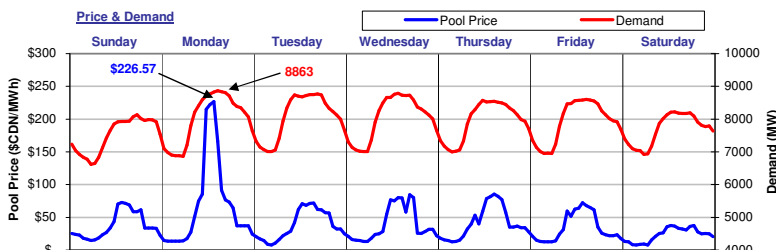


The Market Monitor

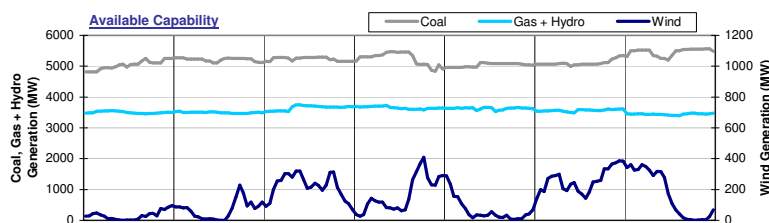
WATCHING THE MARKET : your fact source

Week Ending June 20, 2009

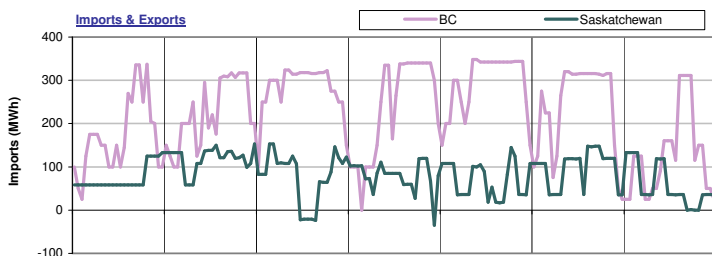
Weekly Highlights



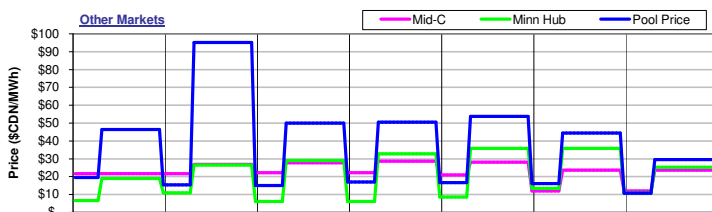
For the week ending June 20, 2009, **Pool Price** averaged \$40.52/MWh and ranged from a minimum of \$7.89/MWh in HE4 on Saturday to a maximum of \$226.57/MWh in HE14 on Monday. **Demand** reached a high of 8863 MW in HE15 on Monday and a low of 6618 MW in HE06 on Sunday. Average demand for the week was 7887 MW. **Pool Price** and **Demand** were positively correlated last week with an R-squared value of 0.47.



Coal Unit Availability averaged 5191 MW last week. This is an equivalent availability of 86%. **Gas, Hydro and Other Unit Availability** averaged 3563 MW last week, which is an equivalent of 67%. **Wind Generation** averaged 140 MW last week. This is an equivalent availability of 28%. Availability numbers are based on MW offered into the energy merit order.

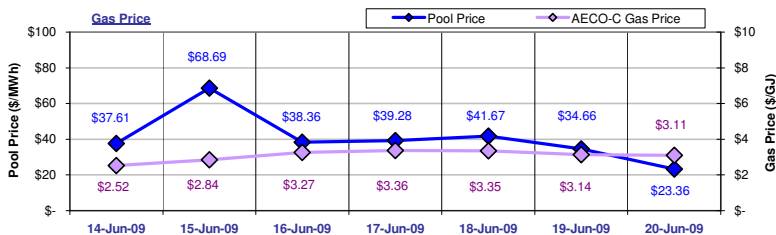


Alberta was a net importer from **BC** last week with total imports equal to 37,754 MWh. Alberta was a net importer from Saskatchewan last week with total imports equal to 13,734 MWh. Overall, Alberta imported 51,488 MWh of electricity last week.



