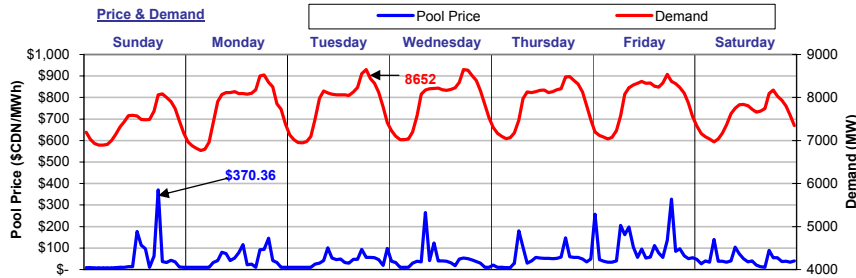


The Market Monitor

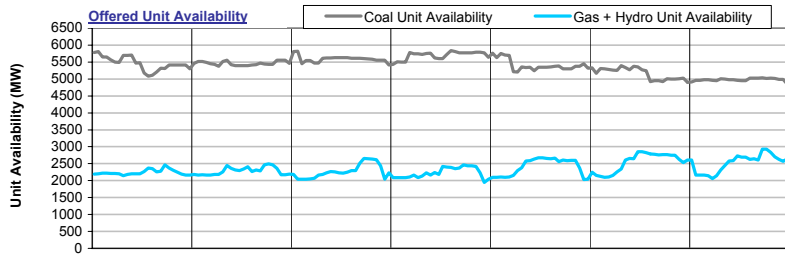
WATCHING THE MARKET : your fact source

Week Ending January 29, 2005

Weekly Highlights

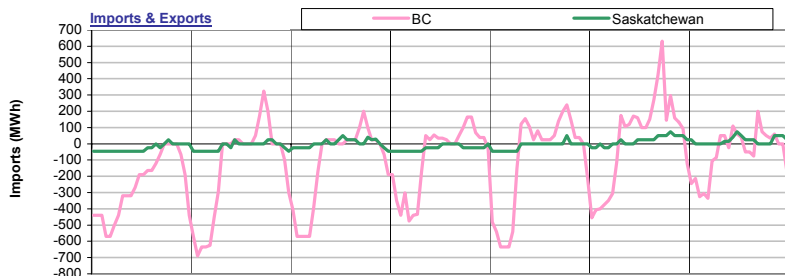


For the week ending January 29, 2005, **Pool Price** averaged \$54.30/MWh and ranged from a minimum of \$7.74/MWh in HE03 on Sunday to a maximum of \$370.36/MWh in HE18 on Sunday. **Demand** reached a high of 8652 MW in HE19 on Tuesday and a low of 6770 MW in HE04 on Monday. Average demand for the week was 7753MW. **Pool Price** and **Demand** were positively correlated last week with an R-squared value of 0.13.

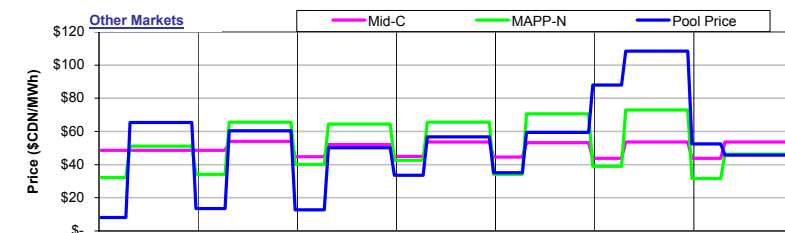


Coal Unit Availability averaged 5395 MW last week. This is an equivalent availability of 90% (based on MCR). **Gas and Hydro Unit Availability** averaged 2359MW last week, which is an equivalent of 42% (based on MCR).

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

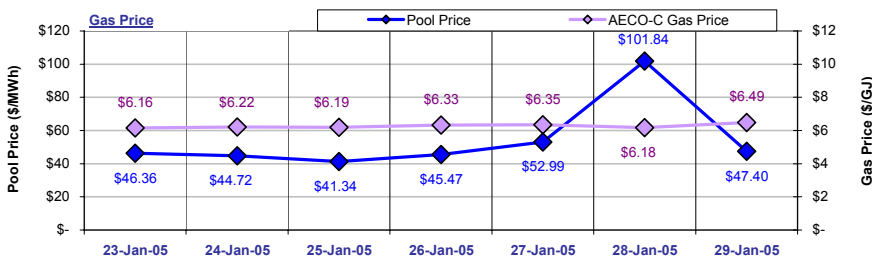


Alberta was a net **Exporter to BC** last week with total **Exports** equal to 17,584MWh. Alberta was a net **Exporter to Saskatchewan** last week with total **Exports** equal to 903MWh. Overall, Alberta **exported 18,487MWh** of electricity last week.



