

# Humboldt Aquatic Center

## Humboldt, Saskatoon, Canada

**patruus 100**  
Natural Gas

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### Fast Facts:

**Location:** Humboldt, Saskatoon, Canada

**Generating Capacity:** 100 kW

**Configuration:** Inside Building Installation

**Extras:** Sound Attenuation



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### About the Site:

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.

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### Application

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.



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