Pool Prices were generally higher than prices in **Mid-C** and higher than prices in **Minn Hub** last week. **Mid-C** prices averaged \$26.42/MWh on-peak and \$18.98/MWh off-peak. **Minn Hub** prices averaged \$30.88/MWh on-peak and \$9.00/MWh off-peak.

Prices in \$/MWh at an exchange rate of 1.11953.



The average **AECO-C Gas Price** last week was \$3.08/GJ and ranged from a minimum of \$2.52/GJ to \$3.36/GJ. Prevailing gas prices resulted in market heat rates ranging from a low of 7.52 GJ/MWh to a high of 24.16 GJ/MWh. The average market heat rate for the week was 13.36 GJ/MWh.

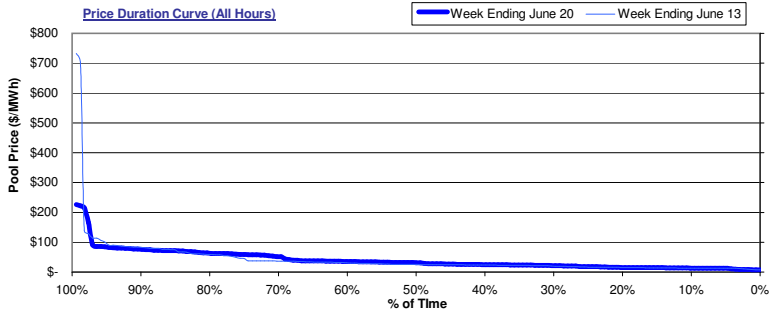


Alberta's Market Surveillance Administrator is in place to monitor the fair, efficient and openly competitive operation of all electricity markets within the province. The **Market Monitor** is a weekly publication by the MSA intended to educate industry participants and the public on market activities 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

Wholesale Market

Weekly Market Statistics

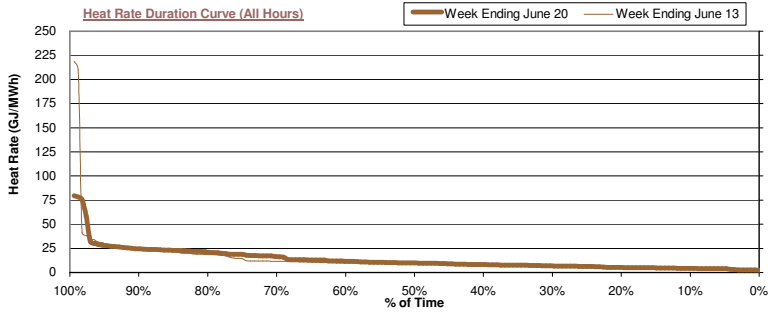
	Sunday 14-Jun	Monday 15-Jun	Tuesday 16-Jun	Wednesday 17-Jun	Thursday 18-Jun	Friday 19-Jun	Saturday 20-Jun	Average	Last Week	% Change	YTD
Pool Price											
Average	\$ 37.61	\$ 68.69	\$ 38.36	\$ 39.28	\$ 41.67	\$ 34.66	\$ 23.36	\$ 40.52	\$ 43.80	-7.5%	\$ 48.98
On-Peak	NA	\$ 95.16	\$ 50.01	\$ 50.60	\$ 53.85	\$ 44.52	\$ 29.48	\$ 53.94	\$ 63.64	-15.3%	\$ 59.54
Off-Peak	\$ 37.61	\$ 15.73	\$ 15.07	\$ 16.64	\$ 17.30	\$ 14.93	\$ 11.11	\$ 22.62	\$ 17.35	30.4%	\$ 34.10
COV	0.53	1.00	0.59	0.66	0.59	0.62	0.45	0.64	0.71	-10.6%	
Heat Rate											
Average	14.92	24.16	11.73	11.69	12.45	11.03	7.52	13.36	16.53	-19.2%	12.20
On-Peak	NA	33.47	15.29	15.05	16.09	14.17	9.49	17.26	24.19	-28.6%	14.83
Off-Peak	14.92	5.53	4.61	4.95	5.17	4.75	3.58	8.15	6.33	28.8%	8.50
Demand											
Average	7,512	8,021	8,067	8,037	7,947	7,932	7,690	7,887	7,573	4.1%	7,969
Minimum	6,618	6,863	7,008	7,005	7,002	6,950	6,920	6,909	6,698	3.2%	6,454
Maximum	8,137	8,863	8,767	8,789	8,569	8,602	8,217	8,563	8,150	5.1%	9,753
Coal Unit Availability											
Average	5,037	5,214	5,234	5,248	5,039	5,107	5,461	5,191	4,967		5,002
AC/MC	84%	87%	87%	87%	84%	85%	91%	86%	83%	3.7%	83%
Gas, Hydro and Other Unit Availability											
Average	3,502	3,498	3,651	3,654	3,630	3,566	3,443	3,563	3,659		3,593
AC/MC	66%	66%	68%	69%	68%	67%	65%	67%	69%	-1.8%	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 20**, prices were at or below:

- \$20/MWh 26% of the time
- \$50/MWh 69% of the time
- \$100/MWh 97% of the time
- \$250/MWh 100% of the time
- \$500/MWh 100% 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 20**, implied market heat rates were at or below:

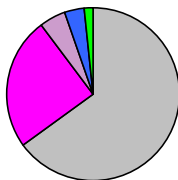
- 5.0 GJ/MWh 20% of the time
- 10.0 GJ/MWh 52% of the time
- 15.0 GJ/MWh 69% of the time
- 20.0 GJ/MWh 79% of the time

Market Share Statistics

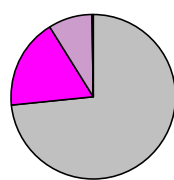
By Fuel Type:

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

Weekly Generation by Fuel Type

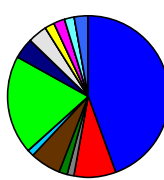


Weekly Price Setting by Fuel Type



By Submitting Customer:

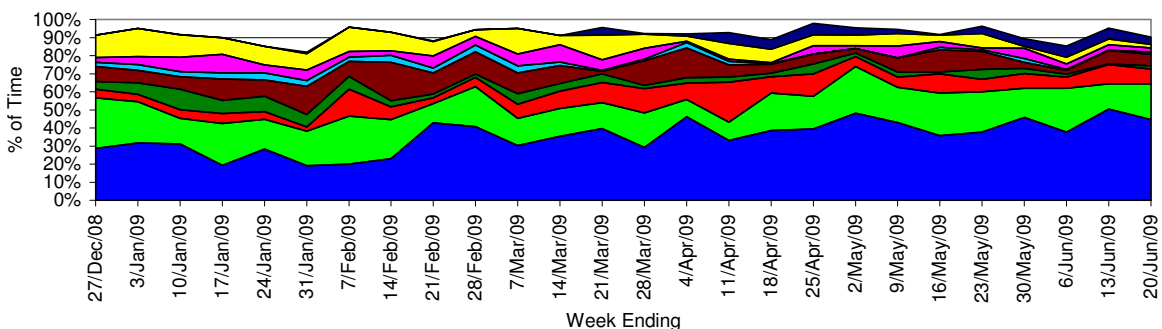
Weekly Price Setting by Submitting Customer



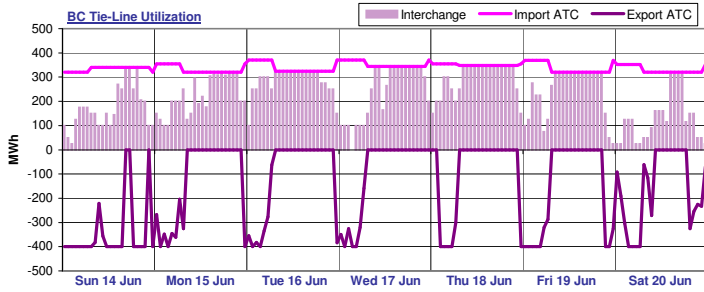
Last week, **coal units** were responsible for 65.1% of the generation in the province and set price 73.2% of the time. **Gas-cogen** units accounted for 24.7% of the generation and set price 18.0% of the time last week while **other gas** units made up 4.9% of generation and set price 8.5% of the time.

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 44.5% of the time and the top five price setters set price a total of 82.9% of the time.