Pool Prices were generally **higher** than prices in **Mid-C** and **higher** than prices in **MAPP-N** last week. **Mid-C** prices averaged \$53.39/MWh on-peak and \$45.56/MWh off-peak. **MAPP-N** prices averaged \$64.27/MWh on-peak and \$36.23/MWh off-peak.

Prices in \$CDN at an exchange rate of 1.2164.



The average **AECO-C Gas Price** last week was \$6.27/GJ and ranged from a minimum of \$6.16/GJ to \$6.49/GJ. Prevailing gas prices resulted in market heat rates ranging from a low of 6.68GJ/MWh to a high of 16.49GJ/MWh. The average market heat rate for the week was 8.67GJ/MWh.

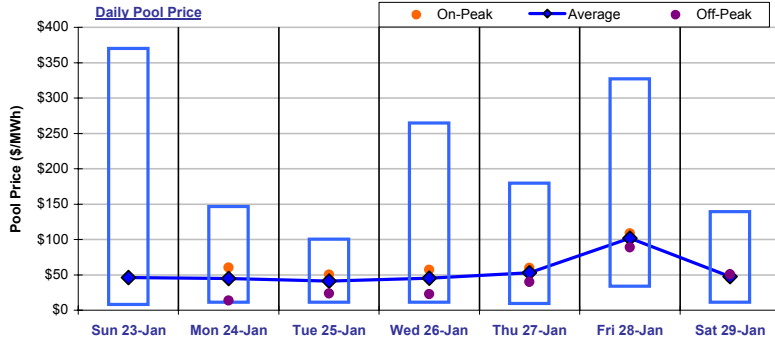


Alberta's Market Surveillance Administrator is in place to monitor the fair, efficient and openly competitive operation of all electricity markets within the province. The Market Monitor is a weekly publication by the MSA intended to educate industry participants and the public on market activities for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

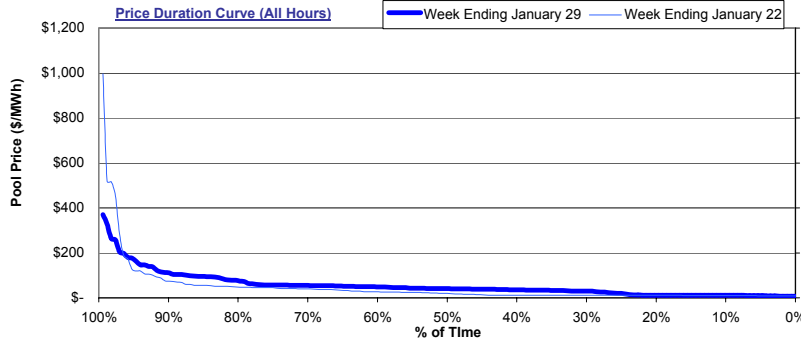
Weekly Market Statistics

	Sunday 23-Jan	Monday 24-Jan	Tuesday 25-Jan	Wednesday 26-Jan	Thursday 27-Jan	Friday 28-Jan	Saturday 29-Jan	Average	Last Week	% Change	YTD
Pool Price											
Average	\$ 46.36	\$ 44.72	\$ 41.34	\$ 45.47	\$ 52.99	\$ 101.84	\$ 47.40	\$ 54.30	\$ 45.65	19.0%	\$ 51.08
On-Peak	NA	\$ 60.32	\$ 50.21	\$ 56.81	\$ 59.51	\$ 108.40	\$ 45.75	\$ 63.50	\$ 34.99	81.5%	\$ 53.37
Off-Peak	\$ 46.36	\$ 13.51	\$ 23.60	\$ 22.79	\$ 39.95	\$ 88.71	\$ 50.69	\$ 42.04	\$ 59.86	-29.8%	\$ 41.03
COV	1.74	0.87	0.66	1.14	0.76	0.75	0.61	0.93	0.97	-3.8%	
Demand											
Average	7,419	7,753	7,826	7,913	7,865	7,922	7,575	7,753	7,918	-2.1%	7,483
Minimum	6,892	6,770	6,945	7,021	7,041	7,039	6,972	6,954	7,153	-2.8%	6,017
Maximum	8,088	8,522	8,652	8,652	8,490	8,537	8,176	8,445	8,619	-2.0%	9,236
Coal Unit Availability											
Average	5,462	5,461	5,592	5,697	5,410	5,160	4,981	5,395	5,470	-1.3%	5,415
Utilization	94%	94%	96%	98%	93%	88%	85%	92%	94%	-1.3%	93%
Gas and Hydro Unit Availability											
Average	2,244	2,285	2,275	2,233	2,410	2,544	2,525	2,359	2,361	0.0%	2,497
Utilization	47%	48%	48%	47%	51%	53%	53%	42%	42%	0.0%	44%



