

PPL Energy Services | Bradford County Landfill

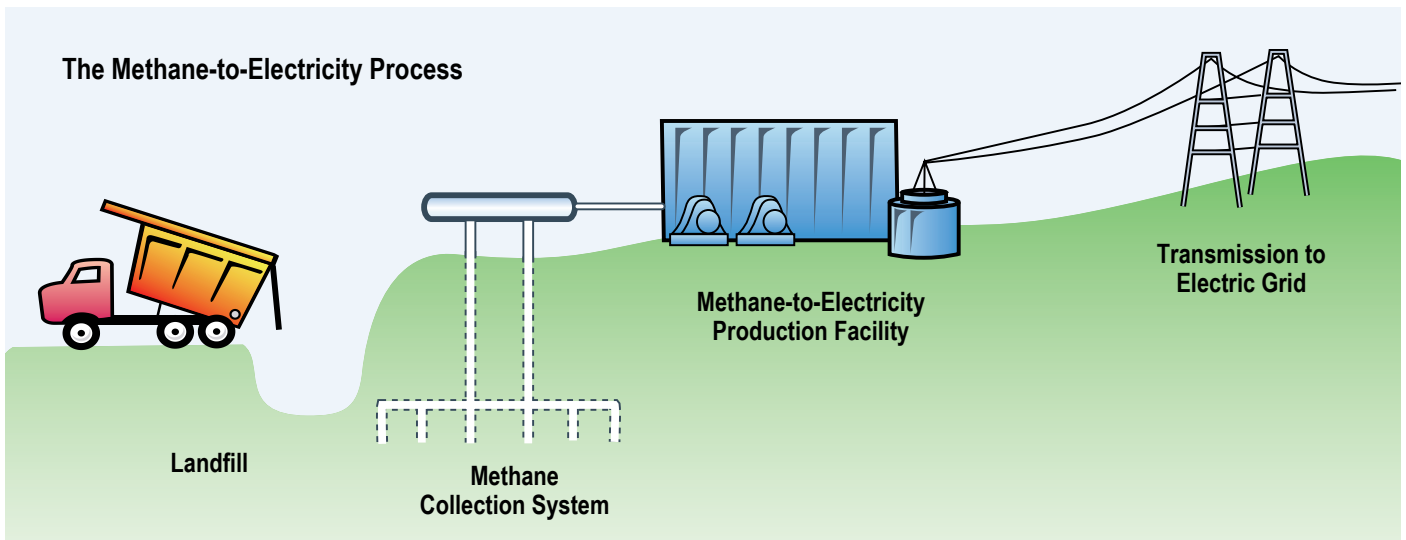
PPL Energy Services designed and constructed an 800-kilowatt methane-to-electricity power generation system for the Northern Tier Solid Waste Authority at its Bradford County Landfill in Pennsylvania.

The double-lined, sanitary landfill in West Burlington Township uses the 600,000 cubic feet of methane gas flared off every day at the 128-acre facility to power a Caterpillar generator. That enables the landfill to sell electricity on the open market and use the heat from the generator to help decompose organic waste — economical and environmentally conscious uses of the free fuel.

With the installation of this system, Northern Tier is able to reduce greenhouse gas emissions and mitigate its harmful effects upon the community. Because of this innovative and responsible process, methane becomes a valuable and safe source of renewable energy.



Operational:	March 2002
Equipment:	Caterpillar 3516 diesel engine
Capacity:	800 kilowatts
Input:	600,000 cubic feet of landfill gas per day
Output:	Power sold into PJM grid Heat used for boiler



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