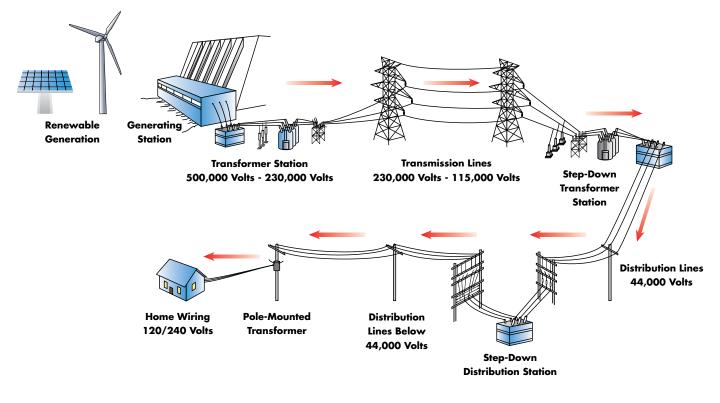


Welcome to our Public Information Centre



Electricity Flow Diagram





Key Organizations

hydro**one**



ONTARIO POWER GENERATION

- Hydro One Networks Inc. builds, owns, operates and maintains transmission and distribution facilities across the province of Ontario
- The Ontario Power Authority (OPA) develops plans to ensure electricity needs are met for the benefit of Ontario both now and in the future
- Ontario Power Generation (OPG) is an Ontario-based electricity generation company whose principal business is the generation and sale of electricity in Ontario



Need for New Transmission Facilities in GTA, including Durham Region

- OPG's Pickering Nuclear Generating Station (NGS) is approaching its final years of operation and will be retired between 2015 – 2020
- Pickering NGS currently supplies the GTA (including Durham Region) with more than 25 per cent of its peak electricity demand
- When Pickering NGS is removed from service, its 3,000 megawatts* of capacity must be replaced by a corresponding amount of power through Hydro One's transmission system
- The OPA has recommended that Hydro One build a new transformer station in the east GTA to ensure there is an adequate power supply and improved reliability for the Pickering, Ajax, Whitby, Oshawa and Clarington areas
- The proposed station, Clarington Transformer Station (TS) will enable power flow from the 500 kV network to the 230 kV network to offset the loss of 3,000 MW of supply lost from Pickering NGS' output

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



Options Investigated

- 1) Do Nothing: without offsetting the 3,000 MW from Pickering NGS, overloading could occur at Cherrywood TS, which would necessitate significant load shedding (ie, power interruptions for area customers)
- 2) Expand existing stations by installing two additional transformers:
 - Cherrywood TS Technically not feasible due to station equipment limitations
 - Parkway TS does not have adequate 230 kV line connections to provide the required support to the 230 kV system
 - Both these options do not meet the long-term supply and reliability needs for east GTA
- Other greenfield sites: not cost-effective and not consistent with the Provincial Policy Statement (2005) of using existing infrastructure corridors before exploring greenfield sites

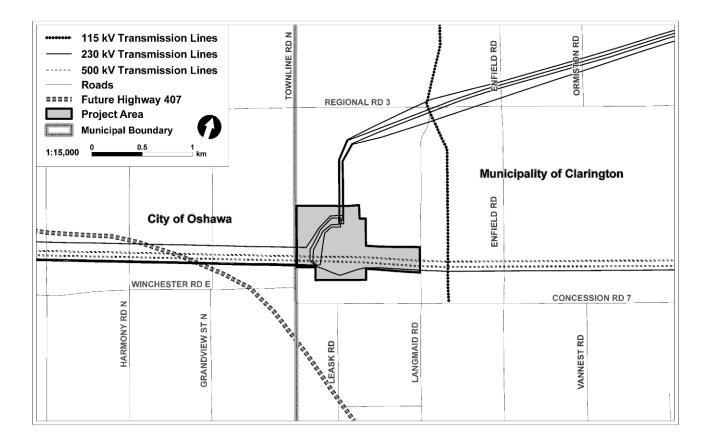


Site Selection Rationale

- Site is owned by Hydro One, eliminating the need to acquire land rights for the proposed station
- Site was purchased 30 years ago with the foresight to build a station to handle future electrical needs
- Site is where the existing 500 kV and 230 kV lines cross, eliminating the need to acquire land rights for new lines
- Site provides adequate space, meets technical requirements and is the most cost-effective option
- Consistent with the Provincial Policy Statement (2005)



Clarington TS





Features of the Clarington TS Project

- The station will include two 500/230 kV transformers, appropriate fencing, access road, lightning protection, grounding, and storm water management
- Three buildings that will house protection and control equipment
- Necessary switchgear including 500 kV and 230 kV breakers
- New towers would be installed to connect the existing 500 kV and 230 kV lines to the proposed station and some may be taller than what currently exists
- Associated distribution lines
- Clarington TS will have sufficient space to accommodate two additional 500/230 kV transformers and associated equipment when required
- Enfield TS (approved 2008) can be installed if required by local demand



