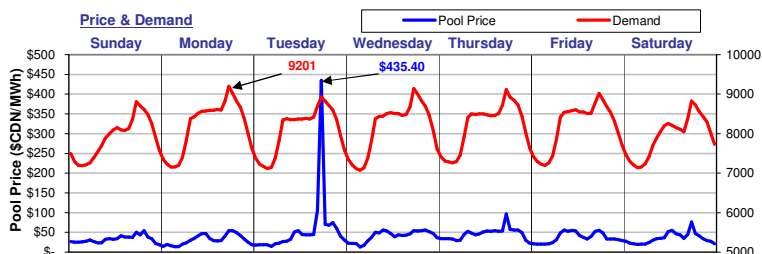


The Market Monitor

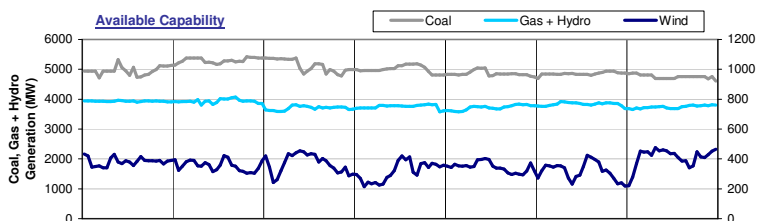
WATCHING THE MARKET : your fact source

Week Ending November 21, 2009

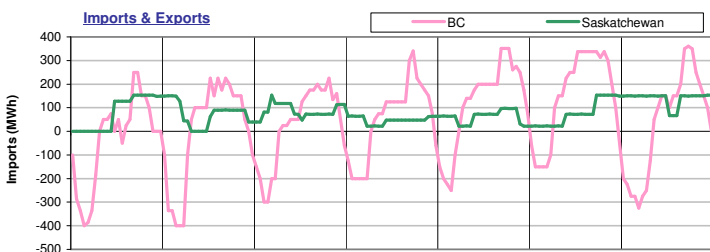
Weekly Highlights



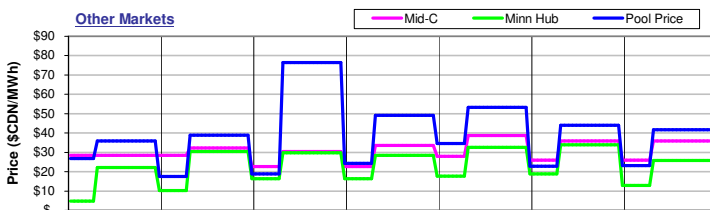
For the week ending November 21, 2009, **Pool Price** averaged \$40.31/MWh and ranged from a minimum of \$13.13/MWh in HE04 on Wednesday to a maximum of \$435.40/MWh in HE18 on Tuesday. **Demand** reached a high of 9201 MW in HE18 on Monday and a low of 7076 MW in HE04 on Wednesday. Average demand for the week was 8094 MW. **Pool Price** and **Demand** were positively correlated last week with an R-squared value of 0.20.



Coal Unit Availability averaged 4978 MW last week. This is an equivalent availability of 82%. **Gas, Hydro and Other Unit Availability** averaged 3802 MW last week, which is an equivalent of 67%. **Wind Generation** averaged 357 MW last week. This is an equivalent availability of 63%. Availability numbers are based on MW offered into the energy merit order.

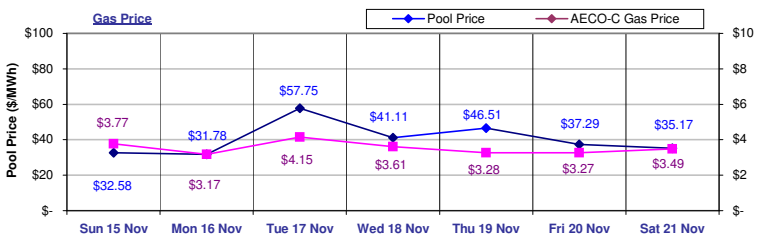


Alberta was a net importer from BC last week with total imports equal to 8,237 MWh. Alberta was a net importer from Saskatchewan last week with total imports equal to 13,546 MWh. Overall, Alberta imported 21,783 MWh of electricity last week.



