

Erie Shores Wind Farm

Fact Sheet



About **Erie Shores**

Erie Shores Wind Farm is currently one of the largest wind power facilities in Canada, representing approximately 2.2% of Canada's installed wind capacity. Erie Shores consists of 66 wind turbines manufactured and supplied by General Electric (GE) and General Electric Canada (GE Canada). Each turbine is about as tall as a 25-storey building.

The wind turbines are located along the north shore of Lake Erie between Copenhagen and Clear Creek, Ontario, extending inland approximately two to three kilometres. The energy generated by the turbines is collected and transported on 24 kilometres of 34.5 kilovolts (kV) underground cables and 28 kilometres of 34.5 kV overhead collector lines. The voltage is then increased to 115 kV at the Port Burwell substation and transmitted via a 30-kilometre transmission line to Hydro One's grid, making Erie Shores an important contributor to Ontario's electricity supply infrastructure.

At a Glance

Operating Data

99 net megawatts (MW)
Installed capacity

227,778 megawatt hours (MWh)
Energy production*

23,000
Equivalent number of households

9
Employees

Wind Turbines

66**
Turbines

Manufactured by
General Electric, 1.5 SLE

1.5 MW
Capacity

3.5 metres per second
Cut-in wind speed

25 metres per second
Cut-out wind speed

11.0 – 20.4 rotations per minute
Rotor speed

77 metres
Rotor diameter

80 metres
Hub height

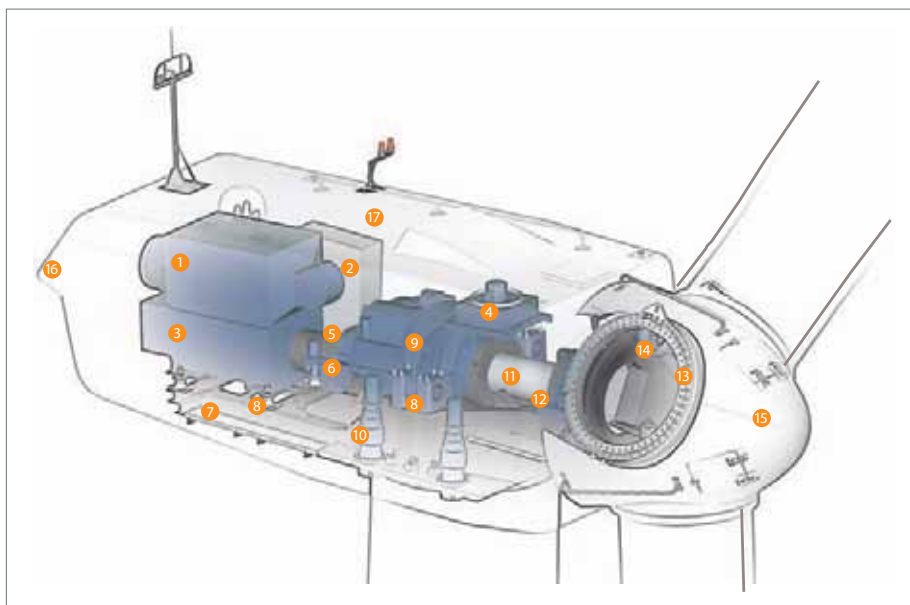
Key Agreements Commercial Operations

Power Purchase Agreement
with the Ontario Power Authority (OPA)
Until 2026

May 2006
Start of Commercial Operations

* In the year ended December 31, 2010
**One turbine is owned by a landowner

How the Wind Turbines Work



Wind is created through the sun's heating of the earth's surface. Wind accumulates energy as it crosses large, uninterrupted corridors called fetches. Wind turbines harvest that kinetic energy and convert it into electricity. The wind turbines at Erie Shores are designed to adapt to all kinds of wind and environmental conditions to reliably operate under differing climatic conditions.

The blades of the turbines begin to turn when the wind reaches approximately three to five metres per second. Additional protection is built into the control system to stop the turbines from spinning if the wind is too strong, posing the risk

of damage to the equipment. This threshold is typically 25 metres per second. The control system can also rotate the blades of the turbine to face the direction of the wind so that the blades are always exposed to the highest velocities of wind.

- 1 Heat exchanger
- 2 Control panel
- 3 Generator
- 4 Oil cooler
- 5 Coupling
- 6 Hydraulic parking brake
- 7 Main frame
- 8 Impact noise insulation
- 9 Gearbox
- 10 Yaw drive
- 11 Rotor shaft
- 12 Bearing housing
- 13 Rotor hub
- 14 Pitch drive
- 15 Nose cone
- 16 Ventilation
- 17 Nacelle

Did You Know?

