



# BRIGHTON BEACH COMBINED-CYCLE GENERATION PLANT

Ontario, Canada

## **Capacity**

- 580 megawatts

## **Equipment**

- Two natural gas-fired turbines
- One steam turbine
- Two vertical heat recovery steam generators
- State-of-the-art Control Systems

## **Highlights**

- Low emissions
- High plant efficiency
- Plant is connected to the Ontario grid at the J. Clark Keith substation
- Industry-leading plant reliability

## **Commissioned**

- 2004

## **Ownership**

- ATCO Power – 50%
- Ontario Power Generation – 50%

ATCO Power and Ontario Power Generation Inc. have partnered on a natural gas-fired power plant located on the bank of the Detroit River in the City of Windsor. The plant is a state-of-the-art combined-cycle facility capable of generating 580 megawatts of electricity, which is approximately 3% of Ontario's total requirement for electric power.

This environmentally progressive project consists of two large industrial gas turbines and a single steam turbine, which combine to achieve high efficiency and low emissions in the production of electricity. The combined-cycle process uses the waste heat from the gas turbines to generate steam for the steam turbine, which significantly increases the efficiency of power production.

The electricity produced at the plant is controlled and marketed by Coral Energy Canada Inc., an independent power marketer and a member of the global Shell Trading network. Coral provides natural gas fuel required to operate the plant.

Construction of the facility started in early 2002 and the plant entered commercial service in July 2004.



**ATCO Power**

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