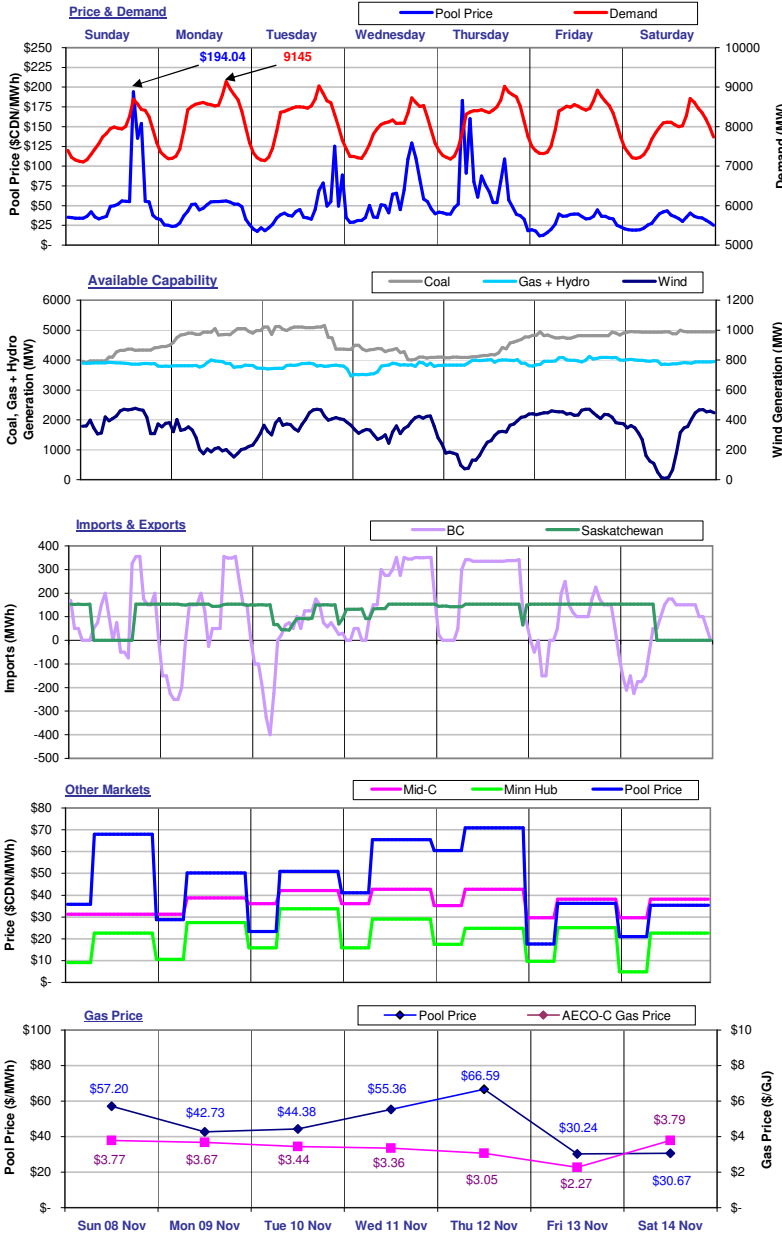


The Market Monitor

WATCHING THE MARKET : your fact source

Week Ending November 14, 2009

Weekly Highlights



For the week ending November 14, 2009, **Pool Price** averaged \$46.74/MWh and ranged from a minimum of \$11.62/MWh in HE03 on Friday to a maximum of \$194.04/MWh in HE18 on Sunday. **Demand** reached a high of 9145 MW in HE18 on Monday and a low of 7105 MW in HE05 on Sunday. Average demand for the week was 8040 MW. **Pool Price** and **Demand** were positively correlated last week with an R-squared value of 0.19.

Coal Unit Availability averaged 4618 MW last week. This is an equivalent availability of 76%. **Gas, Hydro and Other Unit Availability** averaged 3872 MW last week, which is an equivalent of 69%. **Wind Generation** averaged 333 MW last week. This is an equivalent availability of 59%. Availability numbers are based on MW offered into the energy merit order.

Alberta was a net importer to **BC** last week with total imports equal to 17,382 MWh. Alberta was a net importer from **Saskatchewan** last week with total imports equal to 20,155 MWh. Overall, Alberta imported 37,537 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 \$40.27/MWh on-peak and \$32.78/MWh off-peak. **Minn Hub** prices averaged \$27.14/MWh on-peak and \$11.94/MWh off-peak.

