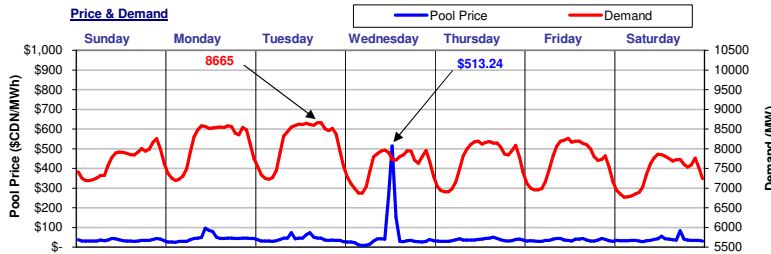


# The Market Monitor

WATCHING THE MARKET : your fact source

Week Ending April 17, 2010

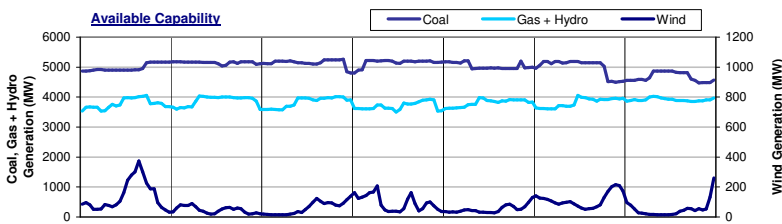
## Weekly Highlights



For the week ending April 17, 2010, **Pool Price** averaged \$42.23/MWh and ranged from a minimum of \$8.20/MWh in HE05 on Wednesday to a maximum of \$513.24/MWh in HE13 on Wednesday.

**Demand** reached a high of 8,665 MW in HE18 on Tuesday and a low of 6,769 MW in HE03 on Saturday. Average demand for the week was 7,768 MW.

**Pool Price** and **Demand** were positively correlated last week with an R-squared value of 0.03.

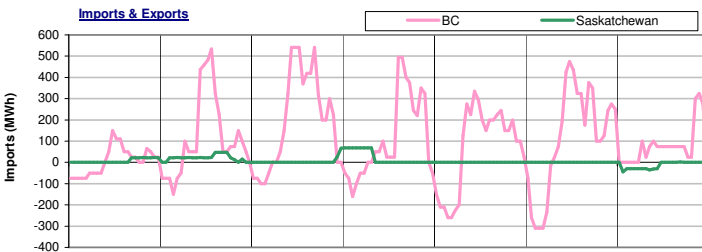


**Coal Unit Availability** averaged 5021 MW last week. This is an equivalent availability of 87%.

**Gas, Hydro and Other Unit Availability** averaged 3819 MW last week, which is an equivalent of 67%.

**Wind Generation** averaged 80 MW last week. This is an equivalent availability of 13%.

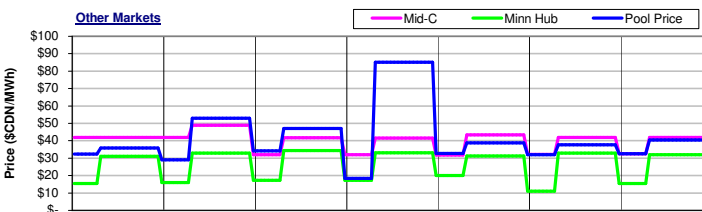
Availability numbers are based on MW offered into the energy merit order.



Alberta was a net importer from **BC** last week with total imports equal to 16,608 MWh.

Alberta was a net importer from **Saskatchewan** last week with total imports equal to 1,011 MWh.

Overall, Alberta imported 17,619 MWh of electricity last week.

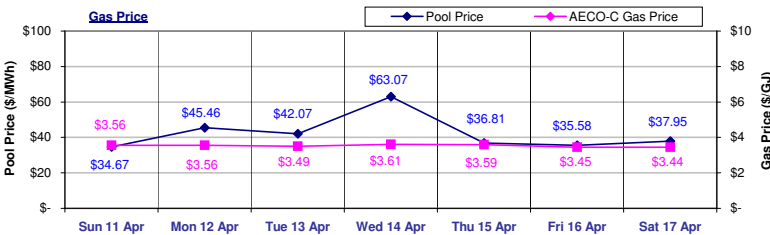


**Pool Prices** were generally higher than prices in **Mid-C** and higher than prices in **Minn Hub** last week.

**Mid-C** prices averaged \$43.24/MWh on-peak and \$34.87/MWh off-peak.

**Minn Hub** prices averaged \$32.73/MWh on-peak and \$16.10/MWh off-peak.

Prices in \$/MWh at an exchange rate of 1.002.



