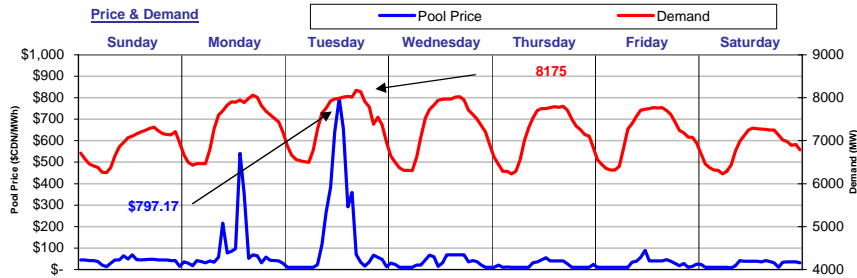


The Market Monitor

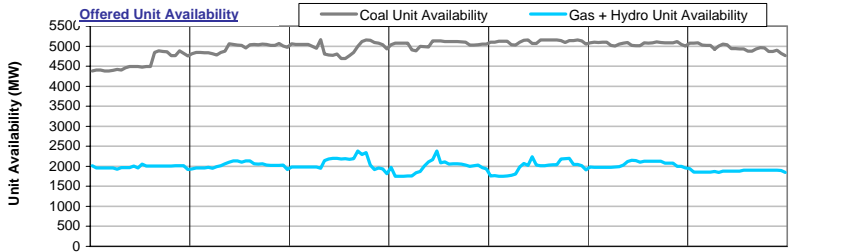
WATCHING THE MARKET : your fact source

Week Ending June 25, 2005

Weekly Highlights

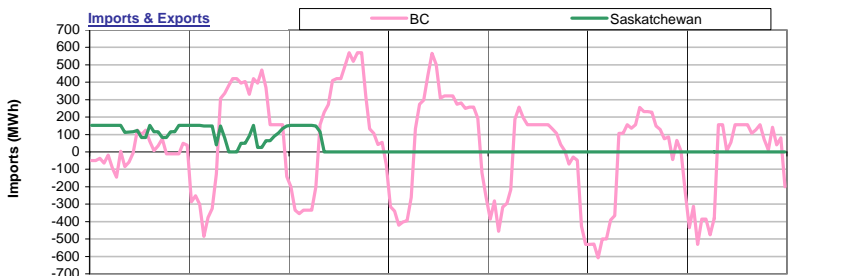


For the week ending June 25, 2005, **Pool Price** averaged \$58.24/MWh and ranged from a minimum of \$7.63/MWh in HE08 on Saturday to a maximum of \$797.17/MWh in HE13 on Tuesday. **Demand** reached a high of 8175 MW in HE17 on Tuesday and a low of 6231 MW in HE06 on Saturday. Average demand for the week was 7169MW. **Pool Price** and **Demand** were positively correlated last week with an R-squared value of 0.17.

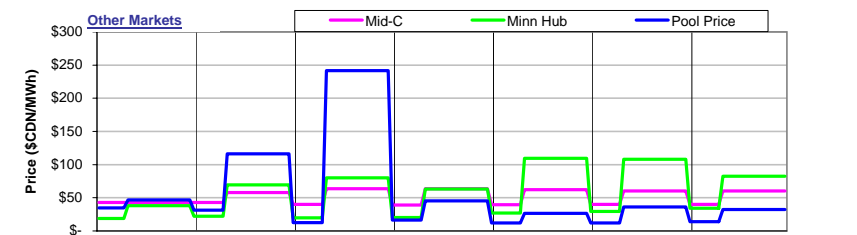


Coal Unit Availability averaged 4957 MW last week. This is an equivalent availability of 85% (based on MCR). **Gas and Hydro Unit Availability** averaged 1999MW last week, which is an equivalent of 35% (based on MCR).

Availability numbers are based on MW offered into the energy merit order.

