

Marc Abramovitz

From: Marc Abramovitz
Sent: May 23, 2018 9:31 AM
To: Andrew Dow
Subject: RE: Ontario Energy Report
Importance: High

HOEP Price is based on 3 month arithmetic average (Jan - Mar 2018). Source data can be found here:
<http://www.ieso.ca/-/media/files/ieso/uploaded/market-reports/hoepmonthlyaverages.csv?la=en>

Class A Global Adjustment Price is based on 3 month arithmetic average (Jan - Mar 2018). Source data can be found here:
<http://www.ieso.ca/sector-participants/settlements/global-adjustment-components-and-costs>

Global Adjustment Costs and Consumption by Customer Class												
Total global adjustment costs and consumption figures are divided between Class A and all remaining, or Class B, customers. Class A customers pay a rate based on their proportion of energy use during the five established coincident peaks. The remaining costs are recovered from all Class B. The breakdown between the two groups is shown below.												
2018	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1 Class A Total (M\$)	131.8	133.3	161.2	157								
2 Class A Total (TWh)	3.262	3.075	3.277	3.147								
Class B (all remaining customers) Total (M\$)	655	663	801.6	780.8								
3 Class B (all remaining customers) Total (TWh)	9.744	8.18	8.502	7.837								
4												
Item 1 divided by Item 2	\$ 40.40	\$ 43.35	\$ 49.19									
Average of Jan - Mar			\$ 44.32									

From: Andrew Dow <Andrew.Dow@ieso.ca>
Sent: Tuesday, May 22, 2018 6:03 PM
To: Marc Abramovitz <Marc.Abramovitz@oeb.ca>
Subject: RE: Ontario Energy Report

Hi Marc,

Where on our website do you see that? The report I referenced earlier shows \$21.73 year-to-date end of March.

The tables I have provided are what we sent to the Ministry for the OER. I'll find out about the source data, although for Class A GA it's a calculation we do based on internal information.

Andrew

Andrew Dow | Supervisor, Media Relations and Issues Management
 Independent Electricity System Operator (IESO) | T: (416) 506-2827

From: Marc Abramovitz [<mailto:Marc.Abramovitz@oeb.ca>]

Sent: May 22, 2018 5:42 PM
To: Andrew Dow
Subject: RE: Ontario Energy Report

Andrew,

Thank you.

For HOEP, I get the following from your website:

Month	Arithmetic Ave
2018-Jan	30.32
2018-Feb	18.01
2018-Mar	16.5
Average	21.61

Please look into source data for me.

As for Global Adjustment, I'm getting 4.434 so I'm ok with what has been provided.

Marc

From: Andrew Dow <Andrew.Dow@ieso.ca>
Sent: Tuesday, May 22, 2018 5:19 PM
To: Marc Abramovitz <Marc.Abramovitz@oeb.ca>
Subject: RE: Ontario Energy Report

Hi Marc,

Here are the numbers for you! I'm not sure about the source data but can look into that for you.

Ontario Commodity Cost - Class A (¢/kWh)

Costs	Q1	YTD
Hourly Ontario Energy Price (Unweighted Average)	2.17	2.17
Global Adjustment - Average, Class A	4.44	4.44
Total	6.61	6.61

NOTE: The HOEP is the March 2018 YTD (i.e. Q1) arithmetic average from the Monthly Market Summary Report for March, divided by 10 to convert from \$/MWh to ¢/kWh. The Class A GA rate is only calculated for the purposes of the OER. We do not publish it anywhere on our website.

Ontario Commodity Cost - Class B (¢/kWh)

Costs	Q1	YTD
Hourly Ontario Energy Price (Weighted Average)	2.32	2.32
Global Adjustment - Average, Class B	8.06	8.06
Total	10.38	10.38

NOTE: The HOEP is the March 2018 YTD (i.e. Q1) weighted average from the Monthly Market Summary

Report for March, divided by 10 to convert from \$/MWh to ¢/kWh

Andrew Dow | Supervisor, Media Relations and Issues Management
Independent Electricity System Operator (IESO) | T: (416) 506-2827

From: Marc Abramovitz [<mailto:Marc.Abramovitz@oeb.ca>]
Sent: May 22, 2018 4:56 PM
To: Andrew Dow
Subject: RE: Ontario Energy Report

Andrew,

Thank you.