The average **AECO-C Gas Price** last week was \$3.53/GJ and ranged from a minimum of \$3.44/GJ to \$3.61/GJ.

Prevailing gas prices resulted in market heat rates ranging from a low of 9.74 GJ/MWh to a high of 17.49 GJ/MWh. The average market heat rate for the week was 11.95 GJ/MWh.

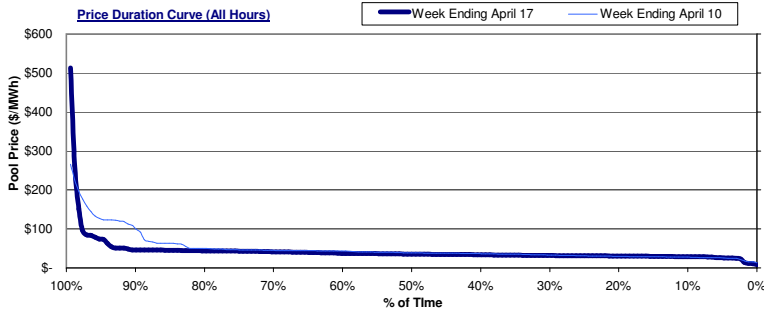


Alberta's Market Surveillance Administrator is in place to monitor the fair, efficient and openly competitive operation of all electricity markets within the province. The **Market Monitor** is a weekly publication by the MSA intended to educate industry participants and the public on market activities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

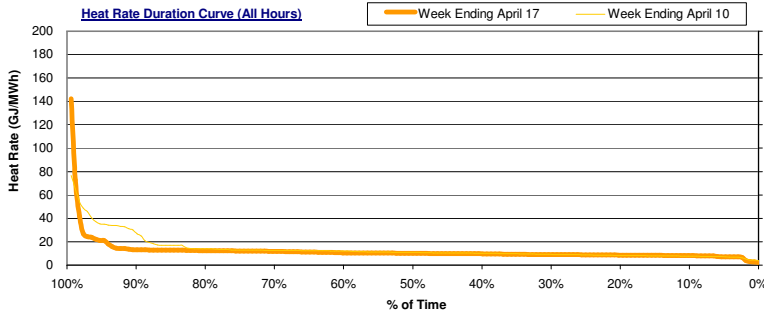
## Weekly Market Statistics

	Sunday 11-Apr	Monday 12-Apr	Tuesday 13-Apr	Wednesday 14-Apr	Thursday 15-Apr	Friday 16-Apr	Saturday 17-Apr	Average	Last Week	% Change	YTD
<b>Pool Price</b>											
Average	\$ 34.67	\$ 45.46	\$ 42.07	\$ 63.07	\$ 36.81	\$ 35.58	\$ 37.95	\$ 42.23	\$ 49.44	-14.6%	\$ 41.28
On-Peak	NA	\$ 52.97	\$ 46.99	\$ 85.13	\$ 38.73	\$ 37.76	\$ 40.53	\$ 50.35	\$ 62.39	-19.3%	\$ 48.57
Off-Peak	\$ 34.67	\$ 30.44	\$ 32.21	\$ 18.94	\$ 32.98	\$ 31.23	\$ 32.79	\$ 31.40	\$ 32.17	-2.4%	\$ 30.58
COV	0.13	0.39	0.30	1.74	0.16	0.15	0.29	0.45	0.49	-8.1%	
<b>Heat Rate</b>											
Average	9.74	12.76	12.04	17.49	10.27	10.31	11.02	11.95	13.80	-13.4%	9.16
On-Peak	NA	14.87	13.45	23.61	10.80	10.94	11.77	14.24	17.45	-18.4%	10.78
Off-Peak	9.74	8.55	9.22	5.25	9.20	9.05	9.52	8.89	8.95	-0.6%	6.79
<b>Demand</b>											
Average	7,694	8,132	8,151	7,588	7,726	7,696	7,386	7,768	7,825	-0.7%	8,313
Minimum	7,190	7,187	7,226	6,872	6,903	6,952	6,769	7,014	7,087	-1.0%	6,769
Maximum	8,256	8,582	8,665	7,961	8,193	8,264	7,856	8,254	8,304	-0.6%	9,806
<b>Coal Unit Availability</b>											
Average	4,980	5,148	5,148	5,152	5,036	5,007	4,674	5,021	4,693		5,308
AC/MC	86%	89%	89%	89%	87%	87%	81%	87%	81%	5.7%	88%
<b>Gas, Hydro and Other Unit Availability</b>											
Average	3,778	3,879	3,834	3,700	3,809	3,817	3,915	3,819	3,614		3,908
AC/MC	67%	69%	68%	65%	67%	67%	69%	67%	64%	3.6%	69%



