

MARCH 31, 2021

Southwest Network Information Session: Electricity Planning West of London

Terry Young

Interim President and CEO

Megan Lund

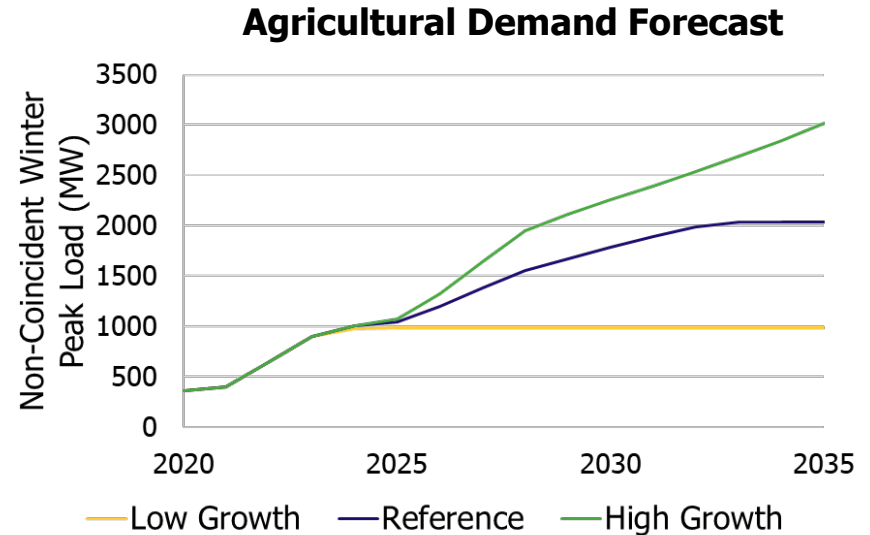
Manager, Transmission Planning

Today's Objectives

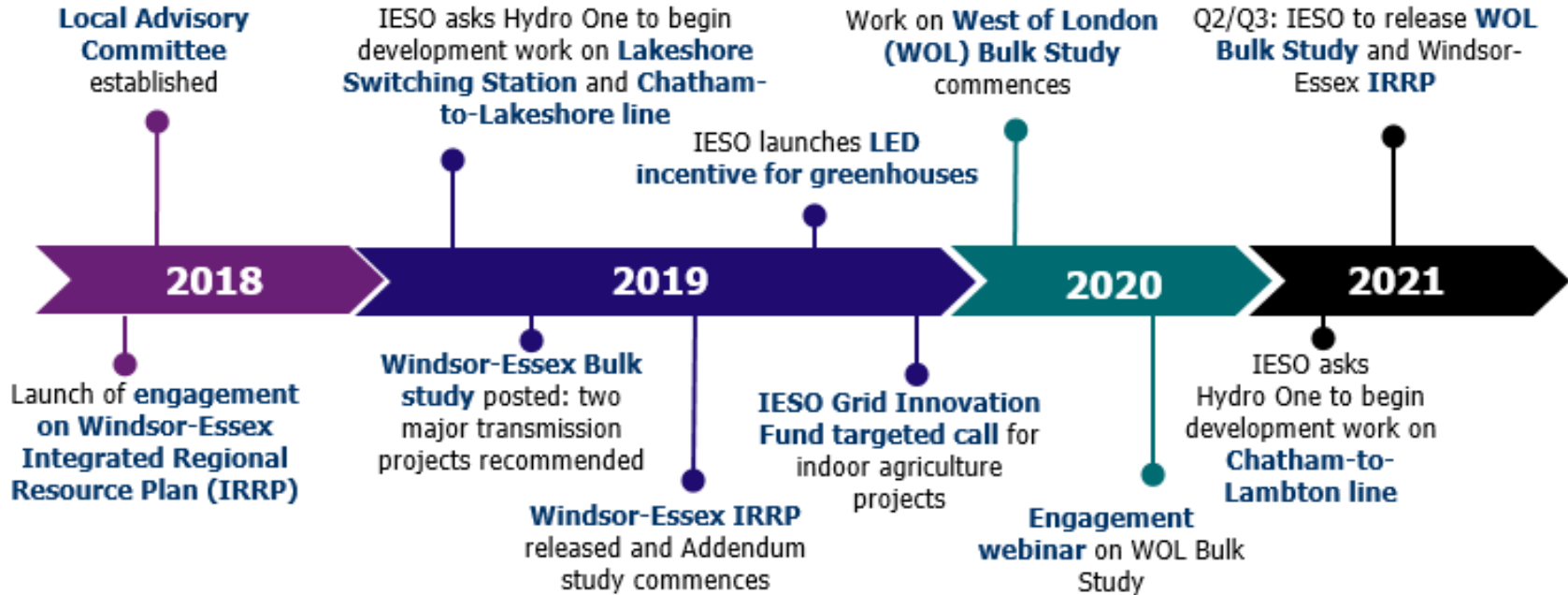
- Provide an overview of Lambton-to-Chatham transmission line recommended by the IESO to support sustained growth in Windsor-Essex, Chatham and surrounding areas
- Maintain ongoing engagement and dialogue with southwestern Ontario communities and stakeholders and address your questions
- Outline next steps in electricity planning in the area

