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Supply to Essex County

What's New?

December 2009—Hydro One modifies proposed transmission line route alignment

(Leamington/Lakeshore area)

Based on input received from local property owners at a workshop held on October 29, 2009 at the Comber Community Centre, Hydro One will modify the northern portion of the proposed transmission line route presented on July 16, 2009 at the Public Information Centre (PIC) #3 in Leamington. A 230 kilovolt (kV) transmission line is required to connect the proposed Hydro One transformer station on Concession Road 6 in the Municipality of Leamington to the existing transmission lines located south of Highway 401.

At PIC #3, Hydro One was asked to consider alternative transmission line routes between Lakeshore Roads 243 and 245 that would follow existing

property lines, if possible. Hydro One had previously investigated routing options in 2008 and determined that a mid-concession route was not feasible due to the proposed location of wind turbines for the Comber Wind Project. Hydro One agreed to re-examine the suggested routes and identified one technically-feasible alternative west of Lakeshore Road 245.

At the October 29 workshop, Hydro One reviewed the route alternatives with area property owners and sought their input on the evaluation criteria which should be considered most important when assessing the two alternative routes. For full details, read the Workshop Report and Appendices.

Hydro One is completing the Draft Environmental Study Report (ESR) for this project and it will be made available for public review and comment early in 2010.

July 2009—Hydro One is nearing completion of the Class Environmental Assessment (EA) to reinforce the electricity transmission system in Essex County.

The following new facilities, shown on the map below, are being proposed to ensure an adequate and reliable supply of power for the future:

- a new transformer station in Leamington and a new double circuit 230 kilovolt (kV) transmission line on a new corridor to connect the station to the existing 230 kV lines south of Hwy 401; and
- an additional 230 kV line on the existing transmission corridor between Sandwich Junction near Maidstone and Lauzon Transformer Station in Windsor.

The facilities would be built in stages, with the Leamington Transformer Station and connector line proceeding first.

Preferred Transmission Alternative Map

October 2008—Hydro One has posted the detailed ortho tiles that were presented at public information centres in Tecumseh on July 23, 2008 and Leamington on July 24, 2008. Download the maps below (ZIP files containing PDF maps - high-speed Internet recommended):

- Leamington Alternative A (ZIP - 6.6 MB)
- Leamington Alternative B (ZIP - 6.2 MB)
- Sandwich to Lauzon (7.6 MB)

Hydro One and its consultants are continuing to explore potential sites for a new transformer station in the Municipality of Leamington, and to study the alternative transmission line routes A and B that would connect the new station to the existing 230 kilovolt lines that supply Essex County.

Hydro One will hold a third round of public information centres (PICs) once a preferred station site and transmission line route have been identified, and will seek further public and stakeholder input at that time. It is anticipated that the next PICs will be held later this Fall.

July 2008—Hydro One has completed the first and second round of public and stakeholder consultation and information gathering for its Class Environmental Assessment (EA) project and has identified a preferred transmission reinforcement plan for Essex County and Windsor. Transmission Alternative #2, as described below, has been selected as the preferred alternative based on an analysis of technical, environmental, social and cost factors, and public and stakeholder feedback.

