Calgary Airport
Calgary, Alberta

Fast Facts:

Unit: (4x) patruus 380

Generating Capacity: 1500 kW

Gas Type: Natural Gas

About the Site:

An ambitious overhaul of one of Canada's key air transport hub, features (4) 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.

The (4) 2G CHP cogeneration units supplied by 2G are incorporated into the new terminal to supply electricity and heat. The (4) 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, including sophisticated CHP controls, heat recovery technology, an advanced gas train, a sound enclosure with space ventilation, and special silencers.

Preliminary construction activities began in 2011, and the new terminal scheduled to open in October 2015. The five levels will provide 183,500 m2 of space to host Canadian and U.S. Customs facilities, and 22 new aircraft gates. A new hotel will connect the new and existing terminals while a newly constructed parallel run way stretching 14,000 ft, to 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.