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 17, prices were at or below:

\$20/MWh	2% of the time
\$50/MWh	91% of the time
\$100/MWh	98% of the time
\$250/MWh	98% of the time
\$500/MWh	99% 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 17 implied market heat rates were at or below:

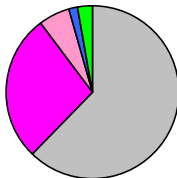
5.0 GJ/MWh	2% of the time
10.0 GJ/MWh	49% of the time
15.0 GJ/MWh	99% of the time
20.0 GJ/MWh	95% of the time

### Market Share Statistics

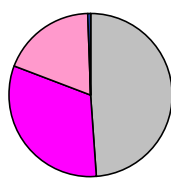
By Fuel Type:

Legend: Coal (grey), Gas - Cogen (pink), Gas - Other (light blue), Hydro (dark blue), Other (green)

Weekly Generation by Fuel Type

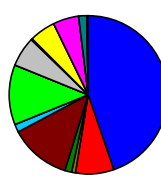


Weekly Price Setting by Fuel Type



By Submitting Customer:

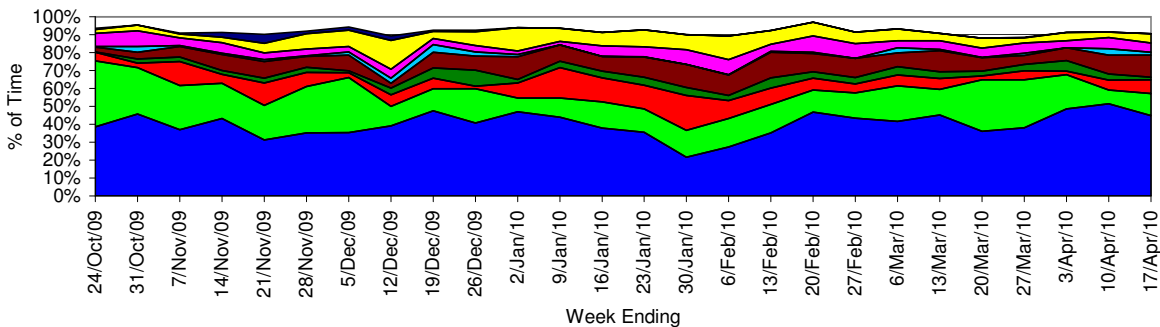
Weekly Price Setting by Submitting Customer



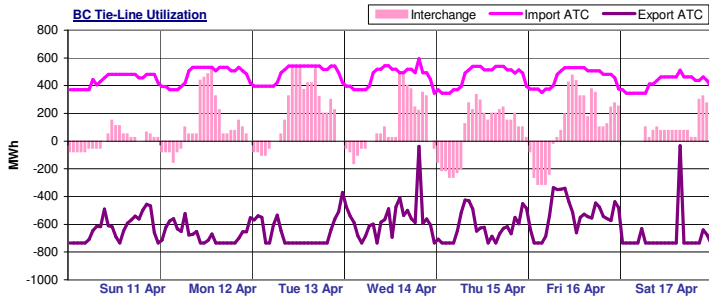
Last week, coal units were responsible for 62.3% of the generation in the province and set price 49.0% of the time. Gas-cogen units accounted for 27.4% of the generation and set price 31.9% of the time last week while other gas units made up 6.0% of generation and set price 18.6% of the time.

A total of 13 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 44.8% of the time and the top five price setters set price a total of 83.4% of the time.