Pool Prices were generally higher than prices in **Mid-C** and higher than prices in **Minn Hub** last week. **Mid-C** prices averaged \$34.44/MWh on-peak and \$26.04/MWh off-peak. **Minn Hub** prices averaged \$30.16/MWh on-peak and \$13.87/MWh off-peak.

Prices in \$CDN at an exchange rate of 1.05224.



The average **AECO-C Gas Price** last week was \$3.53 GJ and ranged from a minimum of \$3.17/GJ to \$4.15/GJ. Prevailing gas prices resulted in market heat rates ranging from a low of 8.65 GJ/MWh to a high of 14.20 GJ/MWh. The average market heat rate for the week was 11.38 GJ/MWh.

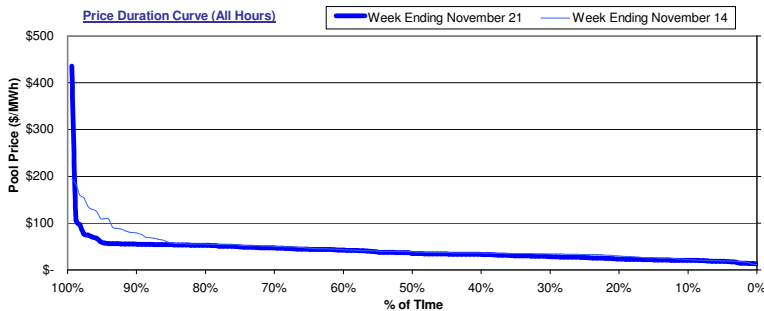


Alberta's Market Surveillance Administrator is in place to monitor the fair, efficient and openly competitive operation of all electricity markets within the province. The **Market Monitor** is a weekly publication by the MSA intended to educate industry participants and the public on market activities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

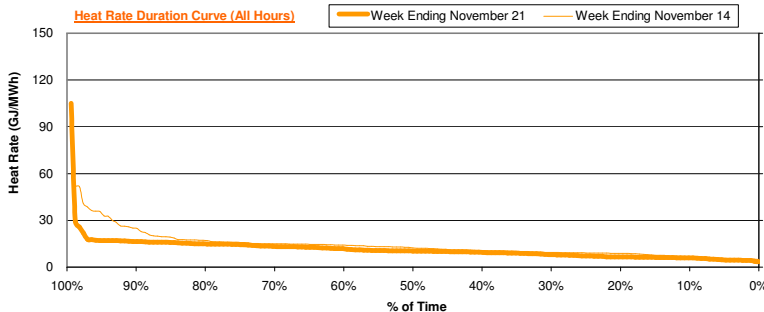
	Sunday 15-Nov	Monday 16-Nov	Tuesday 17-Nov	Wednesday 18-Nov	Thursday 19-Nov	Friday 20-Nov	Saturday 21-Nov	Average	Last Week	% Change	YTD
Pool Price											
Average	\$ 32.58	\$ 31.78	\$ 57.75	\$ 41.11	\$ 46.51	\$ 37.29	\$ 35.17	\$ 40.31	\$ 46.74	-13.7%	\$ 47.25
On-Peak	NA	\$ 38.91	\$ 76.43	\$ 49.17	\$ 53.33	\$ 44.08	\$ 41.68	\$ 50.60	\$ 51.56	-1.9%	\$ 60.58
Off-Peak	\$ 32.58	\$ 17.53	\$ 20.40	\$ 24.98	\$ 32.88	\$ 23.71	\$ 22.14	\$ 26.60	\$ 40.32	-34.0%	\$ 28.32
COV	0.27	0.41	1.45	0.32	0.32	0.34	0.39	0.50	0.46	8.2%	
Heat Rate											
Average	8.65	10.03	13.93	11.40	14.20	11.40	10.09	11.38	14.20	-19.8%	13.03
On-Peak	NA	12.27	18.44	13.64	16.28	13.47	11.96	14.34	16.09	-10.8%	16.71
Off-Peak	8.65	5.53	4.92	6.93	10.04	7.25	6.35	7.44	11.67	-36.3%	7.81
Demand											
Average	7,893	8,197	8,095	8,159	8,193	8,186	7,938	8,094	8,040	0.7%	7,902
Minimum	7,186	7,155	7,119	7,076	7,258	7,200	7,140	7,162	7,189	-0.4%	6,454
Maximum	8,805	9,201	8,933	9,137	9,117	9,023	8,827	9,006	8,892	1.3%	9,753
Coal Unit Availability											
Average	4,955	5,298	5,122	5,006	4,858	4,855	4,753	4,978	4,618	6.0%	5,050
AC/MC	82%	88%	85%	83%	80%	80%	79%	82%	76%	6.0%	84%
Gas, Hydro and Other Unit Availability											
Average	3,932	3,937	3,700	3,753	3,720	3,834	3,740	3,802	3,872	-1.2%	3,625
AC/MC	70%	70%	65%	66%	66%	68%	66%	67%	69%	-1.2%	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 21**, prices were at or below:

