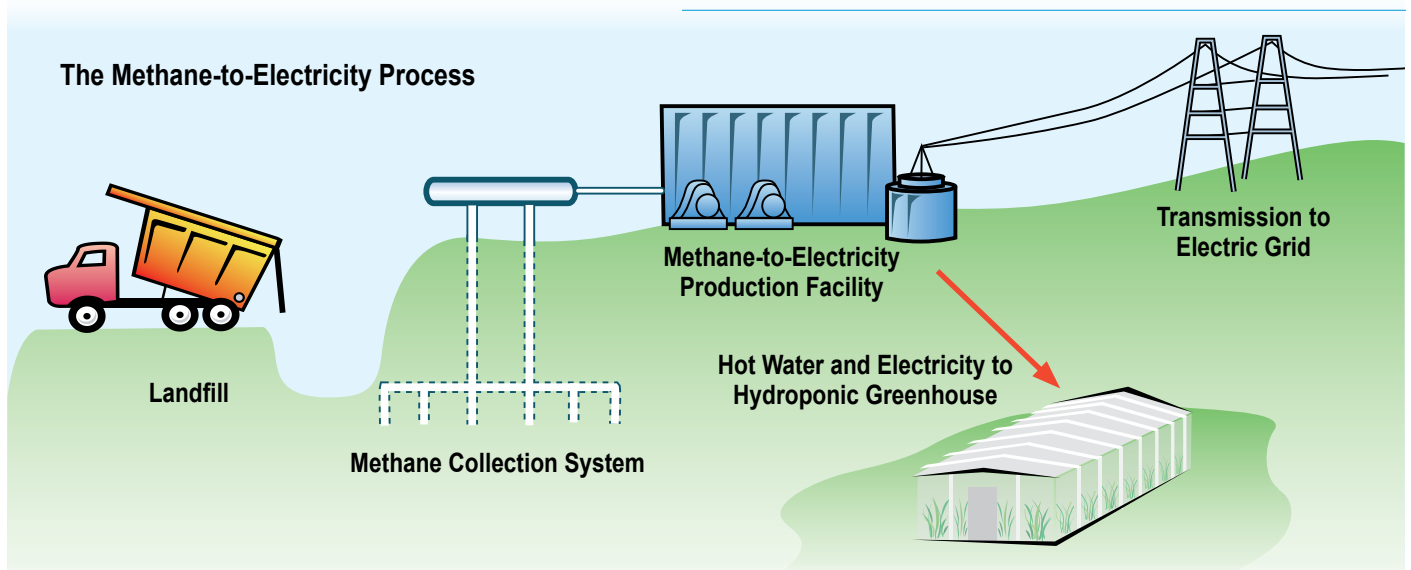
This landfill gas-to-energy plant reduces annual greenhouse gas emissions by 19.8 million pounds of carbon dioxide by avoiding the use of fossil fuels.

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

- Removing 1,600 cars from the road.
- Not consuming 1 million gallons of gasoline.
- Reducing the import of 21,000 barrels of oil.
- Not using 374,000 propane cylinders for home barbecues.



Location:	Burlington, Pa.
Operational:	January 2009
Equipment:	Caterpillar 3520 engine
Capacity:	1.6 MW
Input:	Landfill methane gas
Output:	Around-the-clock base load power, heat for landfill boiler and hot water for hydroponic greenhouse



PPL Renewable Energy
Two North Ninth Street
Allentown, PA 18101-1179
Tel. 610-774-6866
www.pplrenewableenergy.com

