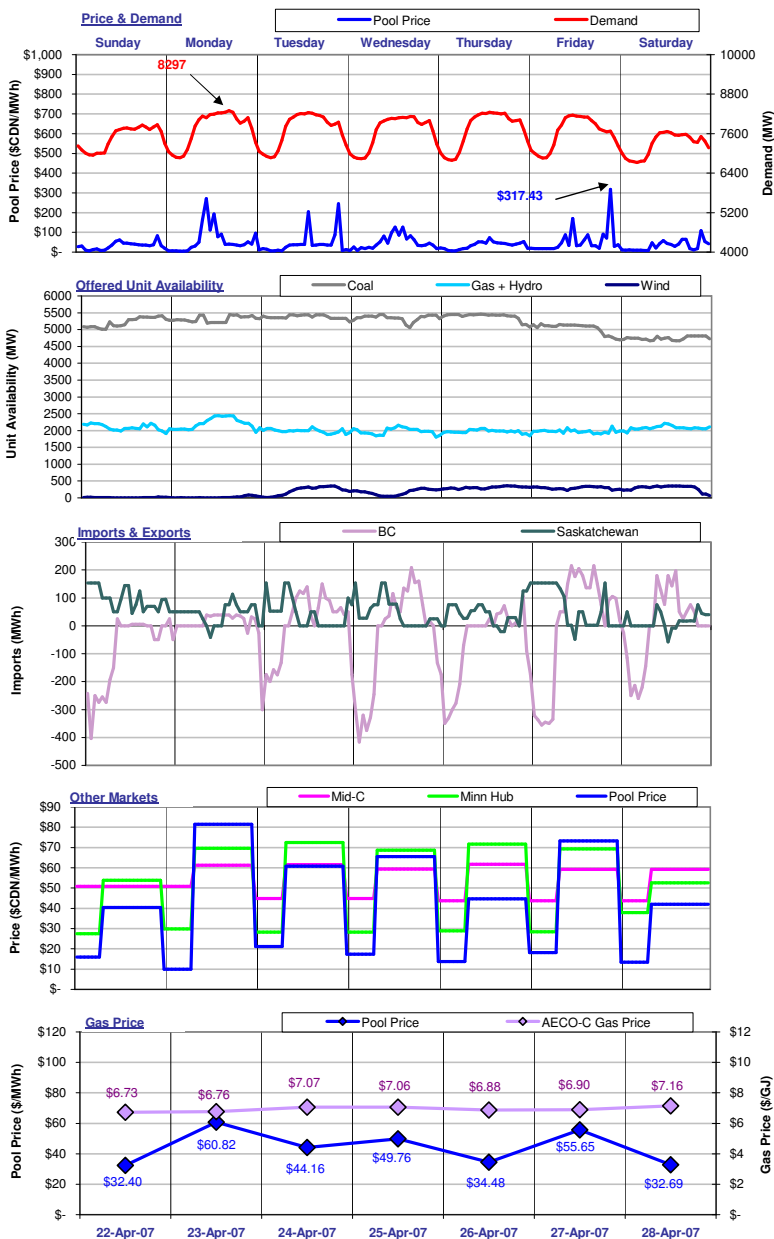


# The Market Monitor

WATCHING THE MARKET : your fact source

Week Ending April 28, 2007

## Weekly Highlights



For the week ending April 28, 2007, **Pool Price** averaged \$44.28/MWh and ranged from a minimum of \$5.25/MWh in HE04 on Monday to a maximum of \$317.43/MWh in HE22 on Friday. **Demand** reached a high of 8297 MW in HE17 on Monday and a low of 6719 MW in HE05 on Saturday. Average demand for the week was 7600 MW. **Pool Price** and **Demand** were positively correlated last week with an R-squared value of 0.24.

**Coal Unit Availability** averaged 5203 MW last week. This is an equivalent availability of 89% (based on MCR). **Gas and Hydro Unit Availability** averaged 1988 MW last week, which is an equivalent of 35% (based on MCR). **Wind Generation** averaged 186 MW last week. This is an equivalent availability 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 4,483 MWh. Alberta was a net importer from Saskatchewan last week with total imports equal to 8,483 MWh. Overall, Alberta imported 4,000 MWh 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 \$60.42/MWh on-peak and \$46.07/MWh off-peak. **Minn Hub** prices averaged \$67.41/MWh on-peak and \$29.88/MWh off-peak.