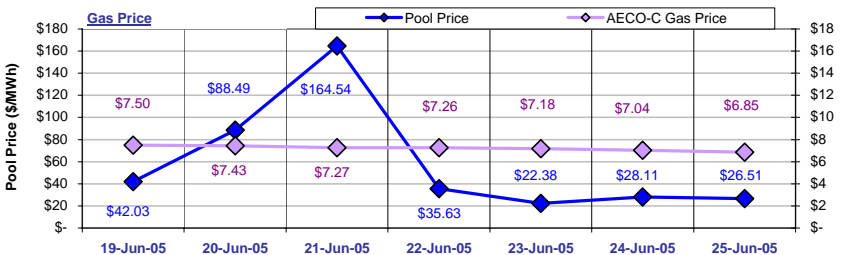


Alberta was a net importer from **BC** last week with total imports equal to 4,412MWh. Alberta was a net importer from **Saskatchewan** last week with total imports equal to 6,437MWh. Overall, Alberta imported 10,849MWh of electricity last week.



Pool Prices were generally higher than prices in **Mid-C** and lower than prices in **Minn Hub** last week. **Mid-C** prices averaged \$61.31/MWh on-peak and \$40.61/MWh off-peak. **Minn Hub** prices averaged \$85.39/MWh on-peak and \$24.57/MWh off-peak.

Prices in \$CDN at an exchange rate of 1.2286.



The average **AECO-C Gas Price** last week was \$7.22/GJ and ranged from a minimum of \$6.85/GJ to \$7.50/GJ. Prevailing gas prices resulted in market heat rates ranging from a low of 3.12GJ/MWh to a high of 22.64GJ/MWh. The average market heat rate for the week was 8.01GJ/MWh.

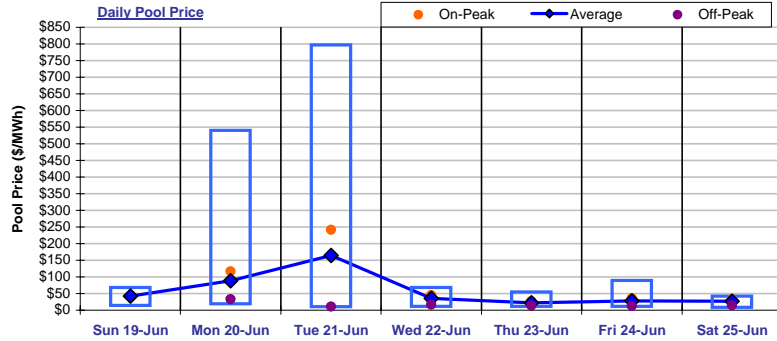


Alberta's Market Surveillance Administrator is in place to monitor the fair, efficient and openly competitive operation of all electricity markets within the province. The Market Monitor is a weekly publication by the MSA intended to educate industry participants and the public on market activities for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

