

Welcome to our Pre-Construction Public Information Centre





Overbrook to Riverview Transmission Line Upgrade

July 2017



We're here to share information and answer your questions

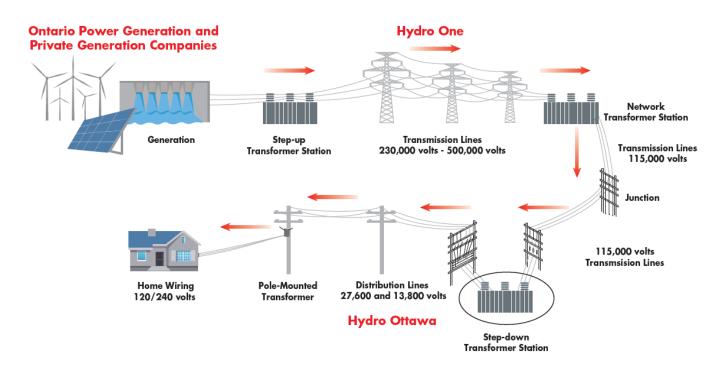
Please

- Take a moment to review the display panels and table maps, and chat with members of our team.
- Provide us with your email address if you would like to receive email updates during the construction of this project.
- Contact us anytime at 1-877-345-6799, or via Community.Relations@HydroOne.com

Thank you for your interest in the project and for attending our event.



Hydro One's Role in Delivering Electricity to Your Community





Key Organizations



Hydro One Networks Inc.

Builds, owns, operates and maintains electricity transmission and distribution facilities across Ontario



Hydro Ottawa

Distributes electricity supplied by Hydro One's transmission system to residential, commercial and industrial customers in parts of Ottawa.



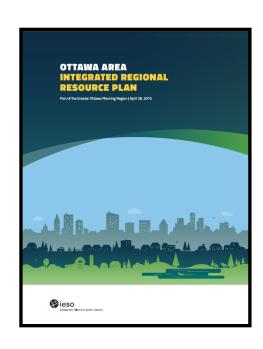
Independent Electricity System Operator

Develops plans to ensure electricity needs are met for the benefit of Ontario, both now and in the future.



Project Background

- This project is identified in the Ottawa Area Integrated Regional Resource Plan, developed by the IESO, Hydro Ottawa and Hydro One to address the growing electricity needs of central Ottawa.
- Power to this area is supplied by Hydro Ottawa and this project will ensure that Hydro One's transmission system can deliver an adequate and reliable supply of electricity to meet Hydro Ottawa's forecasted electricity needs.
- The project was initiated at the request of Hydro Ottawa to increase the capacity of the transmission system in central Ottawa to power homes and businesses.





Area Electricity Demand

The proposed project will maintain a reliable supply of power to the following Transformer Stations (TS), areas and end-users.

Overbrook TS

- Vanier Community
- Montfort Hospital
- St. Laurent Mall

King Edward TS

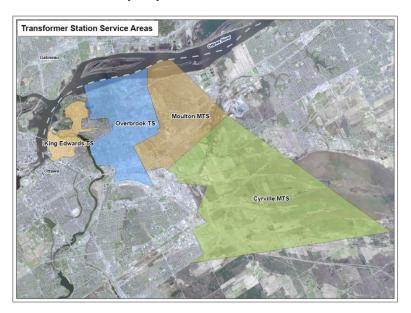
- Sandy Hill Community
- The Market
- University of Ottawa
- Rockcliffe Park

Moulton Municipal TS

- Community of Rothwell Heights
- Gloucester Centre
- Industrial and commercial area along Ogilvie Road

Cyrville Municipal TS

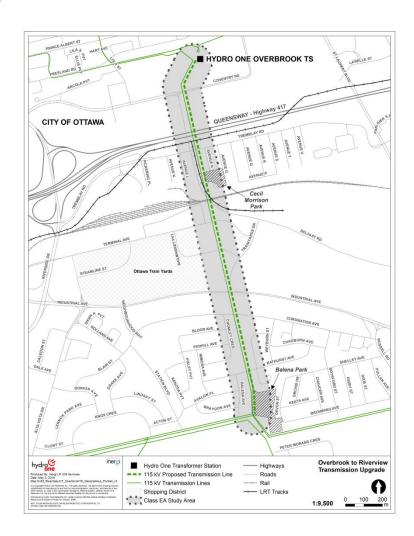
- Cyrville Community
- Ottawa-Carleton Detention Centre
- Industrial and commercial area along Innes Road





Project Details

- Add a second 115 kilovolt (kV) transmission circuit between Hydro One's Overbrook Transformer Station and Balena Park.
- Replace seven of the nine existing steel lattice and wood Hframe transmission towers with steel poles
- Replace the 2-pole structure adjacent to Overbrook TS with three sets of tapping structures.



