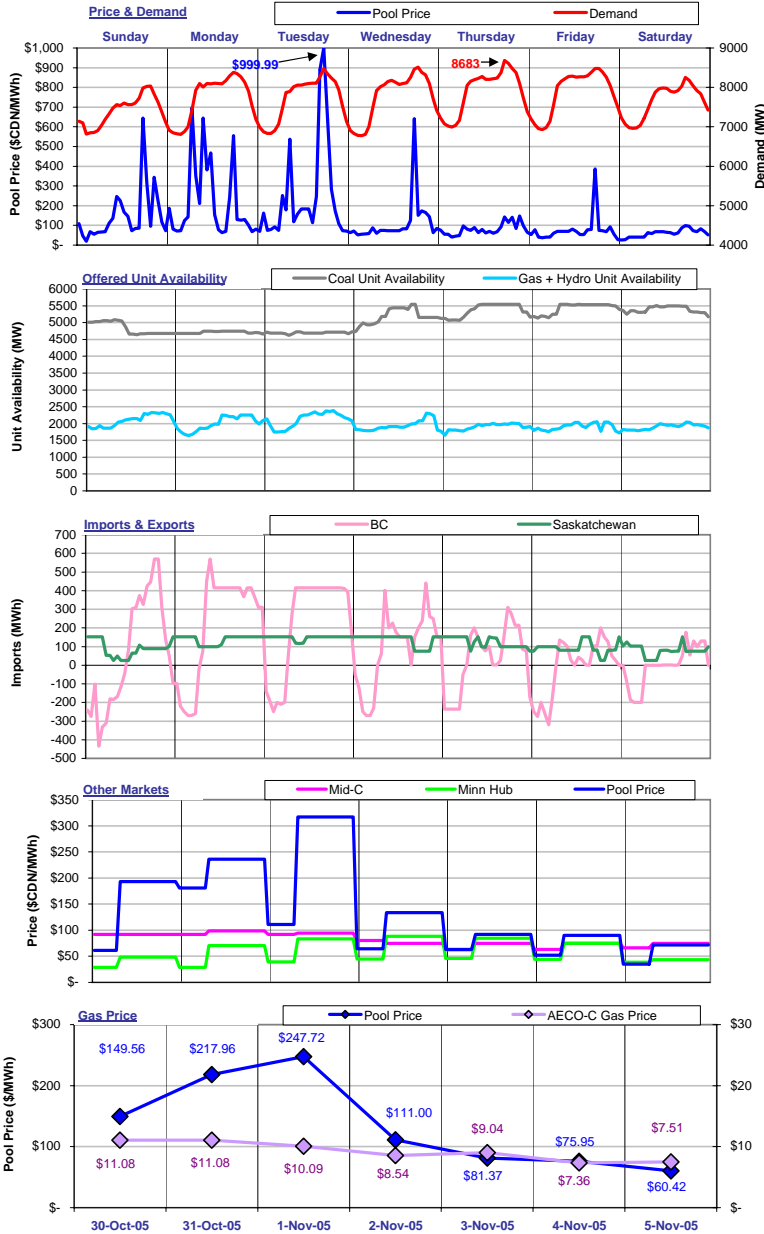


The Market Monitor

WATCHING THE MARKET : your fact source

Week Ending November 5, 2005

Weekly Highlights



For the week ending November 5, 2005, **Pool Price** averaged \$134.85/MWh and ranged from a minimum of \$19.91/MWh in HE03 on Sunday to a maximum of \$999.99/MWh in HE18 on Tuesday. **Demand** reached a high of 8683 MW in HE18 on Thursday and a low of 6774 MW in HE04 on Wednesday. Average demand for the week was 7723MW. **Pool Price** and **Demand** were positively correlated last week with an R-squared value of 0.09.

Coal Unit Availability averaged 5089 MW last week. This is an equivalent availability of 87% (based on MCR). **Gas and Hydro Unit Availability** averaged 1980MW 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 14,695MWh. Alberta was a net importer from **Saskatchewan** last week with total imports equal to 19,361MWh. Overall, Alberta imported 34,056MWh 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 \$82.10/MWh on-peak and \$78.15/MWh off-peak. **Minn Hub** prices averaged \$74.31/MWh on-peak and \$38.70/MWh off-peak.

Prices in \$/MWh at an exchange rate of 1.1777.

The average **AECO-C Gas Price** last week was \$9.25/GJ and ranged from a minimum of \$7.36/GJ to \$11.08/GJ. Prevailing gas prices resulted in market heat rates ranging from a low of 8.04GJ/MWh to a high of 24.55GJ/MWh. The average market heat rate for the week was 14.01GJ/MWh.