Prices in \$CDN at an exchange rate of 1.17848.

The average **AECO-C Gas Price** last week was \$6.94/GJ and ranged from a minimum of \$6.73/GJ to \$7.16/GJ. Prevailing gas prices resulted in market heat rates ranging from a low of 4.57 GJ/MWh to a high of 9.00 GJ/MWh. The average market heat rate for the week was 6.39 GJ/MWh.

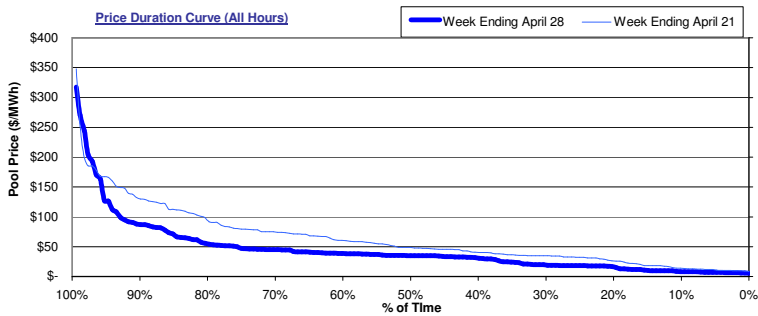


Alberta's Market Surveillance Administrator is in place to monitor the fair, efficient and openly competitive operation of all electricity markets within the province. The Market Monitor is a weekly publication by the MSA intended to educate industry participants and the public on market activities for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

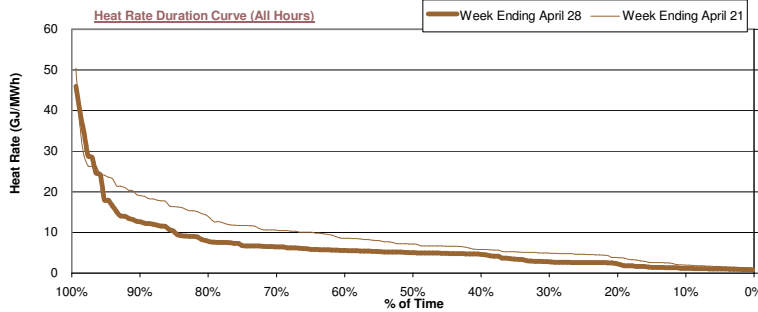
## Weekly Market Statistics

	Sunday 22-Apr	Monday 23-Apr	Tuesday 24-Apr	Wednesday 25-Apr	Thursday 26-Apr	Friday 27-Apr	Saturday 28-Apr	Average	Last Week	% Change	YTD
<b>Pool Price</b>											
Average	\$ 32.40	\$ 60.82	\$ 44.16	\$ 49.76	\$ 34.48	\$ 55.65	\$ 32.69	\$ 44.28	\$ 63.66	-30.4%	\$ 60.84
On-Peak	NA	\$ 81.50	\$ 60.78	\$ 65.60	\$ 44.72	\$ 73.31	\$ 42.07	\$ 61.33	\$ 84.54	-27.5%	\$ 74.36
Off-Peak	\$ 32.40	\$ 19.46	\$ 10.91	\$ 18.08	\$ 14.01	\$ 20.32	\$ 13.94	\$ 21.55	\$ 35.81	-39.8%	\$ 40.27
COV	0.57	1.09	1.33	0.70	0.52	1.19	0.78	0.88	0.72	22.3%	
<b>Heat Rate</b>											
Average	4.82	9.00	6.24	7.05	5.01	8.07	4.57	6.39	9.07	-29.5%	8.64
On-Peak	NA	12.06	8.60	9.30	6.50	10.63	5.88	8.83	12.10	-27.1%	10.56
Off-Peak	4.82	2.88	1.54	2.56	2.04	2.95	1.95	3.15	5.04	-37.5%	5.72
<b>Demand</b>											
Average	7,471	7,752	7,711	7,658	7,726	7,615	7,269	7,600	7,708	-1.4%	7,867
Minimum	6,950	6,872	6,873	6,837	6,790	6,860	6,719	6,843	6,968	-1.8%	6,440
Maximum	7,871	8,297	8,237	8,128	8,245	8,158	7,669	8,086	8,171	-1.0%	9,478
<b>Coal Unit Availability</b>											
Average	5,219	5,312	5,379	5,345	5,389	5,036	4,743	5,203	5,004	3.4%	5,394
Utilization	89%	91%	92%	92%	92%	86%	81%	89%	86%	3.4%	92%
<b>Gas and Hydro Unit Availability</b>											
Average	2,097	2,216	1,987	1,981	1,973	1,977	2,081	2,045	2,192	-3.1%	2,267
Utilization	45%	47%	42%	42%	42%	42%	44%	43%	47%	-3.1%	48%



