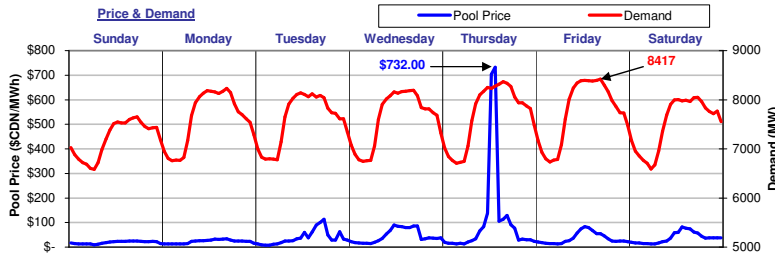


# The Market Monitor

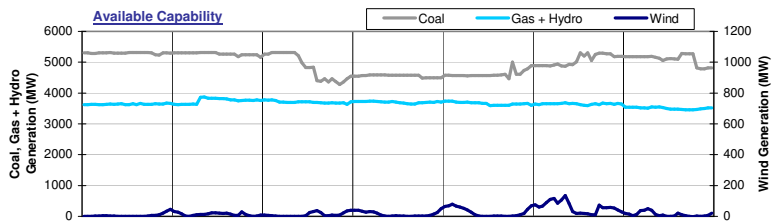
WATCHING THE MARKET : your fact source

Week Ending June 13, 2009

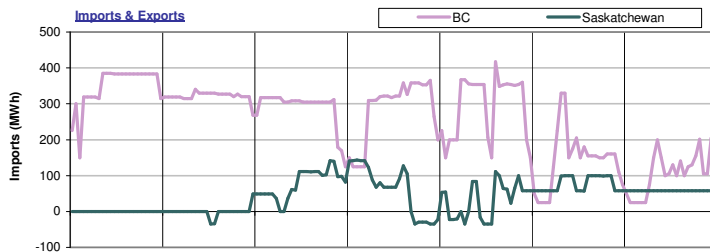
## Weekly Highlights



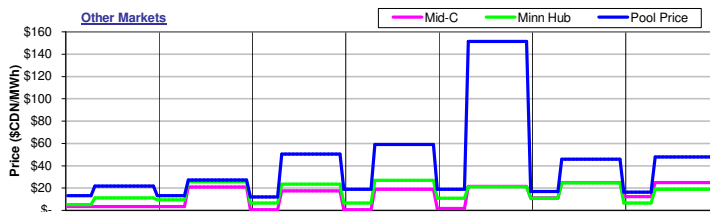
For the week ending June 13, 2009, **Pool Price** averaged \$43.80/MWh and ranged from a minimum of \$8.00/MWh in HE4 on Tuesday to a maximum of \$732.00/MWh in HE14 on Thursday. **Demand** reached a high of 8417 MW in HE17 on Friday and a low of 6058 MW in HE07 on Sunday. Average demand for the week was 7573 MW. **Pool Price** and **Demand** were positively correlated last week with an R-squared value of 0.13.



**Coal Unit Availability** averaged 4967 MW last week. This is an equivalent availability of 83%. **Gas, Hydro and Other Unit Availability** averaged 3659 MW last week, which is an equivalent of 69%. **Wind Generation** averaged 20 MW last week. This is an equivalent availability of 4%. Availability numbers are based on MW offered into the energy merit order.

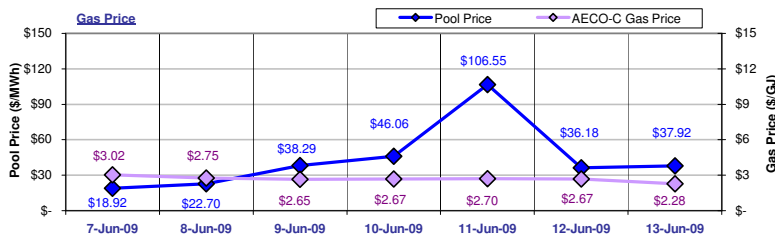


Alberta was a net importer from **BC** last week with total imports equal to 42,879 MWh. Alberta was a net importer from **Saskatchewan** last week with total imports equal to 7,289 MWh. Overall, Alberta imported 50,168 MWh of electricity last week.



