

# Hydro One Networks Inc: System Development

A presentation to the IEEE, Toronto Section

by

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Transmission System Development

Hydro One Networks Inc.

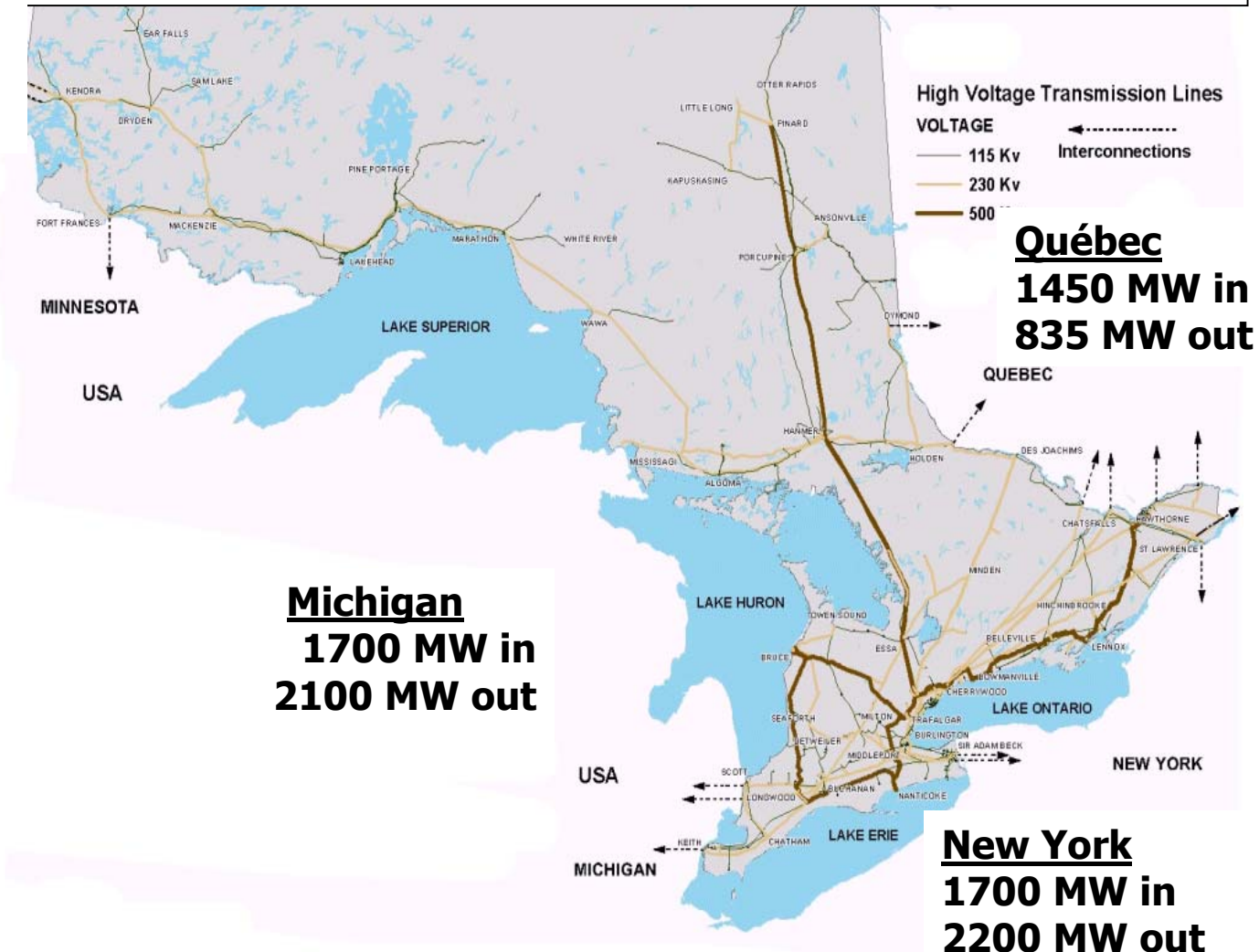
October 3, 2003



# Interconnections

**Manitoba**  
324 MW in  
275 MW out

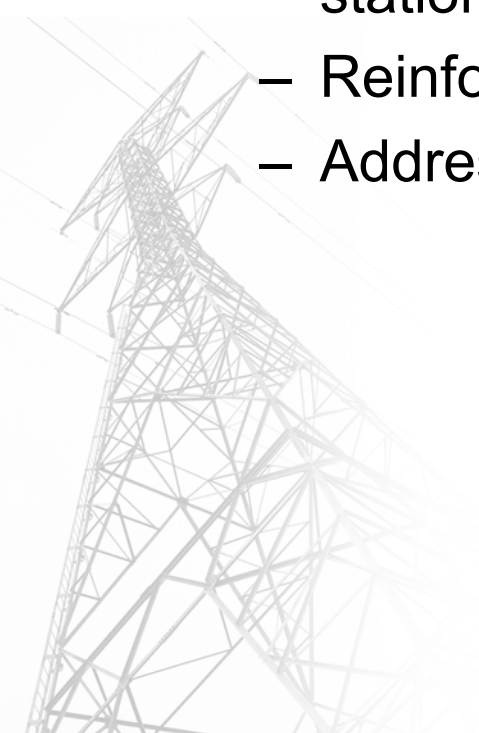
**Minnesota**  
90 MW in  
140 MW out



**Hydro One Networks' System**

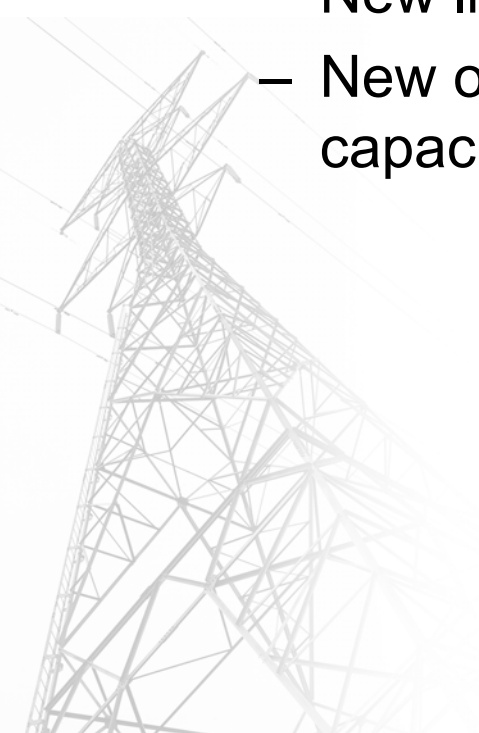
# Transmission Investments

- Performance improvement & Risk mitigation
  - Improve delivery performance (line surge arresters)
  - reduce risk of high impact low probability (old indoor stations)
  - Reinforce transmission line structure (wind & ice loading)
  - Address non-standard equipment and configurations



# Transmission Investments

- Area supply
  - Maintains supply reliability of load pockets with increasing demand (e.g. Ottawa, GTA and Waterloo Region)
  - New line or upgrades
  - New or higher 500-230kV or 230-115kV transformer capacity



# Transmission Investments

- Facilitates market efficiency
  - Increase **internal interface** capability to reduce transmission congestion (East-West tie)
  - Increase **interconnection** capability to provide competition in the electricity market and resource adequacy (Quebec, Manitoba)



# Transmission Investments

- Increase load supply capacity
  - New step-down TS
  - Larger capacity transformers
  - Additional low voltage feeders