Prices in \$CDN at an exchange rate of 1.07851.

The average **AECO-C Gas Price** last week was \$3.34 GJ and ranged from a minimum of \$2.27/GJ to \$3.79/GJ. Prevailing gas prices resulted in market heat rates ranging from a low of 8.09 GJ/MWh to a high of 21.80 GJ/MWh. The average market heat rate for the week was 14.20 GJ/MWh.

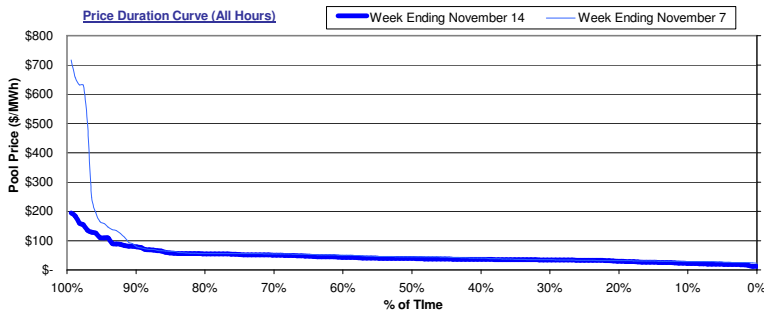


Alberta's Market Surveillance Administrator is in place to monitor the fair, efficient and openly competitive operation of all electricity markets within the province. The **Market Monitor** is a weekly publication by the MSA intended to educate industry participants and the public on market activities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

Wholesale Market

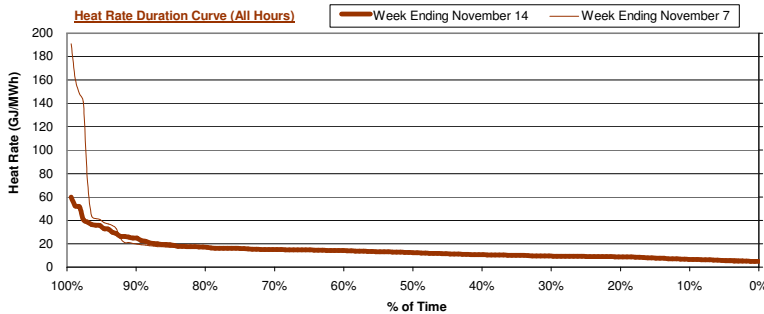
Weekly Market Statistics

	Sunday 8-Nov	Monday 9-Nov	Tuesday 10-Nov	Wednesday 11-Nov	Thursday 12-Nov	Friday 13-Nov	Saturday 14-Nov	Average	Last Week	% Change	YTD
Pool Price											
Average	\$ 57.20	\$ 42.73	\$ 44.38	\$ 55.36	\$ 66.59	\$ 30.24	\$ 30.67	\$ 46.74	\$ 67.13	-30.4%	\$ 47.41
On-Peak	NA	\$ 50.22	\$ 51.00	\$ 65.53	\$ 70.96	\$ 36.22	\$ 35.41	\$ 51.56	\$ 92.18	-44.1%	\$ 60.80
Off-Peak	\$ 57.20	\$ 27.75	\$ 31.16	\$ 35.00	\$ 57.84	\$ 18.28	\$ 21.21	\$ 40.32	\$ 34.18	18.0%	\$ 28.40
COV	0.73	0.29	0.56	0.50	0.58	0.32	0.26	0.46	0.79	-41.1%	
Heat Rate											
Average	15.15	11.64	12.89	16.50	21.80	13.30	8.09	14.20	18.05	-21.4%	13.07
On-Peak	NA	13.68	14.81	19.53	23.23	15.93	9.34	16.09	24.48	-34.3%	16.76
Off-Peak	15.15	7.56	9.05	10.43	18.94	8.04	5.59	11.67	9.48	23.1%	7.83
Demand											
Average	7,793	8,203	8,139	7,922	8,156	8,175	7,892	8,040	8,037	0.0%	7,897
Minimum	7,105	7,189	7,140	7,198	7,181	7,315	7,196	7,189	7,186	0.0%	6,454
Maximum	8,693	9,145	9,029	8,727	9,018	8,924	8,709	8,892	8,836	0.6%	9,753
Coal Unit Availability											
Average	4,225	4,903	4,899	4,234	4,312	4,816	4,935	4,618	4,609		5,051
AC/MC	70%	81%	81%	70%	71%	80%	82%	76%	76%	0.1%	84%
Gas, Hydro and Other Unit Availability											
Average	3,874	3,832	3,782	3,751	3,922	4,007	3,934	3,872	3,882		3,621
AC/MC	69%	68%	67%	66%	69%	71%	70%	69%	69%	-0.2%	68%