\$20/MWh	8% of the time
\$50/MWh	76% of the time
\$100/MWh	89% of the time
\$250/MWh	99% 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 21** implied market heat rates were at or below:

5.0 GJ/MWh	7% of the time
10.0 GJ/MWh	45% of the time
15.0 GJ/MWh	81% of the time
20.0 GJ/MWh	98% of the time

Market Share Statistics

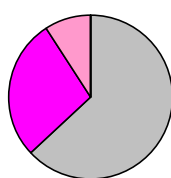
By Fuel Type:

Coal Gas - Cogen Gas - Other Hydro Other

Weekly Generation by Fuel Type

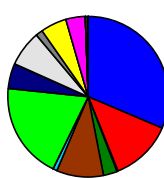


Weekly Price Setting by Fuel Type



By Submitting Customer:

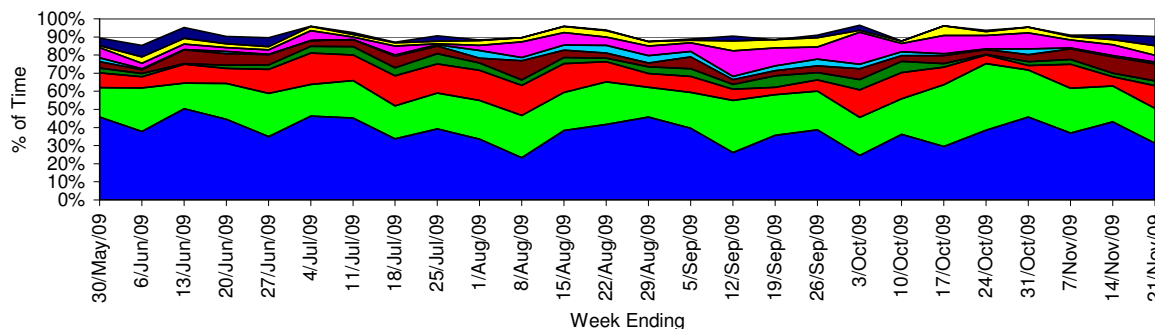
Weekly Price Setting by Submitting Customer



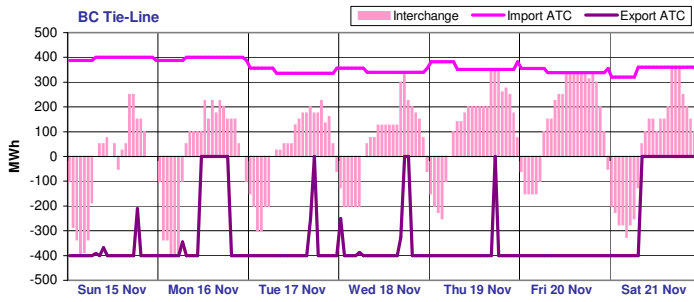
Last week, **coal units** were responsible for 57.9% of the generation in the province and set price 63.1% of the time. **Gas-cogen** units accounted for 28.4% of the generation and set price 27.6% of the time last week while **other gas** units made up 5.0% of generation and set price 9.3% of the time.

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 31.3% of the time and the top five price setters set price a total of 79.7% of the time.

