



SEATON MUNICIPAL TRANSFORMER STATION

Welcome to our Public Information Centre



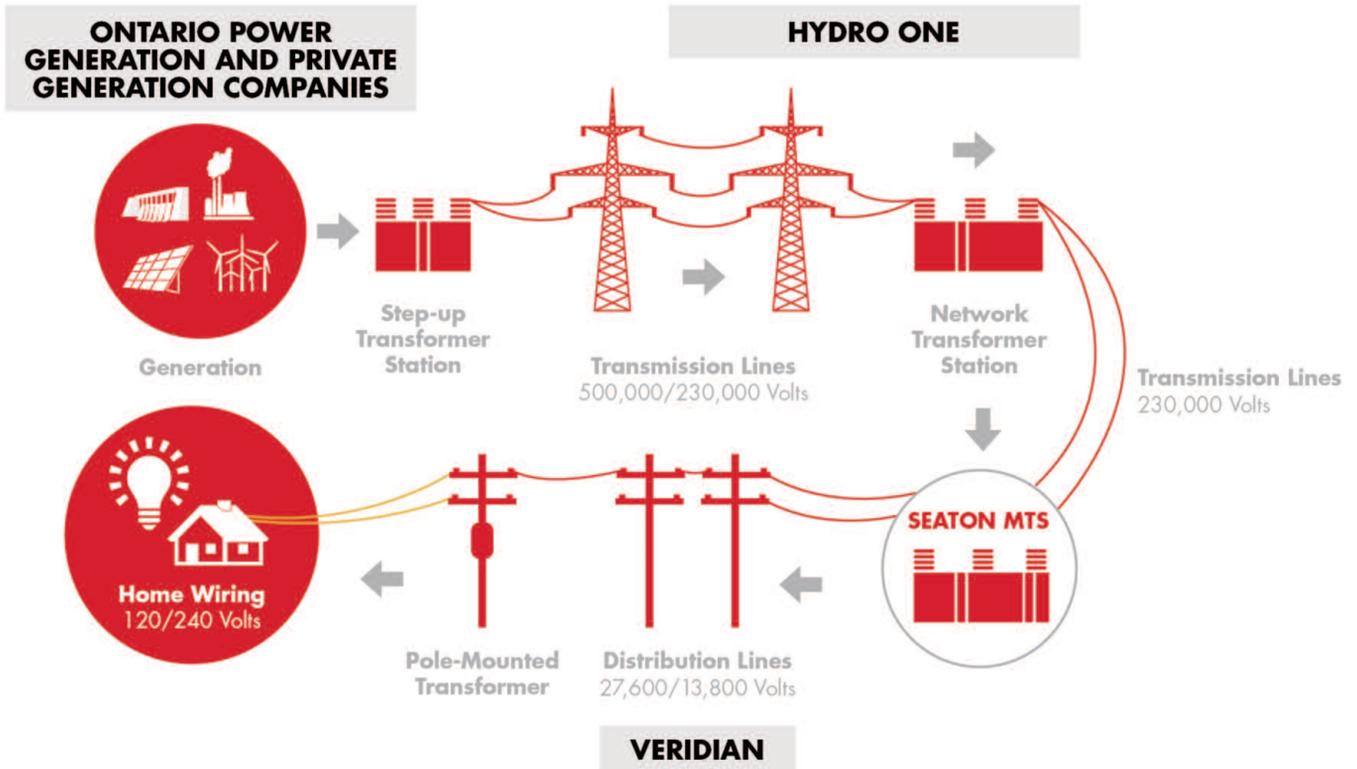
VERIDIAN
CONNECTIONS
The power to make your communi



Partners in Powerful Communities

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Delivering Power to Your Community



Hydro One Networks Inc.'s (Hydro One) transmission system carries high-voltage electricity across the province to local distribution companies, like Veridian Connections (Veridian), to be safely delivered to homes and businesses in the area.

