



### **Peak Advisory Notification Service & Dashboard**

Working Together to Reduce your Ontario Electricity Costs

As of January 1, 2011, Ontario Regulation 398/10 changes how Global Adjustment is charged to all consumers over five megawatts (MW). The monthly GA amounts for these customers will be based on their coincident peak demands.<sup>1</sup>

Global Adjustment is forecast to be nearly \$300,000/MW annually for 2012 and growing to over \$400,000/MW by 2016<sup>2</sup>, and calculated on your average load during the top 5 peak periods within a Base Period. As a result, for every 1 MW average that is either reduced or displaced during the Base Period will result in a savings of over \$300,000 annually.

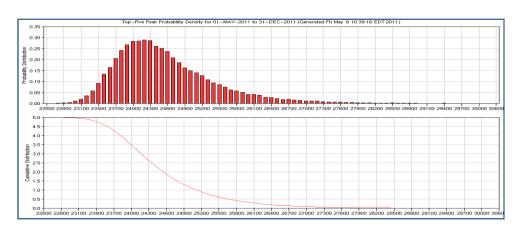
Through the NRG Matters Peak Advisory Notification Service "PANS" and the Sygration Dashboard, we will advise you when the top 5 peaks will likely occur and give you the tools to monitor and quickly detect changes in the forecast demand. Find your peace of mind knowing that you will not miss the top peaks, while not overly reacting and unnecessarily impacting your operations.

HERE IS WHAT YOU WILL RECEIVE.

## # 1 PANS Monthly Advisories

Timeframe – Start of each Month

A detailed assessment of the month ahead, including analysis of historical time-of-month and hour-of-day data, and a risk assessment that shows the likelihood of peaks occurring during the month. The report uses a statistical analysis of the latest long-term forecast data to predict the top 5 peaks for the Base Period, and to define the alert thresholds that will be used for the daily monitoring.



<sup>2</sup> Aegent Energy Advisors: http://www.sygration.com/Ontario\_Electricity\_Price\_Increase\_Forecast\_2012.pdf

<sup>&</sup>lt;sup>1</sup> IESO Global Adjustment Website: http://www.ieso.ca/imoweb/b100/ga\_changes.asp

## **#2** PANS Day-Ahead Alerts

#### Timeframe – Day before period of expected Peak Hours

Email alert sent prior to the day that has hours indicating a potential peak. Three levels of risk are identified to support customers with different abilities to respond in their ability to curtail load or supplement it with standby generation.

- Slow Responding
- Moderate Responding
- Quick Responding

Analysis factors in 60 days of forecast accuracy data, to establish confidence levels in the hourly forecast. Each risk level has a different number of hours identified as being potential peak.

Forecast Type / Hour Ending (EST)	12	13	14	15	16	17	18	19	20
Original Predispatch	23660	24391	24236	24780	25087	24972	24276	23521	23280
Adjusted Predispatch	23660	24391	24236	24780	25087	24972	24276	23521	23280
Error Correction - Scenario ID	7	7	6	6	4 **	4	4	4	4
Error Correction - Mean	68	64	38	38	34	34	34	77	77
Error Correction - Std Deviation	267	220	280	280	251	251	251	380	380
Slow Responding (0.97 Confidence)	24262	24895	24834	25378	25623	25508	24812	24358	24117
Moderate Responding (0.85 Confidence)	23995	24675	24554	25098	25372	25257	24561	23978	23737
Quick Responding (0.50 Confidence)	23728	24455	24274	24818	25121	25006	24310	23598	23357

## #3 PANS Current Day Alerts

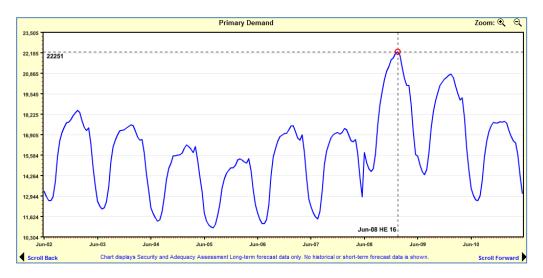
#### Timeframe – Morning of Day expecting Peak Hours

Same content as the Day-Ahead alert, however, email is sent in the morning of the peak day using the latest forecast analysis.

#### #4 Dashboard Longterm Forecast

#### Timeframe – Up to 14 Days Forward

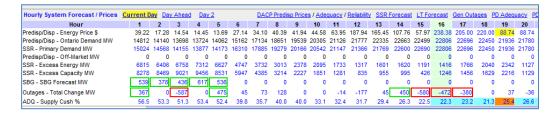
Demand Data is tracked looking forward up to 14 days, allowing you to identify peak hours or if a trend of high demand is about to begin.



#### #5 Dashboard 24-Hour Forecast

#### Timeframe – Current Day and Day Ahead

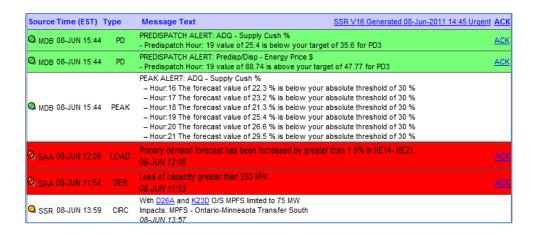
Hourly forecast and historical data are shown in a convenient 24-hour matrix, with data updating automatically as it is processed by Sygration. Easily monitor and set trigger events for items such as Energy Price, Supply Cushion or Ontario Demand.



## #6 Dashboard Console

#### Timeframe – Current and Day Ahead

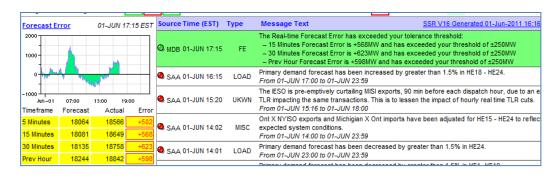
Messages that are generated automatically by the Dashboard or received from the IESO appear in the Dashboard central screen and are announced by a friendly voice. These may indicate a crossing of a threshold – such as Demand, or Price exceeding a limit – or notices that the demand forecast has changed.



# #7 Dashboard Forecast Error Tracking

#### Timeframe – Current Day

Curtailment actions are taken by industrial consumers in response to high forecast demand. So when the demand arrives significantly different (high, lower, earlier, or later) than expected it is important to know right away. The Dashboard Forecast Error tracking module calculates a 5-minute forecast and compares the actual demand against it in real-time. It can also generate Console alerts if the actual demand is significantly off the forecast – quickly indicating if a peak hour has shifted.



When you add it all up it means savings to your operations.

Once you use it you'll wonder how you operated without it!

Call us today to discuss the Ontario Global Adjustment Allocation Program, available to all Consumers over 5MW. We can schedule a demonstration and show how the PANS and Dashboard solution can help your business.

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