Proposed Station Layout

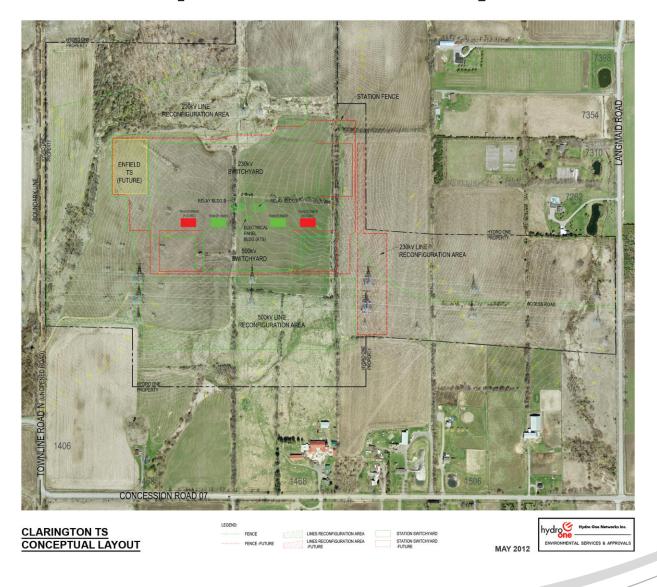


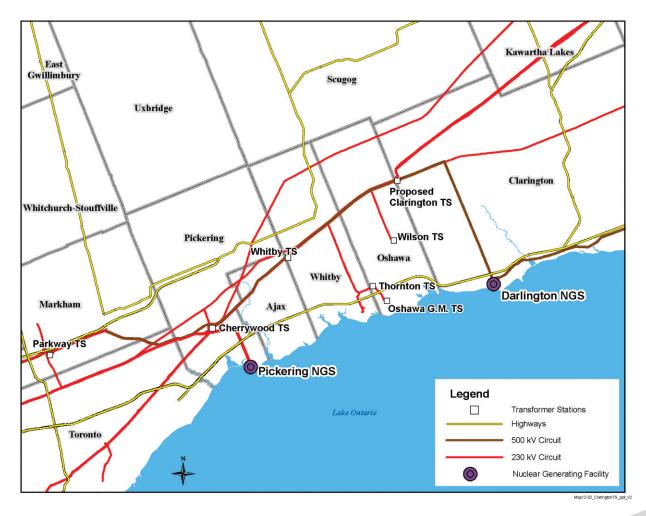


Photo of a Similar Looking Transformer Station





Hydro One Transmission System in East GTA





Environmental Planning Process

During project planning and design, Hydro One will identify potential project effects related to:

- Property owners in the vicinity of the project area
- Existing land uses and infrastructure
- Community recreational resources
- Built heritage resources
- Archaeological resources
- Cultural heritage landscape (including visual resources)
- Natural heritage features of Oak Ridges Moraine and Green Belt protected areas
- Biodiversity and habitat
- Environmentally significant areas
- Storm water management



Typical Construction Activities

- Access road to be installed to facilitate heavy vehicle access
- Selective removal of vegetation for access roads, work area and site development
- Site area grading
- Installation of necessary site drainage components
- Erection of towers
- Installation of transformers and associated equipment



Environmental Mitigation Measures

Measures to prevent or mitigate potentially adverse environmental effects during design, construction and operation include:

- Work with adjacent land owners to minimize effects
- Vegetation clearing outside of migratory bird breeding season
- Protection of cultural heritage resources
- Assessment of visual appearance of station
- Assessments of claims for crop losses during construction
- Adherence to erosion and sediment plan
- Control of noise, mud, dust, traffic disturbances and other nuisance effects during construction
- Environmental management during construction and operation



Approval Requirements

Ontario Environmental Assessment Act

• These facilities are subject to provincial Environmental Assessment Act approval in accordance with the Class Environmental Assessment for Minor Transmission Facilities, as a precursor to any other separate approvals

Other

• Hydro One will meet all other legislative and permitting requirements



Class EA Process

- In 1978, a Class EA for Minor Transmission Facilities was developed and approved by the Ontario Ministry of the Environment (MOE) and implemented by Ontario Hydro (now Hydro One). The Class EA was updated in 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
- Following the consultation process, a draft Environmental Study Report (ESR) will be available for public, First Nation and Métis communities, and stakeholder review and comment



Class EA Process

- If no concerns are expressed during the review period, the project is considered acceptable. Hydro One will file the final ESR with the Ontario Ministry of the Environment
- If concerns are expressed during the review period, Hydro One will attempt to resolve them in order to complete the Class EA process
- If stakeholders are dissatisfied with the process or Hydro One's project recommendations, a higher level of assessment referred to as a Part II Order can be requested by writing to the Minister of the Environment



Next Steps

Public Information Centre #2	Summer/Fall 2012
30 Day Draft ESR Review Period	Fall 2012
Submit Final ESR	Winter 2012/13
Begin Construction	Spring 2013
Station In-service	Spring 2015



Your Input is Important to Us

Thank you for attending our Public Information Centre

Please fill out a comment form before you leave, or send us your comments afterward

For project information, please contact us at:

Website: www.HydroOne.com/projects/clarington Email: Community.Relations@HydroOne.com Information Line: 1-877-345-6799 Fax: 416-345-6984