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Project Description

In order to ensure a safe and reliable supply of electricity to North Pickering, Veridian and Hydro One are proposing to:

- Construct a new municipal transformer station (Seaton MTS), to be owned and operated by Veridian
- Connect Seaton MTS to Hydro One's existing high-voltage transmission system

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Project Need

- Existing and planned development in North Pickering is expected to contribute to an increase in electricity demand over the next 10 to 12 years
- A forecasted 180 MW* of additional power will be required for the Seaton Development Area
- The Central Pickering Development Plan which establishes land use, transportation, and design policies for Central Pickering considers a population of up to 70,000 people and 35,000 jobs in Seaton
- The need for a new transformer station in the area has also been confirmed in the Master Environmental Servicing Plan (MESP)
- Through an assessment of existing electrical capacity, Veridian identified that a new transformer station would best serve this anticipated growth in demand

* 1 MW is the equivalent of approximately 250 average residential users

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Purpose of the PIC

Meet Hydro One and Veridian's project team and learn more about:

- The proposed project in your community
- How the scope of the project has been revised
- Review the three alternate transformer station sites and the associated transmission line connection identified for each
- The study area for the project
- The planning and approvals process
- Next steps and opportunities for your participation

We're here to listen to your comments or concerns, obtain your feedback and answer your questions.

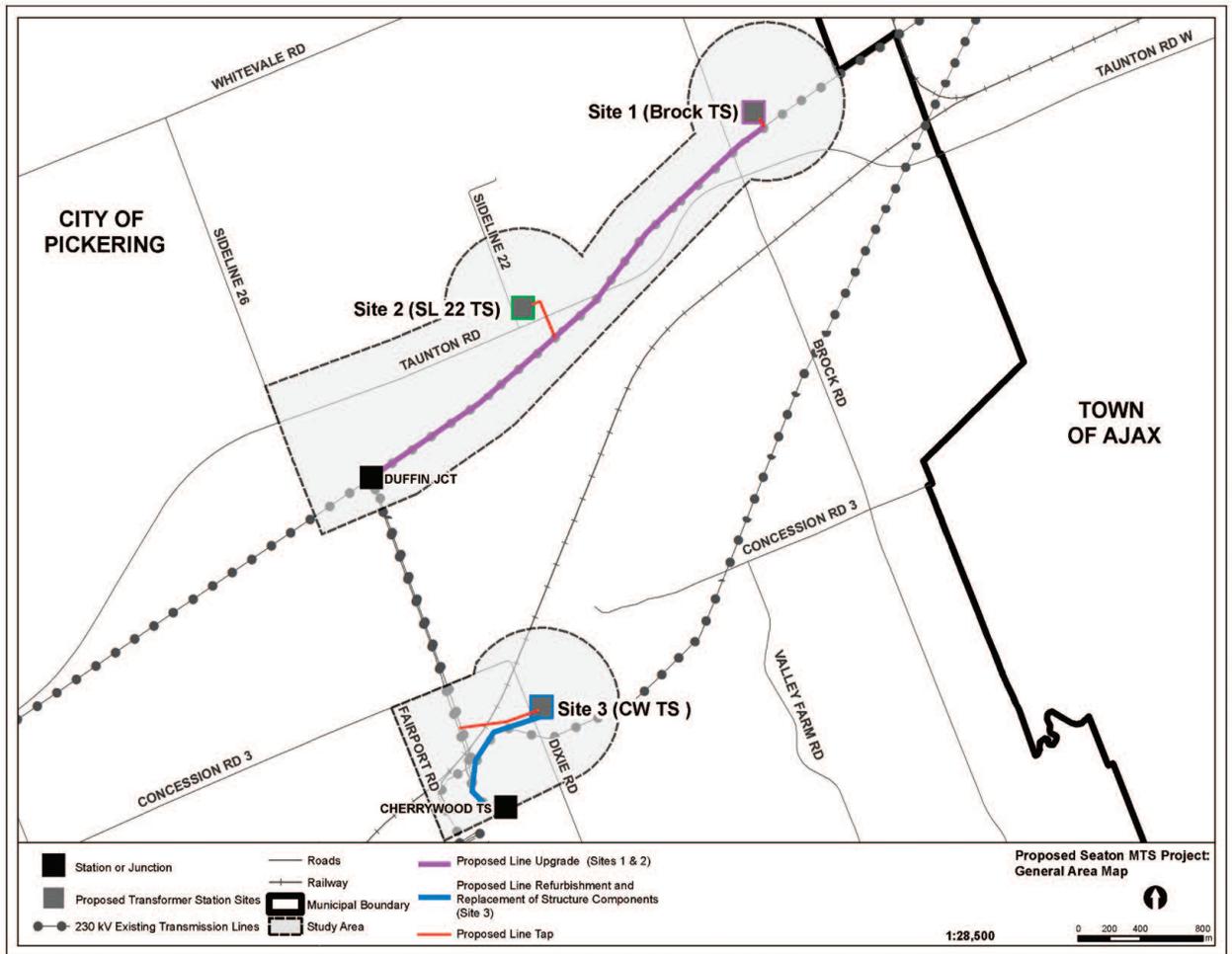
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Project Background

