

# Info Sheet: Proposed Local Infrastructure

City of Guelph

November 2019

## One Traction Power Substation and a Hydro One Tap

One Traction Power Substation (TPS) and a Hydro One Tap are proposed in the City of Guelph (see the map below).

**A TPS** is a power supply component of the electrified system. The proposed TPS will transform the utility supply voltage of 230 kV to 2 x 25 kV along the Overhead Contact System (OCS) for distribution to the electric trains along the rail corridor.

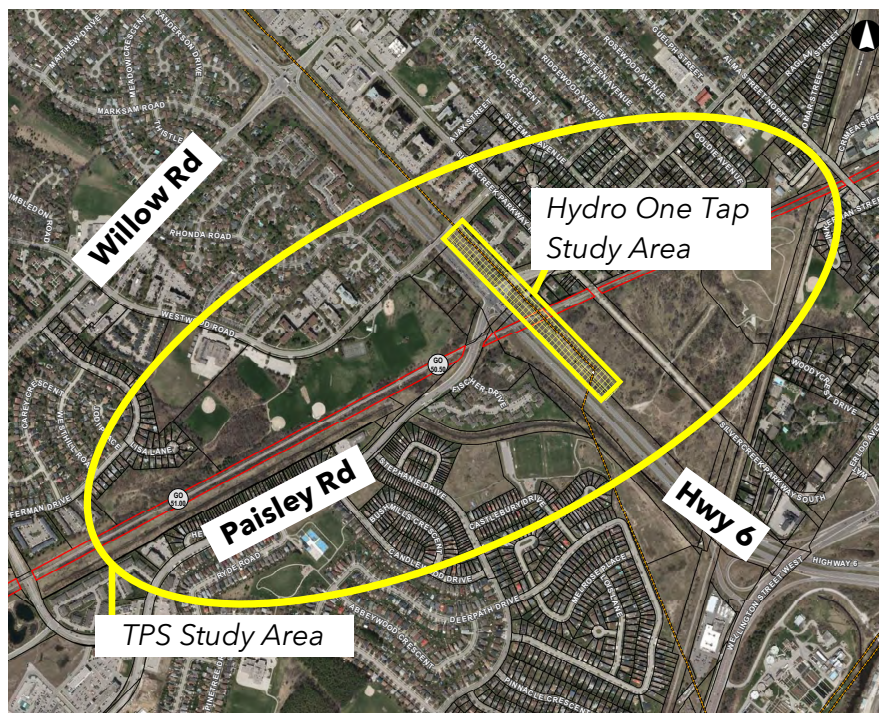
**A Hydro One tap** is a power supply component of the electrified system. It is a point at which electric power is “tapped” from the existing Hydro One power sources. One new 230 kV Hydro One Tap connection is proposed in the area. Metrolinx is coordinating with Hydro One on the potential Tap location site.



Example TPS



Example Tap Structures



Map of TPS & Hydro One Tap Study Areas

### How will Metrolinx identify the TPS location?

- Step 1** Review results of previously completed studies and power simulation modelling
- Step 2** Identify potential alternative TPS sites
- Step 3** Assess and evaluate alternative sites
  - 3a** Develop and apply evaluation criteria
  - 3b** Identify preliminarily recommended TPS sites
  - 3c** Elicit input on the recommended sites
- Step 4** Confirm the recommended TPS site