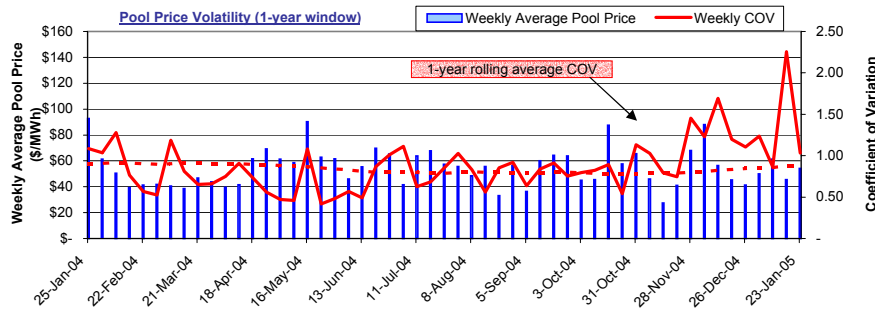
The Daily Pool Price graph plots the daily range in hourly Pool price (defined by the blue box) along with the daily average and daily on and off-peak prices. The **on-peak Pool price** for the week was **\$63.50/MWh** while the **off-peak Pool price** for the week was **\$42.04/MWh**.

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 **January, 29**, prices were at or below:
 \$20/MWh 25% of the time
 \$50/MWh 63% of the time
 \$100/MWh 87% of the time
 \$250/MWh 97% of the time
 \$500/MWh 100% of the time



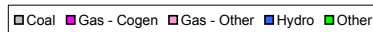
The chart plots average weekly **Pool Price** and the **Coefficient of Variation (COV)** of hourly Pool prices for the week. The COV is a standard statistical measure of volatility.

Pool price volatility **decreased** for the week ending **January 29** from the previous week.

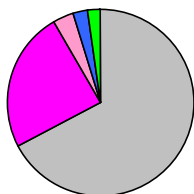
Pool price volatility also moved **above** the 1-year rolling average COV value.

Market Share Statistics

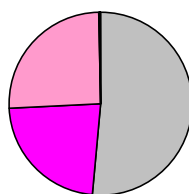
By Fuel Type:



Weekly Generation by Fuel Type

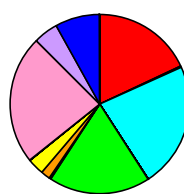


Weekly Price Setting by Fuel Type



By Submitting Customer:

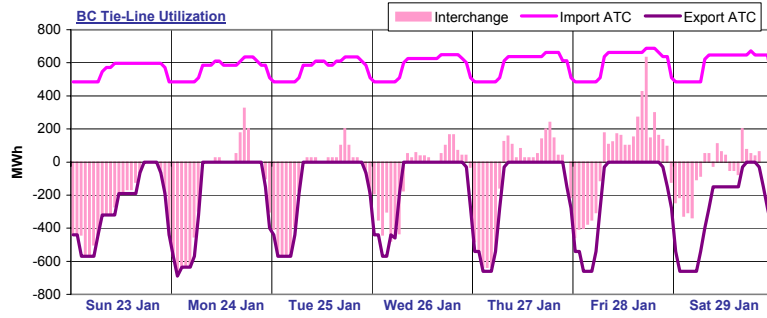
Weekly Price Setting by Submitting Customer



Last week, coal units were responsible for **67.2%** of the generation in the province and set price **51.3%** of the time. **Gas-cogen** units accounted for **24.6%** of the generation and set price **22.8%** of the time last week while **other gas** units made up **3.5%** of generation and set price **25.8%** of the time.

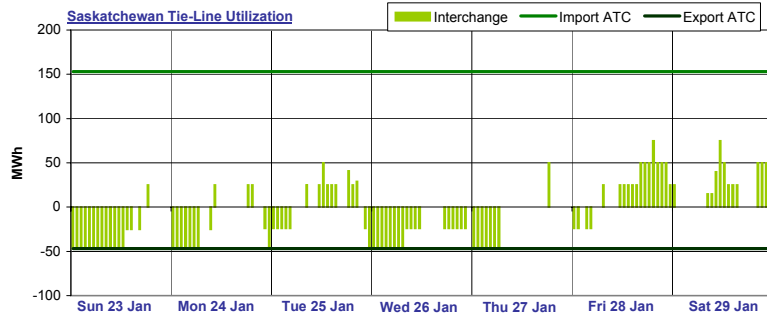
A total of **12** market participants set price last week. **2** market participants set price more than **20%** of the time last week. The top price setter set price **23.1%** of the time and the top five price setters set price a total of **90.0%** of the time.