- In June 2015 Veridian initiated a Class Environmental Assessment (EA) to evaluate three alternative transformer station sites
- To ensure Veridian's new facility has an adequate supply of power, it must be connected to Hydro One's transmission grid
- Together as co-proponents, Hydro One and Veridian are updating the Class EA Study to include the construction of the new station and its connection to Hydro One's system
- The revised study will evaluate and determine a preferred location for the proposed transformer station and the associated transmission connection

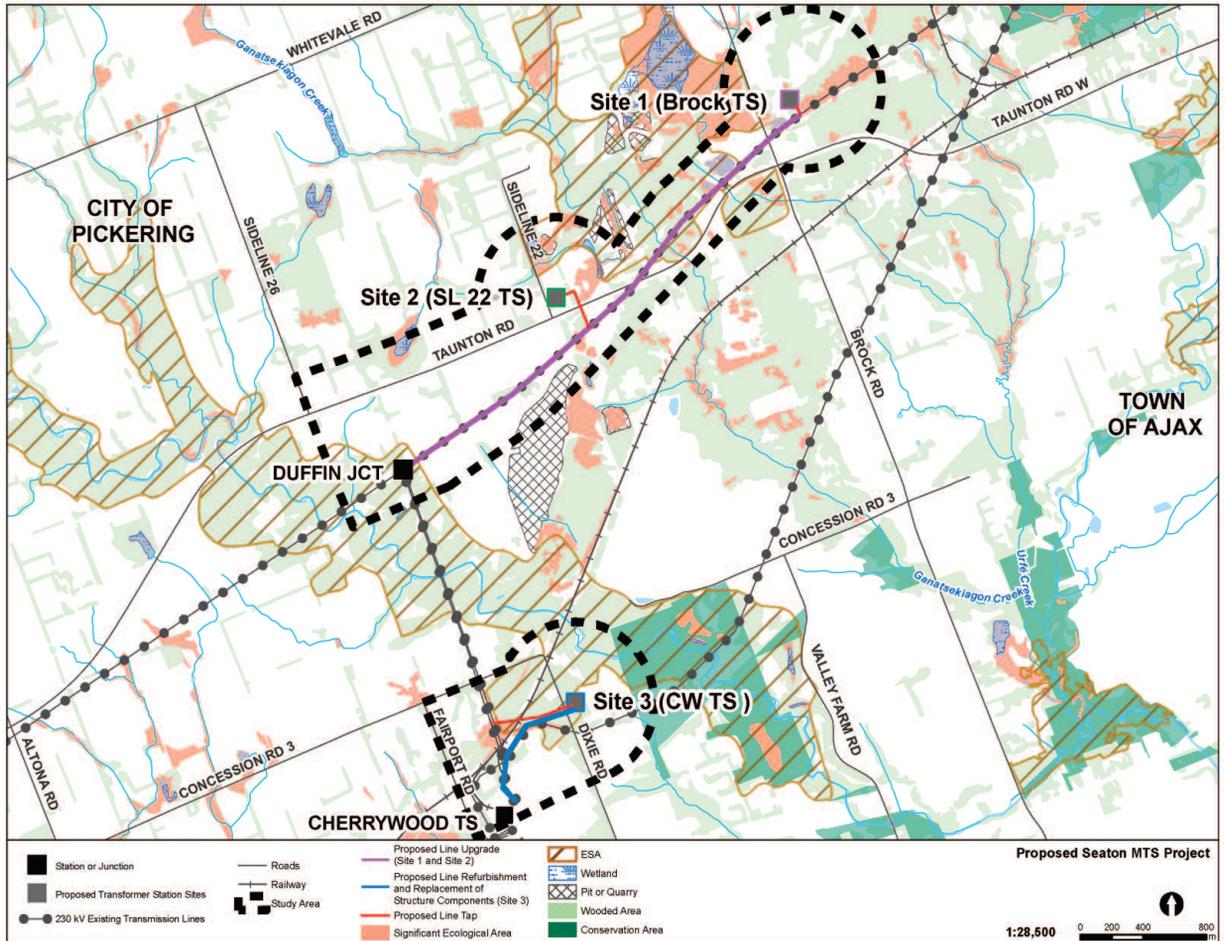
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Study Area



