

# Bécancour Cogeneration Plant



The Bécancour Power Plant is a 550 MW cogeneration facility located in Bécancour, Quebec. The facility can supply electricity to Hydro-Québec Distribution to meet electricity demands in the province of Québec and provides an important source of steam for a neighbouring company in the industrial park.

## Facility Highlights

### Configuration:

2 gas turbines x 2 heat recovery steam generators x 1 steam turbine generator.

### Location:

Bécancour Waterfront Industrial Park, Bécancour, QC.

### In-Service Date:

September 2006.

### Capacity:

550 Megawatts (MW)

### Fuel:

Natural gas.

### Environmental Features:

Cogeneration plants have high thermal efficiencies — minimizing fuel consumption and reducing operating costs. Additionally, the gas turbines incorporate Dry Low Nitrogen Oxides (NOx) technology to reduce emissions.

### Owner:

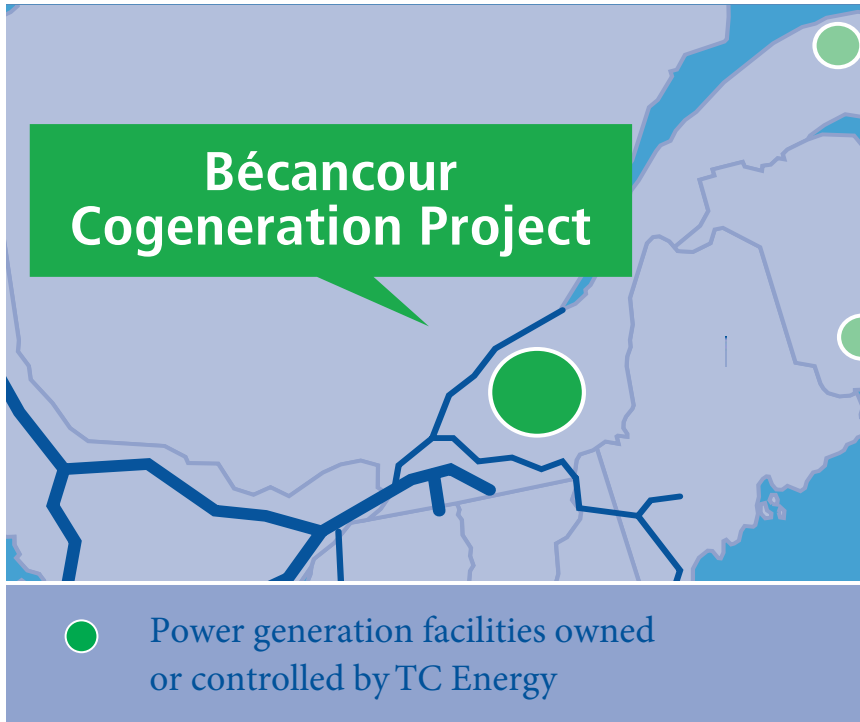
TC Energy

### Operator:

TransCanada Québec Inc.



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## Equipment:

- Two gas turbines with dry low NO<sub>x</sub> burners (combined output: 366 MW)
- Two heat recovery steam generators
- One steam turbine generator (output: 167 MW)
- Evaporative cooling towers

## What is cogeneration?

Cogeneration is the simultaneous production of two forms of useful energy from a single fuel source, often electricity and steam from natural gas.

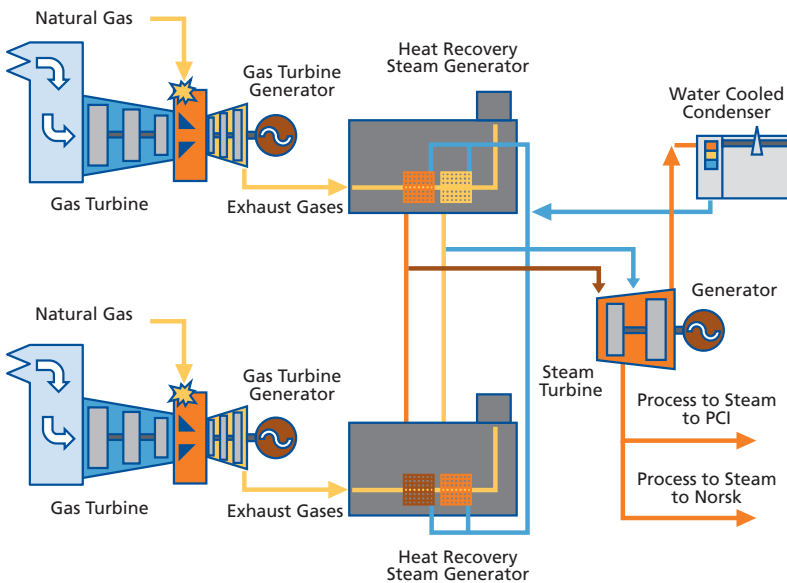
TC Energy designs cogeneration plants with a focus on fuel efficiency. With high thermal efficiencies, cogeneration plants minimize fuel consumption — saving money and reducing emissions.

The Bécancour facility burns natural gas to drive the generators to produce electricity. The hot combustion gases that exhaust from the combustion turbines pass through heat recovery steam generators producing steam.

The steam is used to drive the steam turbine generator, producing additional electricity. A portion of the steam is extracted from the steam turbine and sent to local steam hosts for industrial processes. The electricity generated from the facility is supplied to Hydro-Québec Distribution.

## For further information contact:

**TC Energy**  
 450 First Street S.W.  
 Calgary, AB T2P 5H1  
 1.800.661.3805  
 TCenergy.com



Bécancour Plant Schematic