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Power to Ontario. On Demand.

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POWER OUTLOOK: Summer 2011

Issued: June 6, 2011

[18-Month Outlook](#)

The period from June 2011 to November 2012 poses no new reliability or adequacy concerns for Ontario's power system. More than 2,500 megawatts (MW) of new and refurbished generation is expected to be connected to Ontario's bulk power system over the next 18 months. This includes the anticipated return of two refurbished Bruce nuclear units, the addition of approximately 400 MW of gas-fired generation in York Region and the construction of approximately 700 MW of grid-connected renewable generation. This new grid-connected wind supply comprises 500 MW contracted under the Feed-in Tariff (FIT) program and 200 MW from the Renewable Energy Supply III Program, which will bring Ontario's total renewable portfolio to 2,000 MW on the IESO-connected grid and 2,700 MW on the distribution system.

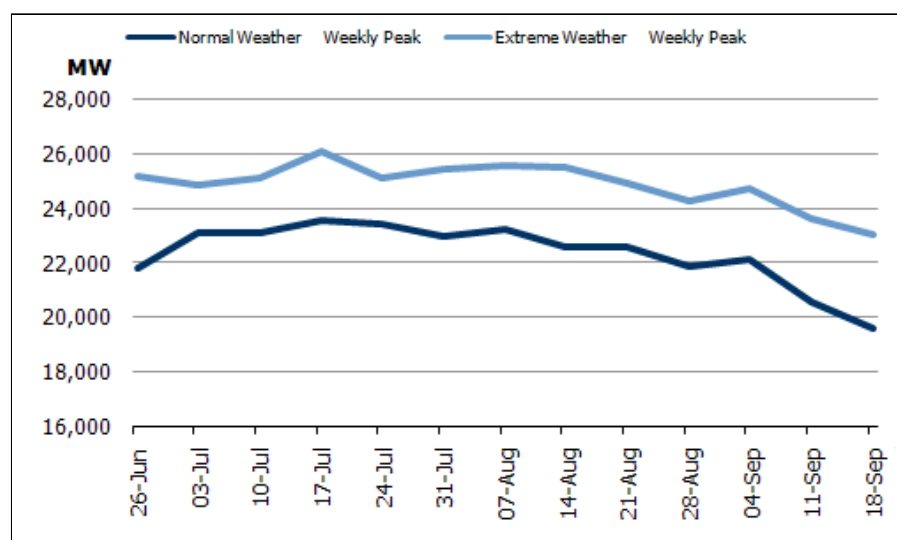
In the meantime, two units at Nanticoke will be shut down by December 31, 2011, reducing the installed capacity of coal-fired generation by 980 MW to 3,504 MW.

Through this period – and beyond – the IESO will facilitate innovations in the way the province's bulk power system is operated, with an ongoing focus on reliability and efficiency. In order to effectively manage the forecast uncertainty inherent with these new types of resources and ensure reliability going forward, the IESO is actively developing new operational policies and processes. The priority is to integrate renewables in a way that leverages existing processes, and maintains the efficient and reliable scheduling and commitment of electricity supply on a daily basis. This means optimizing the use of existing and anticipated generation and providing mechanisms to efficiently dispatch variable resources.

Exports have played a significant role in managing Surplus Baseload Generation (SBG) conditions in the past and the IESO will continue to use exports and other available options to address the SBG that is expected over the next 18 months. The IESO's priority is to integrate renewables into its dispatch processes and maintain efficient and reliable scheduling and commitment of Ontario's generation resources.

The next 18 months will see demand for electricity influenced by two opposing factors. Economic and population growth will push demand higher, while conservation programs and embedded generation will offset these expected increases. Overall energy consumption is expected to grow by 0.5 per cent in 2011 and 1.9 per cent in 2012.

DEMAND OUTLOOK - SUMMER 2011



DEMAND FORECAST

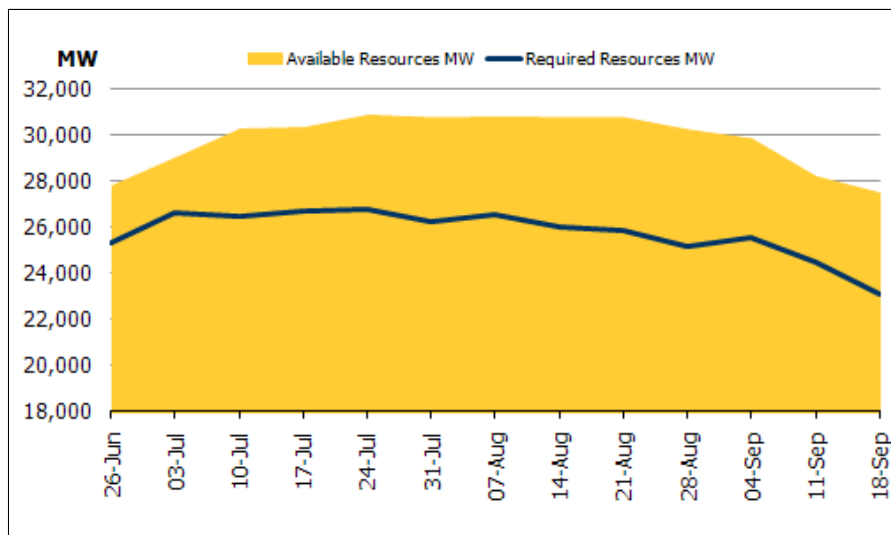
Seasonal Normal Weather Peak	23,539 MW
Extreme Weather Peak	26,073 MW

Demand Forecast

The mid-term forecasts contained in the Power Outlooks are determined based on econometric models and weather scenarios. These forecasts are superseded by nearer-term forecasts that are used in the operation of the power grid, and employ similar-day scenarios. Each day's projected peak is posted on the Price and Demand page.

SUPPLY OUTLOOK - SUMMER 2011

**AVAILABLE GENERATION
DURING SEASONAL PEAK
(week of July 11)**



Total Installed Resources	34,960 MW
Outages or other reductions in capacity	5,752
Demand Response	1,206 MW
Total Available Resources	30,414 MW

Matching Supply and Demand

The resource scenario shown above incorporates planned outages that generators have requested in order to perform maintenance on their equipment. Should the IESO determine that there is a potential reliability concern due to a generator outage, the outage co-ordination process allows for the IESO to reject or recall outages. In addition, Ontario has the capability to import electricity.

These supply forecasts are superseded by nearer-term forecasts, that are available 34 days before the day-at-hand.

More information about IESO forecasts is available:

- [Demand Forecasts](#) | [18-Month Outlook](#) | [Ontario Reliability Outlook](#)
- [Security and Adequacy Assessment Report](#) (forecasts for the month ahead)