



VALLEYVIEW 1 AND 2 GENERATING PLANTS

Alberta, Canada

Capacity

- 90 megawatts

Equipment

- Two GE LM 6000 gas turbine and generator packages
- One GE water treatment plant to produce high quality demineralized water for NOx emission 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

Commissioned

- Valleyview 1, 2001
- Valleyview 2, 2008

Ownership

- ATCO Power – 100%

This natural gas-fired plant provides system stability benefits for the Valleyview area, 100 kilometres east of Grande Prairie, and also is an important addition of capacity to meet Alberta's growing power requirements.

The power plant consists of two General Electric aero-derivative natural gas turbine generators, similar to those in place at ATCO Power's plants in Poplar Hill and Rainbow Lake. The station is an environmentally progressive, low nitrous oxide (NOx) plant.

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.

ATCO Power added a second LM6000 generating unit at the Valleyview facility in 2008, doubling the capacity to 90MW. This new unit provides additional quick starting capacity to support Alberta's growing requirements.



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