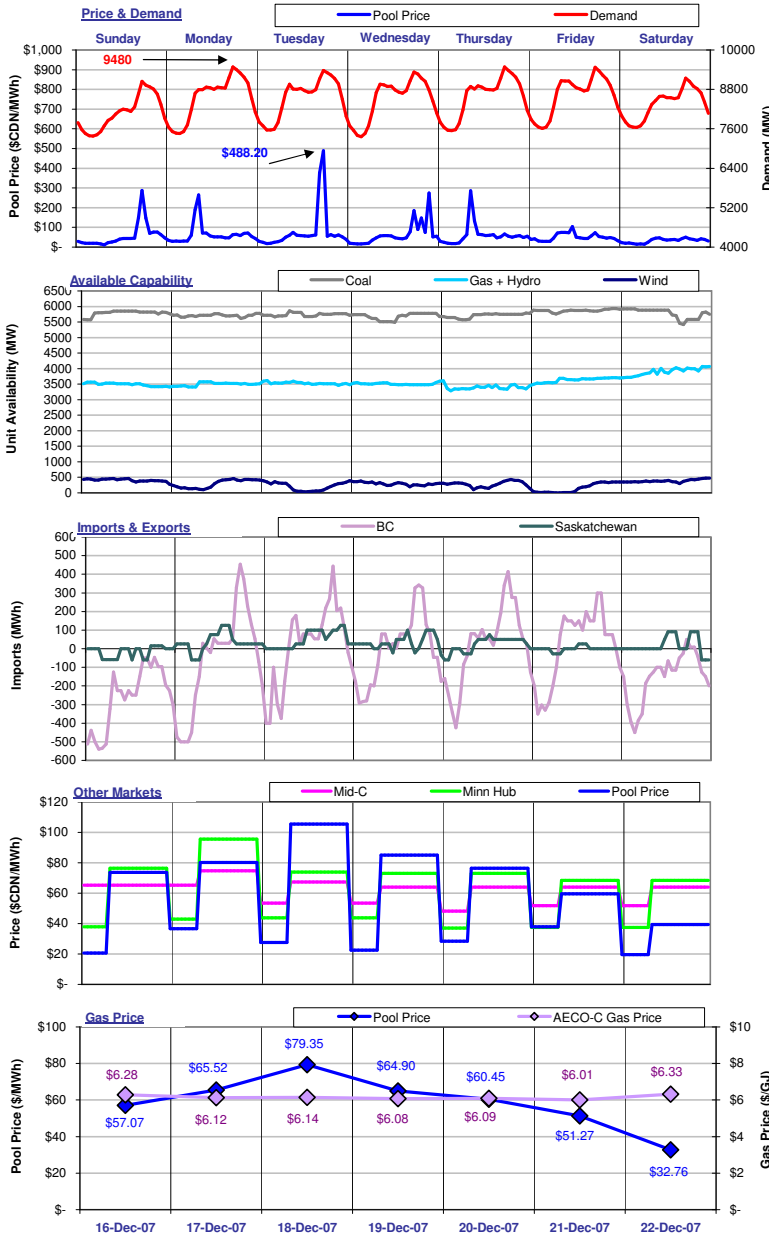


# The Market Monitor

WATCHING THE MARKET : your fact source

Week Ending December 22, 2007

## Weekly Highlights



For the week ending December 22, 2007, **Pool Price** averaged \$58.76/MWh and ranged from a minimum of \$11.23/MWh in HE08 on Sunday to a maximum of \$488.20/MWh in HE18 on Tuesday. **Demand** reached a high of 9480 MW in HE18 on Monday and a low of 7363 MW in HE04 on Wednesday. Average demand for the week was 8459 MW. **Pool Price** and **Demand** were positively correlated last week with an R-squared value of 0.20.

**Coal Unit Availability** averaged 5754 MW last week. This is an equivalent availability of 96%. **Gas, Hydro and Other Unit Availability** averaged 3571 MW last week, which is an equivalent of 73%. **Wind Generation** averaged 289 MW last week. This is an equivalent availability of 58%. 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 9,877MWh. Alberta was a net importer from Saskatchewan last week with total imports equal to 3,320 MWh. Overall, Alberta exported 6,557MWh of electricity last week.

**Pool Prices** were generally lower than prices in Mid-C and lower than prices in Minn Hub last week. **Mid-C** prices averaged \$66.38/MWh on-peak and \$55.59/MWh off-peak. **Minn Hub** prices averaged \$75.40/MWh on-peak and \$40.06/MWh off-peak.

Prices in \$/MWh at an exchange rate of 1.01779.

