

# Enhancements to Market Information

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Manager, Customer & Stakeholder Relations



## **IESO publishes market information to enable:**

- transparency
- engagement
- decision making

## **Demand for market information comes from:**

- market participants
- service providers
- consultants
- consumers
- associations
- media
- interest groups/NGOs
- research groups
- students
- public

Public Reports

Market and reliability reports produced hourly.

Market Participant Reports

Password protected custom reports prepared for market participants hourly.

**For assistance contact:**

IESO Customer Relations  
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**Toll-Free:** 1-888-448-7777  
**Fax:** 905-403-6921  
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Market Participant Reports  
Change Page

**IESO Bulletin**  
 Important news, notices, updates

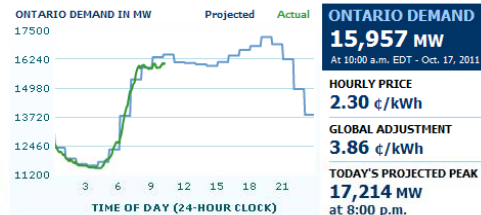
## 18-MONTH OUTLOOK

UPDATE

From September 2011 to February 2013



**Power to Ontario.  
On Demand.**

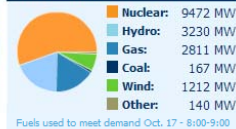


**ELECTRICITY SYSTEM STATUS** →

**System Status Good**



**GENERATION BY FUEL TYPE** →



**BUSINESS AND INDUSTRY** →

Take control of your electricity costs. You'll find information here to better manage your electricity use.



**CONSUMER INFORMATION** →

Be an informed consumer and understand how changes in the electricity sector affect you. Learn more about how the IESO manages Ontario's power system.



**INSIDE THE MARKET** →

Almost 300 organizations buy and sell electricity in the wholesale market. Track price and demand activity and stay up-to-date with market developments.



**MEDIA DESK** →

A one-stop resource for the media about Ontario's power system. Find IESO news, market data and background information.



In this issue:

**Market and System Oper**

- IESO Enhanced Day Ah
- Upcoming Courses on C

**Market Rules and Marke**

- Revised Market Docum

**Stakeholder Engagemen**

- Deadline Extended for Nominations to the Stakeholder Advisory Committee
- Agenda and Materials Available for Stakeholder Advisory Committee Meeting

**Metering and Settlements**

- Draft 2012 Calendars for Physical and Financial Settlement Schedule and Payments

**Planned IT Outages**

**Upcoming Events**

Hours															Zone	Type	Dollars per MW for Interval							
		1	2	3	4	5	6	7	8	9	10	11	12	13			1	2	3	4	5	6	7	8
NUCLEAR Total	Capability	10612	10613	10611	10611	10612	10634	10637	10639	10641	10640	10642	10664	10666	Ontario	Energy	42.27	42.27	40.25	40.06	29.17	29.17	29.17	29.17
	Output	10479	10484	10483	10487	10490	10520	10532	10537	10537	10535	10540	10562	10555		10S	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
BRUCEA-G3	Capability	735	735	735	735	735	735	735	735	735	735	735	735	735		10N	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
	Output	732	733	732	732	731	731	731	731	731	731	732	732	735		30R	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
BRUCEA-G4	Capability	720	720	719	719	719	719	719	719	719	720	720	720	720	Manitoba	Energy	19.07	19.07	17.05	16.86	5.97	5.97	5.97	5.97
																10N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
																30R	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

### System Advisory/Summary

[System Advisory/Summary](#) [Hourly Details H1-12](#) [Hourly Details H13-24](#) [Transmission Interfaces](#) [SAA Notes](#)

Forecast Supply Energy(MWhr)	Forecast Demand Energy(MWhr)	Forecast Excess(Shortfall) Energy(MWhr)	Energy Shortfall Hours(Yes/No)
499220	365695	136117	No

System Advisory Notices-Title	Date/Time Issued	Start Date/Time	End Date/Time	Comment
Major Change Advisory - transmission	2011/10/14 12:25	2011/10/14 12:23	2011/10/18 19:00	A transmission element has been force extended affecting an operating security limit >25% (see transmission limitations for details)

### Intertie Schedule and Flow Report

### Hourly Ontario Energy Price (HOEP) Report

Power to Ontario. On Demand.