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Environmental Features Map



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Features of Seaton MTS

- The proposed Seaton MTS will be a 230 kilovolt (kV) /28 kV transformer station, transforming electricity from a 230 kV voltage to a 28 kV voltage which can safely be delivered to homes and businesses.
- The size of this station type is approximately 200m x 200m

Seaton MTS will include the following:

- Two 230 kV/28 kV transformers
- Access roads
- Appropriate fencing
- One enclosed building to house protection and control equipment enabling communication between surrounding infrastructure
- Switchyard to carry electricity throughout station

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Municipal Transformer Station Examples

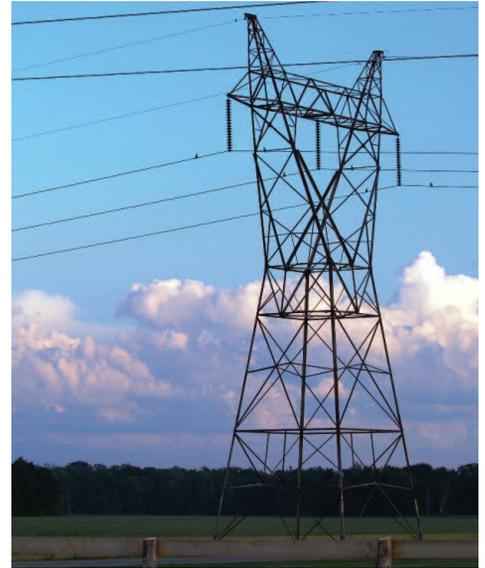


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Connection to Hydro One's System