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 14**, prices were at or below:

\$20/MWh	7% of the time
\$50/MWh	69% of the time
\$100/MWh	93% of the time
\$250/MWh	100% 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 **November 14** implied market heat rates were at or below:

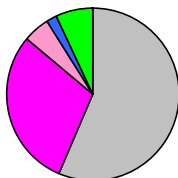
5.0 GJ/MWh	0% of the time
10.0 GJ/MWh	34% of the time
15.0 GJ/MWh	71% of the time
20.0 GJ/MWh	87% of the time

Market Share Statistics

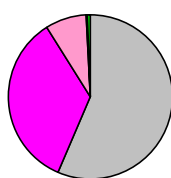
By Fuel Type:

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

Weekly Generation by Fuel Type

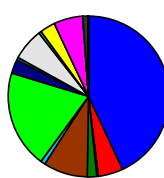


Weekly Price Setting by Fuel Type



By Submitting Customer:

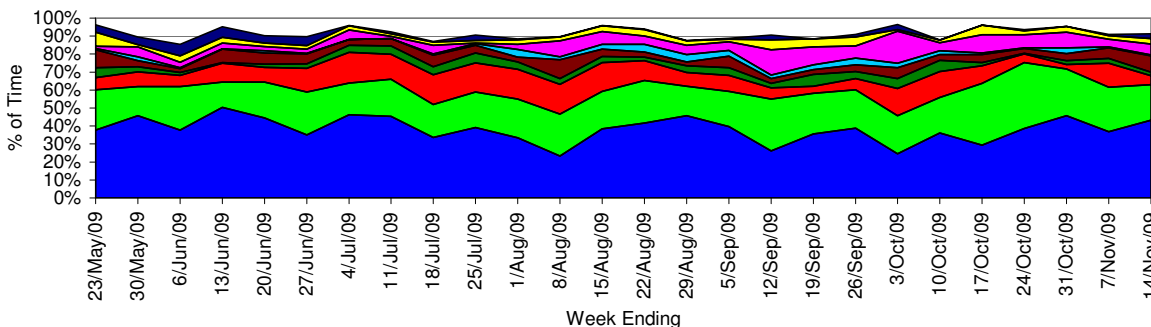
Weekly Price Setting by Submitting Customer



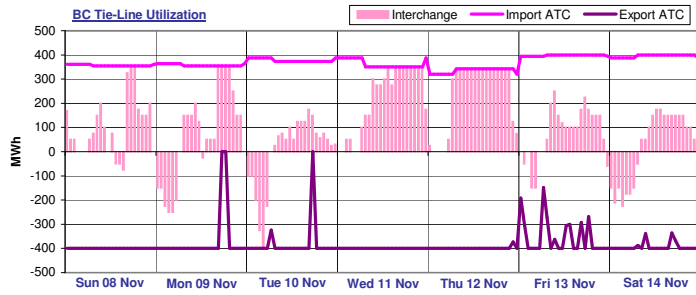
Last week, **coal units** were responsible for 56.3% of the generation in the province and set price 56.4% of the time. **Gas-cogen** units accounted for 29.8% of the generation and set price 34.7% of the time last week while **other gas** units made up 5.1% of generation and set price 8.0% of the time.

A total of 14 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 43.2% of the time and the top five price setters set price a total of 84.4% of the time.

