

IESO Changes to LTEP Document

Baseload Generation – <u>Nuclear, run-of-the-river hydroelectric and variable generation such as wind and solar.</u> Generation such as nuclear and hydroelectric that provide a more or less constant supply of electricity, every day and every season of the year.
Independent Electricity System Operator (IESO) – The provincial agency that manages the province's power system so that Ontarians receive power when and where they need it. It plans and prepares for future electricity needs, and works with its partners to guide conservation efforts <u>delivers key services across the electricity sector including: managing the power system in real-time, planning for the province's future energy needs, enabling conservation and designing a more efficient electricity marketplace to support sector evolution.</u>

Fact #:	LTEP Page	Comment	Source /Comments
5	8	Change to: <u>In 2017 Today, emissions for</u> Ontario's electricity sector <u>are forecast to</u> accounts for <u>about</u> two per cent of the province's total greenhouse gas emissions.	Using the most recent IESO estimate of electricity sector emissions in 2017, and assuming Ontario total emissions are 161 Megatonnes in 2017.
6	8	Change to: <i>We now have a robust <u>an adequate</u> and clean supply of electricity than can be expected to meet Ontario's electricity demand well into the next decade.</i>	Preference to not use "robust" in reference to supply. Under normal weather scenarios, the IESO expects adequate supply to meet peak system needs. Refer to LTEP outlook.
78	20	Change to: <i>Ontario is moving towards a <u>enhancing its</u> new market-based approach</i>	Clarification here: a market-based approach is already used today and will be enhanced.
83	21	Change to: The IESO is developing an incremental capacity auction that will increasingly, over time, use competition to secure the resources the Province needs, regardless of the technology	Clarification here: competition to secure resources will begin immediately, and not incrementally over time. Presentation from Incremental Capacity Auction Presentation May 18, 2017 shows growing need for incremental capacity (slide 80) and comments on

			the ability of diverse resource types to participate (slide 3)
84	21	Change to: The incremental capacity auction will incorporate services that <u>Market Renewal as a whole will ensure that resources will be able to provide flexibility, reliability and ancillary services system benefits into its design.</u>	If referring to system flexibility, Market Renewal will help to provide flexibility, not just the incremental capacity auction. See "Introduction" presentation slide 8 from December 19 meeting http://www.ieso.ca/en/sector-participants/market-renewal/market-renewal-engagement
87	21	Change to: It will do this by properly valuing their <u>The IESO together with its stakeholders has identified the future need to ensure that this new framework can properly value</u> environmental attributes and the benefits they provide to the system	
92	22	Change to: there is currently a robust <u>an adequate</u> supply of electricity	See comment for fact #6
93	22	Change to: a shortfall in capacity is expected when existing contracts begin to expire and <u>beginning in the early-to-mid 2020s as</u> the Pickering Nuclear Generating Station reaches its end of life in the early 2020s <u>and nuclear units at Darlington and Bruce are temporarily removed from service for refurbishment.</u>	Refer to LTEP outlook.
95	22	N/A	Refer to LTEP outlook.
96	23	N/A	Refer to LTEP outlook.
99	23	Change to: <u>The LTEP's</u> The IESO's outlook assumes that there will be approximately 2.4 million electric vehicles on the road by 2035, up from about 9,000 electric vehicles in Ontario at the end of 2016	This is the LTEP's outlook.

291	60	Change to: Generators, transmitters and distributors in Ontario <u>electricity market participants</u> must abide by <u>comply with</u> internationally-recognized standards and requirements that <u>define</u> ensure the reliability <u>requirements for planning and operating the interconnected North American</u> of the bulk electricity grid <u>system</u>	http://www.ieso.ca/sector-participants/system-reliability/reliability-standards-framework
292	60	Change to: The Independent Electricity System Operator (IESO) <u>is responsible for compliance monitoring and enforcement of the reliability</u> enforces these standards in Ontario, working closely with industry participants to ensure they understand and follow the rules	http://www.ieso.ca/sector-participants/system-reliability/reliability-standards-framework
348	71	Change to: Ontario has a healthy <u>an adequate</u> supply of energy. Any additional demand for electricity <u>supply</u> is not expected to appear until the early to-mid- 2020s	See comment for fact #6
355	72	N/A	Point 1: Energy Storage RFP Phase 1 procured resources to meet ancillary services needs, including rapid increases/decreases in electricity demand. http://www.ieso.ca/en/sector-participants/energy-procurement-programs-and-contracts/energy-storage Point 2: Technology companies such as Nest, Honeywell, Ecobee, OhmConnect are members of the DRWG. Residential DR has been enabled to participate in the 2016 DR Auction and new participants (Ohm, H1, Direct Energy) have registered as DRAPs.

498	105	N/A	http://www.ieso.ca/-/media/files/ieso/document-library/funding/ecb/ecb-5,-d-,0-program-rules.pdf?la=en
499	105	N/A	http://www.ieso.ca/en/get-involved/funding-programs/energy-partnerships-program/overview