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Planning the Energy Transition: Global Perspectives

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About the IESO



Operate Ontario's province-wide electricity system on a 24/7 basis



Support innovation and emerging technologies



Oversee the electricity market, driving competition to maintain affordability



Work closely with communities to explore sustainable options



Plan for Ontario's future energy needs



Enable province-wide energy conservation

Electricity Planning in Ontario

Bulk System Planning

Addresses provincial electricity system needs and policy directions

Regional Planning & Community Engagement

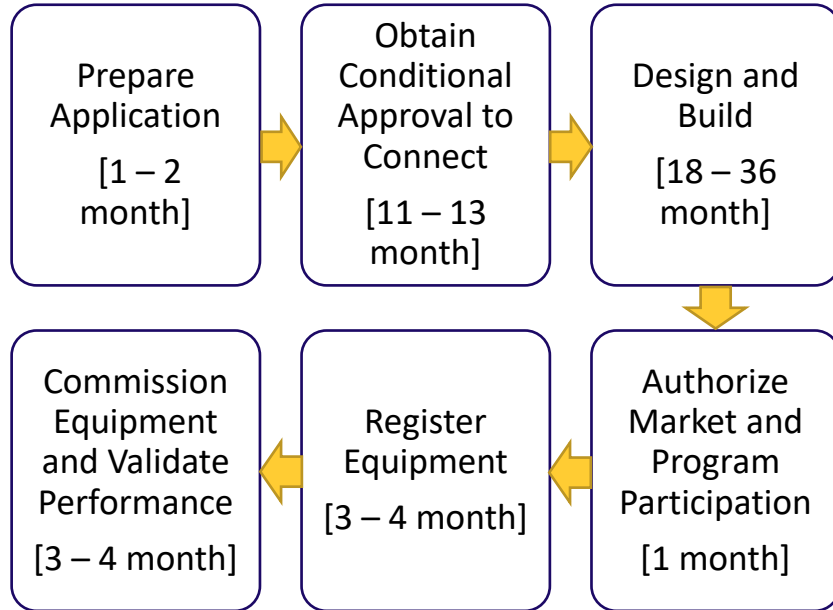
Integrates local electricity priorities with provincial policy directions and system needs

Distribution Network Planning

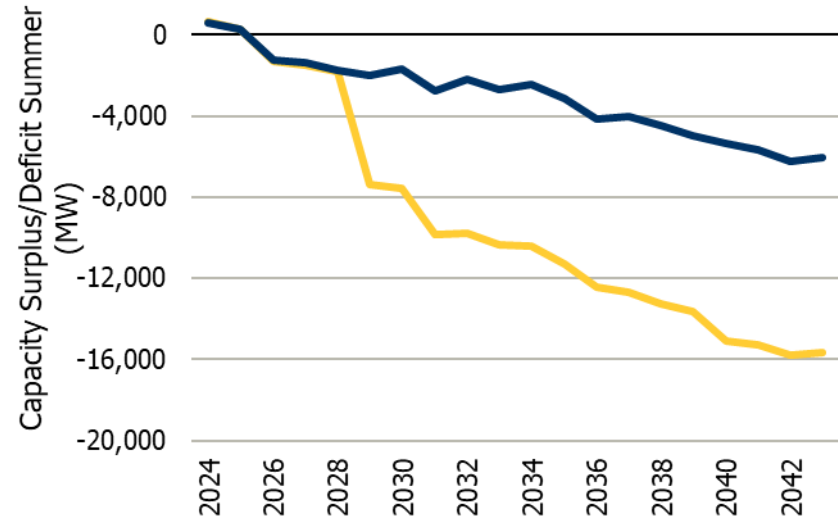
Examines local electricity system needs and priorities at community level

