

# Hydro One Networks

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## Holland TS and Holland DS

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- **Construction**
- **Working with King Township**
- **Next Steps**

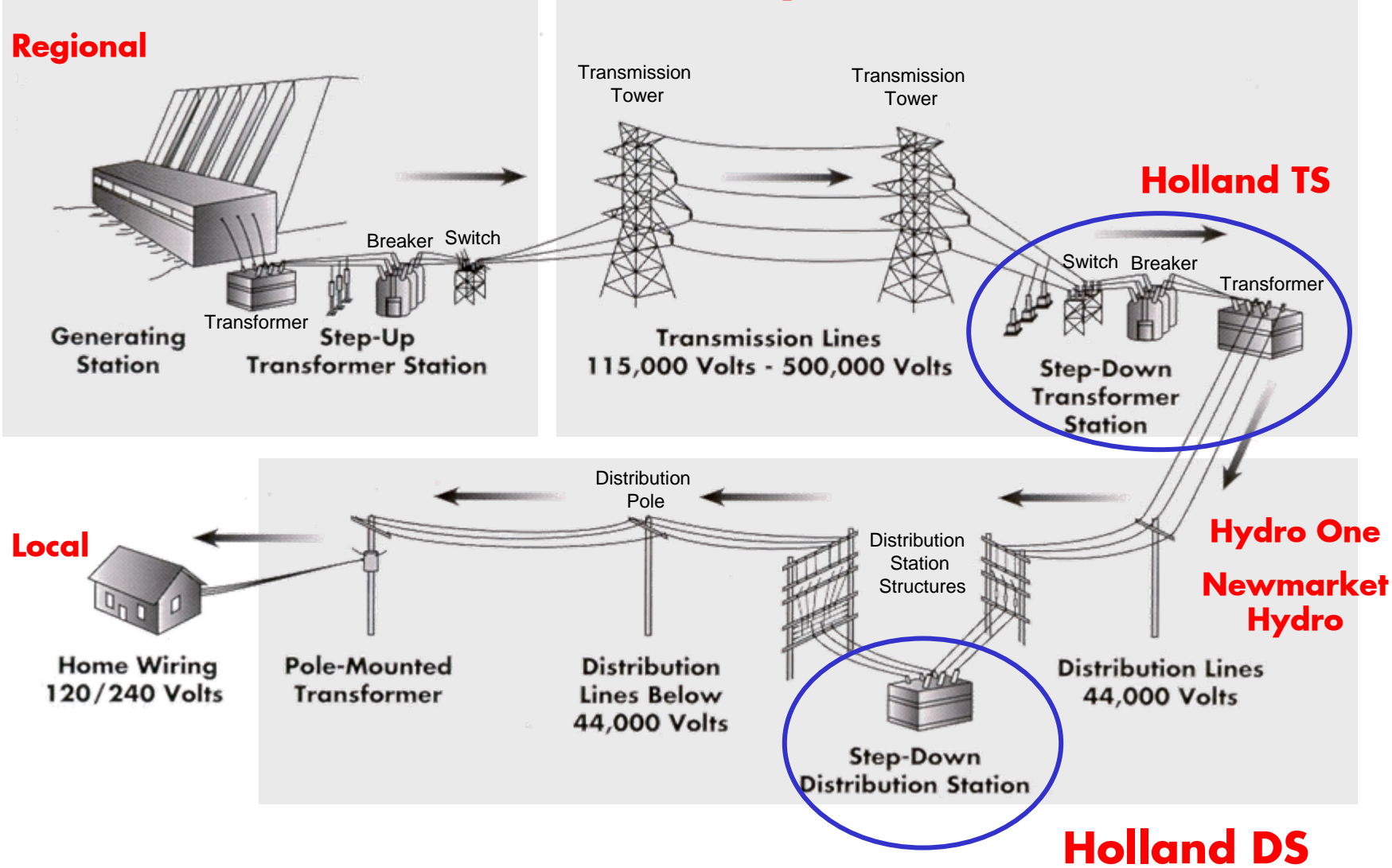


# Our Objectives for Session

- Provide overview of Holland TS and DS construction plans
  - New station and distribution lines
  - Ministry of the Environment Conditions
  - Landscaping plans
- Answer your questions
  - Identify issues and concerns and continue to work with your staff and community

# Overview of the electric power system

## Hydro One Transmission



# Ontario Energy Board Directive to Hydro One:

The Ontario Energy Board has ordered:

“The York Region Utilities and Hydro One Networks Inc. (Transmission) proceed, as soon as possible, with the implementation of the Holland Junction transformer station, the installation of distribution feeders... and the installation of the static capacitors at this station as set out in the OPA’s report – Phase I dated September 30, 2005.”