The average **AECO-C Gas Price** last week was \$6.15/GJ and ranged from a minimum of \$6.01/GJ to \$6.33/GJ. Prevailing gas prices resulted in market heat rates ranging from a low of 5.18 GJ/MWh to a high of 12.92 GJ/MWh. The average market heat rate for the week was 9.57 GJ/MWh.

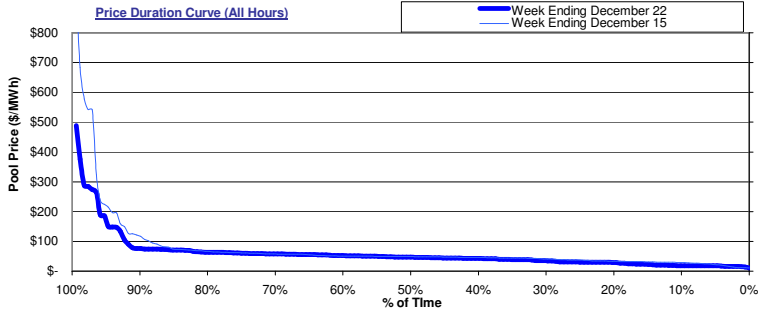


Alberta's Market Surveillance Administrator is in place to monitor the fair, efficient and openly competitive operation of all electricity markets within the province. The Market Monitor is a weekly publication by the MSA intended to educate industry participants and the public on market activities for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

# Wholesale Market

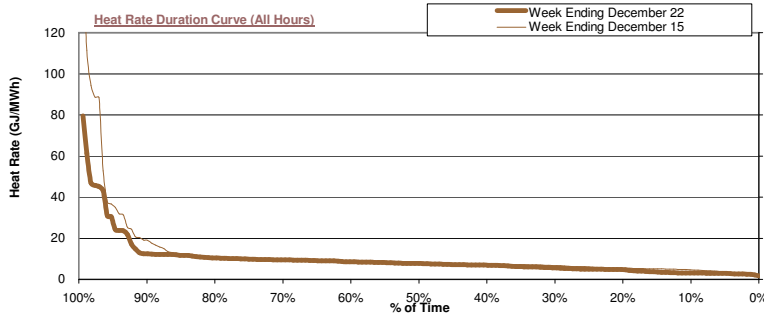
## Weekly Market Statistics

	Sunday 16-Dec	Monday 17-Dec	Tuesday 18-Dec	Wednesday 19-Dec	Thursday 20-Dec	Friday 21-Dec	Saturday 22-Dec	Average	Last Week	% Change	YTD
<b>Pool Price</b>											
Average	\$ 57.07	\$ 65.52	\$ 79.35	\$ 64.90	\$ 60.45	\$ 51.27	\$ 32.76	\$ <b>58.76</b>	\$ <b>74.87</b>	<b>-21.5%</b>	\$ <b>67.35</b>
On-Peak	NA	\$ 80.21	\$ 105.53	\$ 85.00	\$ 76.49	\$ 59.49	\$ 39.43	\$ <b>74.36</b>	\$ <b>91.99</b>	<b>-19.2%</b>	\$ <b>86.98</b>
Off-Peak	\$ 57.07	\$ 36.15	\$ 27.00	\$ 24.69	\$ 28.38	\$ 34.81	\$ 19.43	\$ <b>37.96</b>	\$ <b>52.04</b>	<b>-27.1%</b>	\$ <b>36.41</b>
COV	1.07	0.81	1.40	0.92	0.89	0.36	0.34	<b>0.83</b>	<b>0.55</b>	<b>51.6%</b>	
<b>Heat Rate</b>											
Average	9.09	10.70	12.92	10.67	9.93	8.53	5.18	<b>9.57</b>	<b>12.19</b>	<b>-21.5%</b>	<b>11.04</b>
On-Peak	NA	13.10	17.18	13.98	12.56	9.90	6.23	<b>12.16</b>	<b>15.00</b>	<b>-18.9%</b>	<b>14.26</b>
Off-Peak	9.09	5.90	4.40	4.06	4.66	5.79	3.07	<b>6.13</b>	<b>8.45</b>	<b>-27.5%</b>	<b>5.97</b>
<b>Demand</b>											
Average	8,093	8,541	8,542	8,491	8,570	8,619	8,354	<b>8,459</b>	<b>8,411</b>	<b>0.6%</b>	<b>8,131</b>
Minimum	7,381	7,454	7,561	7,363	7,550	7,617	7,644	<b>7,510</b>	<b>7,491</b>	<b>0.3%</b>	<b>7,154</b>
Maximum	9,045	9,480	9,374	9,331	9,480	9,470	9,143	<b>9,332</b>	<b>9,277</b>	<b>0.6%</b>	<b>9,161</b>
<b>Coal Unit Availability</b>											
Average	5,790	5,710	5,740	5,684	5,707	5,869	5,777	<b>5,754</b>	<b>5,506</b>		<b>5,225</b>
Utilization	96%	95%	96%	95%	95%	98%	96%	<b>96%</b>	<b>92%</b>	<b>4.1%</b>	<b>87%</b>
<b>Gas, Hydro and Other Unit Availability</b>											
Average	3,491	3,499	3,531	3,509	3,397	3,636	3,906	<b>3,567</b>	<b>3,608</b>		<b>2,307</b>
Utilization	72%	72%	73%	72%	70%	75%	80%	<b>73%</b>	<b>74%</b>	<b>-0.8%</b>	<b>47%</b>