Created at Oct 01, 2011 00:30:19

For Sep 20, 2011

For Sep 30, 2011

Generated on Sep 21, 2011 12:19:37

Zone	MANITOBA			MANITOBA SK			MICHIGAN			MINNESOTA			NEW-YORK			PQ-AT			PQ.B5D.B31L			PQ.D4Z			PQ.D5A			PQ.H4Z			PQ.H5				
Hour	Imp	Exp	Flow	Imp	Exp	Flow	Imp	Exp	Flow	Imp	Exp	Flow	Imp	Exp	Flow	Imp	Exp	Flow	Imp	Exp	Flow	Imp	Exp	Flow	Imp	Exp	Flow	Imp	Exp	Flow	Imp	Exp	Flow		
1	155	0	-143	0	0	0	151	0	-285	61	0	-55	0	350	491	0	1196	1216	0	241	242	0	0	-1	0	0	0	0	0	0	0	70	35	0	0
2	156	0	-151	0	0	0	101	25	-43	61	0	-55	0	425	378	0	1196	1216	0	241	242	0	0	-1	0	0	0	0	0	0	0	70	35	0	0
3	156	0	-154	0	0	0	201	0	-69	61	0	-57	0	550	402	0	1196	1215	0	241	242	0	0	-1	0	0	0	0	0	0	0	70	34	0	0
4	147	0	-154	0	0	0	1	0	218	61	0	-58	0	645	408	0	1196	1215	0	241	242	0	0	-1	0	0	0	0	0	0	0	70	35	0	0
5	156	0	-156	0	0	0	159	25	246	61	0	-56	0	646	253	0	996	1018	0	241	243	0	0	-1	0	0	0	0	0	0	0	70	36	0	0
6	159	0	-158	0	0	0	101	100	372	0	0	1	0	325	-28	0	746	754	0	241	243	0	0	-1	0	0	0	0	0	0	0	0	37	0	0
7	183	47	-120	0	0	1	0	175	465	0	0	2	0	350	48	72	198	131	50	0	-45	0	0	-1	0	0	0	0	0	0	0	0	39	0	0

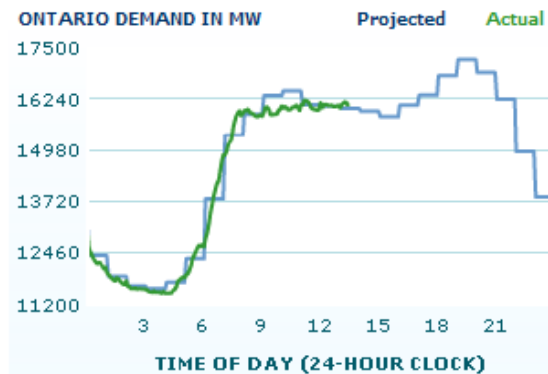
Hour	HOEP Price	Data Source
1	27.73	DSO-RD
2	16.37	DSO-RD
3	13.02	DSO-RD
4	13.18	DSO-RD
5	16.06	DSO-RD

## TODAY'S MARKET

What do these numbers mean?

At 9:00 a.m. EST  
October 17, 2011

Current 5-Minute Market Demand: **17,705 MW**  
 Hourly Market Demand: **17,507 MW**  
 Hourly Generator Availability: **27,103 MW**  
 Current Hourly Price (HOEP): **\$23.04/MWh (2.30¢/kWh)**  
 Average Weighted Price (October): **\$27.28/MWh (2.73¢/kWh)**  
 Average Weighted Price YTD: **\$32.33/MWh (3.23¢/kWh)**  
 Hourly Uplift Charge Estimate: **\$1.00/MWh (0.10¢/kWh)**  
 Intertie Offer Guarantee Estimate: **\$0.05/MWh**  
 Hourly Imports: **514 MW** | Hourly Exports: **1,550 MW**



## ONTARIO DEMAND

**16,087 MW**

At 1:00 PM EDT - Oct. 17, 2011

### HOURLY PRICE

**2.83 ¢/kWh**

### GLOBAL ADJUSTMENT

**3.86 ¢/kWh**

### TODAY'S PROJECTED PEAK

**17,214 MW**

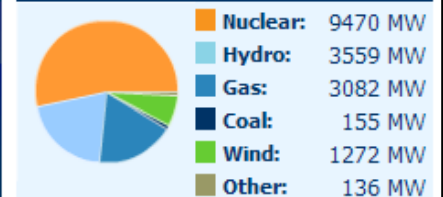
at 8:00 p.m.