**Pool Prices** were generally higher than prices in **Mid-C** and higher than prices in **Minn Hub** last week. **Mid-C** prices averaged \$21.44/MWh on-peak and \$4.69/MWh off peak. **Minn Hub** prices averaged \$23.51/MWh on-peak and \$8.08/MWh off-peak.

Prices in \$CDN at an exchange rate of 1.11947.



The average **AECO-C Gas Price** last week was \$2.68/GJ and ranged from a minimum of \$2.28/GJ to \$3.02/GJ. Prevailing gas prices resulted in market heat rates ranging from a low of 6.26 GJ/MWh to a high of 39.44 GJ/MWh. The average market heat rate for the week was 16.53 GJ/MWh.

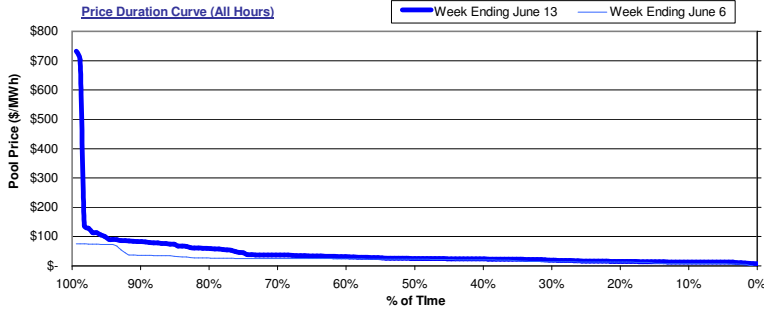


Alberta's Market Surveillance Administrator is in place to monitor the fair, efficient and openly competitive operation of all electricity markets within the province. The **Market Monitor** is a weekly publication by the MSA intended to educate industry participants and the public on market activities for the [previous](#) week. Any questions regarding the material in this publication should be directed to MSA staff. Our contact information is available on the MSA website: [www.albertamsa.ca](http://www.albertamsa.ca)

# Wholesale Market

## Weekly Market Statistics

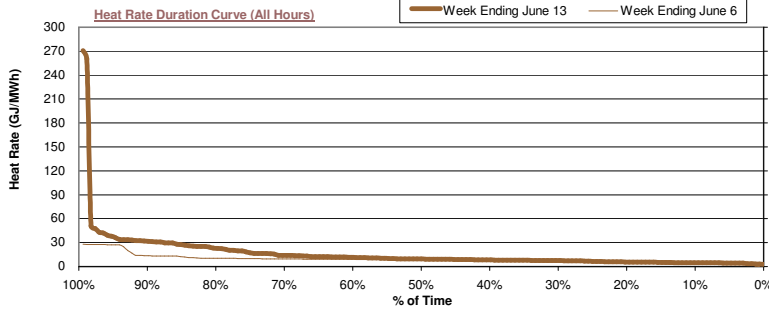
	Sunday 7-Jun	Monday 8-Jun	Tuesday 9-Jun	Wednesday 10-Jun	Thursday 11-Jun	Friday 12-Jun	Saturday 13-Jun	Average	Last Week	% Change	YTD
<b>Pool Price</b>											
Average	\$ 18.92	\$ 22.70	\$ 38.29	\$ 46.06	\$ 106.55	\$ 36.18	\$ 37.92	\$ 43.80	\$ 23.56	85.9%	\$ 49.34
On-Peak	NA	\$ 27.30	\$ 50.54	\$ 59.05	\$ 151.27	\$ 45.91	\$ 47.78	\$ 63.64	\$ 31.71	100.7%	\$ 59.78
Off-Peak	\$ 18.92	\$ 13.48	\$ 13.78	\$ 20.08	\$ 17.11	\$ 16.71	\$ 18.21	\$ 17.35	\$ 12.69	36.7%	\$ 34.77
COV	0.28	0.32	0.77	0.60	1.81	0.62	0.58	0.71	0.48	49.5%	
<b>Heat Rate</b>											
Average	6.26	8.25	14.43	17.23	39.44	13.52	16.61	16.53	8.05	105.5%	12.17
On-Peak	NA	9.92	19.05	22.09	55.99	17.16	20.93	24.19	10.83	123.4%	14.75
Off-Peak	6.26	4.90	5.19	7.51	6.33	6.25	7.98	6.33	4.34	45.9%	8.58
<b>Demand</b>											
Average	7,210	7,619	7,596	7,624	7,699	7,754	7,510	7,573	7,633	-0.8%	7,972
Minimum	6,580	6,761	6,777	6,743	6,710	6,730	6,587	6,698	6,752	-0.8%	6,454
Maximum	7,652	8,230	8,139	8,195	8,367	8,417	8,052	8,150	8,232	-1.0%	9,753
<b>Coal Unit Availability</b>											
Average	5,300	5,277	4,855	4,554	4,618	5,071	5,098	4,967	5,502	-8.9%	4,994
AC/MC	88%	88%	81%	76%	77%	84%	85%	83%	92%	-8.9%	83%
<b>Gas, Hydro and Other Unit Availability</b>											
Average	3,640	3,749	3,706	3,702	3,660	3,647	3,505	3,659	3,549	2.1%	3,595
AC/MC	68%	70%	69%	69%	69%	68%	66%	69%	67%	2.1%	69%