Weekly Price Setting by Submitting Customer

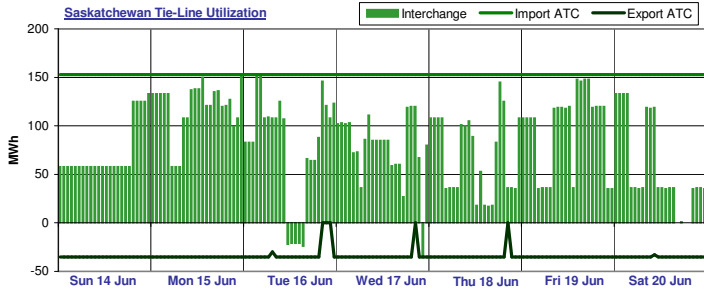


Interties

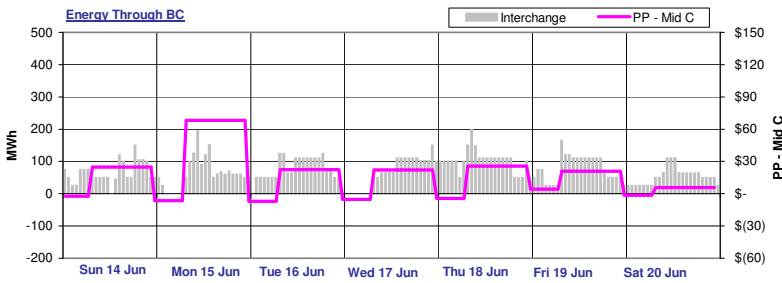


BC import capacity was 67% utilized last week while BC export capacity was 0% utilized. Energy was being imported into Alberta over the BC tie-line 99% of the time and exported out of Alberta over the BC tie-line 0% of the time last week. There was no activity on the BC tie-line 1% of the time last week.

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



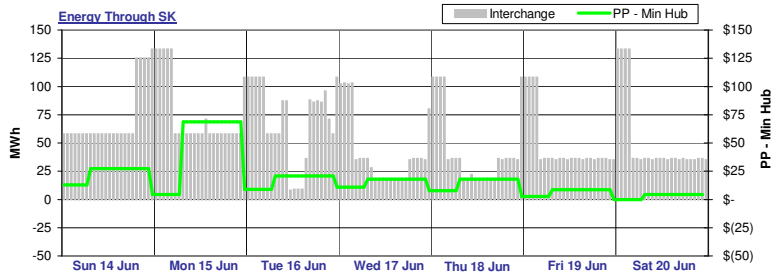
Saskatchewan import capacity was 57% utilized last week while Saskatchewan export capacity was 17% utilized. Energy was being imported into Alberta over the Saskatchewan tie-line 95% of the time and exported out of Alberta over the Saskatchewan tie-line 4% of the time last week. There was no activity on the Saskatchewan tie-line 2% of the time last week.



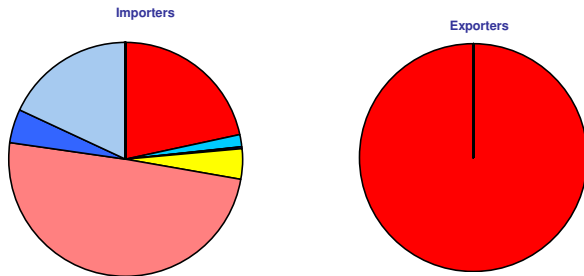
Last week, Alberta spot prices were mostly higher relative to prices in the Pacific Northwest as represented by Mid-C index prices, supporting import activity across the Alberta - BC interconnection.

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.



