
Central Ontario/GTA regional planning update

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Regional planning

- Seeks to align electricity system planning with local plans
- Focuses on opportunities for coordination
- A new cycle of regional plans is underway in Toronto; GTA East (complete); GTA North; GTA West; and South-Georgian Bay/Muskoka



Regional planning: First cycle

- Plans completed in 2015-2016
- Recommendations primarily infrastructure-based
- Actions were needed to address growth pressures
- Most projects are either in-service or being built



Regional planning: Present cycle

- Imminent growth pressures mostly addressed
- Community growth still continuing strong (expansion, intensification)
- Next wave of infrastructure needs in 2025+ time frame
- Plans seek to take advantage of time available to develop options

Key themes

- Opportunity to seek out a range of alternatives to address long term electricity requirements
- Wires and non-wires are options, e.g.:
 - Distributed energy, efficiency, energy storage
 - Transmission and distribution infrastructure
- Non-conventional solutions will need action from the community and evolutionary changes in planning

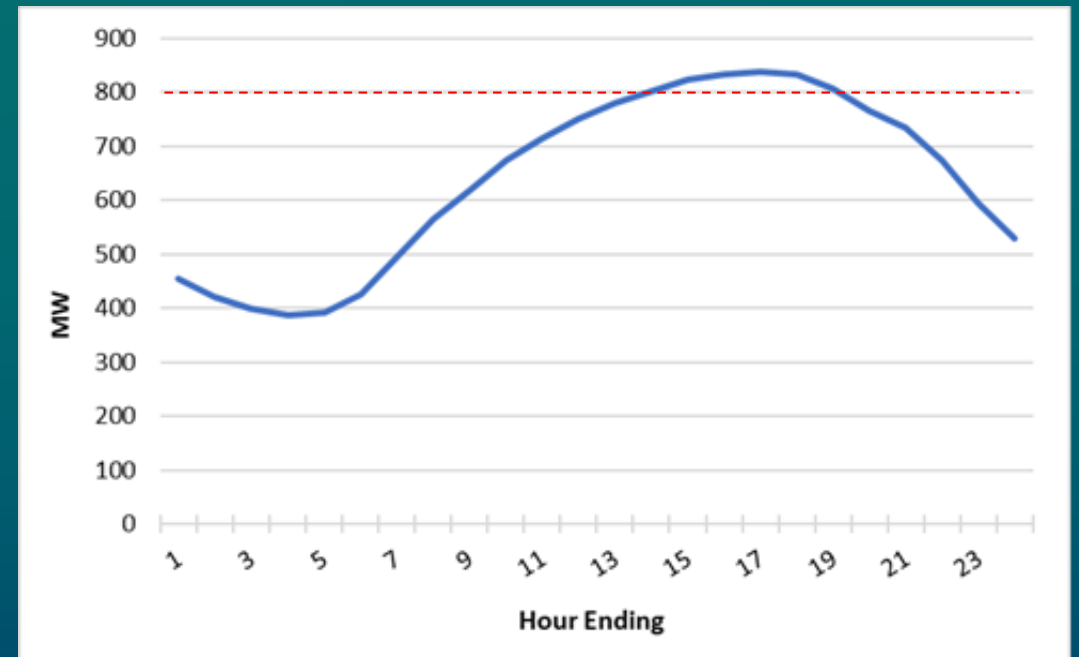
Planning approach for non-wires

- Scope of possible options is forcing a fundamental change in how we define power system needs
- A typical peak demand forecast:

Combined Station LTR (MW)	High-Growth Scenario 2019-2033 (MW)														
	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033
944	916	928	949	969	989	998	1011	1023	1035	1046	1056	1064	1070	1078	1094
485	459	463	473	481	490	494	502	509	515	520	527	533	536	540	547
765	695	709	731	752	772	782	797	812	824	834	845	853	860	868	884

Defining system needs

- From the peak demand to a demand profile
- Different profiles for
 - Commercial, residential
 - Electric vehicles
 - Space heating, etc.



Opportunities for non-wires

- Regional electricity plans can help define the value proposition for local solutions from the electricity ratepayers perspective
 - E.g., system value, local value for deferring wires investments
- Communities have a role too
 - What local benefits / customer benefits do these options bring?



Moving forward

- Continued engagement at the local level
 - Drivers impacting future electrical demand
 - Opportunities for local solutions
- Assess the value of local solutions to the electricity system, the local community, and to local customers



Thank you