

Project Highlights

- Operational in 2013
- The capital cost of the project is \$3.4 million, and will provide power for 600 homes.
- This project produces electricity without greenhouse gas emissions, by utilizing pressure energy and heat energy that would otherwise go un-used.
- For every kilowatt-hour of electricity produced, 620 grams of greenhouse gas emissions into our atmosphere will be avoided.



Additional information is available on the
City of Saskatoon website at
www.saskatoon.ca
(Click 'T' for 'Turboexpander')

Graphic design and research by the
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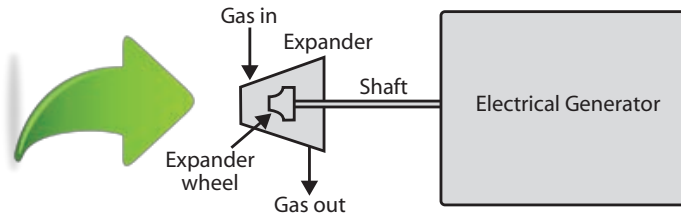
Turboexpander Project at Saskatoon's Green Energy Park



Frequently Asked Questions

What is a turboexpander? What does it do?

A turbine that expands gas from a high pressure to a lower pressure, and produces mechanical energy to spin a shaft. In this case, the shaft spins a generator to produce electricity.



Why build this in Saskatoon?

Natural gas is delivered to homes throughout Saskatchewan through pipelines under pressure. The pressure is lowered at Town Border Stations, to safely deliver gas to homes within communities.



How does it help our environment? How much power does it produce?

No gas is combusted in this process, and the turboexpander produces electricity without any greenhouse gas emissions. This project will produce enough power for 600 homes.



Where is it located?

The turboexpander will be built at SaskEnergy's Town Border Station beside the landfill, and also uses heat by-product from the landfill gas powered engines in the process.



Why is this project important to Saskatoon?

Non-renewable fossil fuels like coal and natural gas are used to generate over 70% of the electricity in Saskatchewan. This project will generate electricity without using any fuels, by capturing energy that would otherwise go unused.



Will this reduce greenhouse gas emissions?

Over 3,600 tonnes of greenhouse gas emissions will be avoided each year. That's like removing over 700 vehicles from our roadways.



What about the economics?

This project will generate a profit, because no fuel is required to be purchased to generate the electricity.