



90^{MW} Natural Gas Fired Open Cycle

EQUIPMENT

- Two GE LM6000 gas turbine and generator packages
- One GE water treatment plant to produce high quality demineralized water for NOx emissions reduction
- One waste water treatment plant used to remove sludge from the effluent from demineralized water plant

HIGHLIGHTS

- Long-term contract with the Transmission Administrator to provide transmission system support services

COMMERCIAL OPERATION

- Valleyview 1 – 2001
- Valleyview 2 – 2008

OWNERSHIP

- ATCO Power – 100%

ATCO Power uses open-cycle gas turbine power generation to help maintain the integrity of the Alberta power grid. These power plants are essential to the security of power supply to northern and remote communities.

BENEFITS

- They can be brought on-line when generation or transmission system problems threaten supply
- They can be started and brought to full load within minutes, making them ideal to meet peak load demands

VALLEYVIEW

Valleyview, Alberta

ALBERTA

The ValleyView Generating Plant is a 90 megawatt natural gas-fired plant providing system stability benefits for the ValleyView area, 100 kilometers east of Grande Prairie.

The Valleyview 1 unit includes a clutch which allows it to operate as a synchronous condenser. This allows the unit's generator to be disconnected from the turbine to provide voltage support to the grid when needed. When the grid needs additional generating capacity the turbine can be quickly reconnected to the generator without disconnecting the generator from the grid.

The ValleyView 2 unit was added in 2008, doubling the capacity to 90 megawatts and provides a quick starting capacity to support Alberta's growing electricity requirements.

Environmental Highlights

This environmentally progressive station consists of two General Electric aero-derivative natural gas turbine generators equipped with low nitrous oxide (NOx) combustors to minimize emissions.

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