



Global Adjustment Module v2.0

Maximize your savings potential through advanced Monitoring and Control

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Global Adjustment Module (User Interface)

Available for Power Monitoring Expert 9

Power Monitoring Expert SUPERVISOR | Logout | Help

DASHBOARD DIAGRAMS TABLES TRENDS ALARMS RATIOS REPORTS DATA QUALITY SETTINGS

Peak Demand Forecast

Demand Forecast Peaks

Date	Hour Ending	Forecast Demand	Peak Probability
10/17/2018	19:00	17,271	LOW
10/17/2018	20:00	17,119	LOW
10/17/2018	18:00	17,068	LOW
10/18/2018	19:00	16,923	LOW
10/18/2018	20:00	16,754	LOW

Top 5 AQEW Demand

Peak Timestamp	Forecast Demand	Site Demand
1/3/2018 8:00:00 PM	22,881	22,880
3/3/2018 8:00:00 PM	22,413	22,160
7/4/2018 8:00:00 PM	22,133	22,758
8/20/2018 9:00:00 PM	21,644	22,500
9/4/2018 9:00:00 PM	21,273	21,796

Top 5 Ontario Demand

Peak Timestamp	Forecast Demand	Site Demand
9/5/2018 6:00:00 PM	22,240	22,000
7/5/2018 4:00:00 PM	22,046	22,260
7/4/2018 7:00:00 PM	22,819	22,823
8/20/2018 9:00:00 PM	21,990	22,500
9/4/2018 9:00:00 PM	21,853	21,796

Peak Demand Factor

Previous Site Peak Demand Factor (PDF)

0.9

Predicted Site Peak Demand Factor (PDF)

9.5417300563414

Predicted Peak Demand Factor (PDF) Improvement

-960.19%

Peak Tracker

PKW of 8:00 AM EDT on October 17, 2018

Sample Regression Report

Dispatchable Load - IESO

	Hour 1	Hour 2	Hour 3	Hour 4	Hour 5
Total Scheduled Load	4,294.2	4,294.2	4,294.2	4,294.2	4,294.2
Total Called Load	0.0	0.0	0.0	0.0	0.0
Total Remaining Load	4,294.2	4,294.2	4,294.2	4,294.2	4,294.2

	Hour 6	Hour 7	Hour 8	Hour 9	Hour 10
Total Scheduled Load	4,294.2	4,294.2	4,294.2	4,294.2	4,294.2
Total Called Load	0.0	0.0	0.0	0.0	0.0
Total Remaining Load	4,294.2	4,294.2	4,294.2	4,294.2	4,294.2

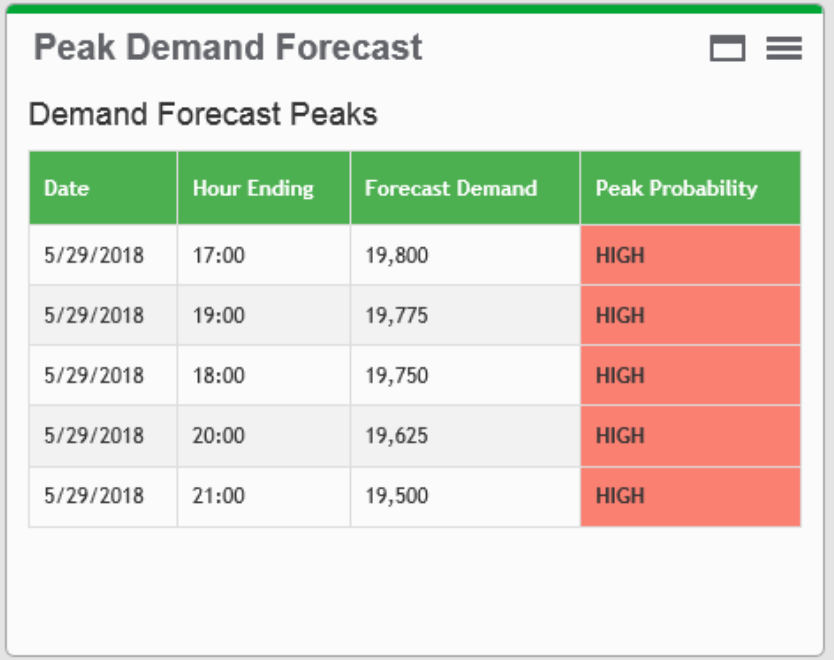
	Hour 11	Hour 12
Total Scheduled Load	4,294.2	4,294.2
Total Called Load	0.0	0.0
Total Remaining Load	4,294.2	4,294.2