The price duration curves show the % of time that prices were at or below a certain value during the week.

For the week ending **June 13**, prices were at or below:

- \$20/MWh 30% of the time
- \$50/MWh 76% of the time
- \$100/MWh 95% of the time
- \$250/MWh 98% of the time
- \$500/MWh 98% of the time



The heat rate duration curves show the % of time that the implied market heat rate was at or below a certain value during the week. For the week ending **June 13** implied market heat rates were at or below:

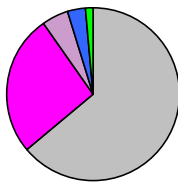
- 5.0 GJ/MWh 14% of the time
- 10.0 GJ/MWh 53% of the time
- 15.0 GJ/MWh 71% of the time
- 20.0 GJ/MWh 77% of the time

### Market Share Statistics

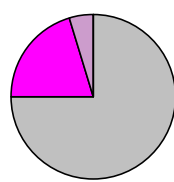
By Fuel Type:

Legend: Coal (Grey), Gas - Cogen (Pink), Gas - Other (Light Blue), Hydro (Dark Blue), Other (Green)

Weekly Generation by Fuel Type

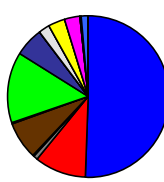


Weekly Price Setting by Fuel Type



By Submitting Customer:

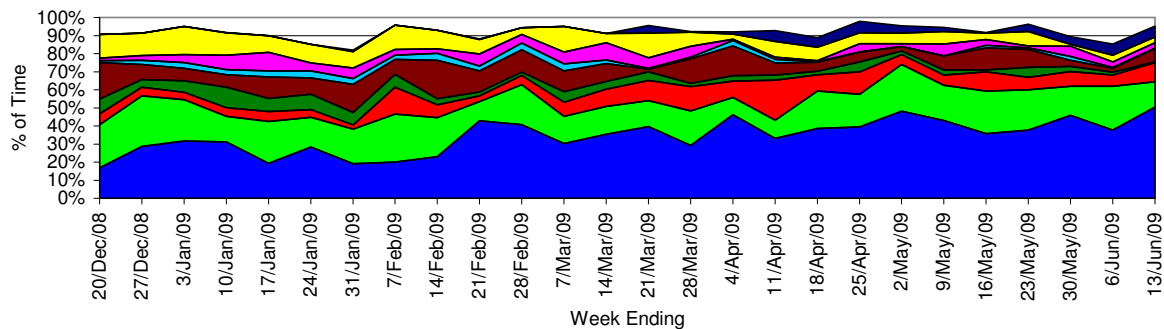
Weekly Price Setting by Submitting Customer