Weekly Price Setting by Submitting Customer

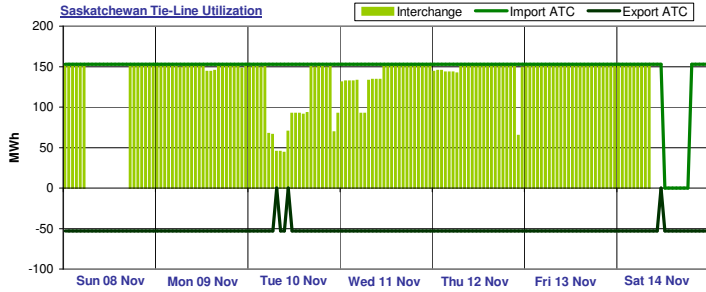


Interties

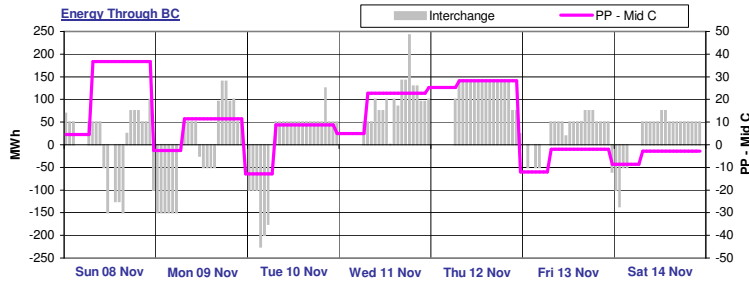


BC import capacity was 38% utilized last week while BC export capacity was 9% utilized. Energy was being imported into Alberta over the BC tie-line 71% of the time and exported out of Alberta over the BC tie-line 17% of the time last week. There was no activity on the BC tie-line 13% of the time last 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.



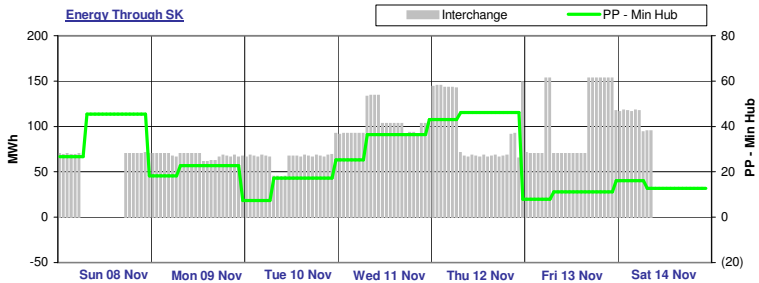
Saskatchewan import capacity was 82% utilized last week while Saskatchewan export capacity was 0% utilized. Energy was being imported into Alberta over the Saskatchewan tie-line 85% of the time and exported out of Alberta over the Saskatchewan tie-line 0% of the time last week. There was no activity on the Saskatchewan tie-line 15% of the time last week.



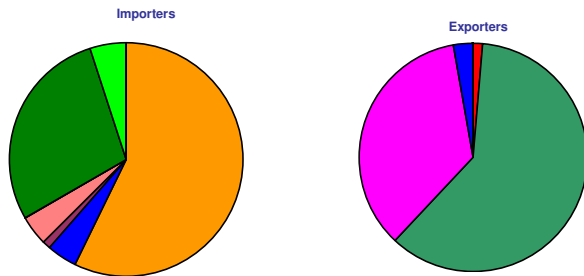
Last week, Alberta spot prices were mostly higher relative to prices in the Pacific Northwest as represented by Mid-C index prices, supporting import activity across the Alberta - BC interconnection.

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

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



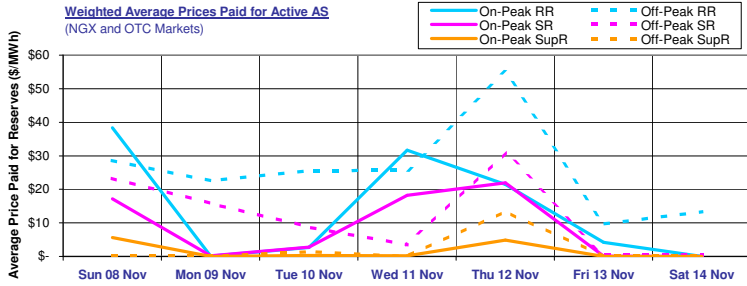
Tie-Line Market Shares



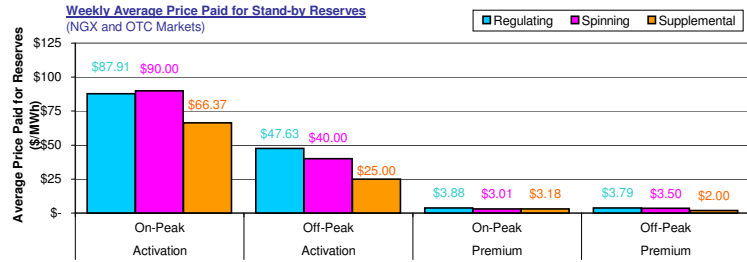
Last week, there were a total of 8 importers. The most active importer had a market share of 57.4% while the second most active importer had a market share of 28.2%. There were a total of 4 exporters last week. The most active exporter had a market share of 60.7% while the next largest exporter had a market share of 35.3%.

