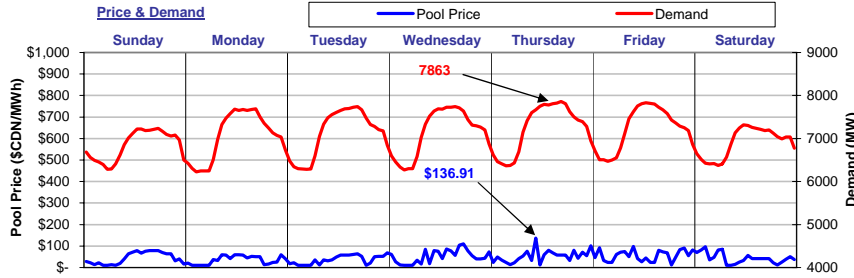


The Market Monitor

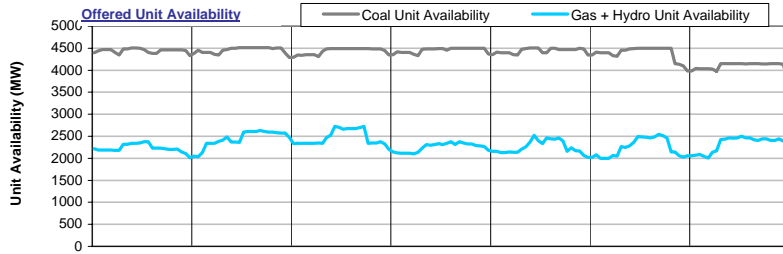
WATCHING THE MARKET : your fact source

Week Ending June 12, 2004

Weekly Highlights

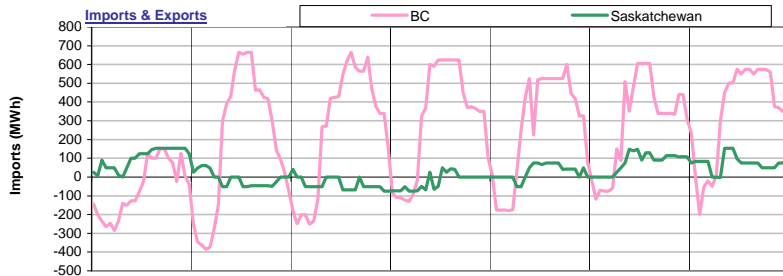


For the week ending June 12, 2004, **Pool Price** averaged \$45.97/MWh and ranged from a minimum of \$10.00/MWh in HE09 on Saturday to a maximum of \$136.91/MWh in HE11 on Thursday. **Demand** reached a high of 7863 MW in HE17 on Thursday and a low of 6228 MW in HE03 on Monday. Average demand for the week was 7084MW. **Pool Price** and **Demand** were positively correlated last week with an R-squared value of 0.19.

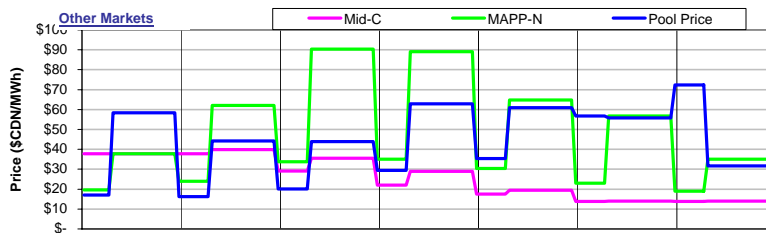


Coal Unit Availability averaged 4388 MW last week. This is an equivalent availability of 79% (based on MCR). **Gas and Hydro Unit Availability** averaged 2317MW last week, which is an equivalent of 41% (based on MCR).

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

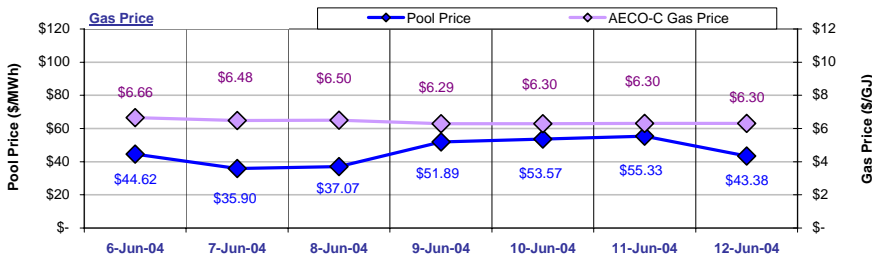


Alberta was a net importer from **BC** last week with total imports equal to 38,264MWh. Alberta was a net importer from **Saskatchewan** last week with total imports equal to 4,996MWh. Overall, Alberta imported 43,260MWh of electricity last week.



Pool Prices were generally higher than prices in **Mid-C** and lower than prices in **MAPP-N** last week. **Mid-C** prices averaged \$25.29/MWh on-peak and \$24.57/MWh off-peak. **MAPP-N** prices averaged \$66.36/MWh on-peak and \$26.37/MWh off-peak.

