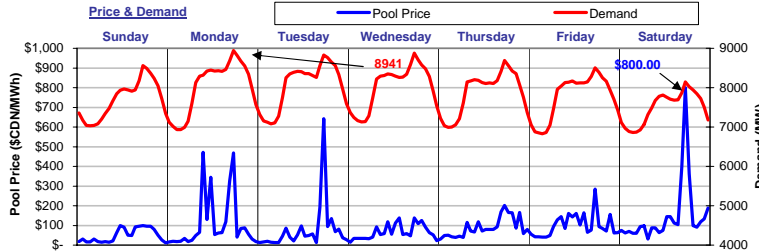


# The Market Monitor

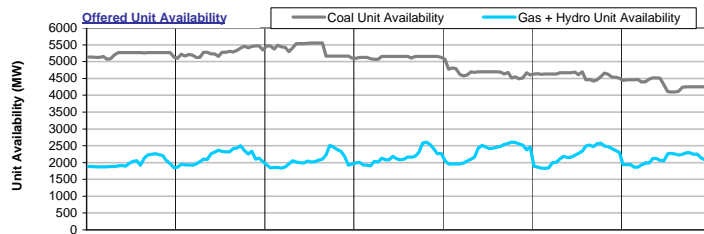
WATCHING THE MARKET : your fact source

Week Ending November 19, 2005

## Weekly Highlights

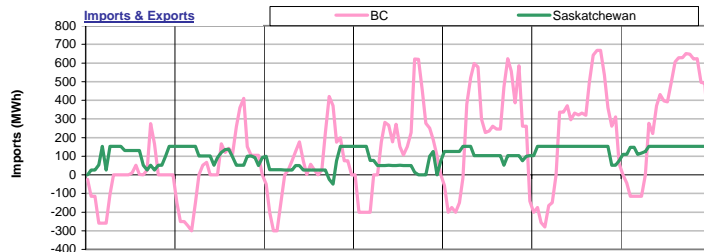


For the week ending November 19, 2005, **Pool Price** averaged \$91.96/MWh and ranged from a minimum of \$12.15/MWh in HE24 on Sunday to a maximum of \$800.00/MWh in HE18 on Saturday. **Demand** reached a high of 8941 MW in HE18 on Monday and a low of 6832 MW in HE04 on Friday. Average demand for the week was 7851MW. **Pool Price** and **Demand** were positively correlated last week with an R-squared value of 0.16.



Coal Unit Availability averaged 4943 MW last week. This is an equivalent availability of 85% (based on MCR). Gas and Hydro Unit Availability averaged 2150MW last week, which is an equivalent of 38% (based on MCR).

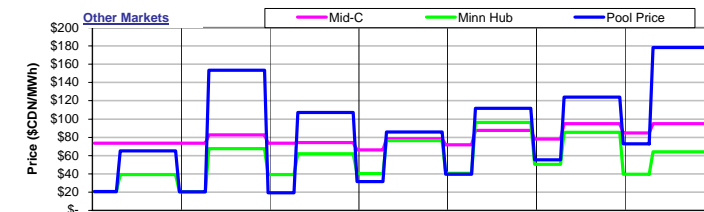
Availability numbers are based on MW offered into the energy merit order.



Alberta was a net importer from BC last week with total imports equal to 23,682MWh.

Alberta was a net importer from Saskatchewan last week with total imports equal to 16,971MWh.

Overall, Alberta imported 40,653MWh of electricity last week.

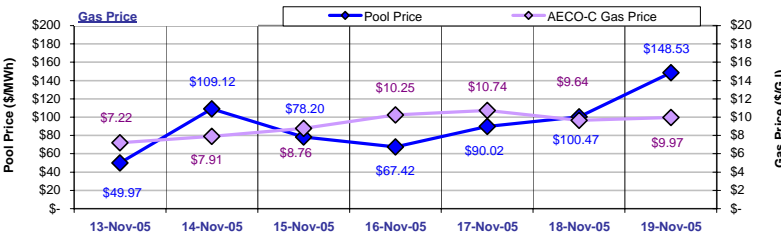


Pool Prices were generally higher than prices in Mid-C and higher than prices in Minn Hub last week.

Mid-C prices averaged \$85.53/MWh on-peak and \$74.44/MWh off-peak.

Minn Hub prices averaged \$75.22/MWh on-peak and \$35.81/MWh off-peak.

Prices in \$/MWh at an exchange rate of 1.1907.