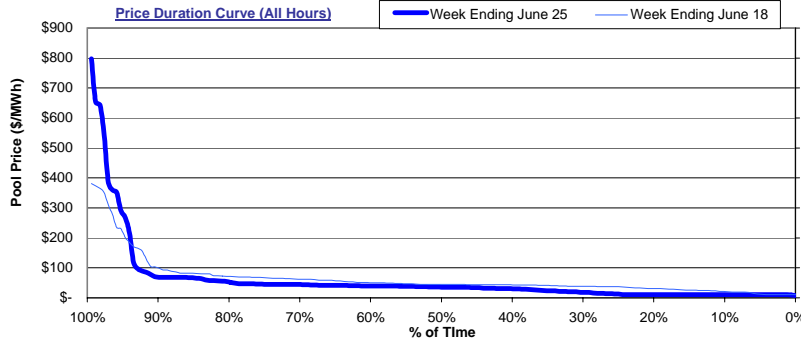
Weekly Market Statistics

	Sunday 19-Jun	Monday 20-Jun	Tuesday 21-Jun	Wednesday 22-Jun	Thursday 23-Jun	Friday 24-Jun	Saturday 25-Jun	Average	Last Week	% Change	YTD
Pool Price											
Average	\$ 42.03	\$ 88.49	\$ 164.54	\$ 35.63	\$ 22.38	\$ 28.11	\$ 26.51	\$ 58.24	\$ 63.83	-8.7%	\$ 49.04
On-Peak	NA	\$ 116.24	\$ 241.41	\$ 45.49	\$ 26.72	\$ 35.97	\$ 32.45	\$ 83.05	\$ 82.67	0.5%	\$ 57.50
Off-Peak	\$ 42.03	\$ 32.98	\$ 10.81	\$ 15.91	\$ 13.70	\$ 12.40	\$ 14.63	\$ 25.17	\$ 38.70	-35.0%	\$ 35.30
COV	0.30	1.36	1.44	0.65	0.65	0.70	0.49	0.80	0.83	-3.7%	
Demand											
Average	6,881	7,381	7,430	7,306	7,157	7,175	6,855	7,169	7,231	-0.9%	7,464
Minimum	6,261	6,428	6,498	6,306	6,231	6,316	6,231	6,324	6,440	-1.8%	6,017
Maximum	7,317	8,060	8,175	8,025	7,801	7,770	7,297	7,778	7,800	-0.3%	9,236
Coal Unit Availability											
Average	4,583	4,954	4,961	5,057	5,118	5,069	4,955	4,957	4,738	3.7%	5,226
Utilization	78%	85%	85%	87%	88%	87%	85%	85%	81%	3.7%	89%
Gas and Hydro Unit Availability											
Average	1,986	2,032	2,083	1,980	1,976	2,050	1,883	1,999	2,040	-0.7%	2,156
Utilization	42%	43%	44%	42%	42%	43%	40%	35%	36%	-0.7%	38%



The Daily Pool Price graph plots the daily range in hourly Pool price (defined by the blue box) along with the daily average and daily on and off-peak prices. The **on-peak Pool price** for the week was **\$83.05/MWh** while the **off-peak Pool price** for the week was **\$25.17/MWh**.

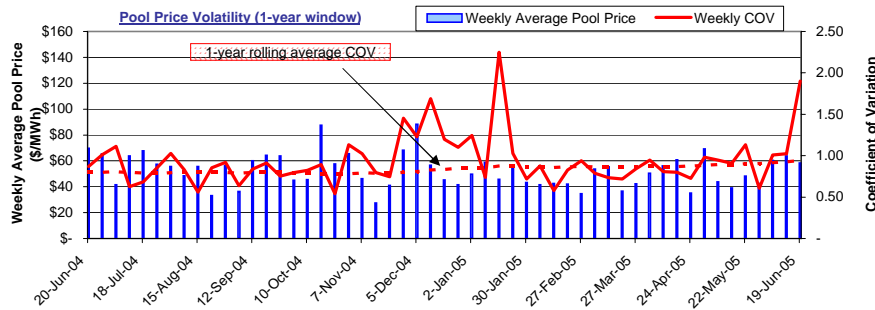
Note: Sundays and most statutory holidays are defined as off-peak.



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 25**, prices were at or below:

- \$20/MWh 30% of the time
- \$50/MWh 79% of the time
- \$100/MWh 93% of the time
- \$250/MWh 94% of the time
- \$500/MWh 97% of the time



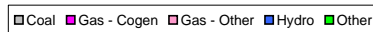
The chart plots average weekly **Pool Price** and the **Coefficient of Variation (COV)** of hourly Pool prices for the week. The COV is a standard statistical measure of volatility.

Pool price volatility **increased** for the week ending **June 25** from the previous week.

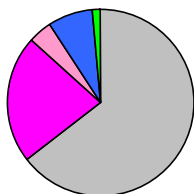
Pool price volatility also moved **above** the 1-year rolling average COV value.