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

Ancillary Services Market

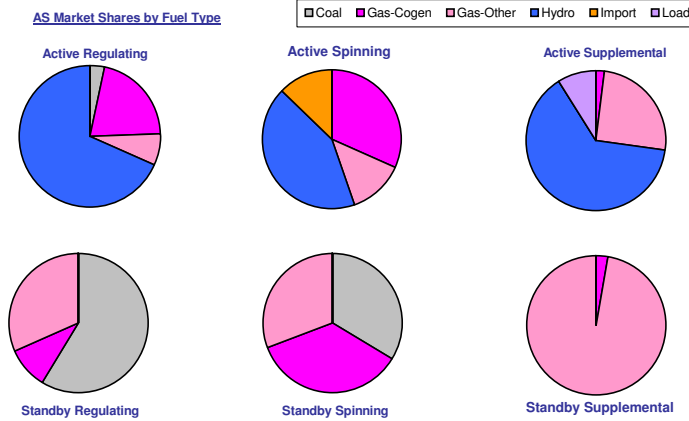


Average on-peak prices paid for active ancillary services last week were **\$14.08/MWh**, **\$8.57/MWh** and **\$1.56/MWh** respectively for active **regulating**, **spinning** and **supplemental** reserves.
Active average off-peak prices were **higher** and averaged **\$25.92/MWh**, **\$11.90/MWh** and **\$2.13/MWh** for active **regulating**, **spinning** and **supplemental** reserves respectively.



Weekly average activation prices for stand-by reserves ranged from **\$25.00/MWh** for **off-peak supplemental** reserves to **\$90.00/MWh** for **on-peak spinning** reserves.
Weekly average premium prices ranged from **\$2.00/MWh** for **off-peak supplemental** reserves up to **\$3.88/MWh** for **on-peak spinning** reserves.

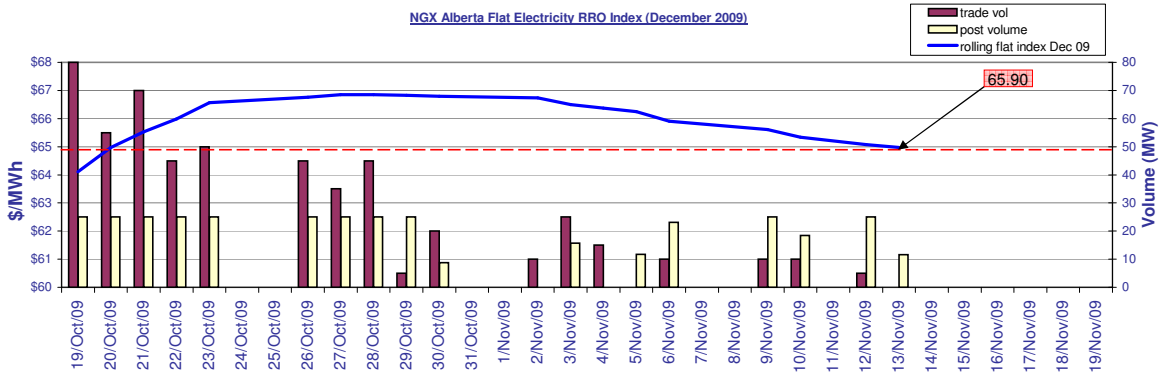
AS Market Shares by Fuel Type



Last week **hydro** units had the largest market share in the **active regulating** reserve market with **68.2%**. In the **active spinning** reserve market, **hydro** units had the leading market share with **42.6%** while in the **active supplemental** reserve market, **hydro** units dominated with a **63.8%** market share.

Coal units dominated the **standby regulating** reserve market with a **58.7%** market share. Leading market share in the **standby spinning** market was held by **Cogen** units with a **35.5%** market share. In the **standby supplemental** reserve market, **gas** units had the leading market share with **97.2%**.

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.