Addressing Rapid Growth in Indoor Agriculture

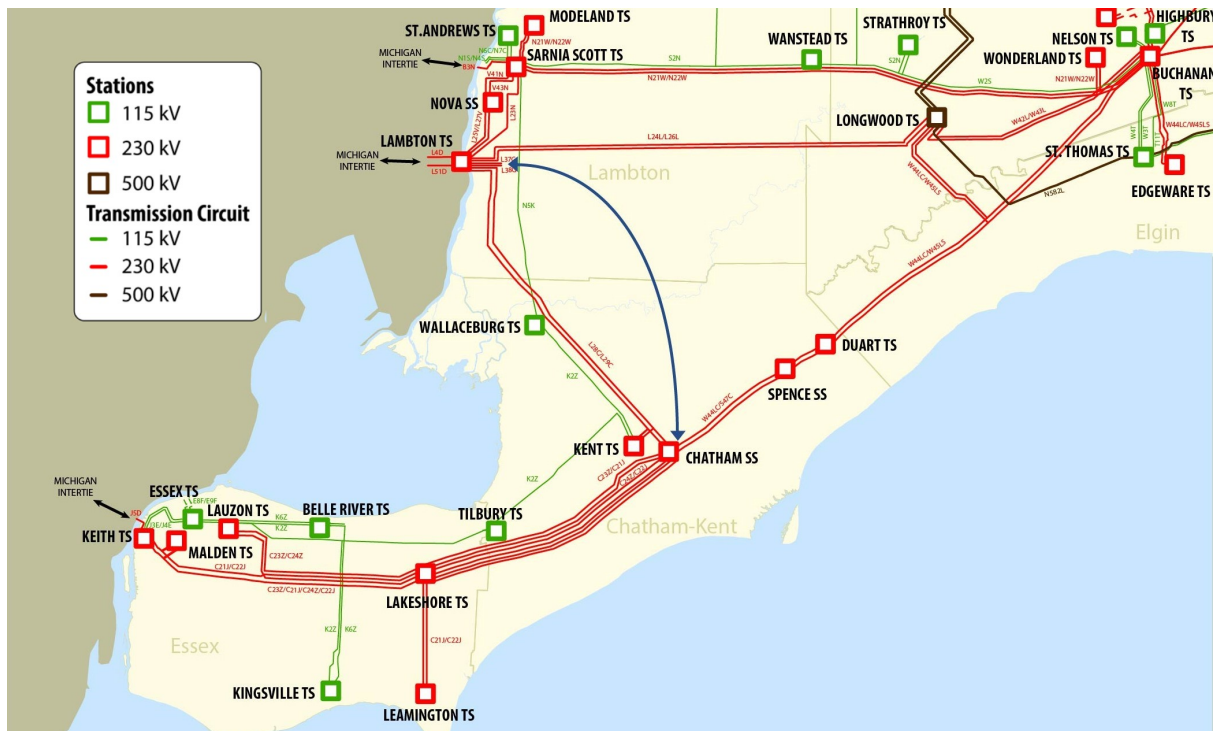
- Electricity demand in Windsor-Essex and Chatham areas increasing rapidly as a result of growth in agricultural sector
 - Vegetable greenhouses primary driver
 - Increase in cannabis facilities also a factor
- Agricultural demand expected to grow from 500 MW to 2,000 MW by 2035 – (equivalent to meeting annual demand for a city the size of Ottawa)



Electricity Initiatives in Southwestern Ontario



New Transmission Line from Lambton to Chatham



Project Rationale and Benefits

- New Lambton-to-Chatham transmission line and associated station facility expansions or upgrades at terminal stations will meet future needs
- Solution is most cost-effective next step to supplying increasing demand and enabling additional benefits:
 - Improved system operability
 - More efficient operation of existing generation resources