Market Share Statistics

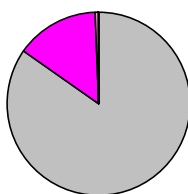
By Fuel Type:



Weekly Generation by Fuel Type



Weekly Price Setting by Fuel Type



By Submitting Customer:

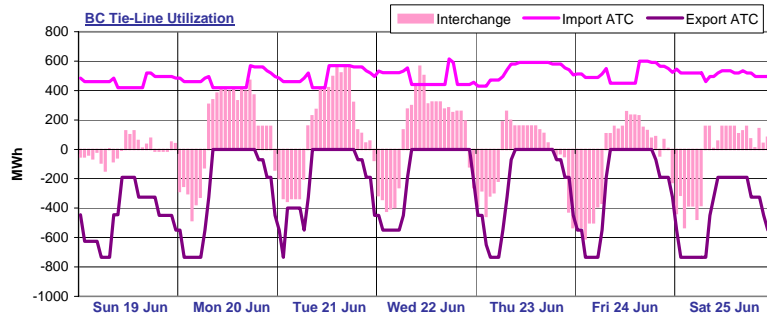
Weekly Price Setting by Submitting Customer



Last week, coal units were responsible for **64.4%** of the generation in the province and set price **84.7%** of the time. **Gas-cogen** units accounted for **22.2%** of the generation and set price **14.7%** of the time last week while **other gas** units made up **4.1%** of generation and set price **0.6%** of the time.

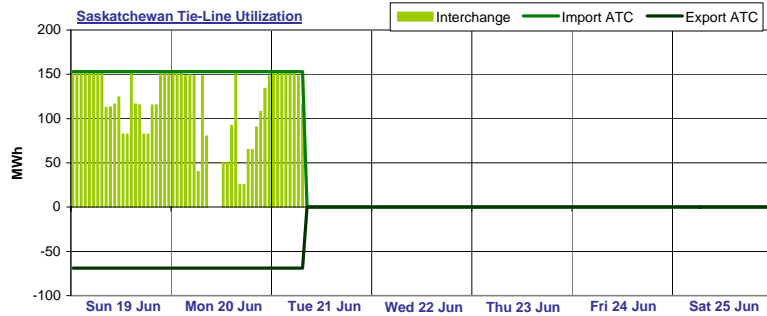
A total of **11** market participants set price last week. **Three** market participants set price more than **20%** of the time last week. The top price setter set price **34.4%** of the time and the top five price setters set price a total of **90.8%** of the time.

Interties



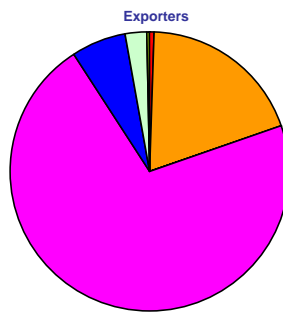
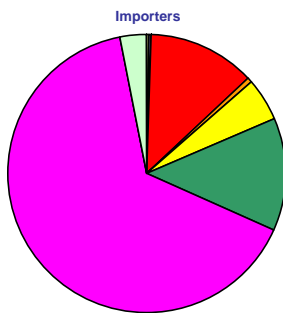
BC import capacity was 27% utilized last week while BC export capacity was 31% utilized. Energy was being imported into Alberta over the BC tie-line 61% of the time and exported out of Alberta over the BC tie-line 39% of the time last week. There was no activity on the BC tie-line 0% of the time last 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 75% utilized last week while Saskatchewan export capacity was 0% utilized. Energy was being imported into Alberta over the Saskatchewan tie-line 32% of the time and exported out of Alberta over the Saskatchewan tie-line 0% of the time last week. There was no activity on the Saskatchewan tie-line 68% of the time last week.

