



ERIE SHORES FACT SHEET

ABOUT ERIE SHORES WIND FARM

Erie Shores Wind Farm is currently one of the largest wind power facilities in Canada, representing approximately 2.9% 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:

- Installed capacity: 99 net megawatts (MW)
- Approximate energy production*: 232,296 megawatt hours (MWh)
- Equivalent number of households: 23,000

Power Purchase Agreement:

Ontario Power Authority – until 2026

Project Development Period:

August 2004 – May 2006

Wind Turbines:

- Number of turbines**: 66
- Manufacturer: General Electric, 1.5 SLE
- Capacity: 1.5 MW
- Cut-in wind speed: 3.5 metres per second
- Cut-out wind speed: 25 metres per second
- Rotor speed: 11.0 – 20.4 rotations per minute
- Rotor diameter: 77 metres
- Hub height: 80 metres

* In the year ended December 31, 2009

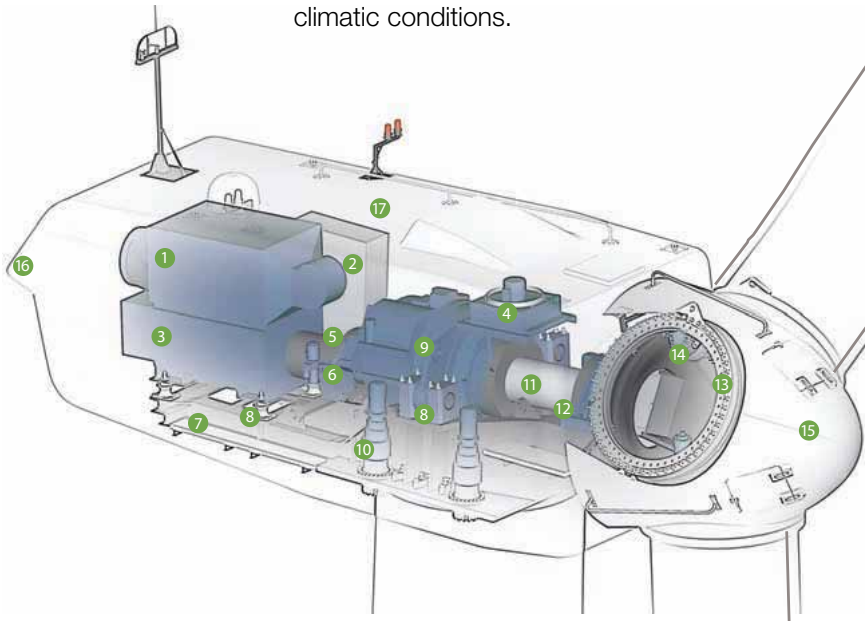
** One turbine is owned by a land owner

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.