Weekly Price Setting by Submitting Customer

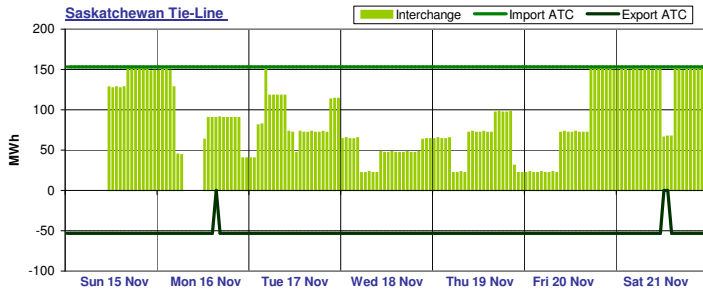


Interties

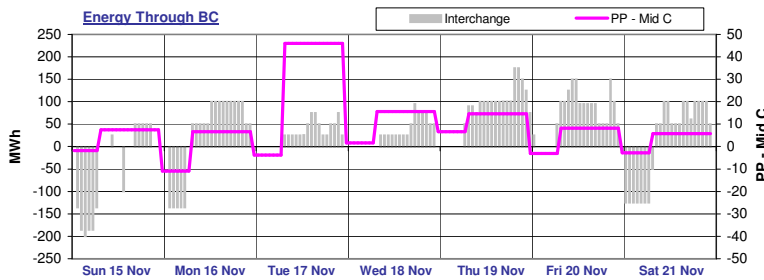


BC import capacity was 32% utilized last week while BC export capacity was 19% utilized. Energy was being imported into Alberta over the BC tie-line 64% of the time and exported out of Alberta over the BC tie-line 30% of the time last week. There was no activity on the BC tie-line 6% of the time last 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.



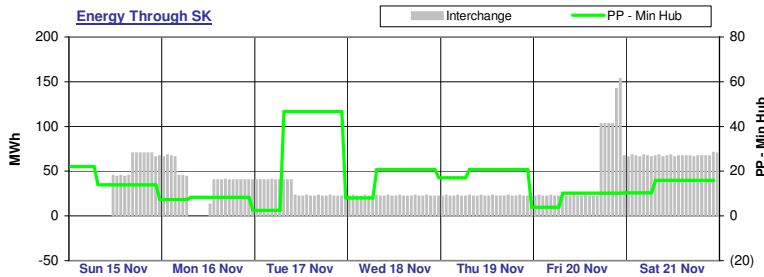
Saskatchewan import capacity was 53% utilized last week while Saskatchewan export capacity was 0% utilized. Energy was being imported into Alberta over the Saskatchewan tie-line 90% of the time and exported out of Alberta over the Saskatchewan tie-line 0% of the time last week. There was no activity on the Saskatchewan tie-line 10% of the time last week.



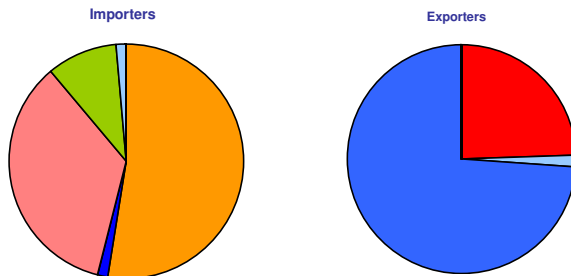
Last week, Alberta spot prices were mostly higher relative to prices in the Pacific Northwest as represented by Mid-C index prices, supporting import activity across the Alberta - BC interconnection.

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.



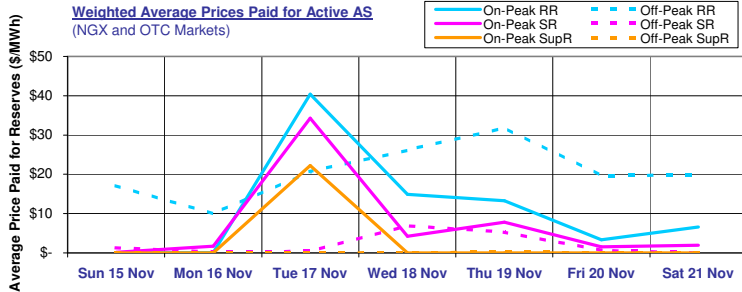
Tie-Line Market Shares



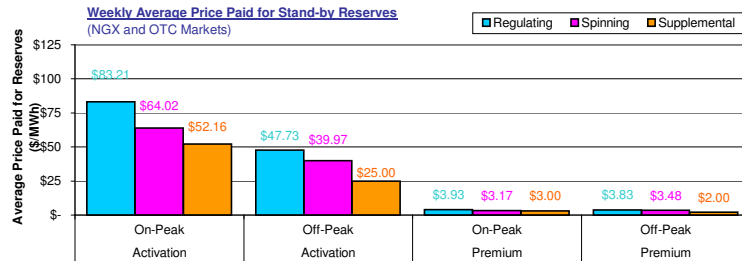
Last week, there were a total of 6 importers. The most active importer had a market share of 52.6% while the second most active importer had a market share of 35.0%. There were a total of 3 exporters last week. The most active exporter had a market share of 74.0% while the next largest exporter had a market share of 24.5%.

