

# WIND ENERGY CENTRE - OPEN HOUSE

## Ontario's Renewable Energy Approval Process

- The Renewable Energy Approval (REA) process, outlined in Ontario Regulation 359/09, is a requirement for large wind power projects under Ontario's Green Energy Act
- NextEra Energy Canada will submit a Renewable Energy Approval application to the Ontario Ministry of the Environment (MOE) for each project that has been granted a FiT contract
- The MOE will assess the application for completeness and then undertake a technical review to determine whether to issue an approval
- Other agencies, including the Ministry of Natural Resources (MNR), the Ministry of Transportation (MTO), the Ministry of Tourism, Culture and Sport (MTCS) and local conservation authorities and municipalities will provide input

## Reports included in application:

Reports were submitted in draft for public review on October 31, 2012 and are available at this public meeting for review

- ✦ **Project Description Report** – to provide an overview of the project and a summary of all the required REA reports
- ✦ **Archaeology and Cultural Heritage Assessment Reports** – to identify potential effects on archaeological and cultural heritage resources
- ✦ **Natural Heritage Assessment Report** – to identify potential effects on birds, bats, other wildlife, woodlands, wetlands, areas of natural and scientific interest
- ✦ **Noise Assessment Report** – to ensure the project is in compliance with noise regulations
- ✦ **Water Body and Water Assessment Report** – to identify potential effects on streams, seepage areas and lakes
- ✦ **Construction Plan, Design and Operations, Decommissioning Reports** – to describe these activities and identify mitigation measures to address any potential effects resulting from the various project phases
- ✦ **Consultation Report** – to demonstrate how NextEra Energy Canada engaged local governments and Aboriginal groups, and the community, during the project (draft was not submitted)
- ✦ **Wind Turbine Specifications** – to describe the turbine technology selected for the project

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## Renewable Energy in Ontario

### The Green Energy and Green Economy Act

- Developed to stimulate the “green” economy in Ontario

### Key Components:

- Provincial obligation to purchase green energy
- Priority grid access for renewable energy projects
- Long-term fixed-price power contracts
- Coordinated regulatory and approvals process



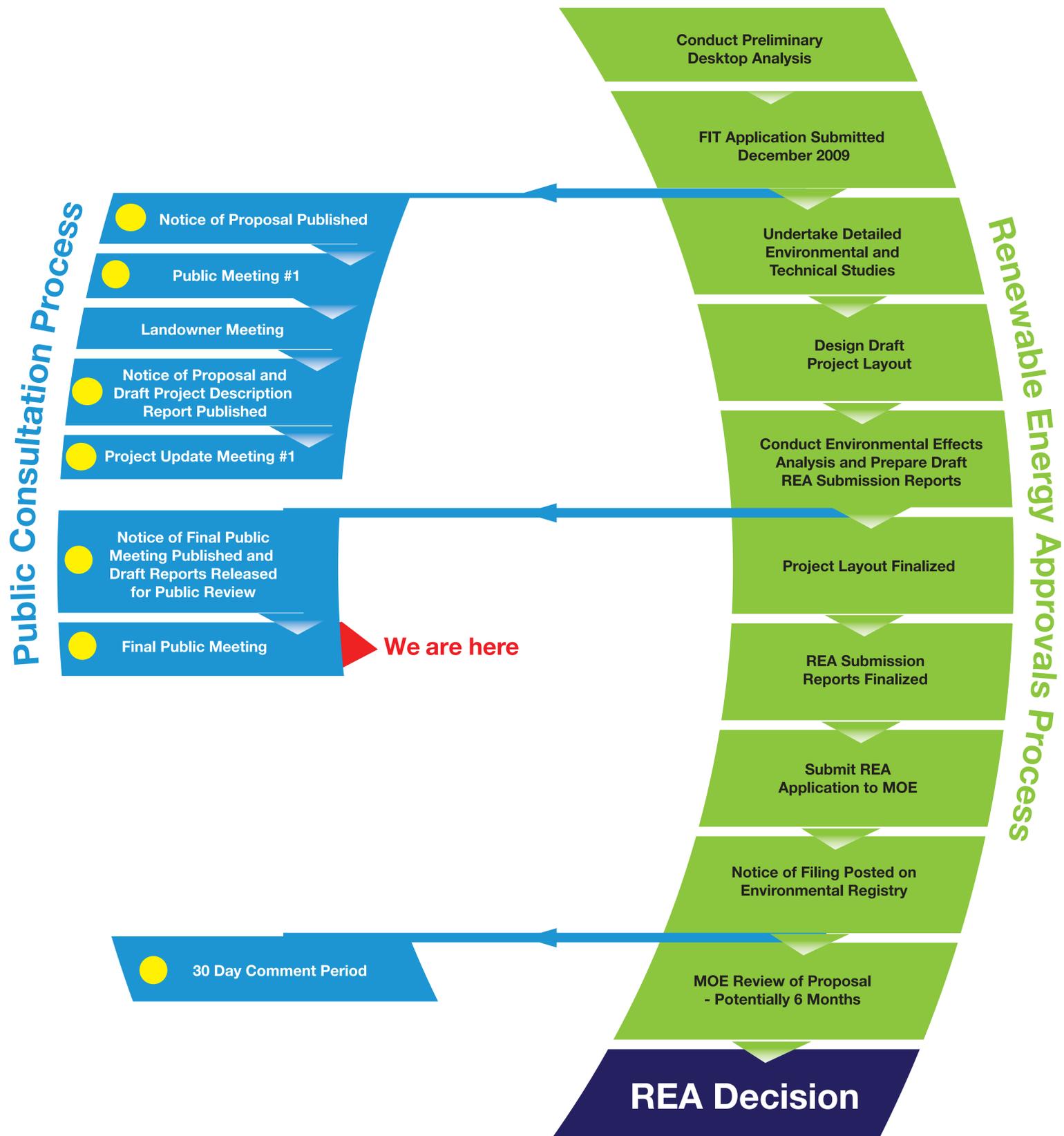
### Provincial Green Energy Initiatives and the Feed-in-Tariff Program:

- Feed-in-Tariff (FIT) Program, launched by the Ontario Power Authority, is North America’s first comprehensive guaranteed pricing structure for renewable electricity production
- The FIT Program offers stable prices and long-term contracts to green energy projects that encourage investment in renewable energy and economic development across the Province
- NextEra Energy Canada has six projects that were awarded FIT contracts on July 4, 2011:
  - ✦ Adelaide Wind Energy Centre
  - ✦ Bluewater Wind Energy Centre
  - ✦ Bornish Wind Energy Centre
  - ✦ East Durham Wind Energy Centre
  - ✦ Goshen Wind Energy Centre
  - ✦ Jericho Wind Energy Centre

We have two additional projects (Conestogo and Summerhaven Wind Energy Centres) which have been awarded a FIT contract by the Ontario Power Authority and have received the Renewable Energy Approval. The Conestogo Wind Energy Centre began commercial operation in December 2012. The Summerhaven Wind Energy Centre is anticipated to be in commercial operation the summer of 2013.

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## Renewable Energy Approval Process



 Mandatory Consultation Activity

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## The East Durham Project

- The proposed East Durham Wind Energy Centre project is located in the Municipality of West Grey and Grey County, Ontario
- The project will be able to generate up to 23-megawatts of electricity
- Up to 16 GE model wind turbines with 14 turbines that are 1.6-100 (1.62 MW), Turbine 6 is 1.34-100 (1.34 MW) and Turbine 2 is 1.39-100 (1.39 MW) wind turbine generator locations and pad mounted step-up transformers are proposed for permitting (a maximum of 14 turbines will ultimately be constructed)
- The major components of the Project are proposed to be:
  - ✦ Turbine laydown and storage areas (including temporary staging areas, crane pads and turnaround areas surrounding each wind turbine);
  - ✦ Construction laydown area (including staging areas for construction materials, construction trailers and associated facilities and a temporary electrical service line to provide power to the construction trailers);
  - ✦ Approximately 28.3 km of 34.5 kV underground electrical collection lines and ancillary equipment (e.g., above ground electrical junction boxes) to connect the turbines to the proposed transformer substation;
  - ✦ Pad mounted 690 V/ 34.5 kV step up transformers located at or near the base of each turbine (one per wind turbine location);
  - ✦ A transformer substation to connect to the Hydro One distribution system;
  - ✦ Overhead 44 kV line to connect the transformer substation to the Hydro One electrical grid;
  - ✦ Approximately 13.8 km of turbine access roads;
  - ✦ An operations and maintenance building (located outside the project location – shared use of land and building approved for the Conestogo Wind Energy Centre); and
  - ✦ One to two meteorological towers.