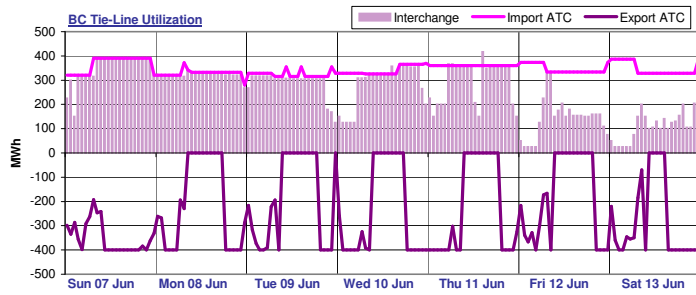
Last week, **coal units** were responsible for 64.0% of the generation in the province and set price 75.1% of the time. **Gas-cogen** units accounted for 26.4% of the generation and set price 20.2% of the time last week while **other gas** units made up 4.8% of generation and set price 4.6% of the time.

A total of 13 market participants set price last week. **One** market participants set price more than 20% of the time last week. The top price setter set price 50.4% of the time and the top five price setters set price a total of 88.4% of the time.

### Weekly Price Setting by Submitting Customer

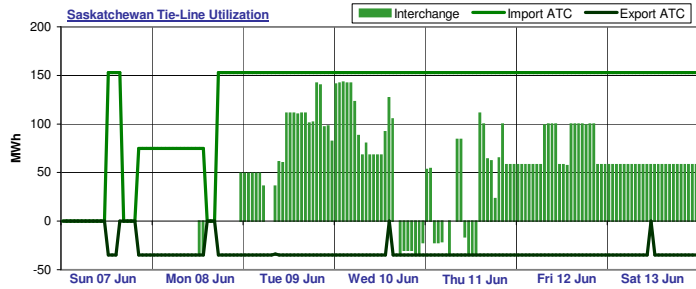


# Interties

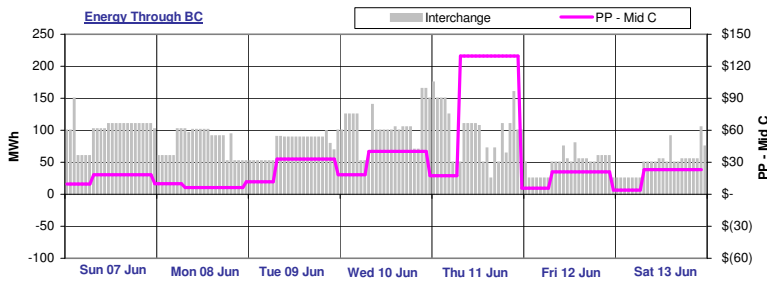


BC import capacity was 74% utilized last week while BC export capacity was 0% utilized. Energy was being imported into Alberta over the BC tie-line 100% of the time and exported out of Alberta over the BC tie-line 0% of the time last week. There was no activity on the BC tie-line 0% of the time last week.

Note: External reserve contract volumes have been subtracted from the BC import ATC as this capacity is not available to import energy into Alberta.



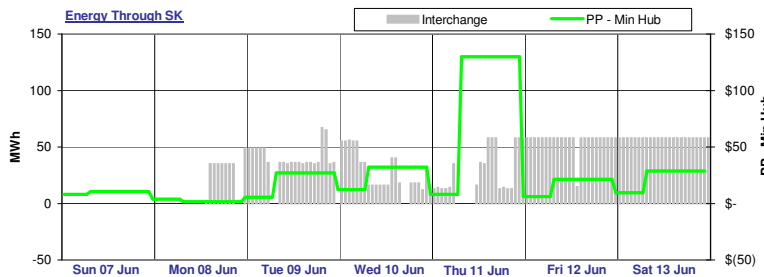
Saskatchewan import capacity was 39% utilized last week while Saskatchewan export capacity was 33% utilized. Energy was being imported into Alberta over the Saskatchewan tie-line 60% of the time and exported out of Alberta over the Saskatchewan tie-line 10% of the time last week. There was no activity on the Saskatchewan tie-line 30% of the time last week.