IESO

1	September 05, 2018	18	23,240	23,399
2	July 05, 2018	16	23,046	23,377
3	July 04, 2018	19	22,818	22,017
4	August 05, 2018	17	21,990	21,644
5	September 04, 2018	17	21,853	21,379
6	July 03, 2018	19	21,761	21,291
7	July 16, 2018	12	21,536	20,984
8	July 18, 2018	18	21,508	20,824
9	July 24, 2018	17	21,451	20,843
10	July 09, 2018	18	21,412	20,600

Peak Demand Forecast (Probability)

- Monitor probability of forecast peaks for the following 24hrs
- Probability algorithm based on 10 years worth of historical data.
- Custom threshold band (Medium, High and Low probability)



The screenshot displays a dashboard titled "Peak Demand Forecast" with a sub-section "Demand Forecast Peaks". It contains a table with four columns: Date, Hour Ending, Forecast Demand, and Peak Probability. The data shows five forecast peaks for the date 5/29/2018, all with a "HIGH" probability. The forecast demand values are 19,800, 19,775, 19,750, 19,625, and 19,500 for the hours ending at 17:00, 19:00, 18:00, 20:00, and 21:00 respectively.

Date	Hour Ending	Forecast Demand	Peak Probability
5/29/2018	17:00	19,800	HIGH
5/29/2018	19:00	19,775	HIGH
5/29/2018	18:00	19,750	HIGH
5/29/2018	20:00	19,625	HIGH
5/29/2018	21:00	19,500	HIGH

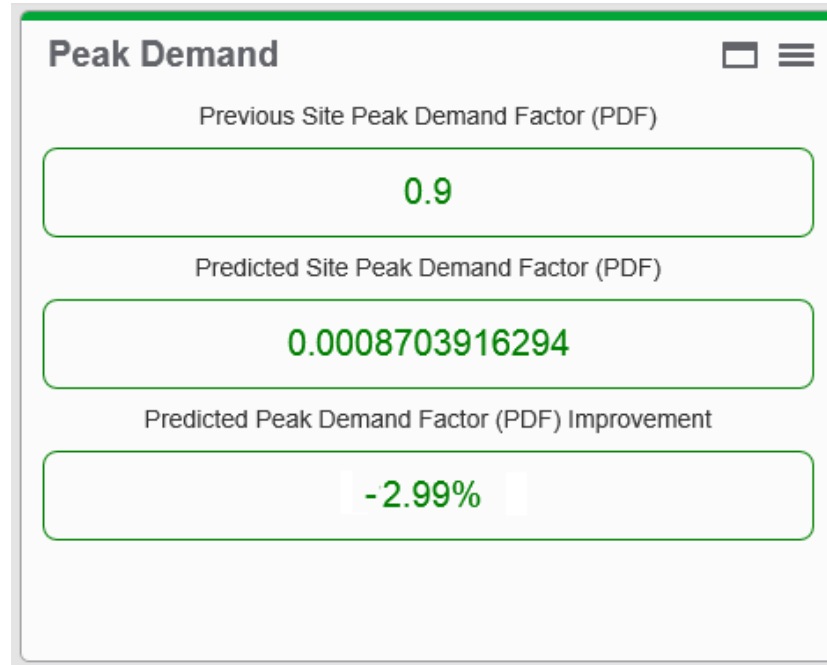
Receive alerts regarding expected upcoming peaks (Notification)

- Use SMTP service to receive email notifications about possible GA peaks.
- 2 layers of notification.
- Customized email option available.
- Automated load shedding and source switching options available.
- SCADA and Microgrid integration available.