- Wind farms are designed to last for 25 years and longer, contributing much-needed electricity supply as well as environmental benefits
- Ontario currently has about 1,636 MW* of installed wind power capacity, which represents about 3.6% of Ontario's electricity supply mix
- Wind power developments create new income for land owners and tax revenue for communities

* Canadian Wind Energy Association



Performance

(\$000s unless otherwise noted)	For the year ended	
	2010	2009
Revenue	22,144	22,571
Operating and administrative expenses	(5,410)	(5,526)
Adjusted EBITDA	16,734	17,045
FFO	10,681	10,815
Electricity production (MWh)	227,778	232,309
Capacity factor	26.3%	26.8%
Availability	97.7%	96.3%

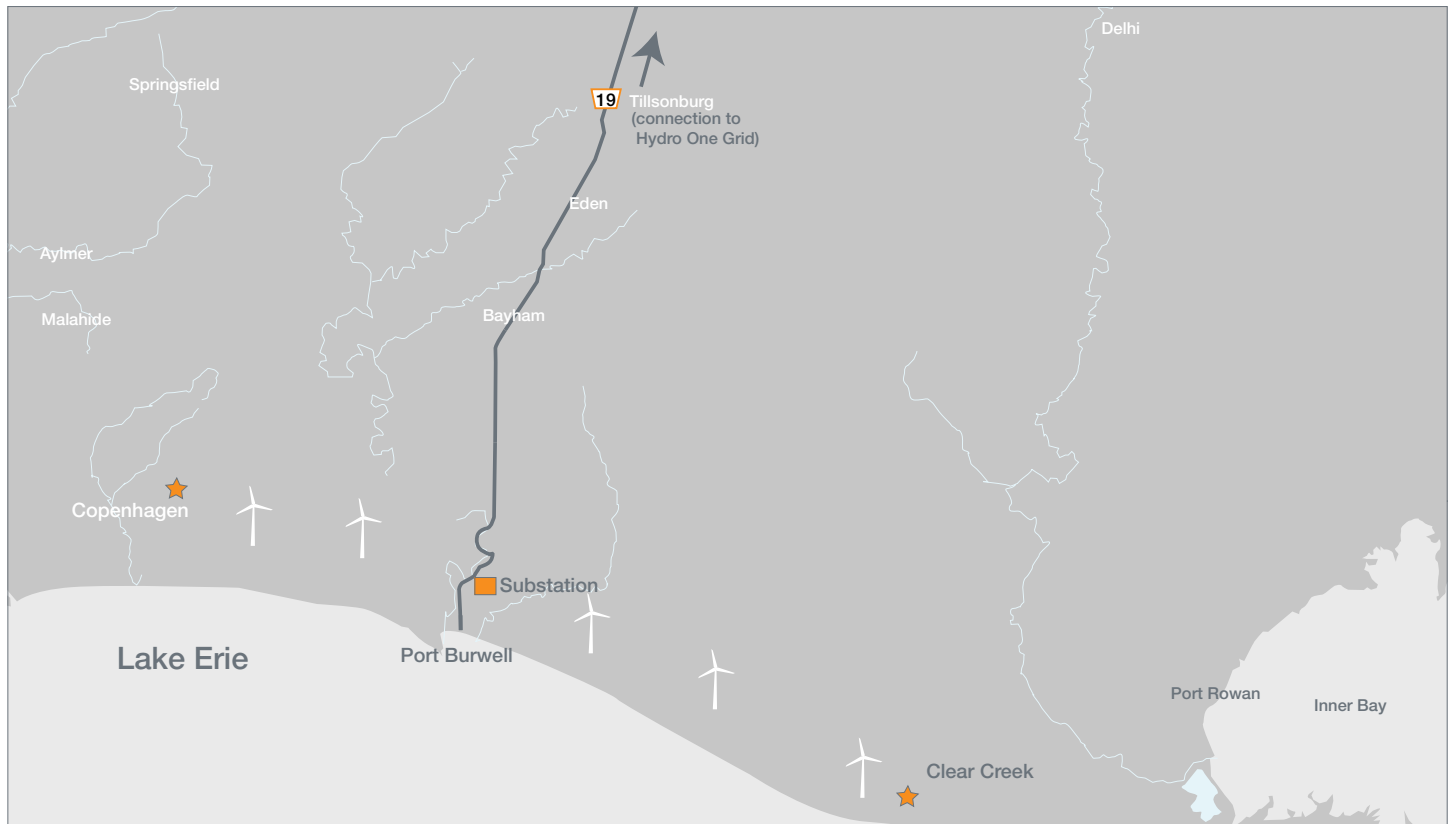
Key Contracts

Power Purchase Agreement

All electricity generated by Erie Shores is sold to the Ontario Power Authority under a long-term contract with a term of 20 years from May 2006. The PPA contains specific fixed rates for each year of operation from the date of commissioning of the facility. Eighty-five per cent of the rate originally awarded on the PPA is fixed for the term of the contract. The remaining 15 percent of the total original rate awarded is adjusted annually every January 1 for inflation.

Under the terms of the federal government's ecoENERGY for Renewable Power program, Erie Shores is eligible to receive \$10 per MWh of all production for the facility's first 10 years of operations up to a maximum of 254,700 MWh per year.

Site Map



About Capstone Infrastructure Corporation

Capstone Infrastructure Corporation's mission is to build and responsibly manage a high quality portfolio of infrastructure businesses in Canada and internationally in order to deliver a superior total return to shareholders through a combination of stable dividends and capital appreciation. Capstone's portfolio currently includes investments in gas cogeneration, wind, hydro and biomass power generating facilities, representing approximately 350 MW of installed capacity, and a 33.3% interest in a district heating portfolio in Sweden. Capstone is also currently developing a 20 MW solar power facility in Ontario. Please visit <http://www.capstoneinfrastructure.com> for additional information.



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