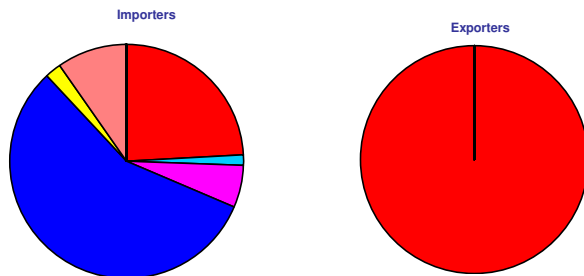
Last week, Alberta spot prices were mostly higher relative to prices in the Pacific Northwest as represented by Mid-C index prices, supporting import activity across the Alberta - BC interconnection.

Alberta prices were generally higher than prices in MAPP as represented by spot prices at the Minnesota Hub, which generally supports import activity across the Alberta - Saskatchewan interconnection.

Note: Platt's day-ahead strip prices used in energy through BC and SK graphs.



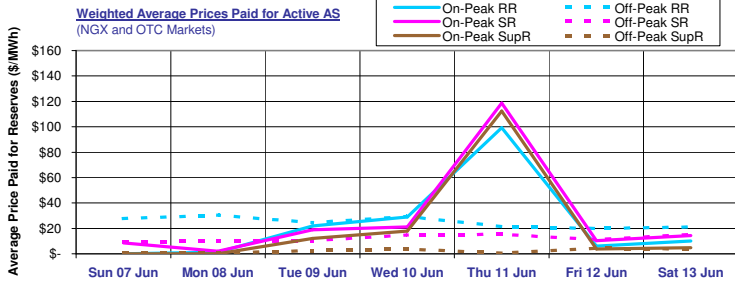
Tie-Line Market Shares



Last week, there were a total of 6 importers. The most active importer had a market share of 56.7% while the second most active importer had a market share of 24.2%. There were a total of 1 exporters last week. The most active exporter had a market share of 100% while the next largest exporter had a market share of 0%.

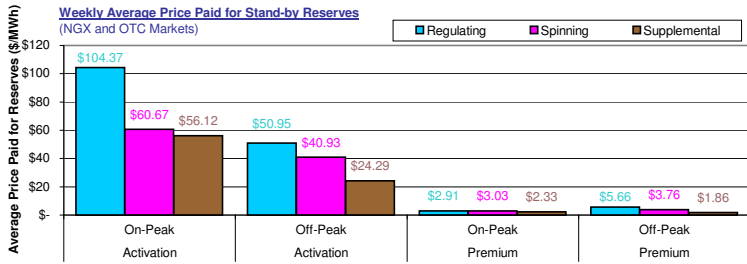
Note: Market shares are based on the combined activity on both interties.

# Ancillary Services Market



Average on-peak prices paid for active ancillary services last week were **\$24.09/MWh**, **\$27.78/MWh** and **\$21.66/MWh** respectively for active **regulating**, **spinning** and **supplemental** reserves.

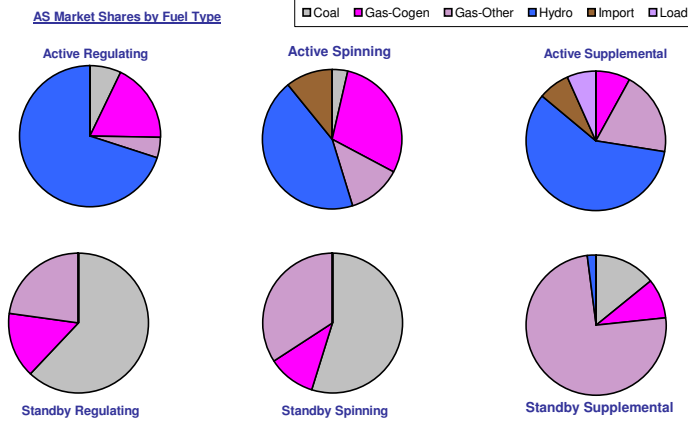
Active average off-peak prices were **higher** and averaged **\$25.01/MWh**, **\$12.31/MWh** and **\$2.26/MWh** for active **regulating**, **spinning** and **supplemental** reserves respectively.