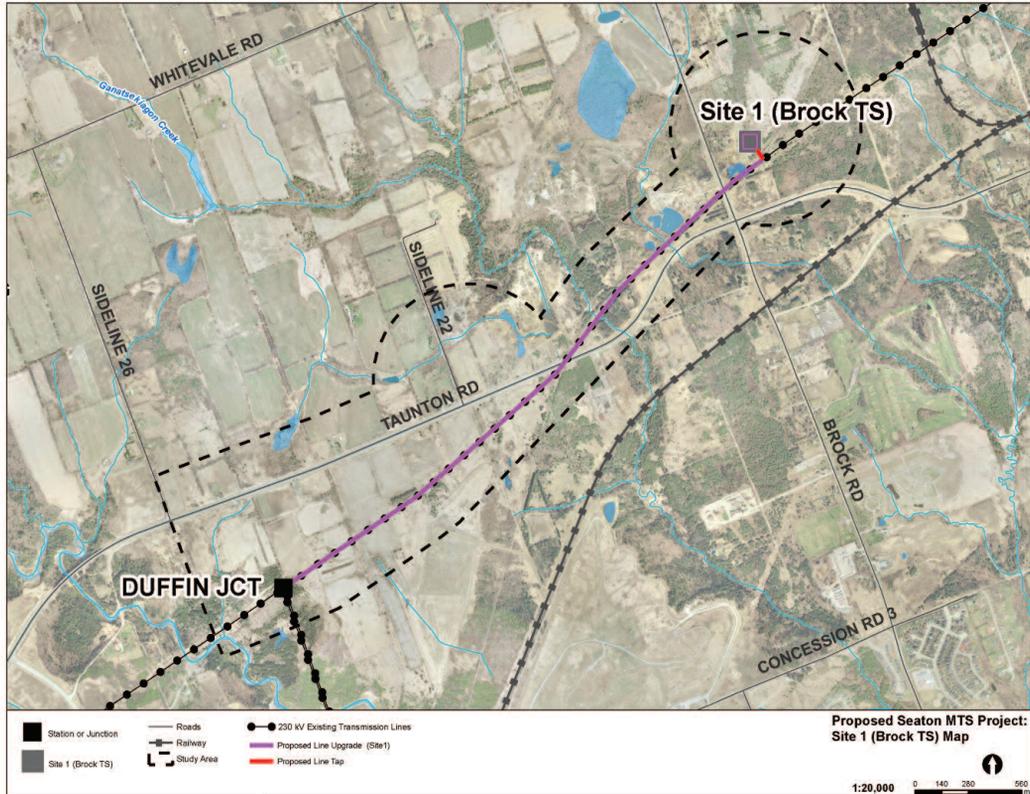
The proposed Seaton MTS will be connected to Hydro One's existing 230 kV line in the area

- Depending on the station site selected, the connection will involve either:
 1. Replacing a section of Hydro One's existing single circuit (3 wires) 230 kV line with a double circuit (6 wires) 230 kV line
 - This would involve the installation of taller tower structures
 2. Upgrading components such as the insulators and conductor (wire) on a section of Hydro One's existing 230 kV transmission line
 - A connection point (tap line) consisting of wood pole or steel structures will also be constructed to connect Seaton MTS to the 230 kV line



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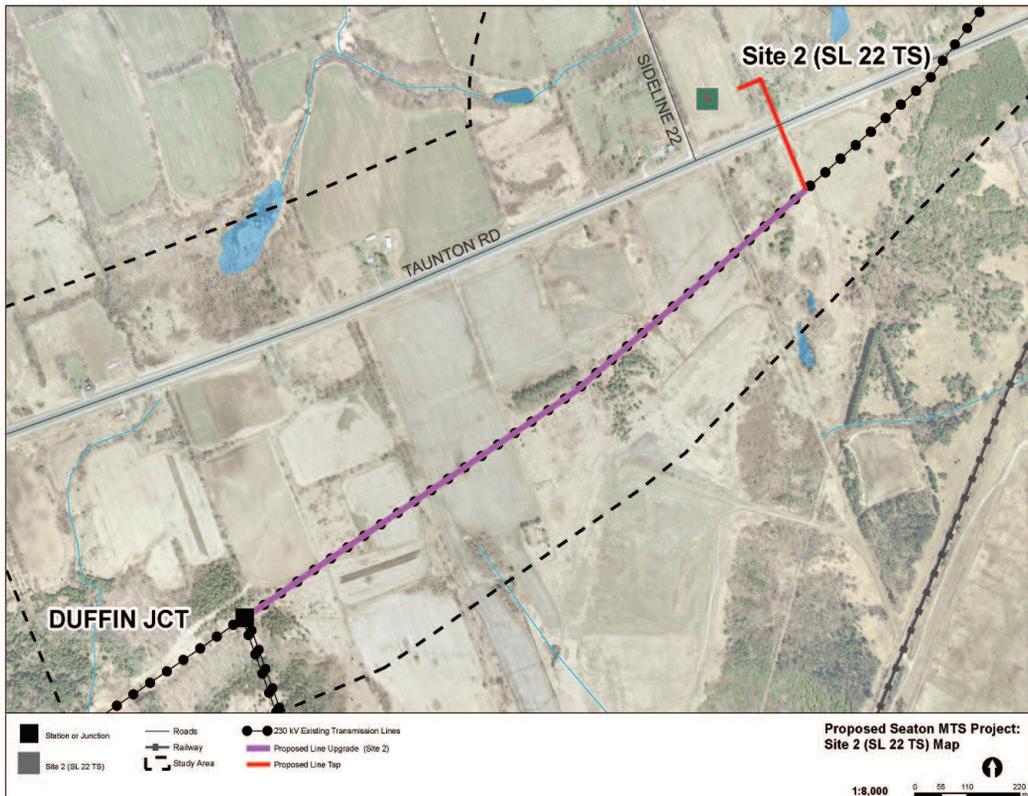
Proposed Site 1 & Associated Connection



