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## **UNDERTAKING NO. J2.1**

#### **REFERENCE** 2

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- Hearing Day May 10, 2011 Tr. p. 52 3
- UNDERTAKING NO. J2.1: TO PROVIDE SUMMARY OF EXHIBIT B, TAB 1, 4
- SCHEDULE 1, PAGE 9 OF 10 WHICH DISCLOSES THE REPORT CONTENT RELATED 5
- TO THE PLANNING OUTLOOK AND PARTICULARLY REGARDING FIT AND MICROFIT 6
- UPTAKE AND ADDITIONAL RESOURCE REQUIREMENTS. 7

#### RESPONSE 8

On September 2, 2010, the OPA submitted to the Ministry of Energy, a report titled Ontario 9 Electricity Status and Outlook: 2005 - 2030. 10

The report summarizes the recent history of electricity service, provides a status report of 11

Ontario's electricity system as of the second guarter of 2010 and an outlook of electricity 12

service to 2015 given the procurements that are underway and the Directives received. 13

The report also provides scenarios of possible future electricity demand to 2030 and 14

illustrates the anticipated generation capability for the same timeframe. 15

#### **Additional Resource Requirements** 16

The Board specifically requested a summary of the additional resource requirements taking 17

into consideration committed and directed conservation and supply as well as disclosing 18 the report content related to FIT and microFIT uptake.<sup>1</sup>

19

The OPA developed an analysis of the additional resource requirements that may be 20

required for the period commencing 2011 and ending in 2030. The analysis was performed 21

under three demand scenarios that were net of the conservation forecast. The analysis 22

also reflected the understanding of the status of directives for procurement of conservation 23

and supply resources and any targets that were in place at the end of the second guarter of 24

2010. The analysis did not factor in any potential directives. 25

- A reserve margin of 17% was added to the scenarios of forecast peak demand to assess 26 the requirement for electricity supply. 27
- An outlook for the installed capacity of electricity supply was prepared. The outlook 28
- considers the existing, committed and directed resources that are anticipated to be 29
- available over the plan period and are presented in Figure 1 below. The outlook does not 30
- include any resources for which a procurement directive had not been issued as of the 31
- development of the report. 32

<sup>&</sup>lt;sup>1</sup> TR. Volume 2, page 51

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2 The installed capacity was adjusted to reflect the estimated contribution of each resource at

3 the time of peak and then compared to the requirement for electricity supply (net demand

<sup>4</sup> inclusive of conservation and a reserve margin) to identify the capacity gap over the

5 planning period.



6

7 The capacity gap defines the requirement for resources that is outlined in the Status and

8 Outlook Report. Under a Moderate Growth Scenario, a requirement of about 1,000 MW is

<sup>9</sup> identified as beginning in 2015 growing to about 9,700 MW in 2030. This analysis did not

- assume the extension of the Pickering Nuclear Generating Station or the refurbishment of
- <sup>2</sup> Bruce B and Darlington units.



### 3

# 4 **FIT and microFIT**

5 The Status and Outlook Report considered the contribution of the FIT and microFIT

<sup>6</sup> programs in developing the assessment of the resource requirement over the plan period.

7 In forecasting the contribution of FIT and microFIT, the OPA adopted the approach of

<sup>8</sup> projecting the existing, committed and directed renewable resources over the plan period.

As of the second guarter of 2010, the OPA had received 1,300 FIT applications and 9 executed 598 FIT contracts with a combined generating capacity of 1,994 MW. The OPA 10 had also received 16,756 microFIT applications with 522 microFIT contracts having been 11 executed with a capacity of 2.9 MW. The executed FIT and microFIT contracts were 12 included in the committed and directed resources and brought the renewable level to 13 15,837 MW of installed capacity by 2017. The amount of renewable resources is aligned 14 with the target for renewable energy in the Supply Mix Directive received June 13, 2006 to 15 plan for a total capacity of renewable energy sources in Ontario of 15,700 MW. The 16 selection of 2017 was based on an analysis of the contract applications and a forecast of in 17 service dates for resources and required transmission upgrades. 18

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