

Quebec Emergency – Dec. 4, 2014

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Control Room Support

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Agenda

- Description of the event in Quebec on December 4, 2014 and the response in Ontario
- Overview of Emergency Energy
 - Standard Requirements
 - Agreements
 - Pricing treatment
- Summary of actions employed by Ontario

December 4, 2014

*Courtesy of TransÉnergie

The Hydro-Québec 735 kV system

1.

Loss of 2 lines feeding Chénier sub-station

2.

This event effectively limited flow into Montreal



Emergency Energy

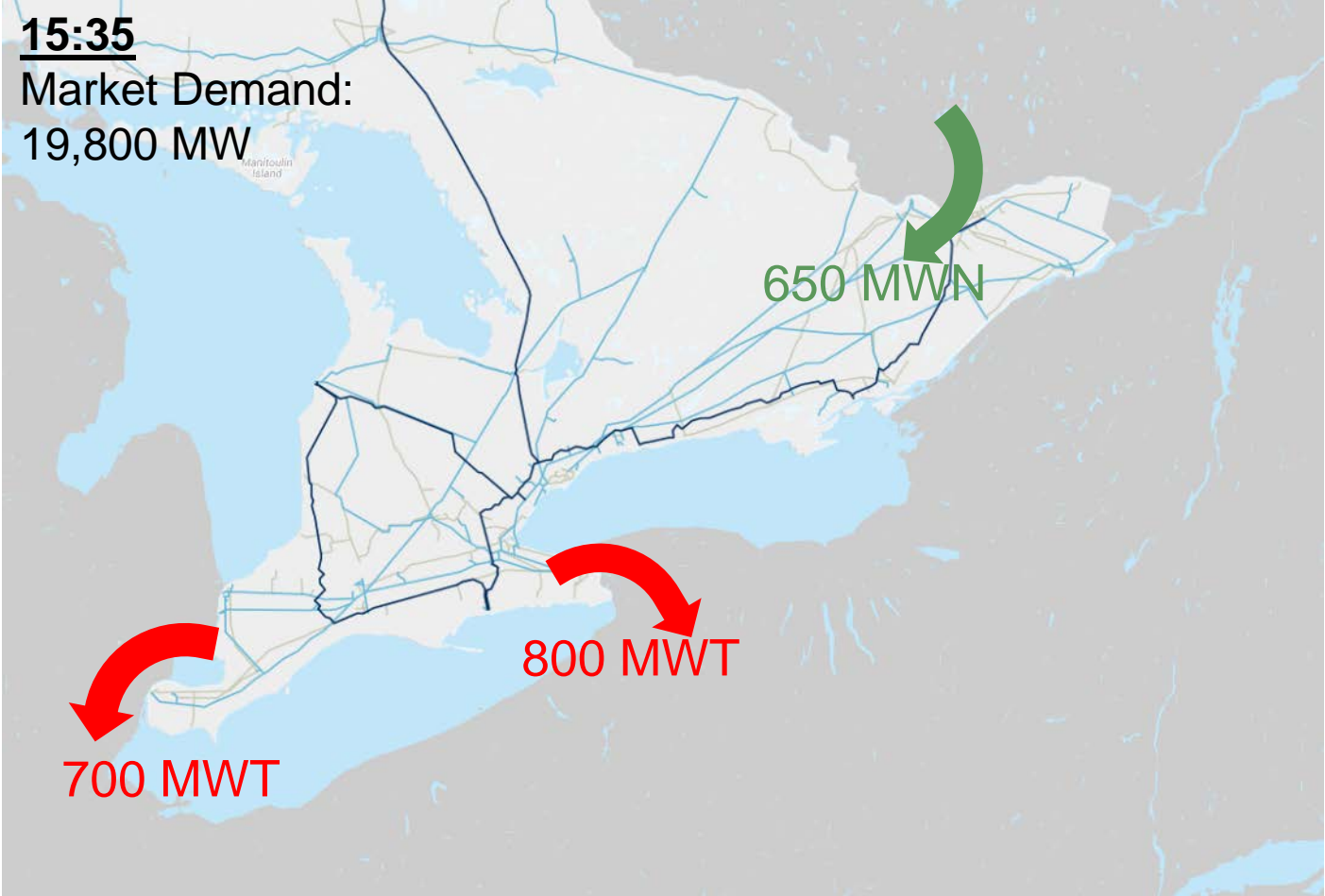
Standard Requirement (NERC EOP-001):

- Balancing Authorities shall have operating agreements with adjacent Balancing Authorities that shall, at a minimum, contain provisions for emergency assistance, including provisions to obtain emergency assistance from remote Balancing Authorities.