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

Ancillary Services Market

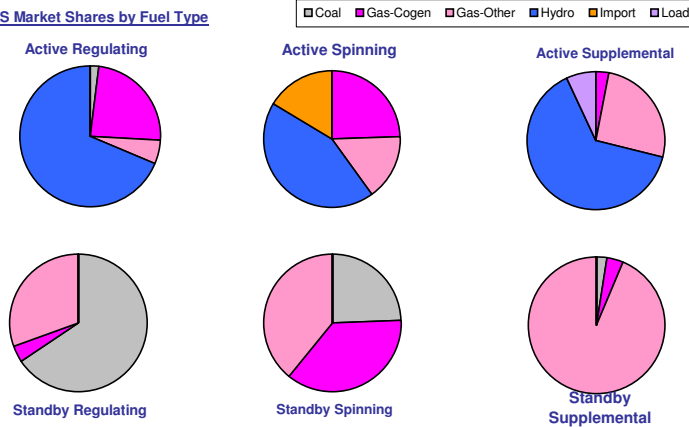


Average on-peak prices paid for active ancillary services last week were **\$11.24/MWh**, **\$7.57/MWh** and **\$3.29/MWh** respectively for active **regulating**, **spinning** and **supplemental** reserves.
Active average off-peak prices were **higher** and averaged **\$20.82/MWh**, **\$2.14/MWh** and **\$0.04/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 **\$83.21/MWh** for **on-peak spinning** reserves.
Weekly average premium prices ranged from **\$2.00/MWh** for **off-peak supplemental** reserves up to **\$3.93/MWh** for **on-peak regulating** reserves.

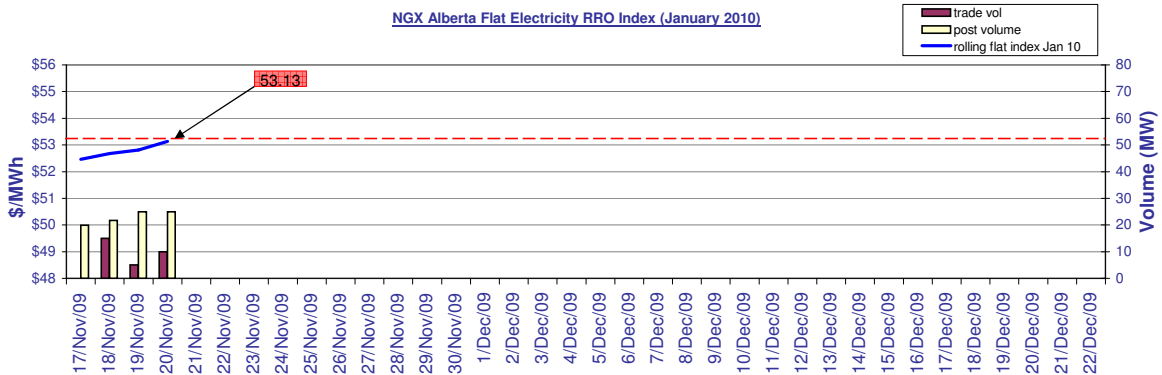
AS Market Shares by Fuel Type



Last week **hydro** units had the largest market share in the **active regulating** reserve market with **68.5%**. In the **active spinning** reserve market, **hydro** units had the leading market share with **43.6%** while in the **active supplemental** reserve market, **hydro** units dominated with a **64.1%** market share.

Coal units dominated the **standby regulating** reserve market with a **65.6%** market share. Leading market share in the **standby spinning** market was held by **gas** units with a **39.1%** market share. In the **standby supplemental** reserve market, **gas** units had the leading market share with **93.7%**.

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.