



## Calgary Airport

- **FUEL TYPE** Natural Gas
- **APPLICATION** Airport
- **KW PRODUCTION** 4 x 380 kW
- **LOCATION** Calgary, Alberta, Canada



### About This Project

An ambitious overhaul of one of Canada's key air transport hubs is featuring four 2G natural gas-fired CHP cogeneration modules, each producing up to 355 kW/h of continuous electricity and up to 475 kW each of thermal energy at more than 88% efficiency. The project, which is the single largest expansion ever undertaken at the airport, is incorporating sustainable design principles into a new International concourse, balancing the goals of creating more space, reducing energy consumption and minimizing environmental impact. Preliminary construction activities began in 2011 and the new terminal is scheduled to open in October 2015.

Its five levels will provide 183,500 m<sup>2</sup> of space to host Canadian and U.S. Customs facilities as well as 22 new aircraft gates. A new hotel will connect the new and existing terminals while a newly constructed parallel runway stretching 14,000 ft, will become Canada's longest runway. The plan also includes a new 90-meter-tall control tower. The cost of the entire expansion is expected to be in the range of US\$ 2 - 2.5 billion. Four 2G CHP cogeneration units supplied by 2G are incorporated into the new terminal, to supply electricity and heat. The four 2G patruus 380 high-efficiency cogeneration modules each produce continuously 355 kW/h of electricity and additional thermal energy, which will be delivered to the building in the form of hot water. The modules are complete solutions that include sophisticated CHP controls, heat recovery technology, advanced gas train, sound enclosure with space ventilation and special silencers.

### Additional Details

- **TOTAL ELECTRICAL POWER**  
1500kW
- **MODULE**  
4 x patruus 380
- **CONFIGURATION**  
Inside Building Installation