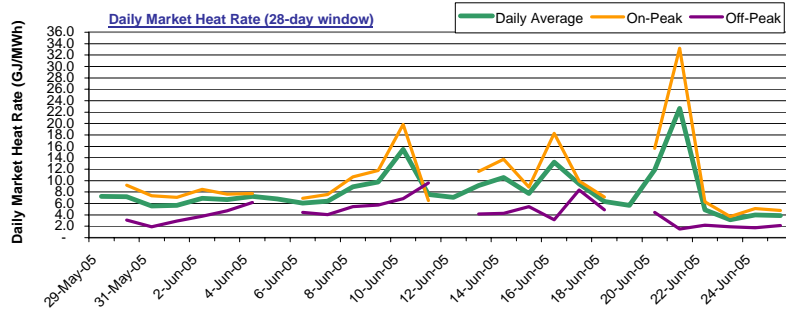
Tie-Line Market Shares



Last week, there were a total of 8 importers. The most active importer had a market share of 65.4% while the second most active importer had a market share of 12.8%. There were a total of 6 exporters last week. The most active exporter had a market share of 712.0% while the next largest exporter had a market share of 19.2%.

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

Market Heat Rates



Over the past 28 days, the daily Market Heat Rate averaged 8.1 GJ/MWh and ranged from a low of 3.1 GJ/MWh to a high of 22.6 GJ/MWh.

The daily On-Peak Market Heat Rate for the last 28 days averaged 10.4 GJ/MWh while the daily Off-Peak Market Heat Rate averaged 4.3 GJ/MWh.

Sparksreads

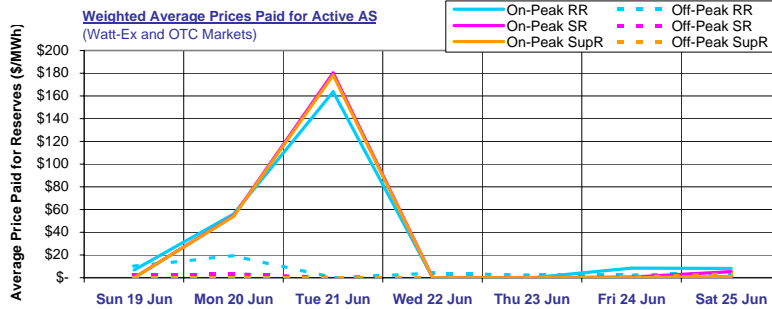
Date	AECO-C Gas Price (\$/GJ)	Daily Average			On-Peak			Off-Peak		
		Pool Price (\$/MWh)	Sparksread (\$/MWh) HR=7.5	Sparksread (\$/MWh) HR=10.0	Pool Price (\$/MWh)	Sparksread (\$/MWh) HR=7.5	Sparksread (\$/MWh) HR=10.0	Pool Price (\$/MWh)	Sparksread (\$/MWh) HR=7.5	Sparksread (\$/MWh) HR=10.0
Sun 19 Jun	\$ 7.50	\$ 42.62	(13.65)	(32.40)	NA	NA	NA	\$ 42.62	(13.65)	(32.40)
Mon 20 Jun	\$ 7.43	\$ 88.49	32.77	14.20	\$ 116.24	60.53	41.96	\$ 32.98	(22.74)	(41.31)
Tue 21 Jun	\$ 7.27	\$ 164.54	110.03	91.86	\$ 241.41	186.90	168.73	\$ 10.81	(43.70)	(61.87)
Wed 22 Jun	\$ 7.26	\$ 35.63	(18.86)	(37.02)	\$ 45.49	(9.00)	(27.16)	\$ 15.91	(38.58)	(56.74)
Thu 23 Jun	\$ 7.18	\$ 22.38	(31.45)	(49.39)	\$ 26.72	(27.11)	(45.05)	\$ 13.70	(40.13)	(58.07)
Fri 24 Jun	\$ 7.04	\$ 28.11	(24.72)	(42.33)	\$ 35.97	(16.87)	(34.48)	\$ 12.40	(40.43)	(58.04)
Sat 25 Jun	\$ 6.85	\$ 26.51	(24.85)	(41.97)	\$ 32.45	(18.91)	(36.03)	\$ 14.63	(36.73)	(53.85)

Daily average sparksreads last week were mostly negative for a heat rate of 7.5 GJ/MWh and mostly negative for a heat rate of 10.0 GJ/MWh.