The price duration curves show the % of time that prices were at or below a certain value during the week. For the week ending **December 22**, prices were at or below:

- \$20/MWh **12%** of the time
- \$50/MWh **56%** of the time
- \$100/MWh **92%** of the time
- \$250/MWh **96%** of the time
- \$500/MWh **100%** of the time



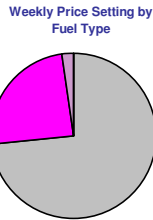
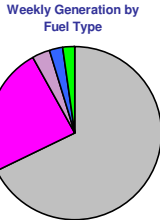
The heat rate duration curves show the % of time that the implied market heat rate was at or below a certain value during the week. For the week ending **December 22** implied market heat rates were at or below:

- 5.0 GJ/MWh **26%** of the time
- 10.0 GJ/MWh **77%** of the time
- 15.0 GJ/MWh **92%** of the time
- 20.0 GJ/MWh **93%** of the time

### Market Share Statistics

By Fuel Type:

■ Coal ■ Gas - Cogen ■ Gas - Other ■ Hydro ■ Other



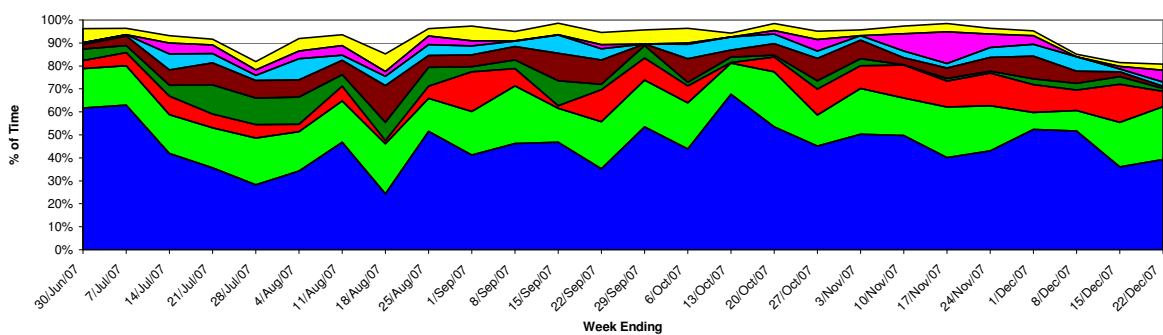
By Submitting Customer:



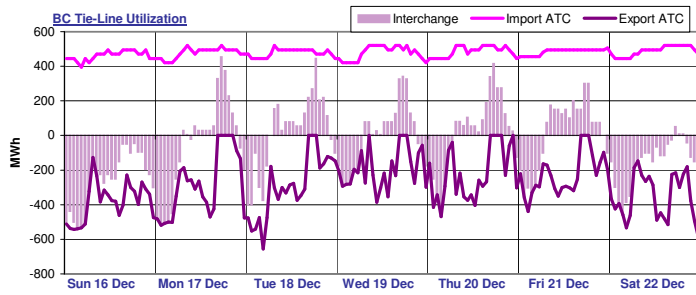
Last week, **coal units** were responsible for **67.7%** of the generation in the province and set price **72.8%** of the time. **Gas-cogen** units accounted for **24.3%** of the generation and set price **24.6%** of the time last week while **other gas** units made up **3.5%** of generation and set price **2.1%** of the time.

A total of **14** market participants set price last week. **Two** market participants set price more than **20%** of the time last week. The top price setter set price **39.3%** of the time and the top five price setters set price a total of **87.9%** of the time.