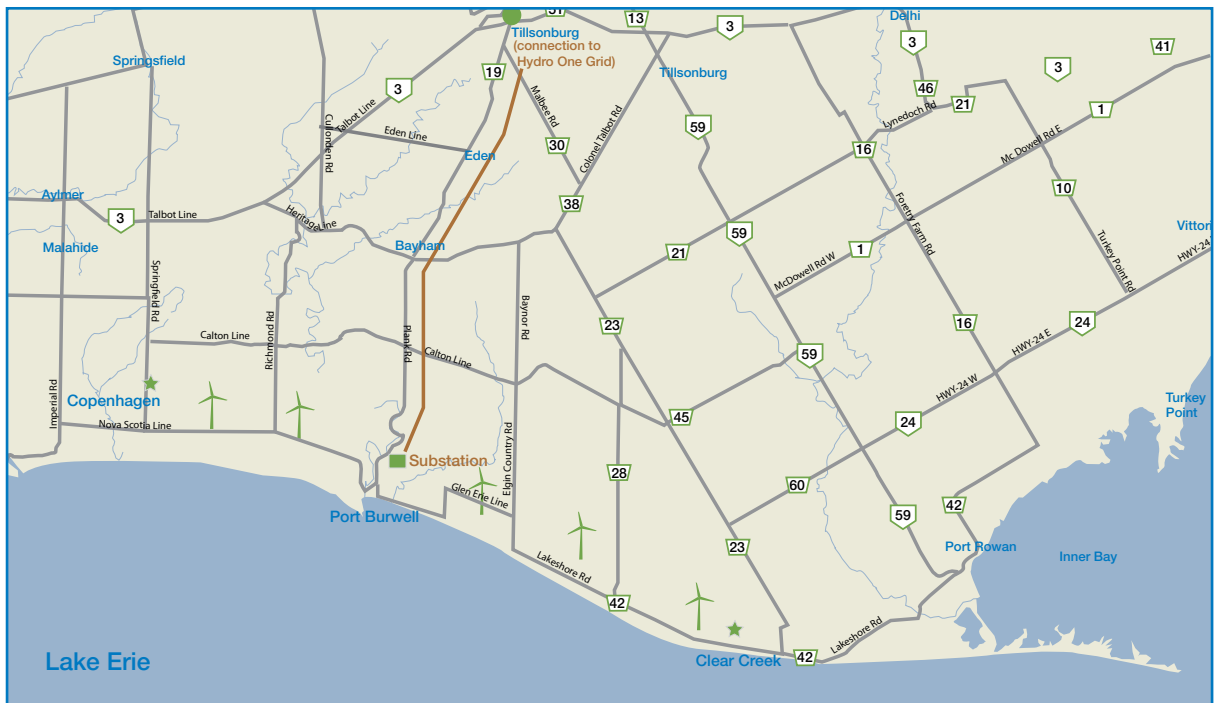
The wind turbines at Erie Shores are designed to adapt to all kinds of wind and environmental conditions to reliably operate under differing climatic conditions.

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

SITE MAP



KEY CONTRACTS

SUPPLY AGREEMENT

The turbine supply agreement includes a power curve warranty and wind industry standard guarantees of equipment performance and availability provided by GE and GE Canada for four years ending in July 2010. This includes a direct revenue reimbursement provision that compensates Erie Shores for lost revenue under the PPA should the wind turbines not reach the warranted threshold for availability and performance of 97%.

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% of the total original rate awarded is adjusted annually every January 1 for inflation.

OPERATIONS AND MAINTENANCE AGREEMENT

GE Canada provides fixed price operations and maintenance (O&M) services until July 2010, at which time the O&M function will be internalized.

PERFORMANCE (for the year ended December 31, 2009)

During 2009, Erie Shores Wind Farm achieved availability of 96.3% and a capacity factor of 26.8%. Total energy production during the year was 232,296 MWh, reflecting a strong average wind speed. Erie Shores is expected to deliver long-term annual production of approximately 249,800 MWh, subject to wind speed and density, which are usually greater in the fall and winter seasons.



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 1,208 MW* of installed wind power capacity, which represents about 3.4% of Ontario's electricity supply mix
- More than 1,100** MW of wind power capacity was online at the end of 2009, enough to power almost 300,000 homes

* Canadian Wind Energy Association
** Ontario Ministry of Energy and Infrastructure

ABOUT MACQUARIE POWER & INFRASTRUCTURE INCOME FUND

Macquarie Power & Infrastructure Income Fund (TSX: MPT.UN) owns and operates essential infrastructure assets, with an emphasis on power infrastructure.

Infrastructure assets meet critical, long-term community needs, such as power generation, electricity transmission and highways. Infrastructure assets also include structures or services that society cannot function without, including water systems, hospitals and schools

Simply, public infrastructure underpins national productivity, economic competitiveness and quality of life.

MPT's portfolio currently includes investments in gas cogeneration, wind, hydro and biomass power generating facilities, representing approximately 350 MW of installed capacity.



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