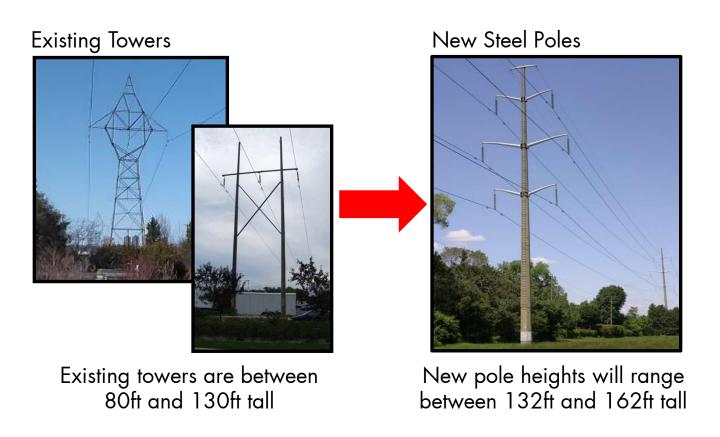


Project Evolution

ACTIVITY	TARGET TIMELINE
The IESO released its <i>Integrated Regional Resource Plan</i> (IRRP) for the Ottawa Area.	April 28, 2015
Hydro One conducted a Class Environmental Assessment (EA) for the project	June 2016 – April 201 <i>7</i>
Hydro One planning for construction (i.e. negotiating easement rights, undertaking detailed engineering, obtaining permits, and contracting for services and materials)	Spring 2017
Hydro One hosts pre-construction PICs	July 17 and 18, 2017
Hydro One hosts a corridor tour	July 18, 2017
Construction start date	Summer 201 <i>7</i>
Construction completion and corridor restoration	Spring 2018
Planned in-service date	Spring 2019



What the new structures will look like

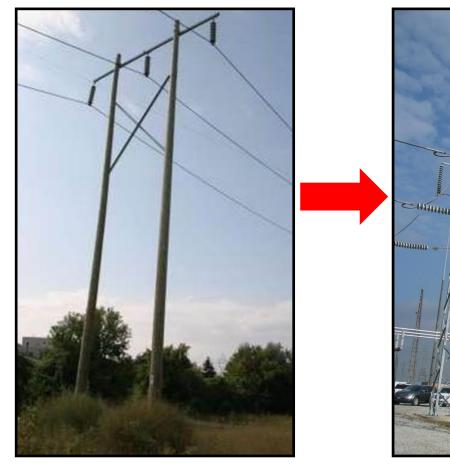




What the new tapping structures will look like adjacent to Overbrook TS



New Tapping Structures







Construction Process

- **Step 1:** Remove vegetation and install temporary access roads and work pads in the construction zone and establish laydown areas
- **Step 2:** Mobilize equipment and install foundations at the new pole locations
- **Step 3:** Install temporary wood poles at road crossings as a safety barrier when relocating and stringing the new conductor (wires)
- **Step 4:** Construct and erect new poles
- Step 5: Pull new wires on poles
- **Step 6:** Dismantle existing towers
- **Step 7:** Remove temporary wood poles, access roads and work pads
- **Step 8:** Restore the right-of-way



Examples of Construction Activities



Temporary access road



Pouring concrete for tower foundation



Set up laydown area



Pulling new conductor into position



Typical Construction Equipment



Bulldozers
To install temporary gravel road and working pads



Backhoe/Excavators
To install foundations for new poles



Cranes
To dismantle existing towers and erect new poles



Minimizing Construction and Project Effects

- Safety for our workers and the public is our top priority. Appropriate signage and flagging will be available to ensure public safety.
- Construction work areas will be temporarily blocked off and will not be accessible to the public for safety reasons
- Construction will be intermittent and it is expected that all work can be carried out within the existing right-of-way
- Construction hours will be between 7:00 a.m. and 5:30 p.m., Monday to Friday with occasional work on weekends
- Entrances to businesses in the Ottawa Train Yards will remain accessible throughout construction
- Temporary lane restrictions will be necessary on Highway 417 to pull the new wires
- There are no power interruptions anticipated as a result of this project
- Hydro One will work with landowners and communities along the transmission right-of-way to minimize and mitigate disruption due to construction activities (noise, dust, traffic restrictions, etc.)



Restoration Plan

- Vegetation within the construction access and work areas will be removed from the right-of-way during the site preparation stage of construction.
- Grassed areas disturbed by construction will be re-seeded after construction activities are complete.
- Forestry crews will continue to maintain the right-of-way to ensure the safe and reliable transmission of electricity.



Remove temporary access road



Remove remaining crushed stone



Electric and Magnetic Fields (EMFs)

- EMFs are invisible forces that surround electrical equipment, power cords and power lines. You cannot see or feel EMFs.
- Every time you use electricity and electrical appliances, you are exposed to EMFs at extremely low frequencies.
 EMFs produced by both power lines and use of electrical appliances, belong to this category.
- EMFs are strongest when close to the source. As you
 move away from the source, the strength of the fields fade
 rapidly.



Health Canada's Position on EMFs

- There is no compelling scientific evidence that EMF in living and school environments, regardless of locations from power transmission lines, cause ill health such as cancer. This position is consistent with the other opinions from most national and international scientific bodies.¹
- You do not need to take action regarding daily exposures to electric and magnetic fields at extremely low frequencies. Health Canada does not consider guidelines for the Canadian public necessary because the scientific evidence is not strong enough to conclude that exposure cause health problems for the public.²

Sources:

2)Health Canada Fact sheet – Electronic and Magnetic Fields At Extremely Low Frequencies (January 2010)

^{1)Health} Canada submission to the British Columbia Environmental Assessment Office on the Vancouver Island Transmission Reinforcement Project; 2006



Thank you for coming

If you have any questions during construction please contact Hydro One Community Relations at 1-877-345-6799 or email Community.Relations@HydroOne.com

For additional project information please visit www.HydroOne.com/Projects/OverbrooktoRiverview