Interties



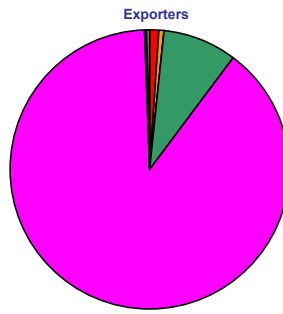
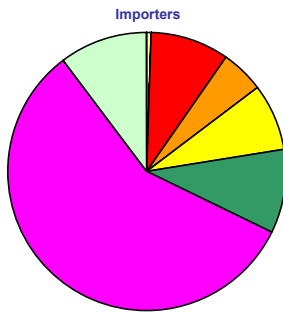
BC import capacity was 7% utilized last week while BC export capacity was 66% utilized. Energy was being imported into Alberta over the BC tie-line 42% of the time and exported out of Alberta over the BC tie-line 45% of the time last week. There was no activity on the BC tie-line 13% of the time last 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 6% utilized last week while Saskatchewan export capacity was 30% utilized. Energy was being imported into Alberta over the Saskatchewan tie-line 24% of the time and exported out of Alberta over the Saskatchewan tie-line 37% of the time last week. There was no activity on the Saskatchewan tie-line 39% of the time last week.

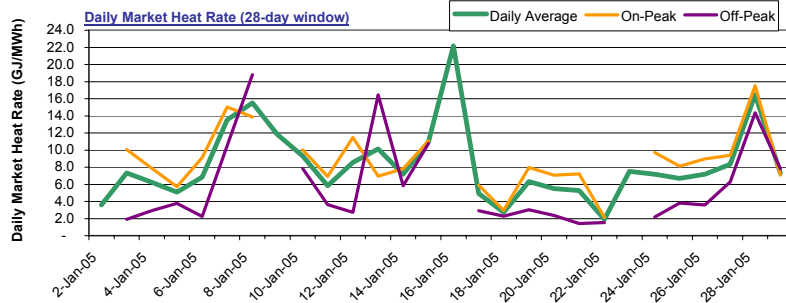
Tie-Line Market Shares



Last week, there were a total of 7 importers. The most active importer had a market share of 57.4% while the second most active importer had a market share of 10.4%. There were a total of 6 exporters last week. The most active exporter had a market share of 88.9% while the next largest exporter had a market share of 8.6%.

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 8.3 GJ/MWh and ranged from a low of 1.9 GJ/MWh to a high of 22.2 GJ/MWh.

The daily On-Peak Market Heat Rate for the last 28 days averaged 8.7 GJ/MWh while the daily Off-Peak Market Heat Rate averaged 5.8 GJ/MWh.

Sparksreads

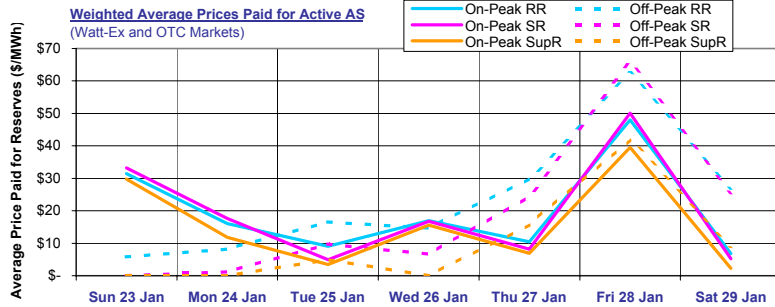
Date	AECO-C Gas Price (\$/GJ)	Daily Average			On-Peak			Off-Peak				
		Pool Price (\$/MWh)	Sparksread (\$/MWh)	HR=7.5	HR=10.0	Pool Price (\$/MWh)	Sparksread (\$/MWh)	HR=7.5	HR=10.0	Pool Price (\$/MWh)	Sparksread (\$/MWh)	HR=7.5
Sun 23 Jan	\$ 6.16	\$ 46.36	0.13	(15.28)	NA	NA	NA	\$ 46.36	0.13	(15.28)		
Mon 24 Jan	\$ 6.22	\$ 44.72	(1.90)	(17.44)	\$ 60.32	13.70	(1.84)	\$ 13.51	(33.11)	(48.65)		
Tue 25 Jan	\$ 6.19	\$ 41.34	(5.10)	(20.58)	\$ 50.21	3.77	(11.71)	\$ 23.60	(22.84)	(38.32)		
Wed 26 Jan	\$ 6.33	\$ 45.47	(2.02)	(17.85)	\$ 56.81	9.32	(6.51)	\$ 22.79	(24.69)	(40.52)		
Thu 27 Jan	\$ 6.35	\$ 52.99	5.36	(10.51)	\$ 59.51	11.88	(4.00)	\$ 39.95	(7.68)	(23.55)		
Fri 28 Jan	\$ 6.18	\$ 101.84	55.52	40.07	\$ 108.40	62.08	46.64	\$ 88.71	42.39	26.95		
Sat 29 Jan	\$ 6.49	\$ 47.40	(1.29)	(17.52)	\$ 45.75	(2.94)	(19.17)	\$ 50.69	2.00	(14.23)		