- Station location: Northeast corner of Taunton Road West and Brock Road
- Hydro One's connection to this site will involve removing and replacing existing tower structures on the existing 230 kV line from Duffin Jct
- This will involve replacing more than 2 km of line requiring approval from the Ontario Energy Board under Section 92

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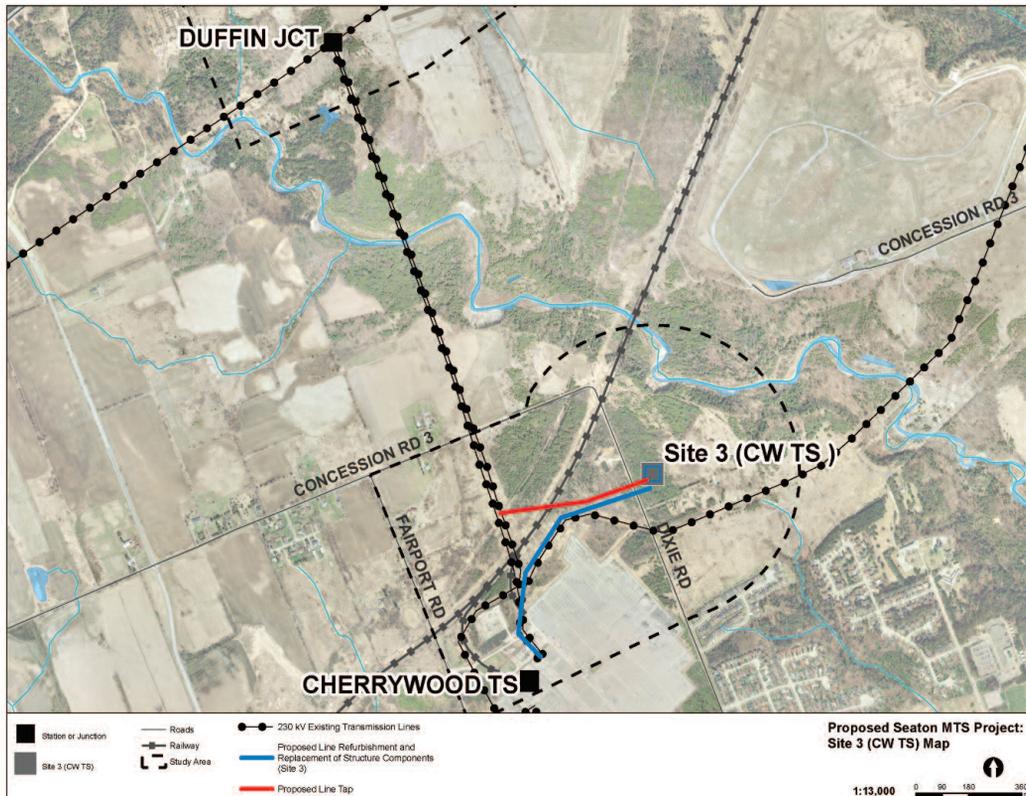
Proposed Site 2 & Associated Connection