The price duration curves show the % of time that prices were at or below a certain value during the week. For the week ending **April 28**, prices were at or below:

- \$20/MWh 32% of the time
- \$50/MWh 76% of the time
- \$100/MWh 93% of the time
- \$250/MWh 98% of the time
- \$500/MWh 100% of the time



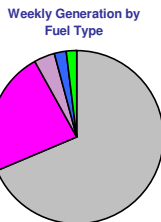
The heat rate duration curves show the % of time that the implied market heat rate was at or below a certain value during the week. For the week ending **April 28** implied market heat rates were at or below:

- 5.0 GJ/MWh 50% of the time
- 10.0 GJ/MWh 85% of the time
- 15.0 GJ/MWh 93% of the time
- 20.0 GJ/MWh 96% of the time

### Market Share Statistics

By Fuel Type:

Legend: Coal (Grey), Gas - Cogen (Pink), Gas - Other (Light Blue), Hydro (Dark Blue), Other (Green)



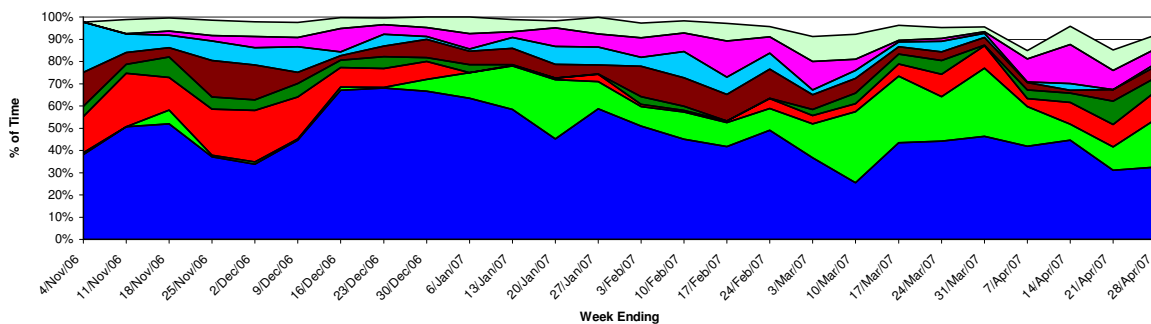
By Submitting Customer:



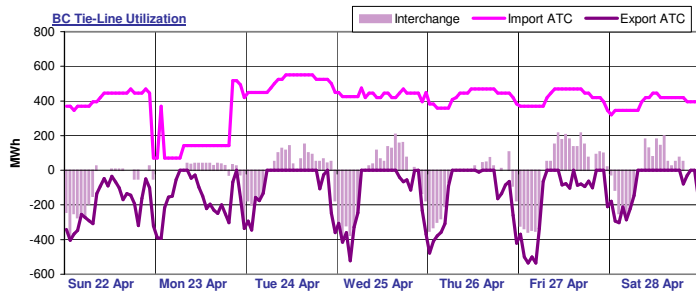
Last week, coal units were responsible for 68.6% of the generation in the province and set price 72.7% of the time. Gas-cogen units accounted for 23.3% of the generation and set price 20.3% of the time last week while other gas units made up 3.8% of generation and set price 6.9% of the time.

A total of 10 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 32.6% of the time and the top five price setters set price a total of 80.0% of the time.