Weekly average activation prices for stand-by reserves ranged from **\$24.29/MWh** for **off-peak supplemental** reserves to **\$104.37/MWh** for **on-peak regulating** reserves.

Weekly average premium prices ranged from **\$1.86/MWh** for **off-peak supplemental** reserves up to **\$5.66/MWh** for **on-peak spinning** reserves.

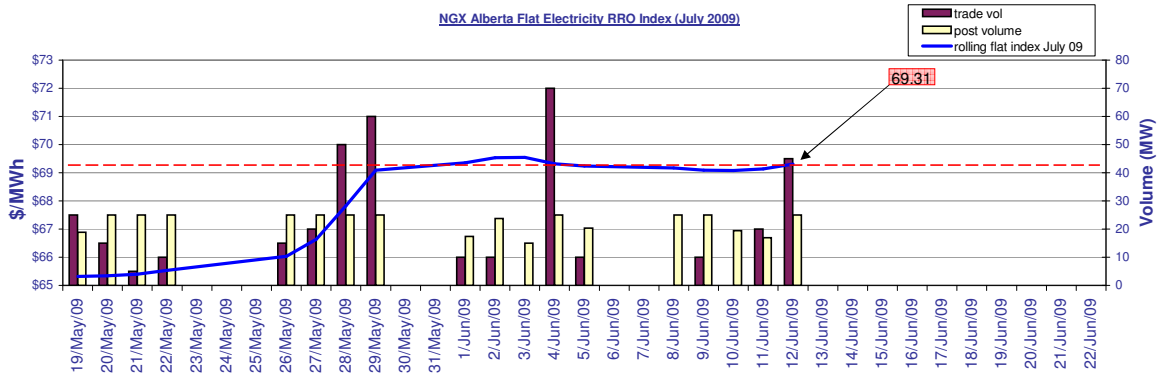
**AS Market Shares by Fuel Type**



Last week **hydro** units had the largest market share in the **active regulating** reserve market with **70.0%**. In the **active spinning** reserve market, **hydro** units had the leading market share with **43.9%** while in the **active supplemental** reserve market, **hydro** units dominated with a **58.5%** market share.

**Coal** units dominated the **standby regulating** reserve market with a **62.0%** market share. Leading market share in the **standby spinning** market was held by **coal** units with a **54.6%** market share. In the **standby supplemental** reserve market, **gas** units had the leading market share with **74.5%**.

# RRO Procurement



# Glossary

- On-Peak Hours**  
In Alberta: HE08 through HE23, Monday through Saturday (prevailing Mountain time)  
In Mid-C: HE07 through HE22, Monday through Saturday (prevailing Pacific time)  
In Minn Hub: HE08 through HE23, Monday through Sunday (prevailing Central time)
- Off-Peak Hours**  
In Alberta: HE01 through HE07 + HE24 (of the same day), Monday through Saturday + HE01 through HE24 Sundays (prevailing Mountain time)  
In Mid-C: HE24 (of the previous day) through HE07 (of the day in question), Monday through Saturday + HE01 through HE24 Sundays + holidays (prevailing Pacific time)  
In Minn Hub: HE24 (of the previous day) through HE07 (of the day in question), Monday through Sunday (prevailing Central time)
- ATC**  
A measure of the maximum energy flow possible in one direction across an intertie.
- Market Heat Rate**  
The prevailing Pool price divided by the prevailing gas price.
- Sparks spread**  
Sparks spreads give an indication of the revenue available to cover costs after fuel costs have been paid. A positive spread indicates it is more economical to buy gas and generate electricity while a negative spread indicates it is more economical to buy electricity from the grid.