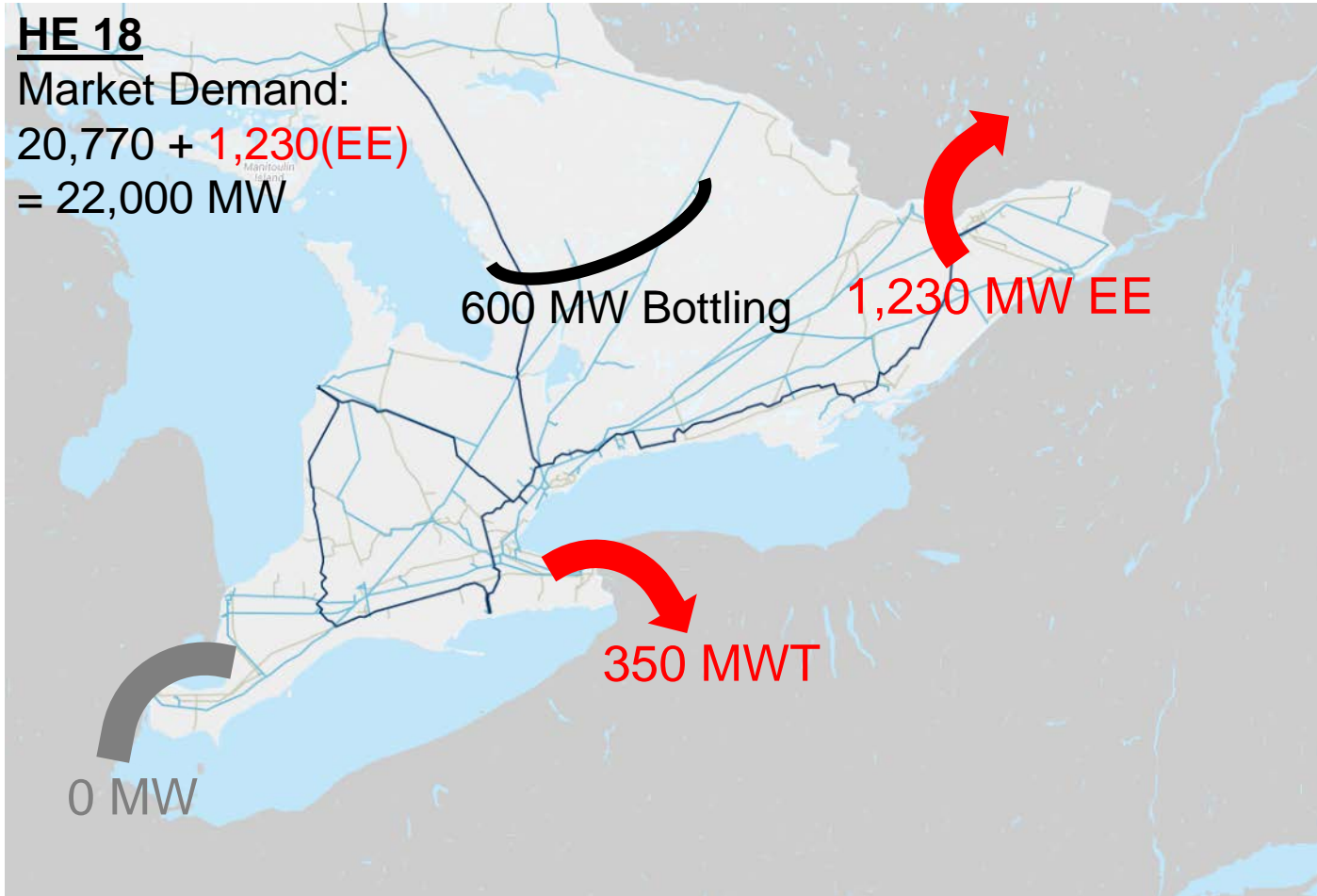
Agreements:

- Confidential between Balancing Authorities
- Costs or revenues socialized through uplift

Prior to Event



Peak Conditions



Summary of Ontario Actions

- Ontario supplied up to 1230MW of Emergency Energy over 4 hours (for a total value of 3,840MWh)
- Recalled transmission outage in Eastern Ontario
- SSR stating that we were opening the mandatory window to allow for more bids and offers
- Export Curtailments for Adequacy