### Weekly Price Setting by Submitting Customer

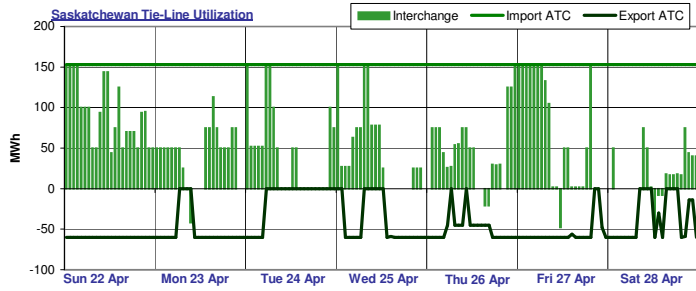


# Interties

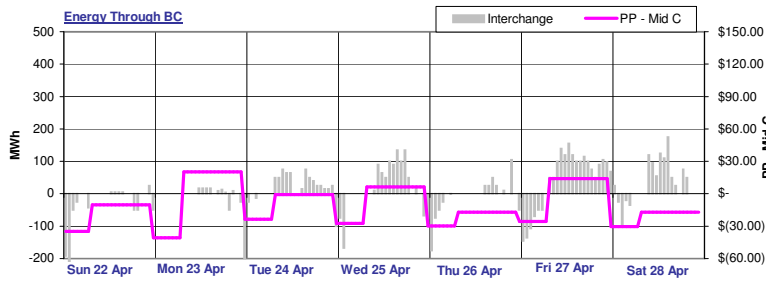


BC import capacity was 10% utilized last week while BC export capacity was 34% utilized. Energy was being imported into Alberta over the BC tie-line 48% of the time and exported out of Alberta over the BC tie-line 29% of the time last week. There was no activity on the BC tie-line 23% of the time last 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.



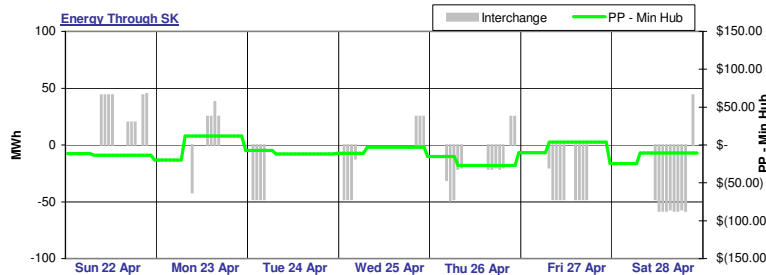
Saskatchewan import capacity was 39% utilized last week while Saskatchewan export capacity was 17% utilized. Energy was being imported into Alberta over the Saskatchewan tie-line 71% of the time and exported out of Alberta over the Saskatchewan tie-line 4% of the time last week. There was no activity on the Saskatchewan tie-line 24% of the time last week.



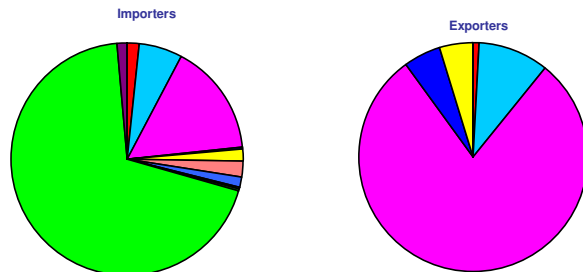
Last week, Alberta spot prices were mostly lower relative to prices in the Pacific Northwest as represented by Mid-C index prices, supporting export activity across the Alberta - BC interconnection.

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.



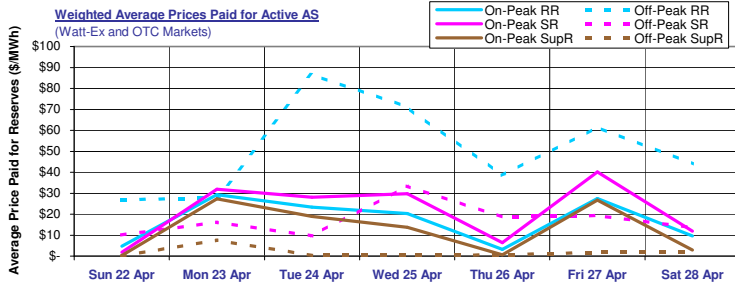
Tie-Line Market Shares



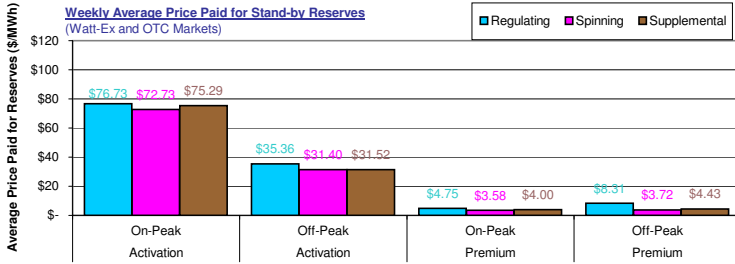
Last week, there were a total of 11 importers. The most active importer had a market share of 69.1% while the second most active importer had a market share of 15.6%. There were a total of 5 exporters last week. The most active exporter had a market share of 79.1% while the next largest exporter had a market share of 10.1%.