## ELECTRICITY SYSTEM STATUS

System Status Good

Energy Saving Tips

## GENERATION BY FUEL TYPE



Fuels used to meet demand Oct. 17 - 12:00-13:00

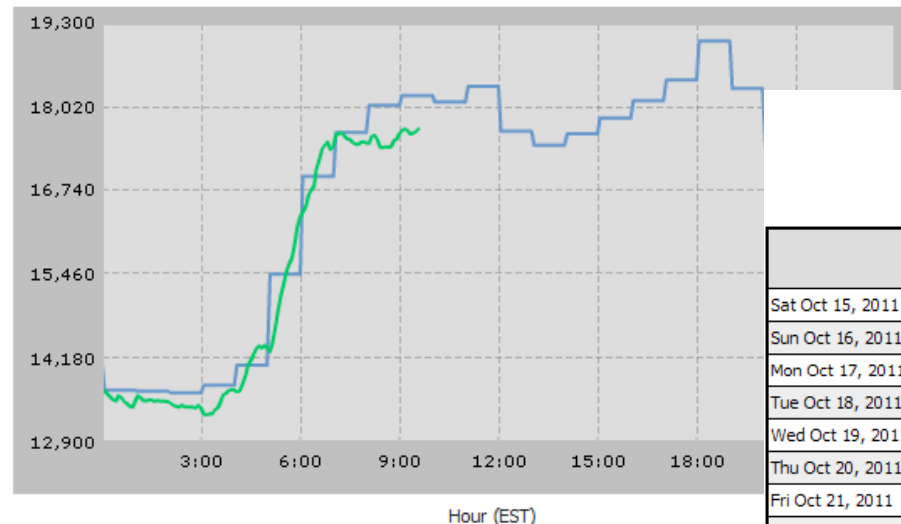
## MARKET DEMAND

What does this graph mean?

Select: Yesterday Yesterday/Today Today Today/Tomorrow Tomorrow 3-Day View

Market Demand (MW)

Pre-Dispatch Dispatch



## Forecast Surplus Baseload Generation Report (EnergyMW)

Created at Oct 14, 2011

Date	Surplus Baseload Generation for Hour															
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Sat Oct 15, 2011	1890	1611	1778	1791	1656	1375	781	124	555	526	586	368	93			
Sun Oct 16, 2011	2031	1741	1920	2018	1916	1690	1381	485	260							
Mon Oct 17, 2011	1708	1714	1703	1785	1230											
Tue Oct 18, 2011	1050	969	1014	928	285											
Wed Oct 19, 2011	527	529	448	415												
Thu Oct 20, 2011	567	583	472	331												
Fri Oct 21, 2011		154	44													
Sat Oct 22, 2011	343	574	668	668	426											
Sun Oct 23, 2011	813	991	1017	1121	949	473										

## Daily Market Summary

Monday October 3, 2011



### ONTARIO ZONE MARKET QUANTITIES

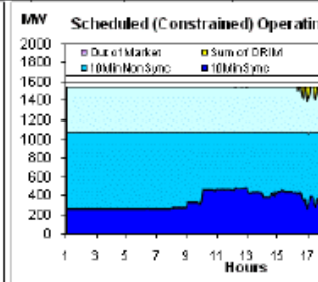
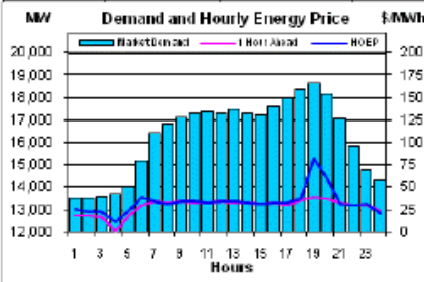
(MW)	DAILY			ON PEAK <sup>1</sup>			OFF PEAK	
	Ave	Max	Min	Ave	Max	Min	Ave	Min
Market Demand	16,260	18,621	13,472	17,255	18,621	14,795	14,271	16,260
Ontario Demand	15,161	17,481	11,743	16,368	17,481	13,972	12,745	15,161
Imports	270	654	15	360	654	179	91	270
Exports	1,100	1,845	665	887	1,261	665	1,526	1,100
Unavailable Capacity	8,946	9,568	8,700	8,824	8,856	8,700	9,192	8,946

### ONTARIO ZONE MARKET PRICES<sup>2</sup>

Energy Prices (\$/MWh)	DAILY			ON PEAK			OFF PEAK	
	Ave	Max	Min	Ave	Max	Min	Ave	Min
HOEP	33.01	81.35	10.22	37.30	81.35	28.99	24.43	33.01
5 Minute MCP	33.01	102.13	0.00	37.30	102.13	13.95	24.42	33.01
Operating Reserve Prices (\$/MWh/hr)								
10 Minute Sync	0.84	30.00	0.20	1.08	30.00	0.20	0.37	0.84
10 Minute Non-Sync	0.75	30.00	0.20	1.02	30.00	0.20	0.20	0.75
30 Minute	0.75	30.00	0.20	1.02	30.00	0.20	0.20	0.75