System Planning and other IESO Processes

Connection Approval Process



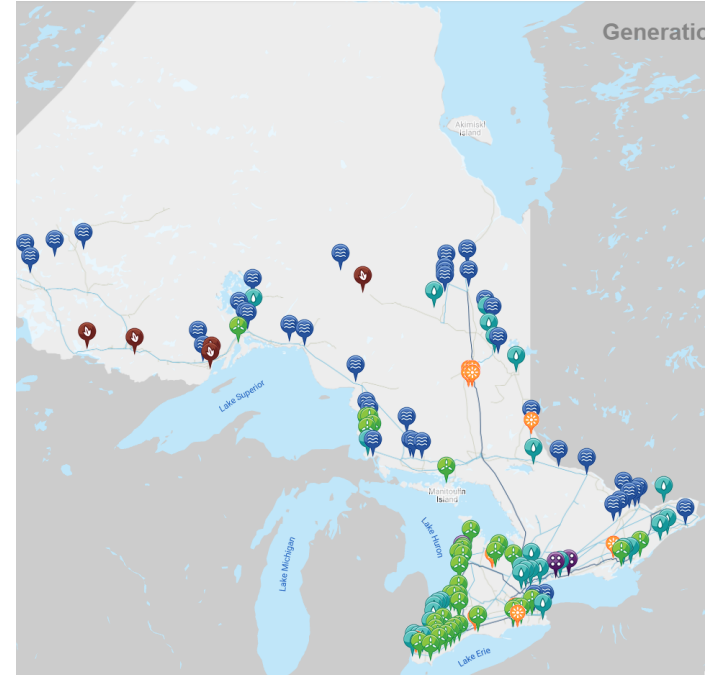
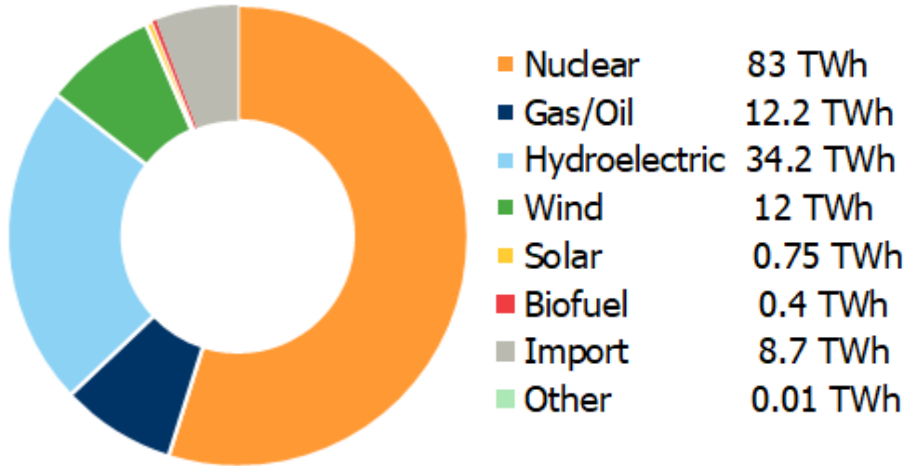
Resource Acquisitions & Deliverability



Ontario's Supply and Demand

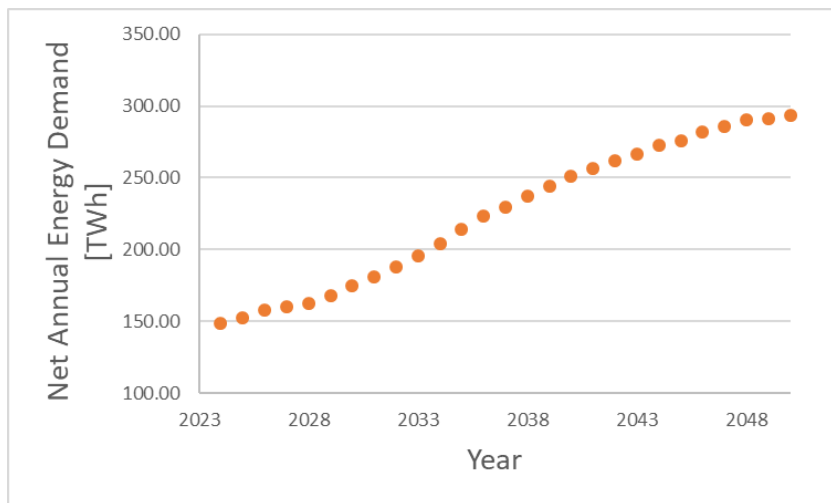
- Peak Demand 22,986 MW (on August 24, 2021)
- Energy demand ~134 TWh

Energy Output (TWh) in 2021

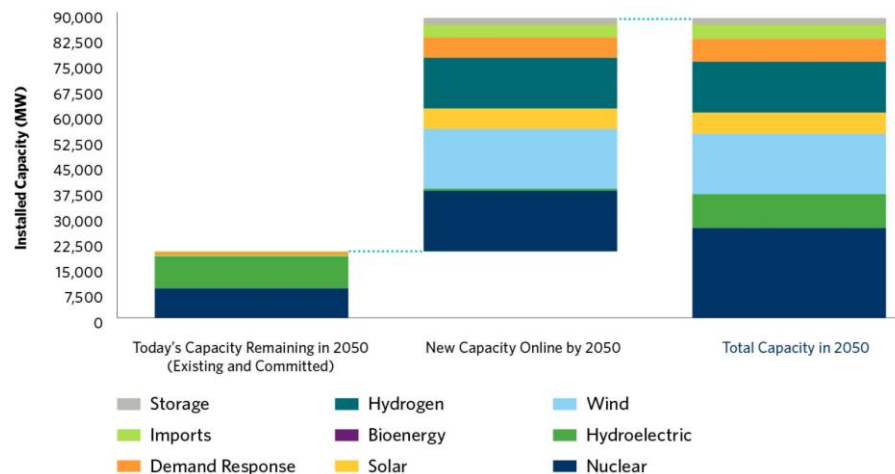


Planning for the Energy Transition

Energy Demand (P2D Study)



2050 Supply Mix (P2D Study)



Thank You

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