Weekly Price Setting by Submitting Customer

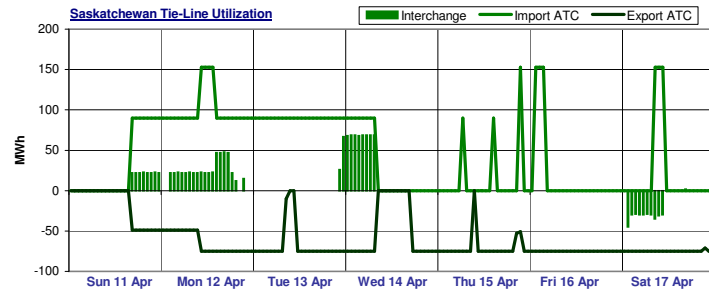


# Interties

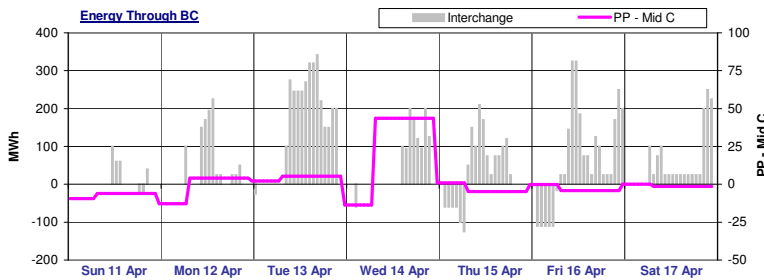


BC import capacity was 25% utilized last week while BC export capacity was 5% utilized. Energy was being imported into Alberta over the BC tie-line 65% of the time and exported out of Alberta over the BC tie-line 24% of the time last week. There was no activity on the BC tie-line 11% of the time last 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.



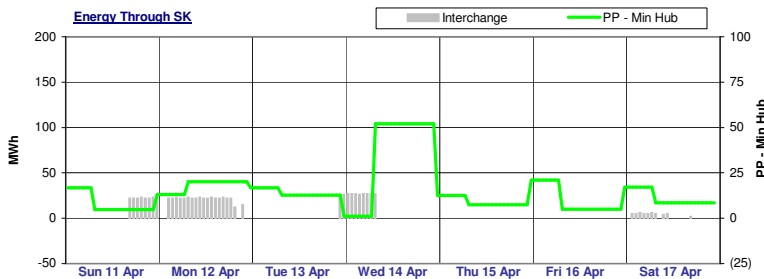
Saskatchewan import capacity was 20% utilized last week while Saskatchewan export capacity was 3% utilized. Energy was being imported into Alberta over the Saskatchewan tie-line 23% of the time and exported out of Alberta over the Saskatchewan tie-line 6% of the time last week. There was no activity on the Saskatchewan tie-line 71% of the time last week.



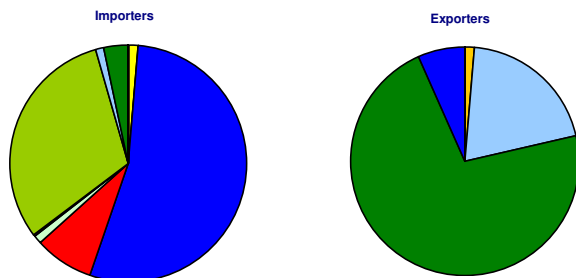
Last week, Alberta spot prices were mostly higher relative to prices in the Pacific Northwest as represented by Mid-C index prices.

Alberta prices were generally higher than prices in MISO as represented by spot prices at the Minnesota Hub.

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



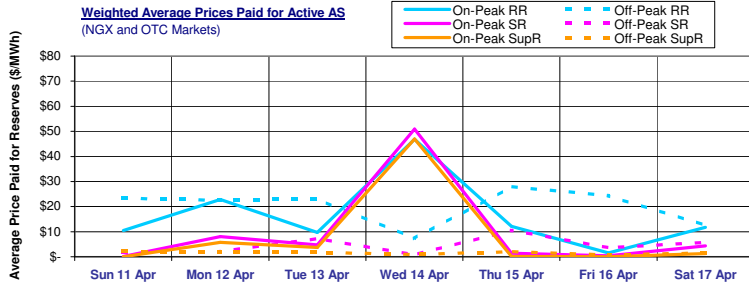
## Tie-Line Market Shares



Last week, there were a total of 8 importers. The most active importer had a market share of 53.9% while the second most active importer had a market share of 30.8%. There were a total of 4 exporters last week. The most active exporter had a market share of 72.0% while the next largest exporter had a market share of 20.0%.

