

Quick Facts

LOCATION: Humboldt, Saskatoon, Canada

INDUSTRY: Aquatic Center

EQUIPMENT: patruus 100

FUEL TYPE: Natural Gas



The City of Humboldt in Saskatoon partnered with SaskPower, the regional utility company, for a demonstration project to test a CHP system at the Humboldt Aquatic Centre. The City of Humboldt Community and Leisure Services Department identified the aquatic center as a good candidate for a CHP system because of the facility's heating and thermal energy needs.

The building has an indoor pool, in-floor heating, a hot tub and space heating, and requires a boiler to run 24 hours a day, 12 months a year to maintain operations. The objective is to significantly reducing the use of that boiler and to increase the facility's energy efficiency.

EQUIPMENT DETAILS



MODULE: patruus 100

TOTAL ELECTRICAL POWER: 100 kW

CONFIGURATION: Inside Building Installation

EXTRAS: Sound Attenuation

The 2G CHP unit has been incorporated into the existing facility to supply electricity and heat. The 2G patruus 100 high-efficiency cogeneration module produces continuously 100 kW/h of electricity (830MW per year) and additional thermal energy, which will be delivered to the building in the form of hot water. The module is a complete solution including sophisticated CHP controls, heat recovery technology, advanced gas train, sound enclosure with space ventilation and special silencers.