- Station Location: Northeast corner of Taunton Road (Concession 4 and Sideline 22)
- Hydro One's connection to this site will involve removing and replacing existing tower structures on the existing 230 kV line from Duffin Jct
- This will involve replacing less than 2 km of line

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Proposed Site 3 & Associated Connection



- Station Location: Southeast corner of Concession 6 and Dixie Road
- Hydro One's connection to this site would involve upgrading various electrical components on the existing 230 kV line
- Connection to this site will not require the removal and replacement of existing tower structures

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Typical Construction Activities

Seaton MTS:

- Installation of access road to facilitate construction vehicle use
- Site area grading
- Installation of transformers and associated equipment
- Selective removal of vegetation for access roads, work area and site development
- Installation of necessary site drainage
- Connection of Seaton MTS to Veridian's local distribution system

Typical Construction Activities

Connection to Hydro One's system:

- Construction of a temporary bypass line to allow electricity flow while structures are replaced
- Installation of access roads
- Selective removal of vegetation or constraints from ROW that could impede construction
- Removal of old conductor (wire) and tower structures
- Erection of new towers and stringing of conductor
- Construction of tap line to connect Seaton MTS to the transmission system



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Project Approvals

- This project is subject to the provincial *Environmental Assessment Act*, and is being planned in accordance with the process outlined in the *Class Environmental Assessment (Class EA) for Minor Transmission Facilities (1992)*
- The Class EA process is an effective way of ensuring that minor transmission projects that have a predictable range of effects are planned and carried out in an environmentally acceptable manner
- The EA process provides First Nations and Métis communities, public and stakeholder consultation opportunities
- Upon completion of the Class EA, an Environmental Study Report (ESR) will be available for a public review and comment period

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Class Environmental Assessment

- If no concerns are expressed during the public review and comment period, a final ESR will be filed with the Ontario Ministry of the Environment and Climate Change (MOECC)
- If concerns are expressed during the review and comment period, Hydro One and Veridian will attempt to provide resolution to complete the Class EA process
- If Hydro One and Veridian cannot satisfy all concerns raised during the review period, a written request (Part II Order) asking for a higher level of assessment (Individual Environmental Assessment) can be submitted to the MOECC
- The proposed station sites and associated line taps in the study area are located on the Ministry of Infrastructure (MOI) owned lands. The MOI land holdings that may be impacted by this undertaking will be also evaluated through the Class EA process to satisfy the requirements of the MOI Class EA for Public Works

What does the Class EA Process Consider?

The Class EA process will identify potential project effects related to:

- Business and residential property owners
- Planned land uses and existing infrastructure
- Terrestrial and aquatic resources
- Environmentally sensitive areas
- Archaeological and heritage resources
- Recreational resources

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Additional Approvals

- Depending on the station site selected, approval from the Ontario Energy Board under *Section 92 of the Ontario Energy Board Act, 1998* may also be required.
- Additional permits and approvals from provincial, regional and local authorities will be determined as part of the Class EA Study and will be secured in the detailed design phase of the project.

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Next Steps

TIMELINE

PUBLIC AND STAKEHOLDER CONSULTATION

Briefing for Municipal and Regional officials	Fall 2016
Revised Class Environmental Assessment initiated	Fall 2016
Public Information Centre #1 Introduction to updated project	Fall 2016
Public Information Centre #2 Selection of preferred station location and associated transmission line connection	Winter 2017
Draft Environmental Study Report available for a 30-day review period	Spring 2017
Final Environmental Study Report filed with the Ministry of the Environment and Climate Change	Spring 2017
Anticipated start of Construction (Contingent on the outcome of the Class EA process)	Fall 2017



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Your input is important to us!

Thank you for joining us at this Public Information Centre.

Please join our project mailing list and complete a comment form before you go.

To share concerns or request information call or email us at:

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**[www.HydroOne.com/Projects/SeatonTS/
Pages/Default.aspx](http://www.HydroOne.com/Projects/SeatonTS/Pages/Default.aspx)**

www.Veridian.On.ca/ea-Study-Seaton/