### Weekly Price Setting by Submitting Customer

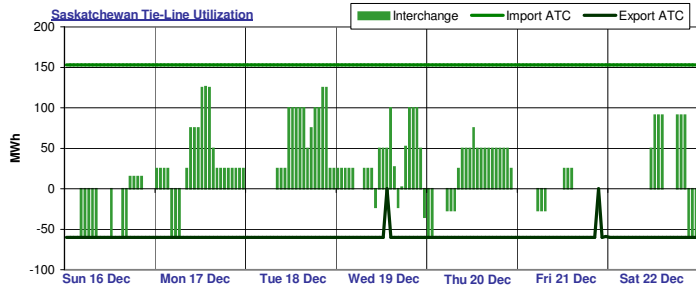


# Interties

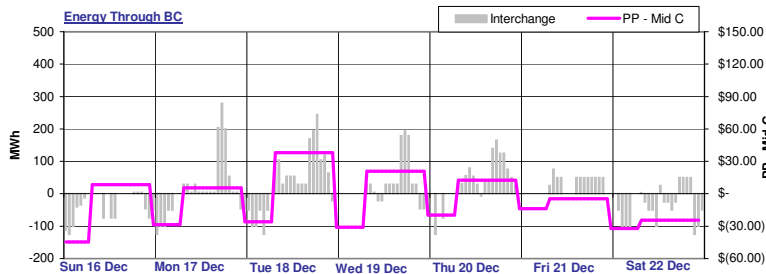


BC import capacity was 15% utilized last week while BC export capacity was 46% utilized. Energy was being imported into Alberta over the BC tie-line 46% of the time and exported out of Alberta over the BC tie-line 53% of the time last week. There was no activity on the BC tie-line 1% of the time last 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.



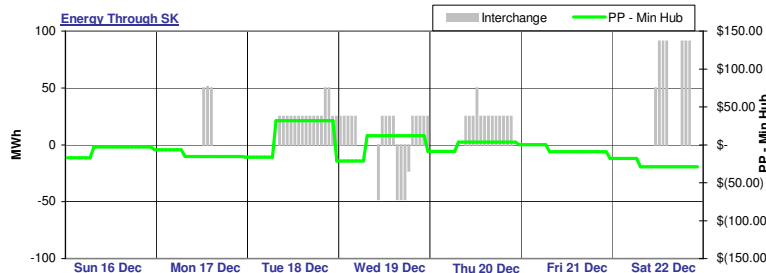
Saskatchewan import capacity was 19% utilized last week while Saskatchewan export capacity was 17% utilized. Energy was being imported into Alberta over the Saskatchewan tie-line 50% of the time and exported out of Alberta over the Saskatchewan tie-line 15% of the time last week. There was no activity on the Saskatchewan tie-line 35% of the time last week.



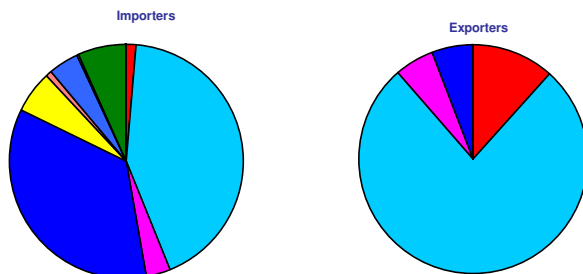
Last week, Alberta spot prices were mostly lower relative to prices in the Pacific Northwest as represented by Mid-C index prices, supporting export activity across the Alberta - BC interconnection.

Alberta prices were generally lower than prices in MAPP as represented by spot prices at the Minnesota Hub, which generally supports export activity across the Alberta - Saskatchewan interconnection.

Note: Platt's day-ahead strip prices used in energy through BC and SK graphs.