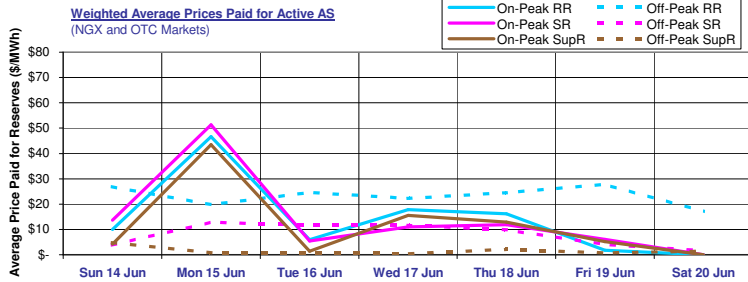
Tie-Line Market Shares



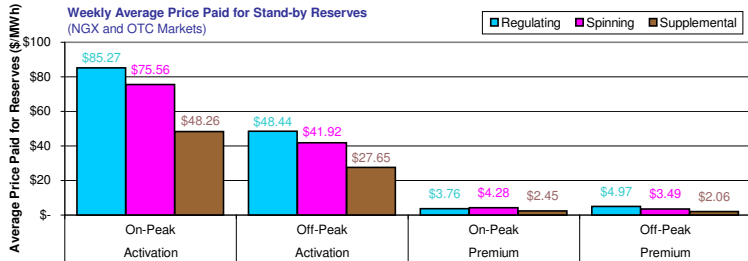
Last week, there were a total of 8 importers. The most active importer had a market share of 49.5% while the second most active importer had a market share of 21.8%. There were a total of 1 exporters last week. The most active exporter had a market share of 100% while the next largest exporter had a market share of 0%.

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

Ancillary Services Market

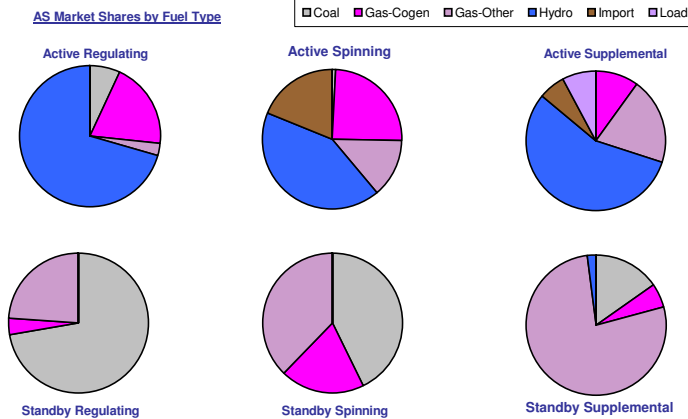


Average on-peak prices paid for active ancillary services last week were \$14.10/MWh, \$14.26/MWh and \$11.98/MWh respectively for active regulating, spinning and supplemental reserves. Active average off-peak prices were higher and averaged \$23.31/MWh, \$7.93/MWh and \$1.54/MWh for active regulating spinning and supplemental reserves respectively.



Weekly average activation prices for stand-by reserves ranged from \$27.65/MWh for off-peak supplemental reserves to \$85.27/MWh for on-peak regulating reserves. Weekly average premium prices ranged from \$2.06/MWh for off-peak supplemental reserves up to \$4.97/MWh for on-peak spinning reserves.

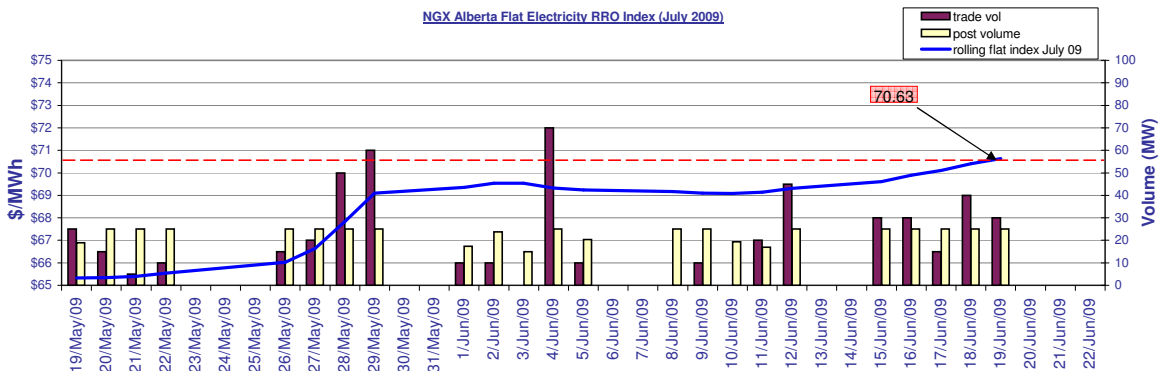
AS Market Shares by Fuel Type



Last week hydro units had the largest market share in the active regulating reserve market with 70.5%. In the active spinning reserve market, hydro units had the leading market share with 42.2% while in the active supplemental reserve market, hydro units dominated with a 56.0% market share.

Coal units dominated the standby regulating reserve market with a 72.2% market share. Leading market share in the standby spinning market was held by gas-cogen units with a 42.9% market share. In the standby supplemental reserve market, gas units had the leading market share with 77.2%.

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.