

Lake Simcoe Region Conservation Authority Board Presentation

December 17, 2009



Who is Pristine

Canadian developer, conventional & alternative energy

projects completed by our management team

5,000 MW

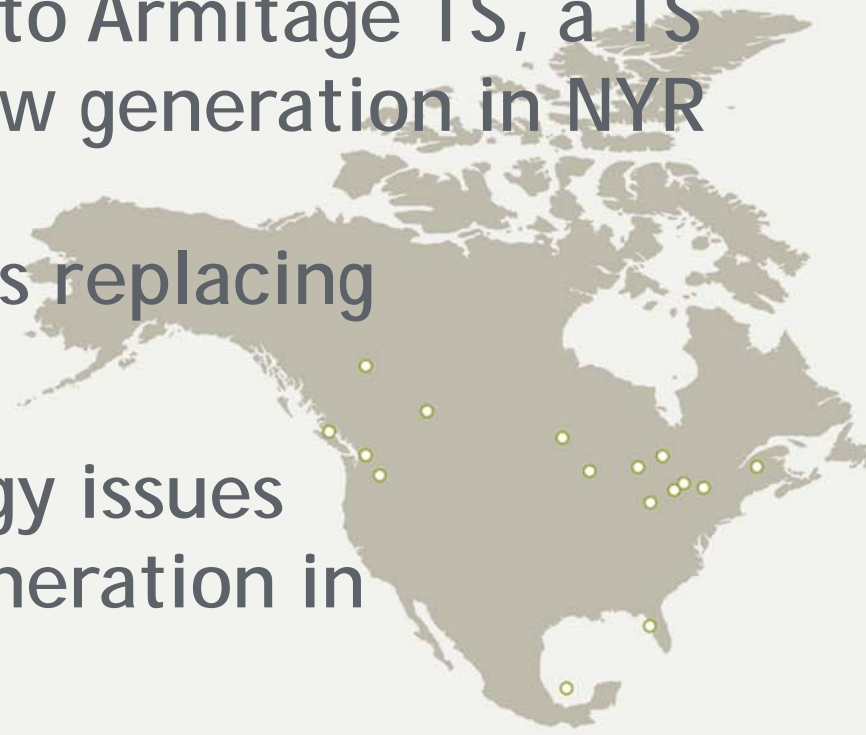
average years of
experience in power industry

22 years



Generation in Northern York Region

- **2005**, OPA submits report to OEB outlining electricity needs for NYR
- plan includes upgrades to Armitage TS, a TS at Holland Junction, new generation in NYR
(transmission option turned down by NYR)
- **2007**, OPA recommends replacing coal fired electricity
- **2008**, Minister of Energy issues directive to OPA for generation in NYR



York Energy Centre

- **December 11, 2008**, York Energy Centre awarded contract for electricity generation in NYR
- **York Energy Centre**
 - grid stability (meet IESO standards)
 - peaking generation
- **York Energy Centre** is grid critical for December 31, 2011



Environmental Assessment

- **Environmental Review Report**
 - Air Quality
 - Human & Ecological Health
 - Soils, Vegetation
 - Socio-economic

- **Minister of the Environment**, denies appeals,
August 17, 2009
- **Notice of Completion**,
August 19, 2009
- **Environmental Assessment Complete**

Clearing Up Misinformation

Fiction

- YEC uses water for cooling
- Air models used for YEC are incorrect

Fact

- No cooling water used; 320 L/day used for sinks/washrooms
- **YEC used the model required and approved by the MOE**

Clearing Up Misinformation

Fiction

- YEC uses large amounts of prime agricultural land

Fact

- YEC occupies 2.77 ha (20%) of 13.7 ha owned
- 60% of YEC soils are not prime agricultural soils
 - (majority are Class 4; constant irrigation required for the Class 2 soils on-site)
- Use of 2.77 ha represents a **0.08% & 0.17% decrease** in land available for vegetable production in Region & Township respectively
- YEC examining possibility to offset marginal decrease

Clearing Up Misinformation

Fiction

- Significant impacts to human and ecological health

Fact

- YEC completed detailed, conservative Risk Assessment
 - 3 independent peer reviews completed (York Region (Jacques Whitford), Township of King (Aecom, Environmental & Occupational Health Plus))
 - All confirmed their agreement with the conclusions reached by the YEC of no significant impacts
 - *“Additionally, health risks arising from blackouts are not insignificant...The benefits of avoiding blackouts needs to be part of the overall comparison of risks since blackouts are not risk free.”*
Environmental & Occupational Health Plus, Jan 19 2009

Clearing Up Misinformation

Fiction

- YEC can't provide power during an outage on the transmission line from Claireville

Fact

- YEC can provide power to this line during an outage
- This is directed by the Independent Electricity System Operator (IESO), not YEC

Clearing Up Misinformation

Fiction

- Gas fired peaking generation is contrary to climate change policy

Fact

- YEC supports climate change policy,
 - Assist Ontario government with shutting down coal fired generation
 - *Green Energy Act*
 - Facilitates stable operation of intermittent and less predictable sources of power such as wind, solar and hydro which have a lower carbon footprint
 - *US Clean Energy Jobs and American Power Act, Sept 30, 2009. Clean Energy & Natural Gas, Sec. 181. (1) ...The Administrator shall establish a program to promote dispatchable power generation projects that can accelerate the reduction of power sector CO₂ and other GHG emissions"*

Clearing Up Misinformation

Fiction

- Wrong site

Fact

- Right site evidenced by,
 - OPA contract award
 - Ministry and Minister of Environment confirmation via,
 - Rejection of Elevation Requests
 - Denial of Appeals
 - Air emissions knows no boundaries,
 - 55% of Toronto's air pollution results from emissions originating in the US
 - Strong support by the OPA and provincial government

Importance of Electrical Reliability

Ontario–U.S. Power Outage—Impacts on Critical Infrastructure: Northeastern Interconnection power outage of August 14, 2003

Impacts to:

Emergency Services

- *Across the affected areas of the province, police, fire departments and ambulance services experienced a dramatic increase in the volume of calls received.*
- *Virtually all branches of the emergency services sector encountered transportation delays, backlogged hospitals and intermittent difficulties with communications equipment.*

Water Treatment, Supply and Distribution

- *Some waste treatment plants released only partially treated waste water into neighboring waterways.*
- *A protracted blackout might have caused more serious difficulties in procuring the chemicals necessary to treat and purify water.*

Importance of Electrical Reliability

Ontario–U.S. Power Outage—Impacts on Critical Infrastructure: Northeastern Interconnection power outage of August 14, 2003

Impacts to:

Environmental Safety

- Some environmental safety concerns were reported to be directly related to the power failure. Boil water advisories were issued in several communities after waste treatment facilities released partially treated waste into waterways.*
- Several chemical plants reported the release of hydrocarbons into the atmosphere.*

Food Distribution

- The power outage caused shipping and storage difficulties for commercial retailers and dairy producers. Many commercial retailers were forced to discard large quantities of stock due to spoilage while many dairy producers were required to ship milk to other places for processing.*

York Energy Centre Status

- **Site Plan** appealed to the OMB
- Tremendous progress made with Township of King and LSRCA
 - Outstanding technical issues can be resolved, **including Safe Access**
 - YEC's legal and planning advice is we unequivocally **comply with the PPS and Greenbelt Plan**
- YEC is committed to remaining on schedule and on budget to provide electrical power in NYR by the end of 2011
- We are absolutely committed to moving forward on this project for the benefit of all of York Region