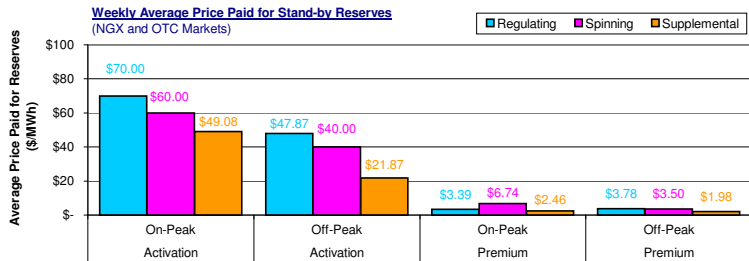
Note: Market shares are based on the combined activity on both interties.

# Ancillary Services Market



Average on-peak prices paid for active ancillary services last week were **\$16.53/MWh**, **\$10.22/MWh** and **\$8.45/MWh** respectively for active **regulating**, **spinning** and **supplemental** reserves.

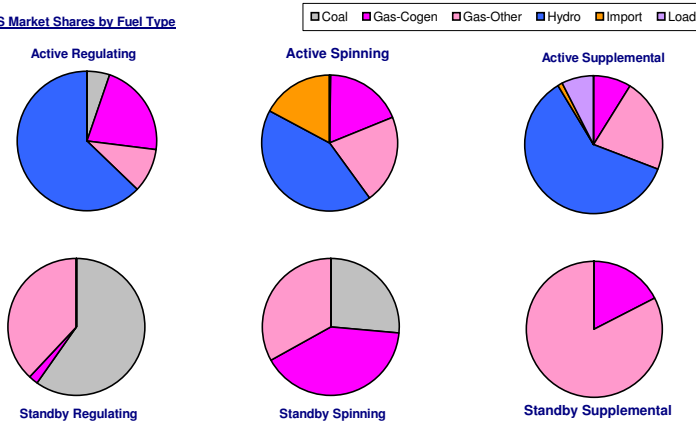
Active average off-peak prices were **lower** and averaged **\$20.20/MWh**, **\$4.55/MWh** and **\$1.57/MWh** for active **regulating**, **spinning** and **supplemental** reserves respectively.



Weekly average activation prices for stand-by reserves ranged from **\$21.87/MWh** for **off-peak supplemental** reserves to **\$70.00/MWh** for **on-peak regulating** reserves.

Weekly average premium prices ranged from **\$1.98/MWh** for **off-peak supplemental** reserves up to **\$6.74/MWh** for **on-peak spinning** reserves.

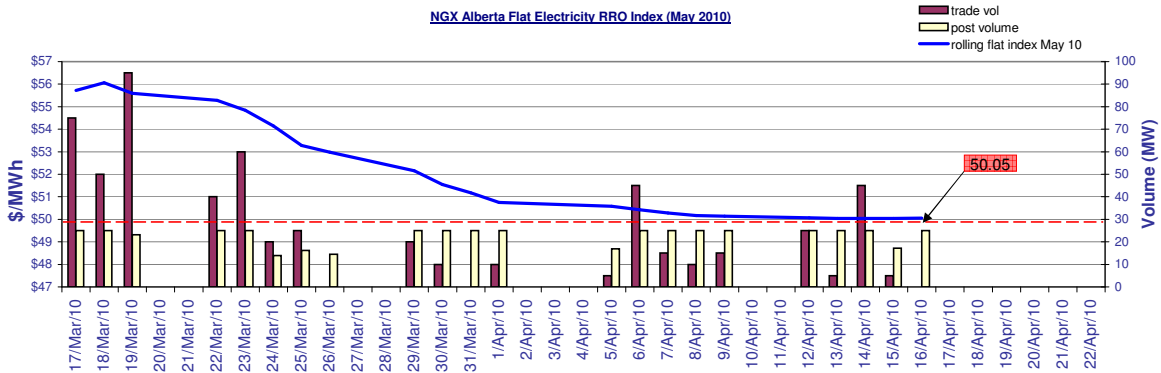
## AS Market Shares by Fuel Type



Last week **hydro** units had the largest market share in the **active regulating** reserve market with **62.7%**. In the **active spinning** reserve market, **hydro** units had the leading market share with **42.8%** while in the **active supplemental** reserve market, **hydro** units dominated with a **60.8%** market share.

**Coal** units dominated the **standby regulating** reserve market with a **59.6%** market share. Leading market share in the **standby spinning** market was held by **gas cogen** units with a **40.7%** market share. In the **standby supplemental** reserve market, **gas** units had the leading market share with **82.6%**.

# 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 (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.