Hydro One and the Ontario Power Authority (OPA) first introduced its

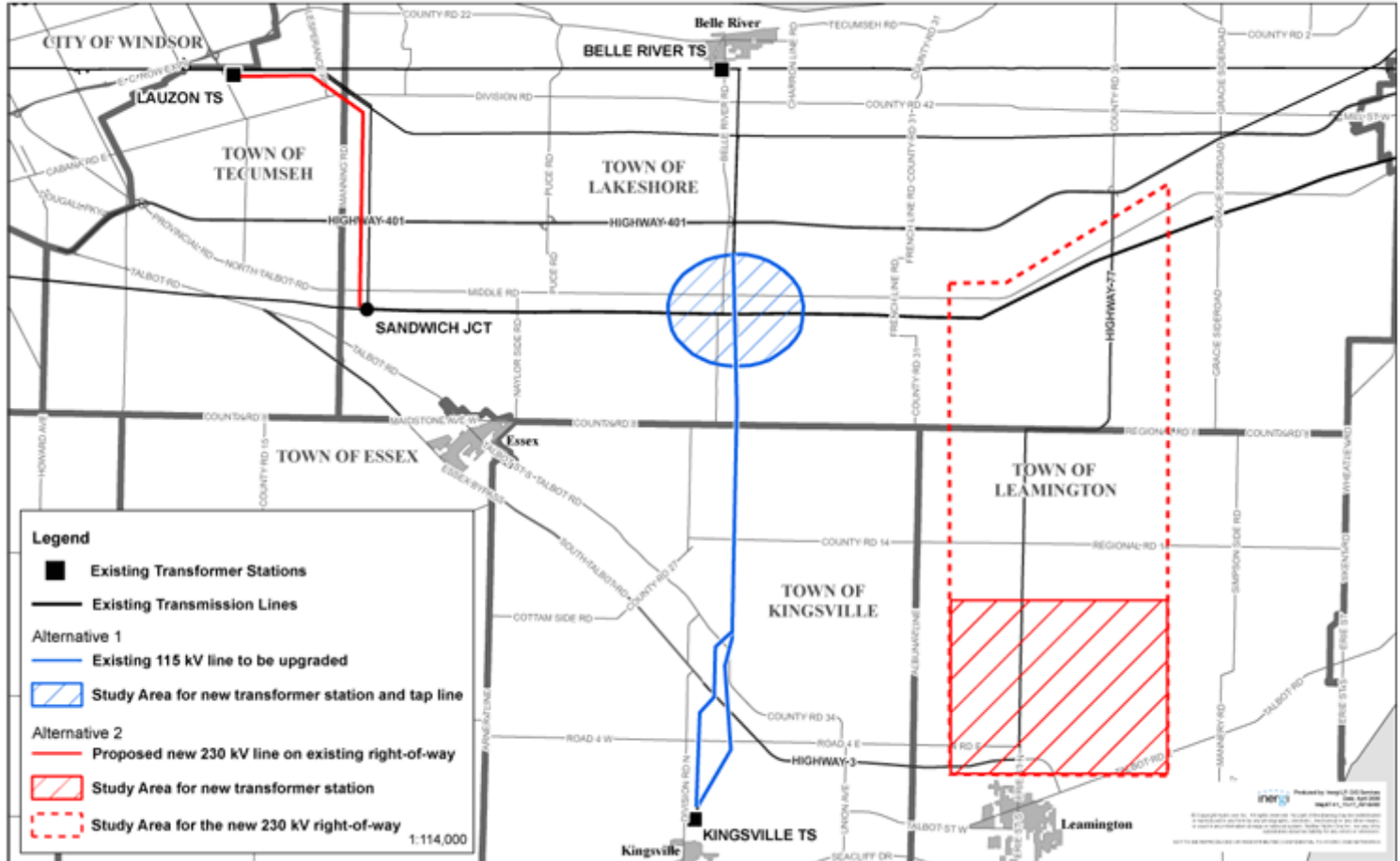
preferred alternative and outlined the next steps in the Class EA process at the municipal council meetings on July 7 and July 8 in the Municipality of Leamington, Town of Kingsville, Town of Lakeshore, and Town of Tecumseh. See the presentations made by the OPA(PDF 567 KB) and Hydro One(PDF 409 KB).

Project Description

Hydro One has initiated a Class Environmental Assessment (EA) to reinforce the electricity transmission system that supplies Essex County and Windsor to ensure an adequate and reliable supply of electricity for the future. While this Class EA project focuses mainly on addressing identified needs in the eastern part of the County, investments in new and/or upgraded facilities in this area would benefit the county as a whole. The transmission options and facilities under consideration are described below in further detail.

Hydro One is seeking input on the following two alternative transmission options described below and shown on the map. Both alternatives are technically feasible, satisfy the identified electricity system needs, and can be constructed and put into service by the target date of Spring 2011.

