

DRAFT FOR DISCUSSION

Outline of Proposed 2017 LTEP Modules (*IESO input pending*)

October 4, 2017

Purpose:

To provide readers with all of the figures and data tables contained in the 2017 Long-Term Energy Plan, as well as the electricity sector assumptions and analysis underpinning the facts and figures used in the development of the Plan. The anticipated release of the modules is mid-to-end November 2017.

Legislated Requirement:

Per S. 25.29 (7) of the *Electricity Act, 1998* on issuing the LTEP, the Ministry will also post or publish any other information, such as key data and cost projections, used in the development of the long-term energy plan that the Minister determines should be made publicly available.

Proposed Format for each Module:

- i. Deck containing figures and tables describing the assumptions and analysis, as well as any figures (PDF); and
- ii. Excel workbook containing the underlying data used in the LTEP document and deck (XLS).

Studies to be released:

- In addition to the modules, the following studies are to be released: Considerations for Deploying In-Front-of-the-Meter Conservation Technologies in Ontario, Navigant Consulting
- Renewable Energy Market Assessment Report, Compass Renewable Energy Consulting Inc.
- Green Button Cost-Benefit Analysis Report, Dunskey Energy Consulting (TBC)
- Green Button Consultation Report, Dunskey Energy Consulting (TBC)
- Essex Storage study (TBC)

Proposed List of Modules

Module #	Title
0	Consolidated list of figures and data tables in LTEP
1	Demand
2	Conservation
3	Supply
4	Costs (System costs, bills)

5	Emissions
6	Fuels

Proposed Module 0 – Consolidated List of Figures and Tables

Figure #	Figure Title	Lead (TBD)	Data Table?
1	2003 Total Generation By Emitting and Non-Emitting Sources (TWh)	ENE	Y
2	2016 Total Generation By Emitting and Non-Emitting Sources (TWh)	ENE	Y
3	OESP Monthly Credit Amounts by Household Income Level	ENE	Y
4	OESP Monthly Credit Amounts by Household Income Level – Energy Intensive	ENE	Y
5	Electricity Price Outlook – Residential Consumers	ENE	Y
6	Electricity Price Outlook – Large Industrial Consumers	ENE	Y
7	Electricity Supply Mix	ENE	Y
8	Supply and Demand Outlook (2017-2035)	ENE	Y
9	Major Transmission Projects Under Development Across Ontario	ENE	N
10	Historical Fuels Energy Use	ENE	Y
11	Nuclear Refurbishment Schedule	ENE	Y
12	Customer of Tomorrow	ENE	N
13	How Net Metering Works	ENE	N
14	Residential Net-Metering with 4 kW Rooftop Solar PV	ENE	Y
15	Distribution Grid Modernization	ENE	N
16	Future Transmission Corridor in the West GTA	ENE	N
17	Green Button Connect My Data	ENE	N
18	Ontario's Clean Generation Mix	ENE	Y
19	Electricity Sector GHG Emissions Outlook	ENE	Y
20	Reducing Diesel Generation in Remote First Nation Communities	ENE	N
21	Regional Highlights	ENE	N

Proposed Module 1 – Electricity Demand

Figure #	Figure Title	Lead (TBC)	Data Table?
1	Annual net electricity demand forecast		
2	Annual net summer and winter peak demand forecast		

3	Breakdown of electricity demand by sector		
4	Breakdown of electricity demand by end-use		
5	Related Assumptions (e.g. economic, growth, electrification)		
...	[Placeholder for any other figures and data]		

Proposed Module 2 – Electricity Conservation

Figure #	Figure Title	Lead (TBC)	Data Table?
1	Breakdown of electricity savings achieved since 2006		
2	Forecast of electricity savings from conservation programs and codes and standards till 2035		
3	Forecast of electricity savings related to the Conservation First Framework and the Industrial Accelerator Program		
4	Current demand response capacity		
5	Related assumptions (e.g. achievable potential, cost effectiveness etc.)		
...	[Placeholder for any other figures and data]		

Proposed Module 3 – Electricity Supply

Figure #	Figure Title	Lead (TBC)	Data Table?
1	Supply by fuel type		
2	Electricity imports/exports by jurisdiction		
3	Supply & Demand Outlook (2017-2035)		
....	[Placeholder for any other figures and data]		

Proposed Module 4 – Transmission and Distribution

Figure #	Figure Title	Lead (TBC)	Data Table?
1	Transmission		
2	Distribution including SGF activities, SGF investment map, key findings from commissioned studies etc.		
...	[Placeholder for any other figures and data]		

Proposed Module 5 – Electricity Cost

Figure #	Figure Title	Lead (TBC)	Data Table?
1	Electricity Price Forecast (Residential, Large Industrial)		
2	Ontario's Fair Hydro Plan – [ESP to add details of what would		

	be included in this section]		
3	Total cost of electricity service by component and year		
4	Unit cost by resource		
...	[Placeholder for any other figures and data]		

Proposed Module 6 – Electricity Emissions

Figure #	Figure Title	Lead (TBC)	Data Table?
1	Emissions Outlook (2017-2035)		
...	[Placeholder for any other figures and data]		

Proposed Module 2 - Fuels

Figure #	Figure Title	Lead (TBC)	Data Table?
1	Historical Fuels Use		
...	[Placeholder for any other figures and data]		