



## CORY

Saskatoon, Saskatchewan, Canada

SASKATCHEWAN

The Cory Cogeneration Plant is a 260 megawatt natural gas-fired cogeneration power plant at the Potash Corporation of Saskatchewan Inc.'s (PCS) Cory Mine outside Saskatoon. ATCO Power Ltd. and SaskPower International Inc. partnered on the plant that features leading-edge technology and operates in a highly efficient cogeneration mode, but also has the ability to operate in combined-cycle mode only.

All electricity produced is sold to SaskPower Corporation under a long-term power purchase agreement.

### Environmental Highlights

This versatile design enables the plant to generate electricity efficiently, minimizing the effects on the environment. It consists of two natural gas-fuelled combustion turbines and generators, both of which are equipped with low nitrous oxide (NOx) combustors to minimize emissions.

# 260<sub>MW</sub> Natural Gas Fired Cogeneration

### EQUIPMENT

- Two GE PG 7121EA Gas turbines (85 megawatts)
- Two heat recovery steam generators (140 tonnes/hour)
- One GE steam turbine (90 megawatts)

### HIGHLIGHTS

- Natural gas fuel interconnection to TransGas system
- Water supply pipeline interconnection to SaskWater system
- Connection to the Saskatchewan transmission grid

### COMMERCIAL OPERATION

- 2003

### OWNERSHIP

- ATCO Power – 50%
- SaskPower – 50%

### COGENERATION PLANTS

*Cogeneration is a highly efficient and environmentally attractive means of generating heat and electric power at the same time. Cogeneration is achieved when a generating plant is constructed in conjunction with an industrial facility that has needs for both the power and heat energy that is produced.*

### BENEFITS

- Low pressure steam is provided to the facility after it is used for power generation
- Some facilities consume high pressure steam from the cogen, while other supply surplus high pressure steam where it's used to generate power instead of being vented
- Facility waste gases generate power rather than being burnt in flare stacks
- Power is provided to the facility to avoid transmission losses
- Sharing process products such as cooling water, compressed air, water treatment and feed water improve efficiency and costs

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