Peak Demand Factor

Calculate PDF (Peak Demand factor) , set target, and track performance



View Ontario Demand peaks and AQEW peaks

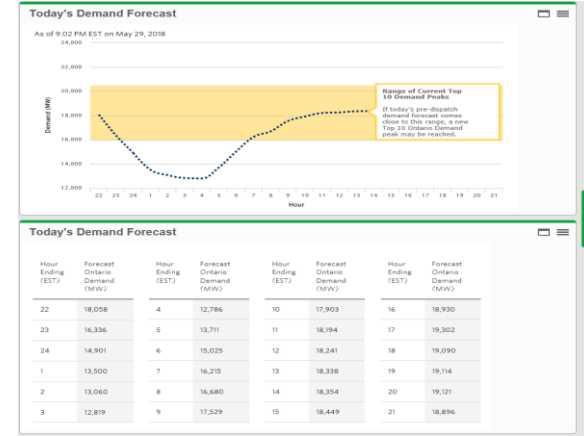
Benchmark and compare AQEW and utility demand peak vs facility co-incident peaks

Top 5 Ontario Demand Peaks		
Peak Timestamp	Ontario Demand	Average Demand
5/28/2018 6:00:00 PM	20,473	19,064
5/29/2018 6:00:00 PM	20,072	18,338
5/25/2018 8:00:00 PM	17,985	17,230
5/27/2018 6:00:00 PM	17,788	15,469
5/24/2018 8:00:00 PM	17,172	15,768

Top 5 AQEW Demand Peaks		
Peak Timestamp	AQEW	Average Demand
5/1/2018 9:00:00 PM	14,956	14,102
5/29/2018 2:00:00 AM	0	13,396
	0	0
	0	0
	0	0

Hourly demand forecast data feed

- Visualize forecasted demand peaks for the next 24 hrs.
- Regression Modelling
 - Create facility consumption models based on historical data
 - Refer to the model based on notification (Actionable/Non Actionable decision).

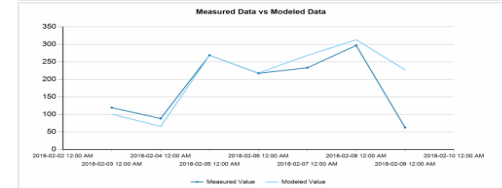


Use Model Report

2018-02-03 12:00:00 AM - 2018-02-10 12:00:00 AM (Server Local)

Display Mode: Forecast
Start of measured data for the reporting period: 12:00:19
Start of modeled data for the reporting period: 14:02:59
Custom view at the end of the reporting period: 17:00:00 - 12:00:00

Sub Model	Driver	Std Dev	Min	Avg	Max	Std Period	Valid
Weekday [0]-5	Weather-Victoria-Weather Temperature Celsius HDD 5	4.32	0.00	4.17	15.12	0.71	True
Weekday [0]-5	Weather-Victoria-Weather Temperature Celsius HDD 5	3.06	0.00	2.05	11.16	1.83	True
Saturday [0]-1	Weather-Victoria-Weather Temperature Celsius HDD 5	4.32	0.00	3.94	14.18	1.21	True
Sunday [0]-1	Weather-Victoria-Weather Temperature Celsius HDD 5	3.06	0.00	2.38	11.07	0.21	True
Weekday [0]-1	Weather-Victoria-Weather Temperature Celsius HDD 5	4.83	0.00	4.22	14.37	1.88	True
Sunday [0]-1	Weather-Victoria-Weather Temperature Celsius HDD 5	2.79	0.00	2.12	8.79	0.38	True



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