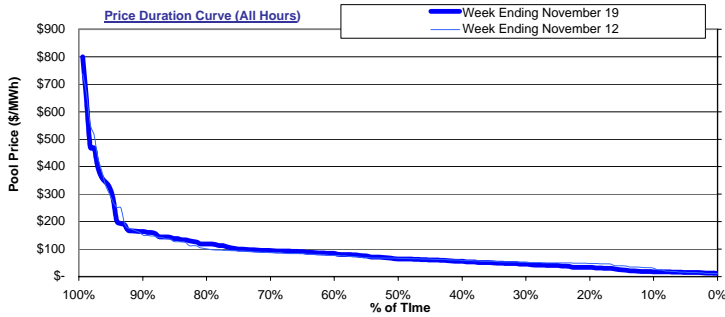
The average AECO-C Gas Price last week was \$8.82/GJ and ranged from a minimum of \$7.22/GJ to \$10.74/GJ.

Prevailing gas prices resulted in market heat rates ranging from a low of 6.58GJ/MWh to a high of 14.90GJ/MWh. The average market heat rate for the week was 9.99GJ/MWh.

# Wholesale Market

## Weekly Market Statistics

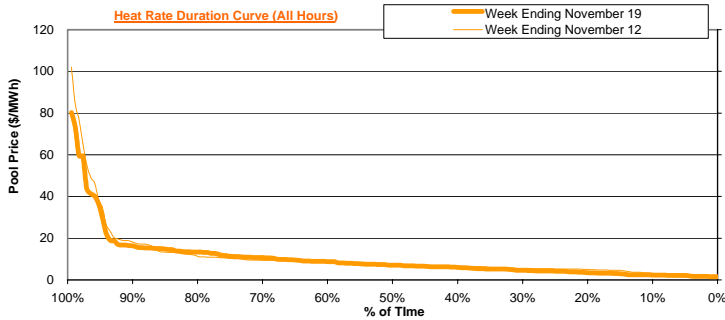
	Sunday 13-Nov	Monday 14-Nov	Tuesday 15-Nov	Wednesday 16-Nov	Thursday 17-Nov	Friday 18-Nov	Saturday 19-Nov	Average	Last Week	% Change	YTD
<b>Pool Price</b>											
Average	\$ 49.97	\$ 109.12	\$ 78.20	\$ 67.42	\$ 90.02	\$ 100.47	\$ 148.53	\$ 91.96	\$ 93.54	-1.7%	\$ 63.61
On-Peak	NA	\$ 153.25	\$ 107.08	\$ 85.64	\$ 111.78	\$ 124.05	\$ 178.45	\$ 126.71	\$ 106.07	19.5%	\$ 77.08
Off-Peak	\$ 49.97	\$ 20.87	\$ 20.42	\$ 30.98	\$ 46.52	\$ 53.31	\$ 88.69	\$ 45.63	\$ 76.83	-40.6%	\$ 42.24
COV	0.69	1.29	1.64	0.56	0.55	0.58	1.10	0.92	0.72	27.5%	
<b>Heat Rate</b>											
Average	6.92	13.80	8.93	6.58	8.38	10.43	14.90	9.99	12.26	-18.5%	7.89
On-Peak	NA	19.38	12.23	8.36	10.40	12.87	17.90	13.52	11.58	16.8%	9.58
Off-Peak	6.92	2.64	2.33	3.02	4.33	5.53	8.90	5.28	9.71	-45.6%	5.72
<b>Demand</b>											
Average	7,703	8,027	8,049	8,029	7,880	7,774	7,494	7,851	7,809	0.5%	7,491
Minimum	7,034	6,937	7,085	7,130	6,993	6,832	6,865	6,982	6,982	0.0%	6,104
Maximum	8,565	8,941	8,828	8,877	8,690	8,508	8,147	8,651	8,558	1.1%	9,172
<b>Coal Unit Availability</b>											
Average	5,219	5,282	5,371	5,138	4,672	4,596	4,321	4,943	5,182		5,161
Utilization	89%	90%	92%	88%	80%	79%	74%	85%	89%	-4.1%	88%
<b>Gas and Hydro Unit Availability</b>											
Average	1,995	2,177	2,060	2,169	2,316	2,223	2,107	2,150	1,998		2,100
Utilization	42%	46%	43%	46%	49%	47%	44%	38%	35%	2.7%	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 19**, prices were at or below:

- \$20/MWh 13% of the time
- \$50/MWh 35% of the time
- \$100/MWh 75% of the time
- \$250/MWh 94% 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 **November 19**, implied market heat rates were at or below:

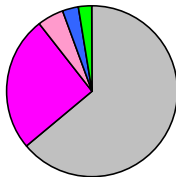
- 5.0 GJ/MWh 32% of the time
- 10.0 GJ/MWh 68% of the time
- 15.0 GJ/MWh 87% of the time
- 20.0 GJ/MWh 94% of the time

### Market Share Statistics

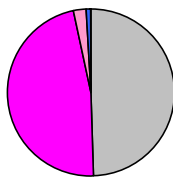
By Fuel Type:



Weekly Generation by Fuel Type



Weekly Price Setting by Fuel Type



By Submitting Customer:

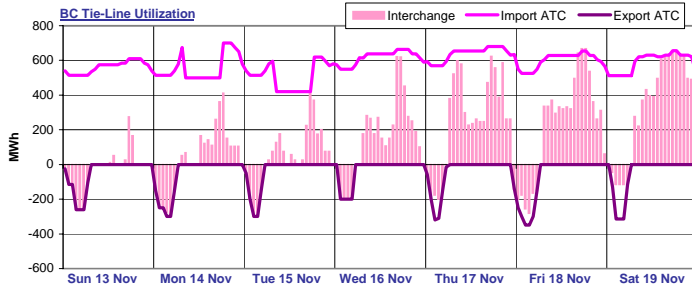
Weekly Price Setting by Submitting Customer



Last week, coal units were responsible for 64.0% of the generation in the province and set price 49.4% of the time. Gas-cogen units accounted for 25.4% of the generation and set price 47.4% of the time last week while other gas units made up 5.0% of generation and set price 2.4% of the time.

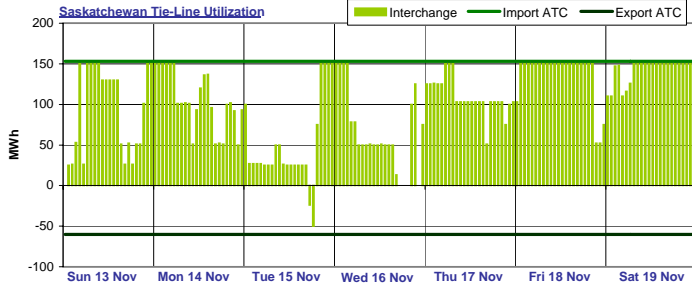
A total of 11 market participants set price last week. One market participant set price more than 20% of the time last week. The top price setter set price 29.4% of the time and the top five price setters set price a total of 78.9% of the time.

# Interties

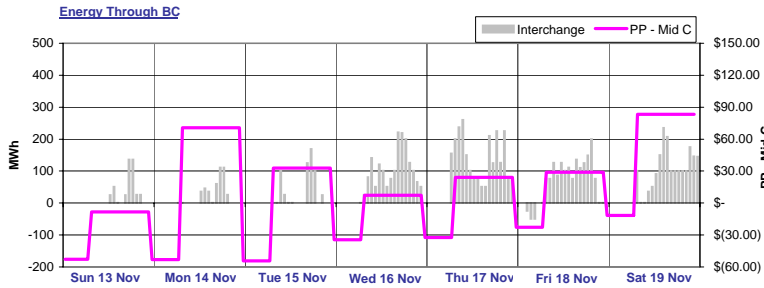


BC import capacity was 29% utilized last week while BC export capacity was 87% utilized. Energy was being imported into Alberta over the BC tie-line 61% of the time and exported out of Alberta over the BC tie-line 24% of the time last week. There was no activity on the BC tie-line 15% of the time last 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.



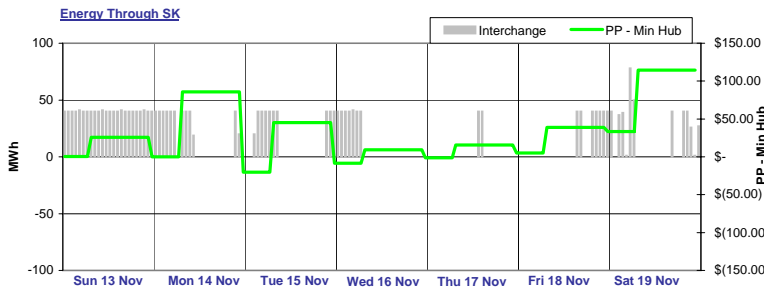
Saskatchewan import capacity was 66% utilized last week while Saskatchewan export capacity was 1% utilized. Energy was being imported into Alberta over the Saskatchewan tie-line 96% of the time and exported out of Alberta over the Saskatchewan tie-line 1% of the time last week. There was no activity on the Saskatchewan tie-line 3% of the time last week.