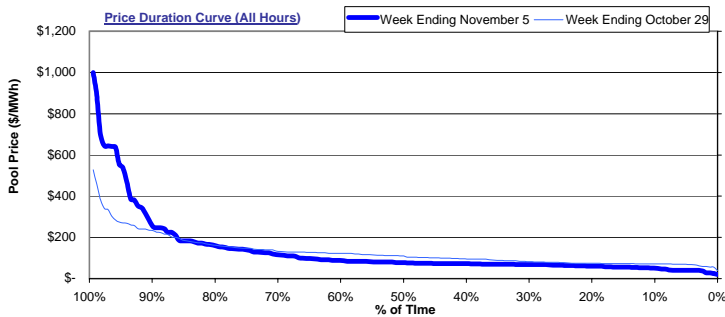


Alberta's Market Surveillance Administrator is in place to monitor the fair, efficient and openly competitive operation of all electricity markets within the province. The Market Monitor is a weekly publication by the MSA intended to educate industry participants and the public on market activities for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

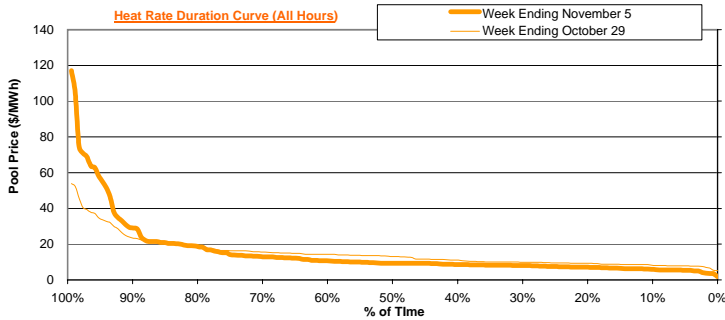
	Sunday 30-Oct	Monday 31-Oct	Tuesday 1-Nov	Wednesday 2-Nov	Thursday 3-Nov	Friday 4-Nov	Saturday 5-Nov	Average	Last Week	% Change	YTD
Pool Price											
Average	\$ 149.56	\$ 217.96	\$ 247.72	\$ 111.00	\$ 81.37	\$ 75.95	\$ 60.42	\$ 134.85	\$ 128.71	4.8%	\$ 62.57
On-Peak	NA	\$ 235.85	\$ 316.72	\$ 133.43	\$ 91.73	\$ 90.32	\$ 71.60	\$ 156.61	\$ 140.90	11.1%	\$ 75.70
Off-Peak	\$ 149.56	\$ 182.17	\$ 109.72	\$ 66.15	\$ 60.67	\$ 47.21	\$ 38.07	\$ 105.85	\$ 112.46	-5.9%	\$ 41.93
COV	0.91	0.89	1.03	1.07	0.37	0.90	0.33	0.78	0.52	49.9%	
Heat Rate											
Average	13.50	19.67	24.55	12.99	9.00	10.32	8.04	14.01	11.00	27.4%	7.86
On-Peak	NA	23.37	37.07	14.76	12.46	12.03	9.90	18.26	16.87	8.3%	9.52
Off-Peak	13.50	17.84	12.68	7.37	8.00	6.30	5.25	10.88	12.13	-10.3%	5.72
Demand											
Average	7,412	7,726	7,722	7,770	7,901	7,883	7,644	7,723	7,600	1.6%	7,450
Minimum	6,815	6,806	6,830	6,774	6,997	6,931	6,965	6,874	6,760	1.7%	6,017
Maximum	8,034	8,385	8,474	8,509	8,683	8,483	8,255	8,403	8,169	2.9%	9,236
Coal Unit Availability											
Average	4,835	4,714	4,697	5,189	5,371	5,427	5,387	5,089	4,928	2.8%	5,166
Utilization	83%	81%	80%	89%	92%	93%	92%	87%	84%	2.8%	88%
Gas and Hydro Unit Availability											
Average	2,094	2,001	2,120	1,936	1,904	1,903	1,904	1,980	2,035	-1.0%	2,102
Utilization	44%	42%	45%	41%	40%	40%	40%	35%	36%	-1.0%	37%



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

For the week ending **November 5**, prices were at or below:

- \$20/MWh 0% of the time
- \$50/MWh 10% of the time
- \$100/MWh 66% of the time
- \$250/MWh 89% of the time
- \$500/MWh 94% 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 **November 5**, implied market heat rates were at or below:

- 5.0 GJ/MWh 4% of the time
- 10.0 GJ/MWh 56% of the time
- 15.0 GJ/MWh 76% of the time
- 20.0 GJ/MWh 83% of the time

Market Share Statistics

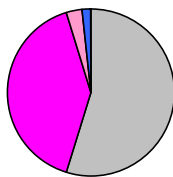
By Fuel Type:



Weekly Generation by Fuel Type



Weekly Price Setting by Fuel Type



By Submitting Customer:

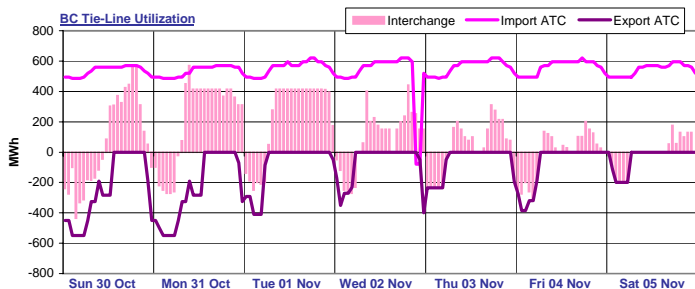
Weekly Price Setting by Submitting Customer



Last week, coal units were responsible for **67.1%** of the generation in the province and set price **55.0%** of the time. **Gas-cogen** units accounted for **22.2%** of the generation and set price **41.0%** of the time last week while **other gas** units made up **5.1%** of generation and set price **3.1%** of the time.

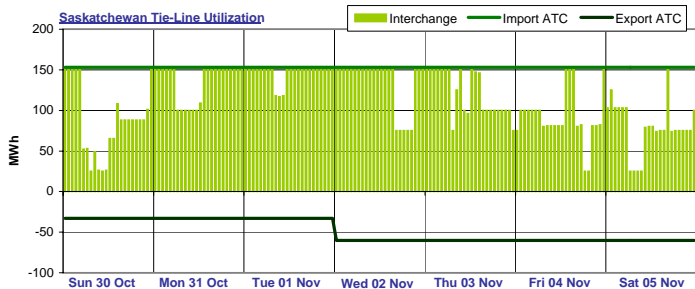
A total of **11** market participants set price last week. **One** market participants set price more than **20%** of the time last week. The top price setter set price **21.7%** of the time and the top five price setters set price a total of **80.1%** of the time.

Interties

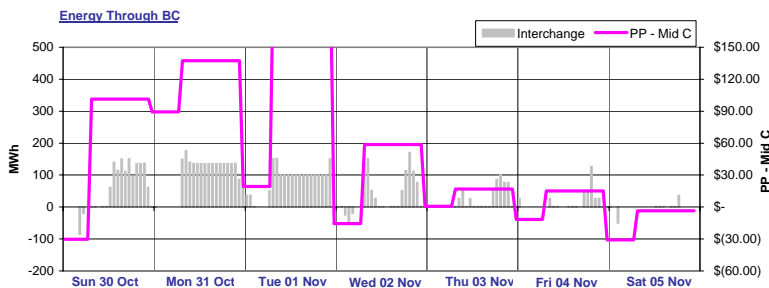


BC import capacity was 22% utilized last week while BC export capacity was 57% utilized. Energy was being imported into Alberta over the BC tie-line 63% of the time and exported out of Alberta over the BC tie-line 29% of the time last week. There was no activity on the BC tie-line 8% of the time last 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.



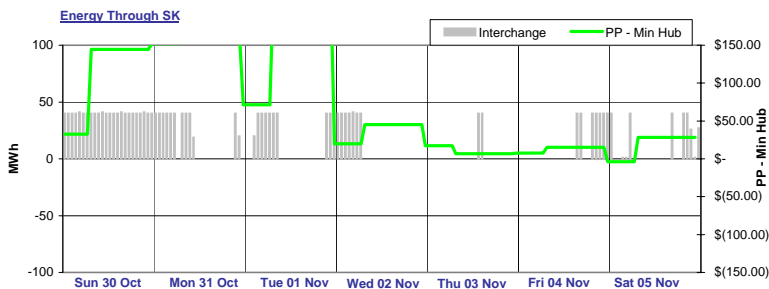
Saskatchewan import capacity was 75% utilized last week while Saskatchewan export capacity was 0% utilized. Energy was being imported into Alberta over the Saskatchewan tie-line 100% of the time and exported out of Alberta over the Saskatchewan tie-line 0% of the time last week. There was no activity on the Saskatchewan tie-line 0% of the time last week.