Supply to Essex County: Alternative Transmission Options, April 2008



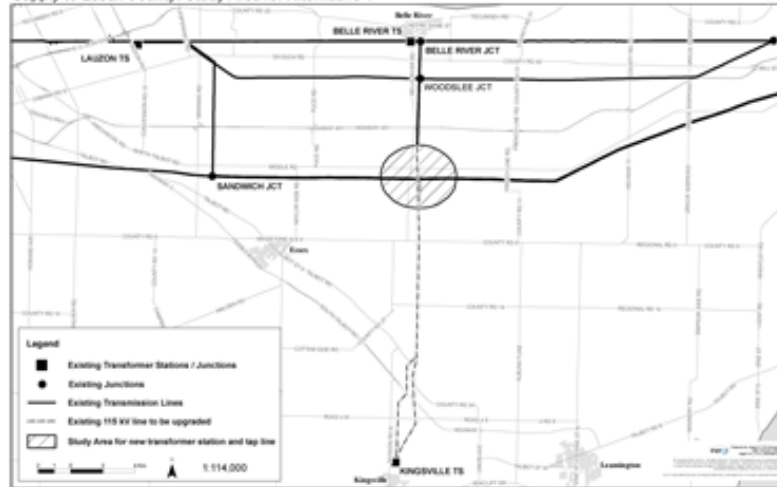
Alternative 1 (shown in blue on the map above)

- Construct a new 230 kilovolt (kV) to 115 kV transformer station and associated "tap" line in the Woodslee area in the Town of Lakeshore;
- Upgrade the capacity of the conductor (wires) on the existing 115 kV transmission line between the proposed station and Kingsville Transformer Station, and replace the wood pole structure on this existing right-of-way.

Alternative 2 (shown in red on the map above)

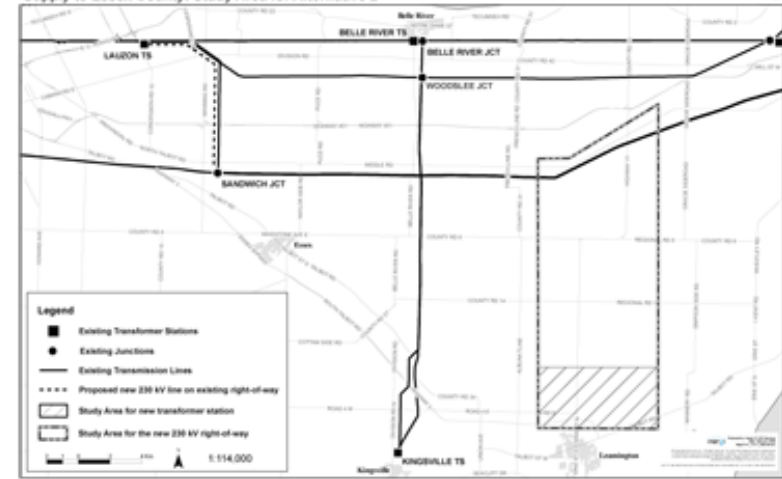
- Construct a new 230 kV to 27.6 kV transformer station north of Leamington;
- Construct a new 230 kV transmission line on a new right-of-way to connect the proposed station to Hydro One's existing 230 kV transmission line which runs east-west, south of Hwy 401;
- Construct a new 230 kV transmission line on the existing Hydro One-owned right-of-way between Sandwich Junction and Lauzon Transformer Station in the Town of Tecumseh.

Supply to Essex County: Study Area for Alternative 1



(Click map to enlarge)

Supply to Essex County: Study Area for Alternative 2



(Click map to enlarge)

The Need for Transmission System Reinforcement

The Ontario Power Authority (OPA), established by the Government of Ontario in 2004, is responsible for ensuring a long-term supply of electricity for Ontario. As part of its mandate, the OPA recommends investments in new electricity supply resources including transmission facilities.

In the August 2007, the OPA submitted its first Integrated Power System Plan (IPSP) to the Ontario Energy Board (OEB), the regulator of Ontario's electricity and natural gas industries. In preparing the IPSP, the OPA analyzed future electricity needs in the Windsor-Essex area, and in consultation with local distribution companies and Hydro One, confirmed the need for new transmission system investments in this area. Given the confirmed near-term need for new facilities in Essex County, the OPA has indicated to the OEB that Hydro One's Supply to Essex County Class EA should

be initiated at this time and precede the OEB's public review process for the IPSP.

To learn more about the OPA and its mandate, visit: www.powerauthority.on.ca.

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