

IESO Role and Background East-West Tie Designation Process

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From the [Electricity Act](#):

- a. to enter into agreements with transmitters giving the IESO authority to direct the operation of their transmission systems,
- b. to direct the operation and maintain the reliability of the IESO-controlled grid,
- c. to operate the IESO-administered markets,
- d. to establish and enforce standards and criteria relating to the reliability of transmission systems

IESO Role in the E-W Tie Project

- a. Identify the facilities and connectivity required to satisfy the planned transfer capability for the project,
- b. Provide information to potential applicants and the Board,
- c. Support the OEB in the designation process,
- d. Work with the Designated and Incumbent transmitters in the design and implementation phases to achieve the required grid performance while satisfying Market Rules and reliability standards.

The design of the project must achieve the planned performance, e.g. transfer capability, while satisfying all applicable reliability requirements: rules, standards, and criteria, primarily:

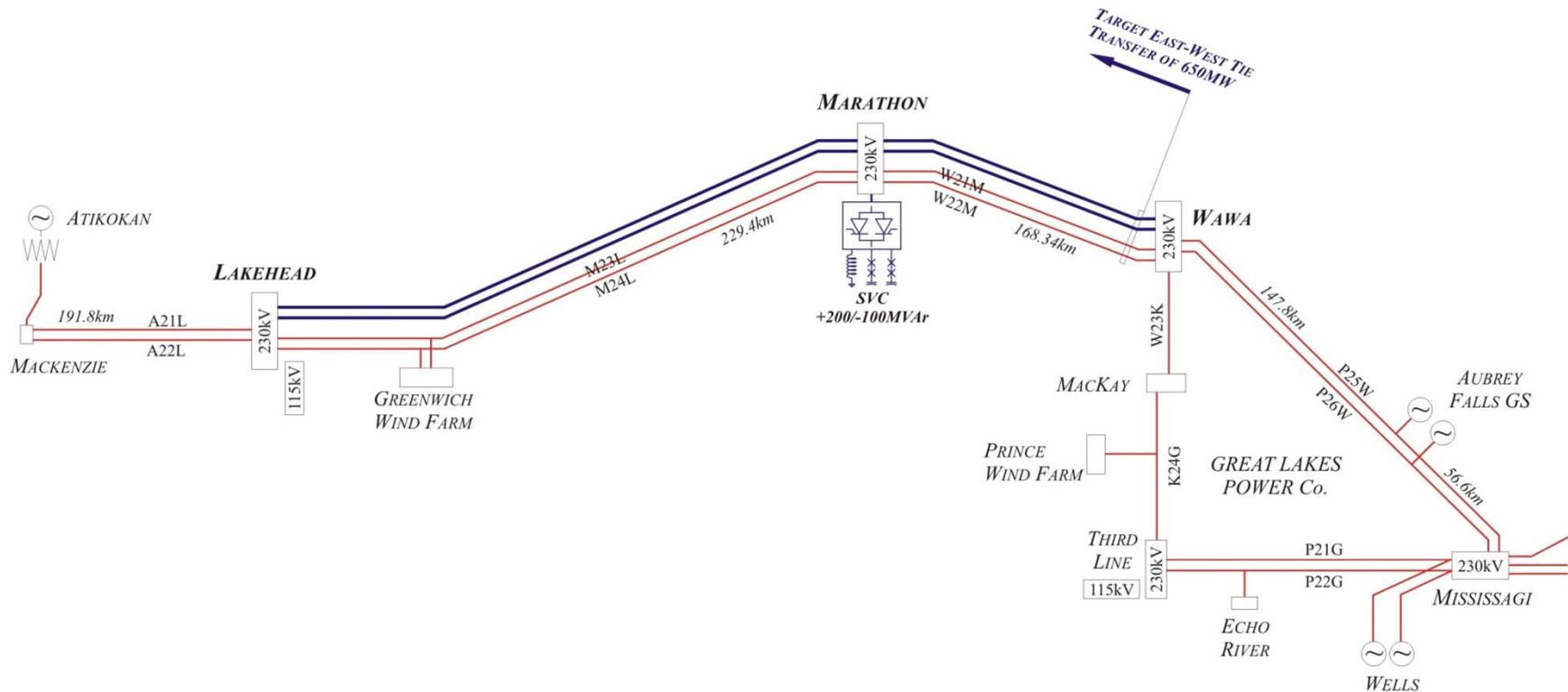
- Chapter 4 of the market rules,
- Ontario Resource and Transmission Assessment Criteria
- NERC Transmission Planning Standards: TPL-001-2
- NPCC Directory 1 Design and Operation of the Bulk Power System

IESO Connection Process

IESO, in collaboration with the incumbent transmitter, can investigate options for connection applicants via feasibility studies. How options will be proposed, studied, and assessed (or ranked) is to be defined as part of the designation process.