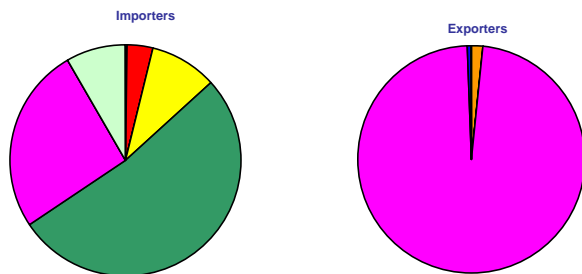
Last week, Alberta spot prices were mostly higher relative to prices in the Pacific Northwest as represented by Mid-C index prices, supporting import activity across the Alberta - BC interconnection.

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

Note: Platt's day-ahead strip used for Min Hub and Mid C reference.



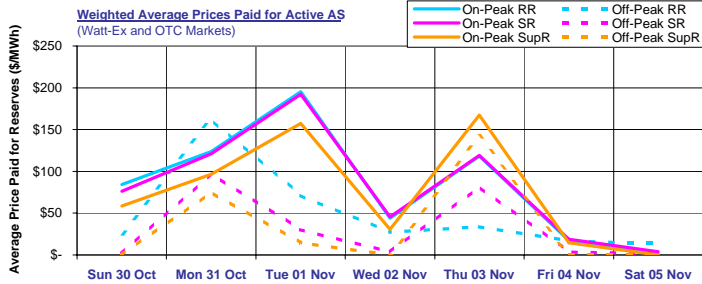
Tie-Line Market Shares



Last week, there were a total of 6 importers. The most active importer had a market share of 52.3% while the second most active importer had a market share of 26.2%. There were a total of 3 exporters last week. The most active exporter had a market share of 97.8% while the next largest exporter had a market share of 1.7%.

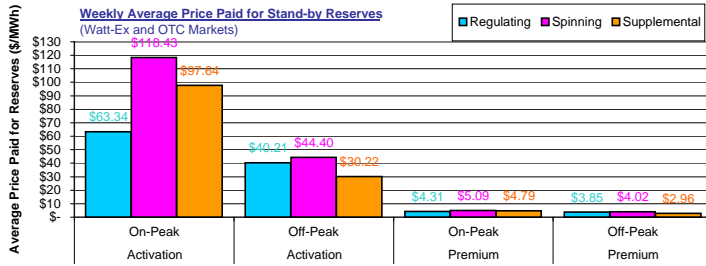
Note: Market shares are based on the combined activity on both interties.

Ancillary Services Market



Average on-peak prices paid for active ancillary services last week were **\$67.40/MWh**, **\$67.30/MWh** and **\$51.67/MWh** respectively for active **regulating**, **spinning** and **supplemental** reserves.

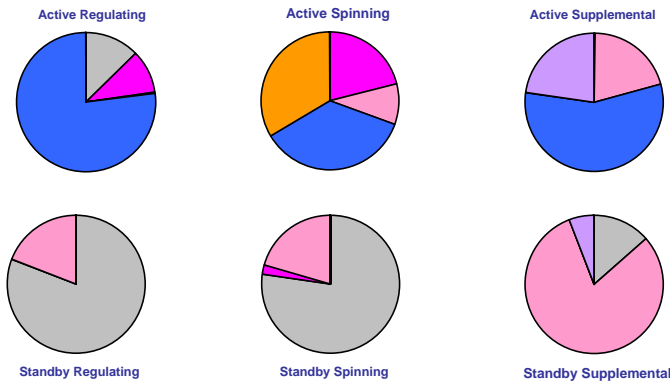
Active average off-peak prices were somewhat lower and averaged **\$49.39/MWh**, **\$20.35/MWh** and **\$12.59/MWh** for active **regulating**, **spinning** and **supplemental** reserves respectively.



Weekly average activation prices for stand-by reserves ranged from **\$30.22/MWh** for **off-peak supplemental** reserves to **\$118.43/MWh** for **on-peak spinning** reserves.

Weekly average premium prices ranged from **\$2.96/MWh** for **off-peak supplemental** reserves up to **\$5.09/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 **76.9%**. In the **active spinning** reserve market, **hydro** units had the leading market share with **35.7%** while in the **active supplemental** reserve market, **hydro** units dominated with a **56.4%** market share.

Coal units dominated the **standby regulating** reserve market with a **80.7%** market share. Leading market share in the **standby spinning** market was held by coal units with a **77.1%** market share. In the **standby supplemental** reserve market, **gas-other** units had the leading market share with **80.5%**.

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.
- Sparksread** Sparksreads 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.