### DAILY SUMMARY DATA

Weighted HOEP (\$/MWh)	Total Market Demand (MWh)	Value of Market Demand (\$)	CMSC Estimate (\$)	DA/RT IOG Summary (\$)	Operating Reserve Estimate (\$)	Emergency Purchases (MWh)
34.08	390,240	13,299,379	245,322	22	26,106	0.0



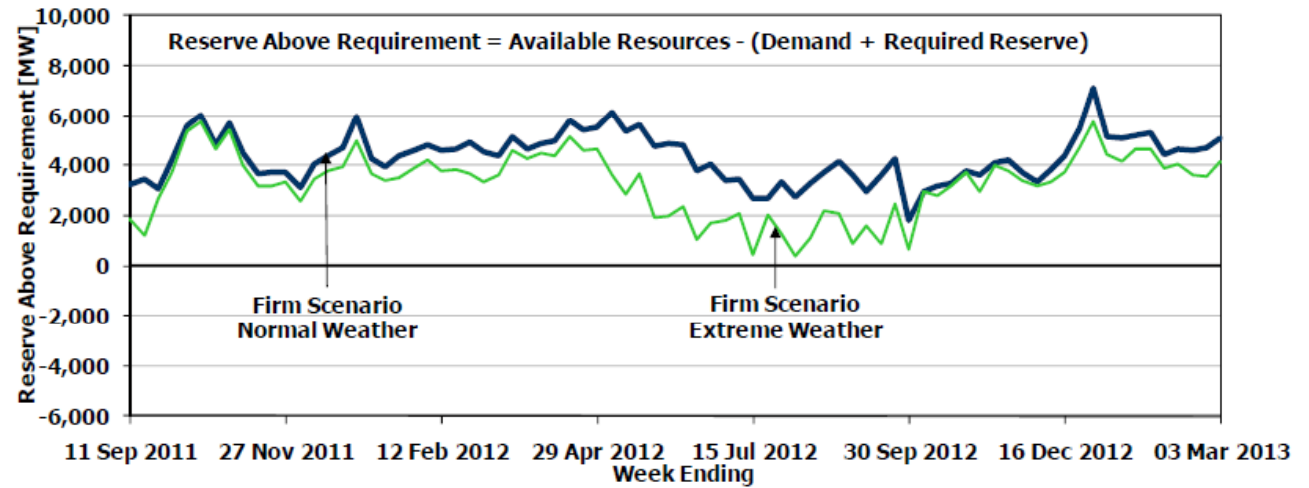
IESO WHOLESALE MARKET	Arithmetic Average		Weighted Average	
	Current Month	Year-to-Date	Current Month	Year-to-Date
<b>Commodity Charge</b>				
HOEP	\$32.62	\$31.14	\$34.51	\$32.68
Actual Global Adjustment	\$36.56	\$38.91	\$36.56	\$38.91
Class B Rate				
<b>Total</b>	\$69.18/MWh or 6.92 ¢/kWh	\$70.05/MWh or 7.01 ¢/kWh	\$71.07/MWh or 7.11 ¢/kWh	\$71.59/MWh or 7.16 ¢/kWh
<b>Wholesale Market Service Charges</b>				
CMSC	\$0.53	\$0.72	\$0.52	\$0.71
IOG	\$0.03	\$0.04	\$0.03	\$0.04
Other Hourly	\$0.46	\$0.82	\$0.97	\$1.05
Monthly	\$1.13	\$1.05	\$1.13	\$1.05
IESO Administration	\$0.82	\$0.82	\$0.82	\$0.82
OPA Administration	\$0.55	\$0.55	\$0.55	\$0.55
Rural/Remote Settlement	\$1.30	\$1.30	\$1.30	\$1.30
<b>Total</b>	\$4.82/MWh or 0.48 ¢/kWh	\$5.31/MWh or 0.53 ¢/kWh	\$5.32/MWh or 0.53 ¢/kWh	\$5.52/MWh or 0.55 ¢/kWh
<b>Wholesale Transmission Charge</b>	\$9.25/MWh or 0.93 ¢/kWh	\$9.33/MWh or 0.93 ¢/kWh	\$9.25/MWh or 0.93 ¢/kWh	\$9.33/MWh or 0.93 ¢/kWh
<b>Debt Retirement Charge</b>	\$7.00/MWh or 0.70 ¢/kWh	\$7.00/MWh or 0.70 ¢/kWh	\$7.00/MWh or 0.70 ¢/kWh	\$7.00/MWh or 0.70 ¢/kWh
<b>TOTALS</b>	\$90.26/MWh or 9.03 ¢/kWh	\$91.68/MWh or 9.17 ¢/kWh	\$92.64/MWh or 9.26 ¢/kWh	\$93.44/MWh or 9.34 ¢/kWh