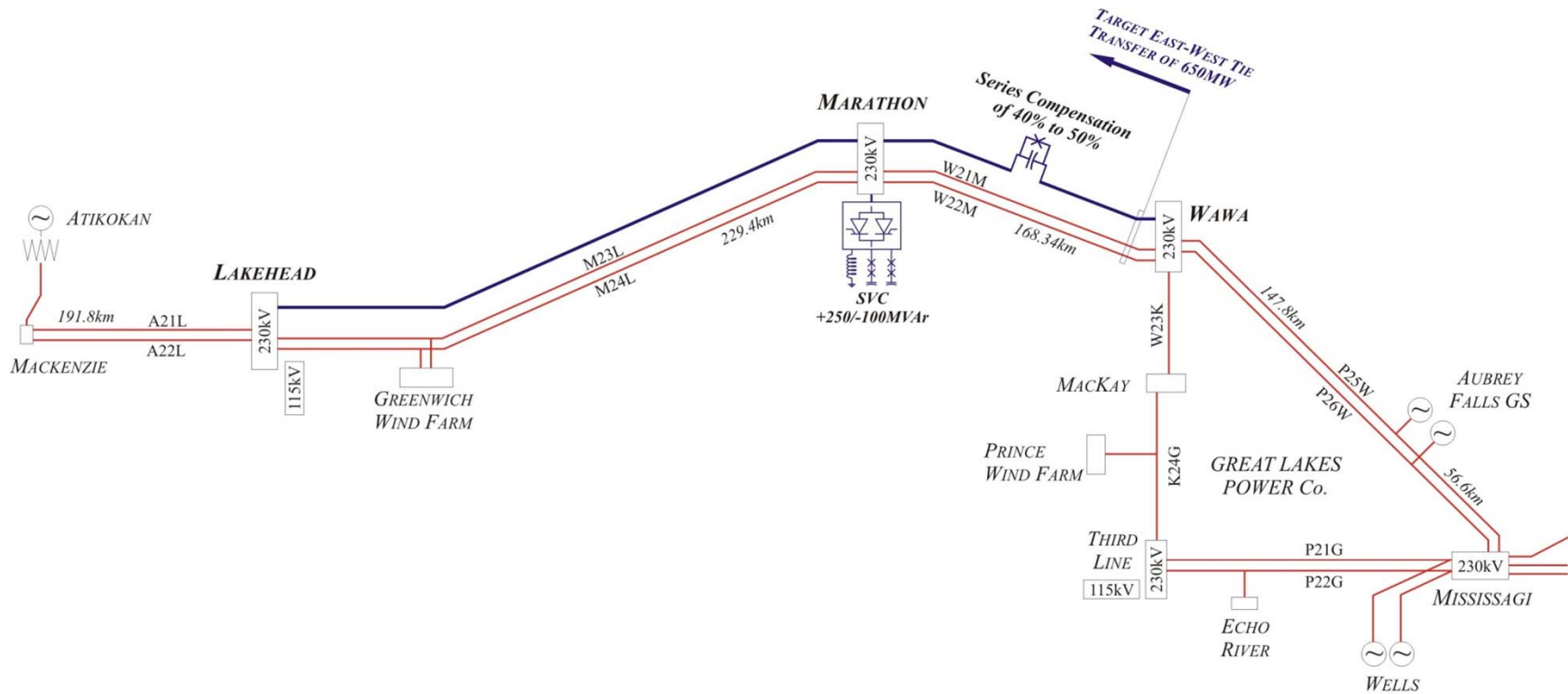
After a specific transmitter and proposal is selected, the IESO will work with the transmitter(s), via a System Impact Assessment, to prepare the evidence for approvals.

The as-built project must be registered with the IESO – the design requirements are confirmed at this stage.



KEY
 — Existing
 — Proposed

East-West Tie Reinforcement: Reference Case with new Double-circuit 230kV Lines



KEY
 — Existing
 — Proposed

East-West Tie Reinforcement: Alternative Case with new Single-circuit 230kV Lines

Thank you

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