Prices in \$/MWh at an exchange rate of 1.3497.

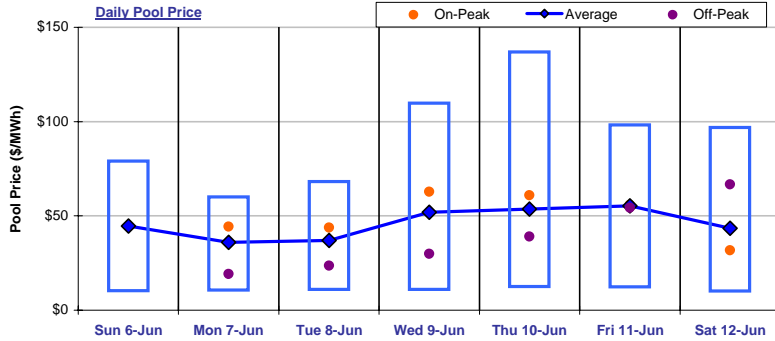


The average **AECO-C Gas Price** last week was \$6.40/GJ and ranged from a minimum of \$6.29/GJ to \$6.66/GJ. Prevailing gas prices resulted in market heat rates ranging from a low of 5.54GJ/MWh to a high of 8.78GJ/MWh. The average market heat rate for the week was 7.20GJ/MWh.

Wholesale Market

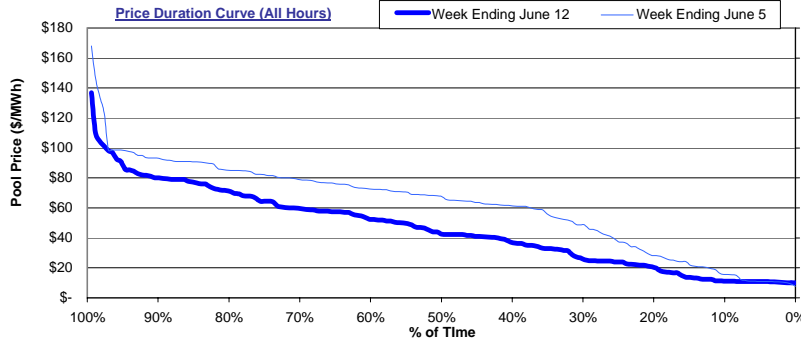
Weekly Market Statistics

| | Sunday 6-Jun | Monday 7-Jun | Tuesday 8-Jun | Wednesday 9-Jun | Thursday 10-Jun | Friday 11-Jun | Saturday 12-Jun | Average | Last Week | % Change | YTD |
|----------------------------------------|-----------------|-----------------|------------------|--------------------|--------------------|------------------|--------------------|----------|--------------|----------|----------|
| Pool Price | | | | | | | | | | | |
| Average | \$ 44.62 | \$ 35.90 | \$ 37.07 | \$ 51.89 | \$ 53.57 | \$ 55.33 | \$ 43.38 | \$ 45.97 | \$ 61.51 | -25.3% | \$ 53.15 |
| On-Peak | NA | \$ 44.27 | \$ 43.82 | \$ 62.87 | \$ 60.85 | \$ 55.86 | \$ 31.73 | \$ 49.90 | \$ 68.84 | -27.5% | \$ 61.35 |
| Off-Peak | \$ 44.62 | \$ 19.16 | \$ 23.58 | \$ 29.93 | \$ 39.01 | \$ 54.26 | \$ 66.68 | \$ 40.72 | \$ 51.73 | -21.3% | \$ 38.32 |
| COV | 0.61 | 0.54 | 0.55 | 0.60 | 0.54 | 0.46 | 0.57 | 0.55 | 0.46 | 19.7% | |
| Demand | | | | | | | | | | | |
| Average | 6,847 | 7,070 | 7,128 | 7,152 | 7,250 | 7,233 | 6,905 | 7,084 | 7,155 | -1.0% | 7,368 |
| Minimum | 6,283 | 6,228 | 6,282 | 6,266 | 6,368 | 6,472 | 6,371 | 6,324 | 6,342 | -0.3% | 6,094 |
| Maximum | 7,237 | 7,692 | 7,741 | 7,744 | 7,863 | 7,832 | 7,316 | 7,632 | 7,728 | -1.2% | 8,967 |
| Coal Unit Availability | | | | | | | | | | | |
| Average | 4,444 | 4,456 | 4,435 | 4,454 | 4,442 | 4,390 | 4,096 | 4,388 | 4,289 | 1.8% | 4,994 |
| Utilization | 81% | 81% | 80% | 81% | 80% | 80% | 74% | 79% | 78% | 1.8% | 90% |
| Gas and Hydro Unit Availability | | | | | | | | | | | |
| Average | 2,230 | 2,444 | 2,466 | 2,252 | 2,254 | 2,239 | 2,331 | 2,317 | 2,341 | -0.4% | 2,230 |
| Utilization | 47% | 51% | 52% | 47% | 47% | 47% | 49% | 41% | 41% | -0.4% | 39% |



The Daily Pool Price graph plots the daily range in hourly Pool price (defined by the blue box) along with the daily average and daily on and off-peak prices. The **on-peak Pool price** for the week was \$49.90/MWh while the **off-peak Pool price** for the week was \$40.72/MWh.