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

# Ancillary Services Market

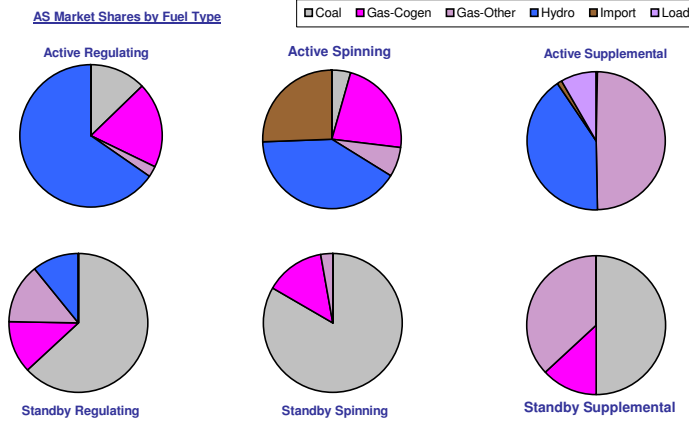


Average on-peak prices paid for active ancillary services last week were **\$16.22/MWh**, **\$21.59/MWh** and **\$13.16/MWh** respectively for active **regulating**, **spinning** and **supplemental** reserves.  
Active average off-peak prices were **lower** with the exception of off-peak regulating and averaged **\$56.63/MWh**, **\$20.52/MWh** and **\$4.16/MWh** for active **regulating**, **spinning** and **supplemental** reserves respectively.



Weekly average activation prices for stand-by reserves ranged from **\$31.40/MWh** for **off-peak spinning** reserves to **\$76.73/MWh** for **on-peak regulating** reserves.  
Weekly average premium prices ranged from **\$3.58/MWh** for **on-peak spinning** reserves up to **\$8.31/MWh** for **off-peak regulating** reserves.

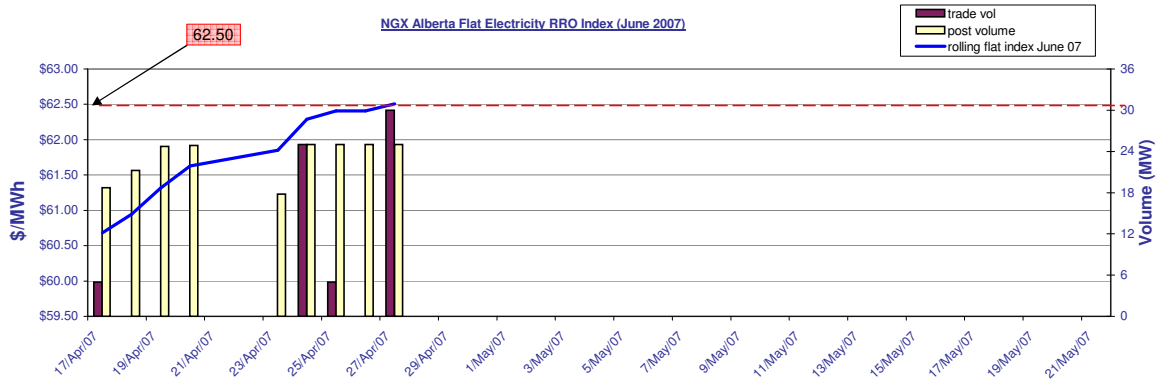
**AS Market Shares by Fuel Type**



Last week **hydro** units had the largest market share in the **active regulating** reserve market with **65.4%**. In the **active spinning** reserve market, **hydro** units had the leading market share with **40.6%** while in the **active supplemental** reserve market, **gas** units dominated with a **49.3%** market share.

**Coal** units dominated the **standby regulating** reserve market with a **63%** market share. Leading market share in the **standby spinning** market was held by **coal** units with a **83.4%** market share. In the **standby supplemental** reserve market, **coal** units had the leading market share with **49.9%**.

# 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.