# Holland Distribution Station (DS)

- Immediate need for new station in King Twp
  - Schomberg DS is overloaded and the area is expected to continue to grow
  - Serves 35% of King's electricity load
  - In-service Spring 2007
- Benefits of new station for King Twp
  - Improved reliability and back-up supply for Schomberg area
  - Allows for future growth
  - Long-term solution for northern King Twp

# The Project

- Electricity demand in northern York Region is growing by more than 3% per year.
- The station will improve reliability of electricity supply to customers in the Newmarket, Aurora, King Township, East Gwillimbury and Bradford/West Gwillimbury areas

# Typical Transformer Station



- *Size* - about one hectare (2 acres)
- *Landscaping*
  - Used to minimize visual impact
- *Noise Control*
- *Equipment*
  - two 230-44kV transformers, 44 kV switching facilities, two capacitor banks and 44 kV distribution lines

# Typical Distribution Station



# Pad-Mount DS Design



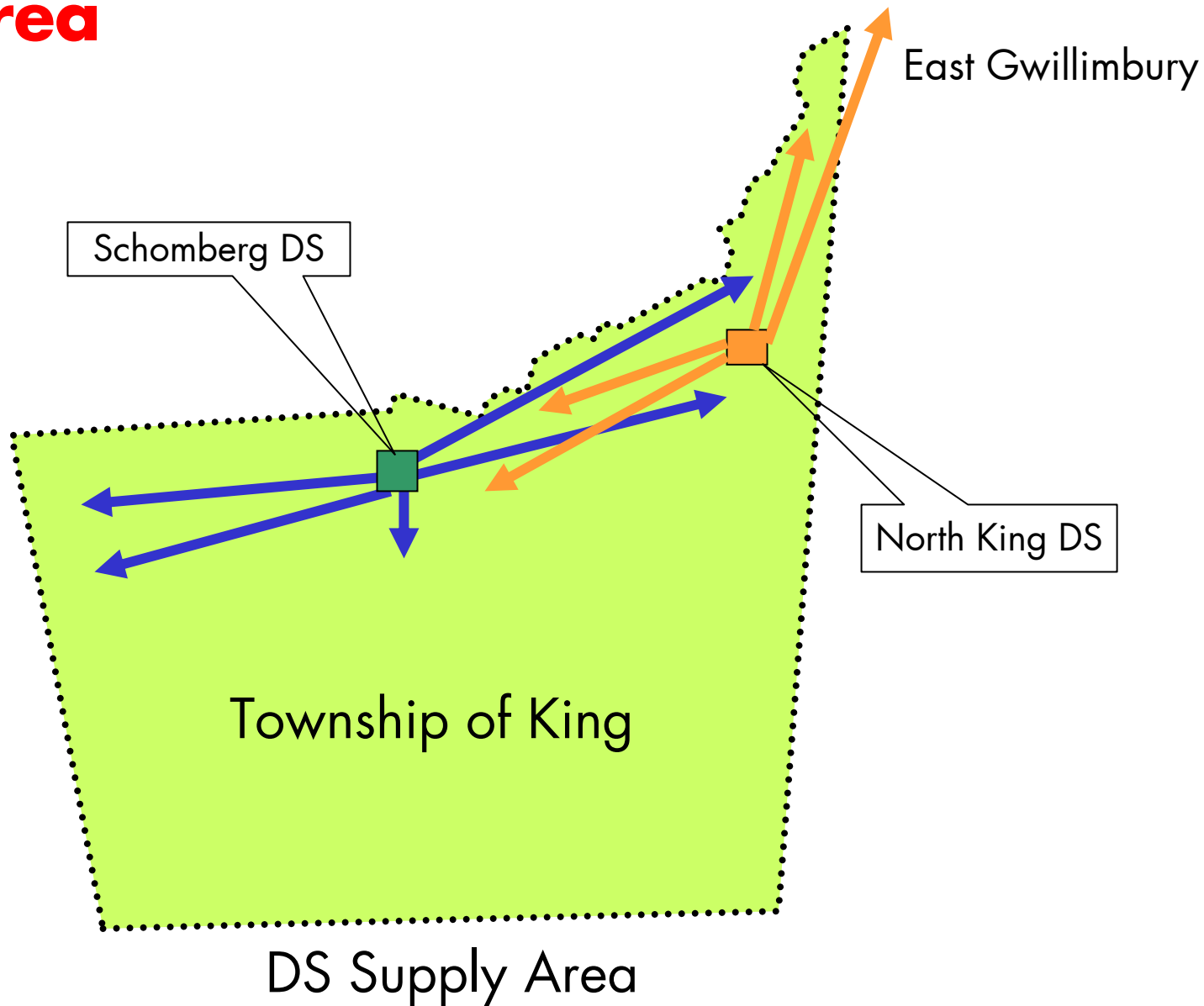
# Benefits to Starting Construction in February