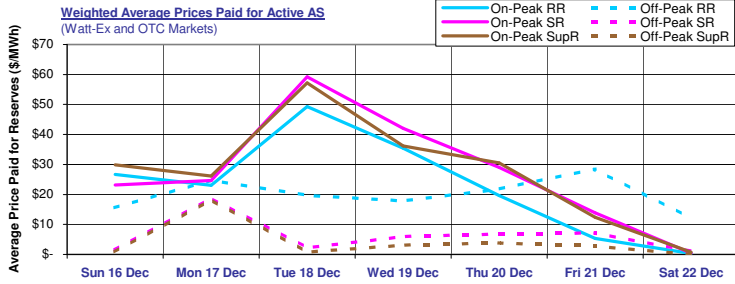
Tie-Line Market Shares



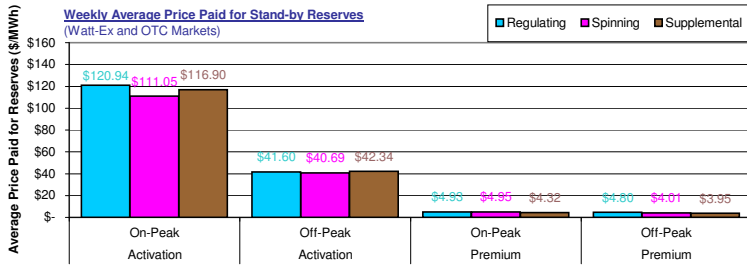
Last week, there were a total of 9 importers. The most active importer had a market share of 42.6% while the second most active importer had a market share of 35.1%. There were a total of 4 exporters last week. The most active exporter had a market share of 77.1% while the next largest exporter had a market share of 11.6%.

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

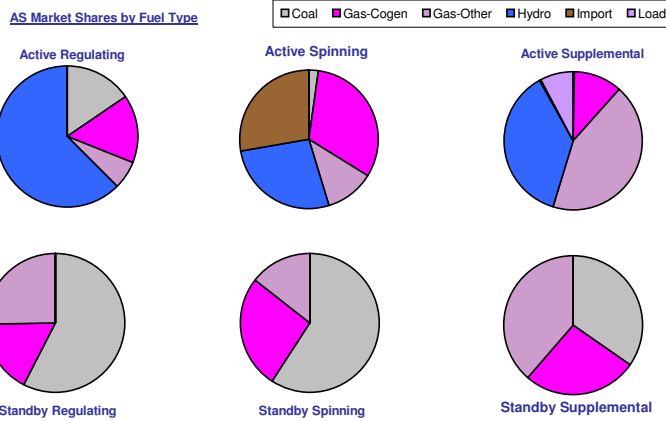
# Ancillary Services Market



Average on-peak prices paid for active ancillary services last week were **\$22.78/MWh**, **\$28.35/MWh** and **\$27.38/MWh** respectively for active **regulating**, **spinning** and **supplemental** reserves.  
Active average off-peak prices were **lower** and averaged **\$20.52/MWh**, **\$4.23/MWh** and **\$2.06/MWh** for active **regulating**, **spinning** and **supplemental** reserves respectively.



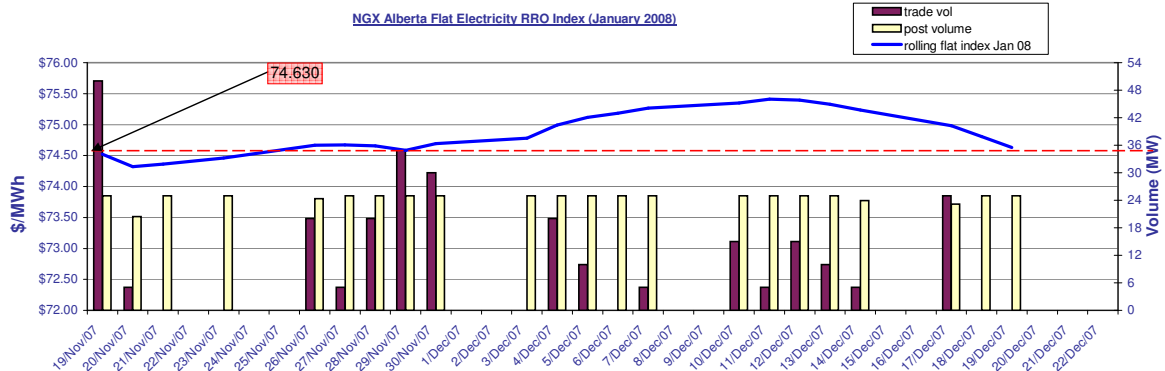
Weekly average activation prices for stand-by reserves ranged from **\$40.69/MWh** for **off-peak spinning** reserves to **\$120.94/MWh** for **on-peak regulating** reserves.  
Weekly average premium prices ranged from **\$3.95/MWh** for **off-peak supplemental** reserves up to **\$4.95/MWh** for **on-peak spinning** reserves.



Last week **hydro** units had the largest market share in the **active regulating** reserve market with **62.4%**. In the **active spinning** reserve market, **gas-cogen** units had the leading market share with **31.7%** while in the **active supplemental** reserve market, **gas** units dominated with a **43.2%** market share.

**Coal** units dominated the **standby regulating** reserve market with a **57.4%** market share. Leading market share in the **standby spinning** market was held by **coal** units with a **59.0%** market share. In the **standby supplemental** reserve market, **gas** units had the leading market share with **38.5%**.

# 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 + 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)
- 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.