Can you please ask that individual to also send the source data when calculating the arithmetic average for HOEP and class A GA?

(I've used the data on your website to calculate HOEP (jan – mar 2018 arithmetic average) and I get \$21.61 vs. \$21.73 below)

Thank you.

Marc

From: Andrew Dow <Andrew.Dow@ieso.ca>
Sent: Tuesday, May 22, 2018 4:50 PM
To: Marc Abramovitz <Marc.Abramovitz@oeb.ca>
Subject: RE: Ontario Energy Report

Hi Marc,

If you go to our Monthly Market Summary page and look at the March report, on page 22 you will see the year-to-date HOEP and Class B Global Adjustment rate. <http://www.ieso.ca/power-data/market-summaries-archive>.

Someone here is going to send me this information and the Class A GA rate to send to you, but I thought I should send this along in the meantime since your request is time sensitive.

7 Summary of Wholesale Market Electricity Charges in Ontario's Competitive Marketplace

A summary of this month's market results that correspond with the charge items indicated in the chart below.

Fig. 24 – IESO Wholesale Market Summary	Arithmetic Average		Weighted Average	
	Current Month	Year-to-Date	Current Month	Year-to-Date
Commodity Charge				
HOEP	\$16.50	\$21.73	\$17.20	\$23.18
Actual Global Adjustment	\$94.81	\$80.62	\$94.81	\$80.62
Class B Rate				
Total	\$111.31 /MWh or 11.13 ¢/kWh	\$102.35 /MWh or 10.24 ¢/kWh	\$112.01 /MWh or 11.20 ¢/kWh	\$103.80 /MWh or 10.38 ¢/kWh
Wholesale Market Service Charges				
Hourly Uplift - CMSC	\$ 0.55	\$ 0.61	\$ 0.56	\$ 0.64
Hourly Uplift - IOG	\$ 0.29	\$ 0.26	\$ 0.29	\$ 0.26
Hourly Uplift - Other	\$ 0.66	\$ 0.80	\$ 0.69	\$ 0.84
Daily Uplifts	\$ 0.08	\$ 0.17	\$ 0.08	\$ 0.18
Monthly Uplift	-\$ 0.35	\$ 0.36	-\$ 0.35	\$ 0.37
IESO Administration ¹	\$ 1.22	\$ 1.22	\$ 1.22	\$ 1.22
Rural/Remote Settlement	\$ 0.30	\$ 0.30	\$ 0.30	\$ 0.30
Ontario Electricity Support Program Charge (OESP)	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
Monthly Class B Capacity-Based DR Recovery ²	\$ 0.31	\$ 0.48	\$ 0.31	\$ 0.48
Overall Total	\$3.06/MWh or 0.31 ¢/kWh	\$4.20/MWh or 0.42 ¢/kWh	\$3.10/MWh or 0.31 ¢/kWh	\$4.29/MWh or 0.43 ¢/kWh
Wholesale Transmission Charge	\$9.54/MWh or 0.95 ¢/kWh	\$9.96/MWh or 1.00 ¢/kWh	\$9.54/MWh or 0.95 ¢/kWh	\$9.94/MWh or 0.99 ¢/kWh
Debt Retirement Charge	\$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
TOTALS	\$130.91 /MWh or 13.09 ¢/kWh	\$123.51 /MWh or 12.35 ¢/kWh	\$131.65/MWh or 13.17 ¢/kWh	\$125.03 /MWh or 12.50 ¢/kWh

Note: Year-to-Date is since January 1 of this current year

¹ The fee used in this table refers to the IESO Administration Fee charged to domestic consumers. The rate charged to exporters is \$ 0.9872 /MWh

² The Monthly Class B Capacity Based Recovery charge listed above includes all costs incurred from the Capacity Based Demand Response program, the Demand Response Auction and the Demand Response Pilots. For more information on these three areas, please visit the [Demand Response](http://www.ieso.ca) section found at www.ieso.ca

To: Andrew Dow
Subject: Ontario Energy Report

Hi Andrew,

Thanks for taking my call.

As discussed, I'm searching for the HOEP and the province-wide Class A Global Adjustment rate for Q1 2018.

This is time-sensitive so I'm hoping you can get something for me by end of day today.

Thank you.

Marc Abramovitz | Rates Advisor | Applications Division | Ontario Energy Board
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