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 positive for a heat rate of 7.5 GJ/MWh and mostly negative for a heat rate of 10.0 GJ/MWh.

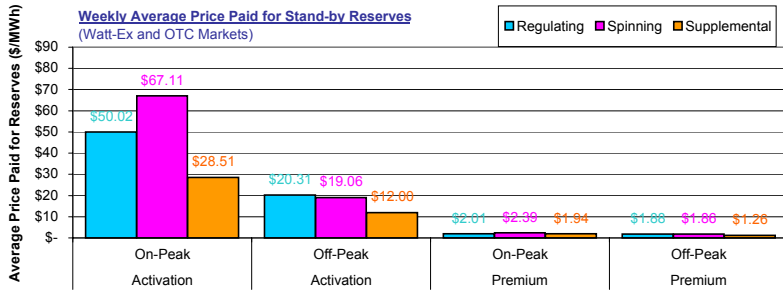
Off-peak sparksreads last week were mostly negative for a heat rate of 7.5 GJ/MWh and mostly negative for a heat rate of 10.0 GJ/MWh.

Ancillary Services Market



Average on-peak prices paid for active ancillary services last week were **\$19.75/MWh**, **\$19.33/MWh** and **\$15.56/MWh** respectively for active **regulating**, **spinning** and **supplemental** reserves.

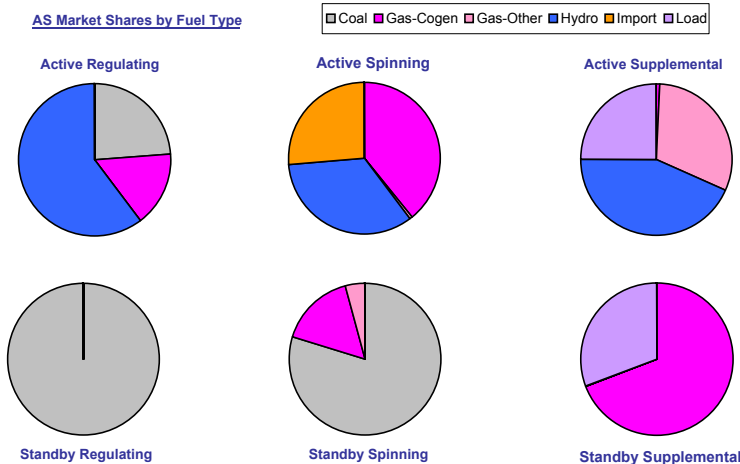
Active average off-peak prices were somewhat lower and averaged **\$23.59/MWh**, **\$19.26/MWh** and **\$10.35/MWh** for active **regulating**, **spinning** and **supplemental** reserves respectively.



Weekly average activation prices for stand-by reserves ranged from **\$12.00/MWh** for **off-peak supplemental** reserves to **\$67.11/MWh** for **on-peak spinning** reserves.

Weekly average premium prices ranged from **\$1.26/MWh** for **off-peak supplemental** reserves up to **\$2.39/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 **60.4%**. In the **active spinning** reserve market, **hydro** units had the leading market share with **39.1%** while in the **active supplemental** reserve market, **hydro** units dominated with a **43.2%** market share.

Coal units dominated the **standby regulating** reserve market with a **100.0%** market share. Leading market share in the **standby spinning** market was held by **coal** units with a **79.6%** market share. In the **standby supplemental** reserve market, **gas-cogen** units had the leading market share with **69.2%**.

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 MAPP-N: 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 MAPP-N: 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.