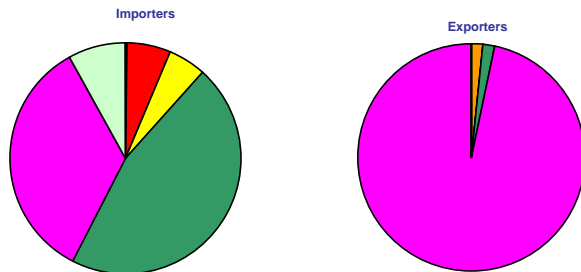
Last week, Alberta spot prices were mostly higher relative to prices in the Pacific Northwest as represented by Mid-C index prices, supporting import activity across the Alberta - BC interconnection.

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 in energy through BC and SK graphs for Mid C and Min Hub reference respectively.



Tie-Line Market Shares

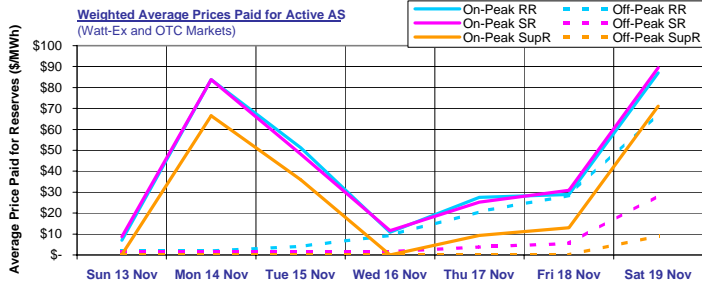


Last week, there were a total of 6 importers. The most active importer had a market share of 45.7% while the second most active importer had a market share of 34.4%.

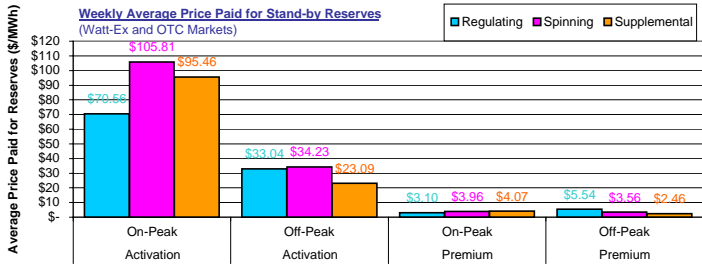
There were a total of 3 exporters last week. The most active exporter had a market share of 96.8% while the next largest exporter had a market share of 1.6%.

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

# Ancillary Services Market

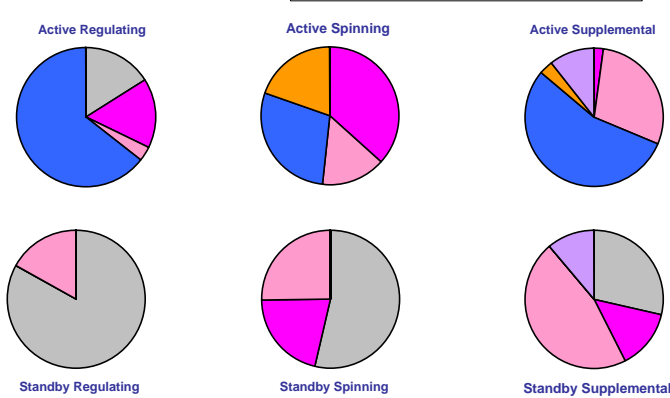


Average on-peak prices paid for active ancillary services last week were \$42.53/MWh, \$42.36/MWh and \$27.87/MWh respectively for active **regulating**, **spinning** and **supplemental** reserves.  
Active average off-peak prices were somewhat lower and averaged \$18.76/MWh, \$6.09/MWh and \$1.26/MWh for active **regulating**, **spinning** and **supplemental** reserves respectively.



Weekly average activation prices for stand-by reserves ranged from \$23.09/MWh for **off-peak supplemental** reserves to \$105.81/MWh for **on-peak spinning** reserves.  
Weekly average premium prices ranged from \$2.46/MWh for **off-peak supplemental** reserves up to \$5.54/MWh for **off-peak regulating** reserves.

**AS Market Shares by Fuel Type**



Last week **hydro** units had the largest market share in the **active regulating** reserve market with 64.5%. In the **active spinning** reserve market, **gas-cogen** units had the leading market share with 36.7% while in the **active supplemental** reserve market, **hydro** units dominated with a 54.9% market share.

Coal units dominated the **standby regulating** reserve market with a 83.1% market share. Leading market share in the **standby spinning** market was held by coal units with a 53.6% market share. In the **standby supplemental** reserve market, **gas-other** units had the leading market share with 46.3%.

## 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.