## 18-MONTH OUTLOOK

UPDATE  
From September 2011 to February 2013

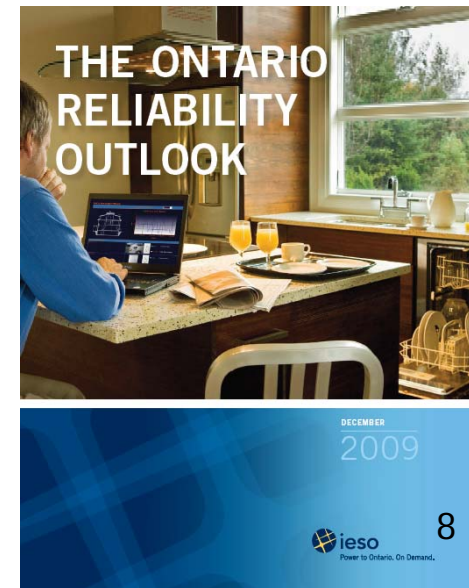
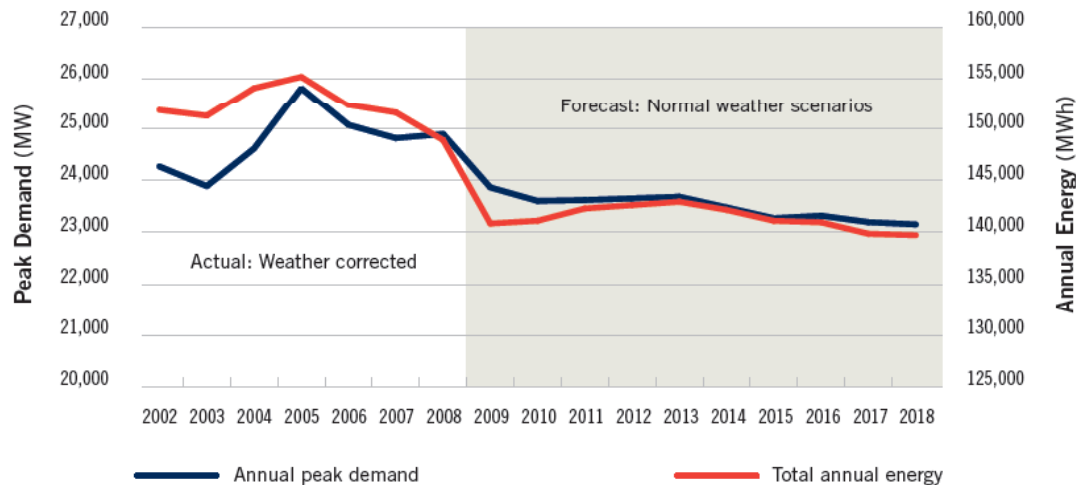


An Assessment of the Reliability and Operability of the Ontario Electricity System - Update



## PEAK AND ENERGY DEMANDS – HISTORIC AND FORECAST

Source: Independent Electricity System Operator, Ontario Power Authority



- IESO requested input from the Stakeholder Advisory Committee to understand:
  - how they use data;
  - purposes they use it for;
  - and if there is, or will be, need for change.
- Feedback will also help the IESO to revise some existing summaries and reports to ensure a focus on information that is relevant today.
- Next step is a focused stakeholder consultation to work through these details and consider short-term changes.
- Need for more extensive changes will be addressed through future business planning efforts.

1. The background information above explains what the IESO aims to achieve with the information published today. Does your sector agree that the IESO is achieving these objectives? Do any require more focus? Are objectives missing?
2. How does your sector generally use the data and information currently provided by the IESO?
3. Where should the IESO focus its efforts?
  - publishing only raw real-time data
  - providing historical data
  - summarizing available data
  - analysing available data
  - none of the above, the information currently available is sufficient

4. Is there data currently NOT published that would be useful to your sector if it was available?
5. What information matters the most to your business/sector?
6. What sources, other than the IESO, does your sector go to most frequently to obtain market information? What do they provide you that the IESO does not?
7. How does your sector anticipate their data needs changing over the coming few years?