- Frozen Ground
- Avoids Half-Load Restrictions
- May 2009 in-service

# Construction Details

- Typical hours of construction are Monday to Friday, 7 a.m. to 5 p.m.
- If required, work may occur beyond these days and hours.
- Construction crews will access the side travelling on Bathurst Street to Miller's Side Road.
- Occasionally, crews will travel on Dufferin Street between Miller's Side Road and King Street.

# Schomberg DS and North King DS Supply Area



# Next Steps: Holland DS

- Hydro One to move forward on approvals and construction for Holland DS
  - We will build the TS and the DS concurrently
  - Currently undertaking a study on noise to amend the current C of A to include the DS
  - The final location of the DS will be adjacent the TS

# Station Entrance

PANORAMIC VIEW LOOKING NORTH from MILLER ROAD

VISUAL SIMULATION



EXISTING CONDITIONS



TRANSFORMER STATION



PROPOSED ENTRANCE LANDSCAPE

## HOLLAND TRANSFORMER STATION

January 2008

# Distribution Lines from Holland TS

- Hydro One and Newmarket Hydro are committed to minimizing the “tunnel” effect of new lines on the community
  - Will make best use of existing infrastructure
    - Use existing poles where possible
    - Upgrade poles where possible
- 8 distribution circuits will exit station
  - Four to serve Hydro One customers
    - 2 supply Bradford/West Gwillimbury
    - 2 supply East Gwillimbury
  - Four will serve Newmarket Hydro customers

# Status of Conditions from the Ministry of the Environment

- Stormwater Management
- Noise
- Landscaping and Mitigation Measures
- Archaeology

# Egress Lines

# Public Consultation

- Meetings with municipal and regional staff, key stakeholder groups, elected official, and provincial government ministries and agencies
- Public Information Centres in King and East Gwillimbury
- Newspaper ad running in *King Township Sentinel* and *Newmarket Era Banner* on 5 days
- Direct mail to potentially affected homeowners and businesses in study area
  - Worked with King and East Gwillimbury planning departments to develop mailing list
- Web site

# Holland TS Schedule

Jan 2006	Meetings with municipalities, LDC, stakeholders
Feb 2006	Public Information Centre #1 (present alternative sites)
Feb/March 2006	Evaluate sites (consider stakeholder input)
April 2006	Public Information Centre #2 (present preferred site)
Sept 2007	Class EA approval with conditions
Winter 08	Begin construction
Spring 09	Station in-service (Holland DS to follow)

# Tentative Construction Schedule

- Begin Construction February 2008
- Surface grounding, foundation February 2008
- Install Transformers August 2008
- Erect Towers September 2008
- String Lines October 2008
- Facility Testing Winter 2008
- Planned in-service date May 2009

# Next Steps

- North King DS
  - Council agreement in principle to move forward with DS site
    - Critical infrastructure for Township
  - Begin work on lease agreement and C of A amendment
  - Hydro One committed to working with municipality to address any concerns with DS location and lines
- Holland TS
  - Continue to work with municipality to review sites and address community concerns about new station and distribution lines
  - Continue to work with LDCs (Newmarket Hydro and PowerStream) to minimize impact of new lines