The IESO recommends Hydro One develop this new line by Q4 2028, ensuring sufficient transmission capability east of Chatham to supply the Chatham and Windsor-Essex areas

Working with Communities to Drive Integrated Solutions

Planning Studies and Engagement

Windsor-Essex IRRP

West of London Bulk study

Southwest Network discussions

Specialized Studies

Greenhouse Energy Profile Study

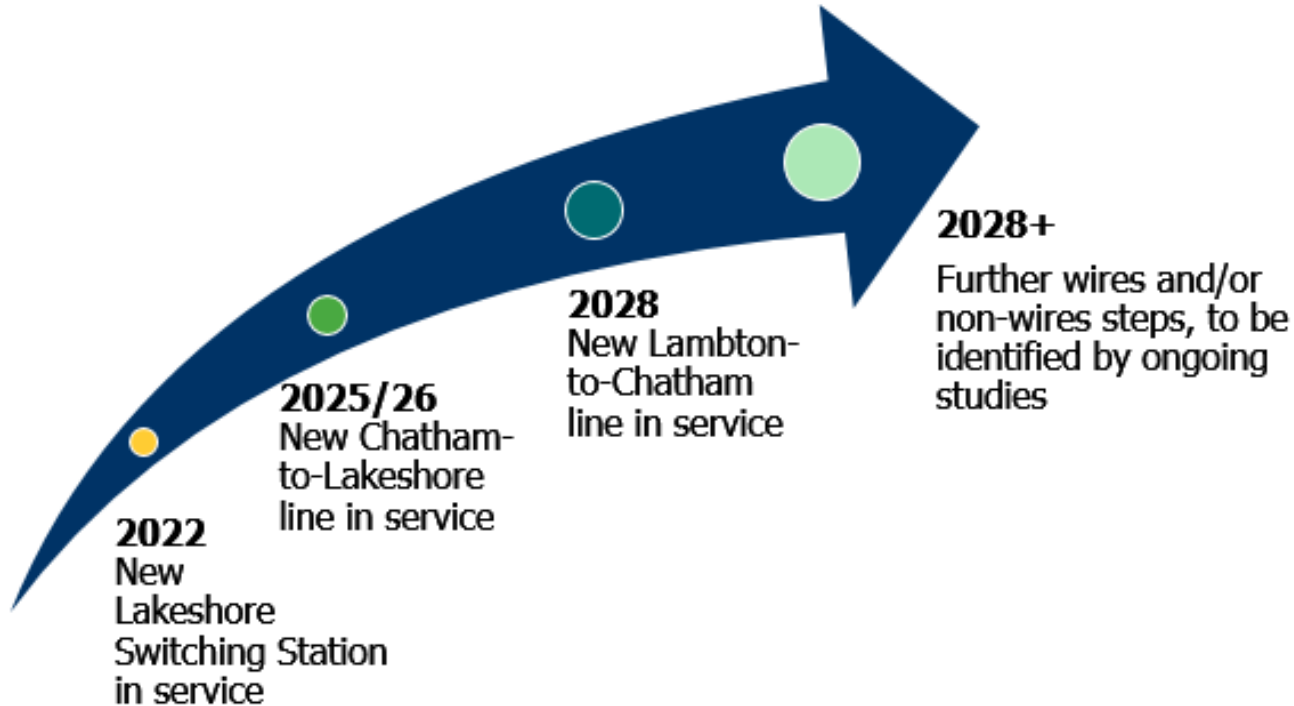
Cannabis Energy Efficiency Opportunities Study – coming soon

Non-Wires Solutions

Grid Innovation Fund: Call for innovative indoor agriculture projects

Energy-efficiency incentives for LED lighting projects

A Staged Approach to Supporting Local Growth



Looking Ahead

April 2021 Further engagement on electricity planning initiatives in West of London area

Q2/Q3 2021 West of London Bulk Study to be published

Q2/Q3 2021 Windsor-Essex IRRP Addendum to be published

Q3/Q4 2021 Regional electricity planning for Chatham-Kent/Lambton/Sarnia





Questions?

Submit your questions on the event page on
IESO Connects:

<https://iesoconnects.ca/SWWebinarTL>

Stay Involved

- Subscribe to receive updates on regional electricity planning:
ieso.ca/subscribe
- Join the Southwest Regional Network:
ieso.ca/regionalelectricitynetwork
- Participate in the ongoing dialogue on IESO Connects:
iesoconnects.ca
- Contact us at:
communityengagement@ieso.ca