On-peak sparksreads last week were mostly negative for a heat rate of 7.5 GJ/MWh and mostly negative for a heat rate of 10.0 GJ/MWh.

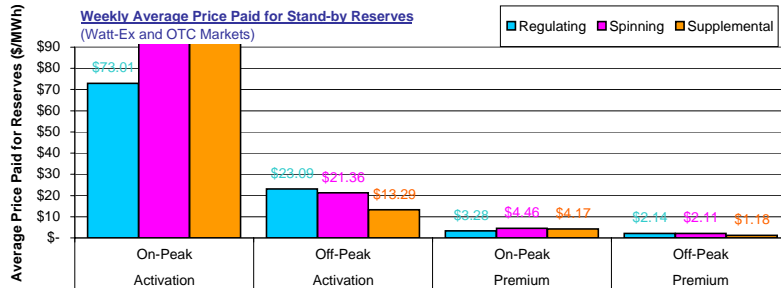
Off-peak sparksreads last week were all negative for a heat rate of 7.5 GJ/MWh and all negative for a heat rate of 10.0 GJ/MWh.

Ancillary Services Market



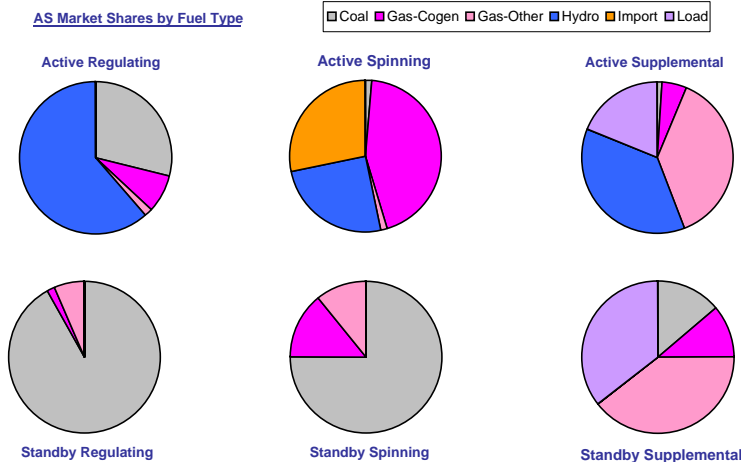
Average on-peak prices paid for active ancillary services last week were \$34.58/MWh, \$35.97/MWh and \$35.00/MWh respectively for active regulating, spinning and supplemental reserves.

Active average off-peak prices were somewhat lower and averaged \$7.07/MWh, \$1.41/MWh and \$0.56/MWh for active regulating, spinning and supplemental reserves respectively.



Weekly average activation prices for stand-by reserves ranged from \$13.29/MWh for off-peak supplemental reserves to \$130.72/MWh for on-peak spinning reserves. Weekly average premium prices ranged from \$1.18/MWh for off-peak supplemental reserves up to \$4.46/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 61.5%. In the active spinning reserve market, gas units had the leading market share with 43.9% while in the active supplemental reserve market, gas units dominated with a 37.7% market share.

Coal units dominated the standby regulating reserve market with a 91.9% market share. Leading market share in the standby spinning market was held by coal units with a 74.9% market share. In the standby supplemental reserve market, gas-other units had the leading market share with 39.6%.

Glossary

HE	Hour Ending
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 + holidays (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)
COV	Coefficient of Variation The standard deviation of a series of numbers divided by the mean of the same series of numbers. Used as a measure of volatility.
ATC	Available Transfer Capacity 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.