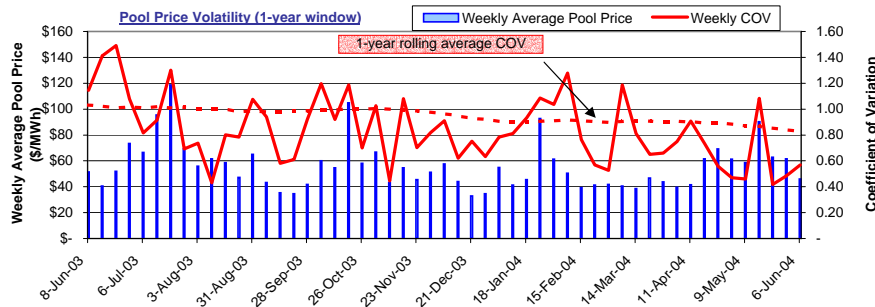
Note: Sundays and most statutory holidays are defined as off-peak.



The price duration curves show the % of time that prices were at or below a certain value during the week.

For the week ending **June 12**, prices were at or below:

- \$20/MWh 20% of the time
- \$50/MWh 55% of the time
- \$100/MWh 97% of the time
- \$250/MWh 100% of the time
- \$500/MWh 100% of the time



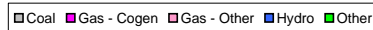
The chart plots average weekly Pool Price and the Coefficient of Variation (COV) of hourly Pool prices for the week.

Pool price volatility increased for the week ending June 12 from the previous week.

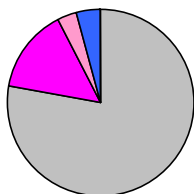
Pool price volatility also moved below the 1-year rolling average COV value.

Market Share Statistics

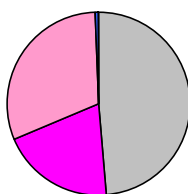
By Fuel Type:



Weekly Generation by Fuel Type

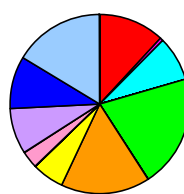


Weekly Price Setting by Fuel Type



By Submitting Customer:

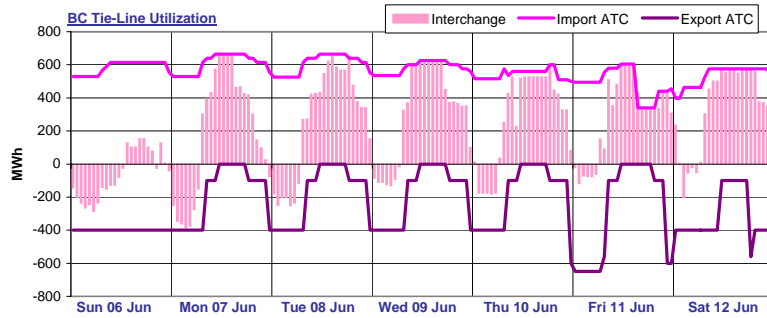
Weekly Price Setting by Submitting Customer



Last week, coal units were responsible for 77.7% of the generation in the province and set price 48.6% of the time. Gas-cogen units accounted for 14.8% of the generation and set price 20.1% of the time last week while other gas units made up 3.2% of generation and set price 30.7% of the time.

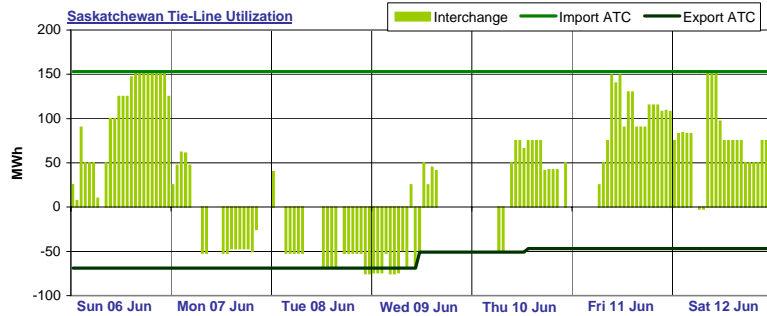
A total of 10 market participants set price last week. One market participants set price more than 20% of the time last week. The top price setter set price 20.3% of the time and the top five price setters set price a total of 73.9% of the time.

Interties



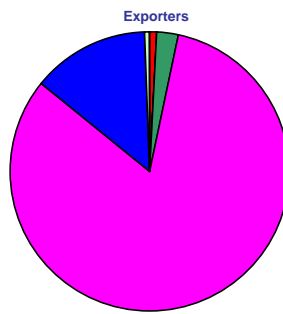
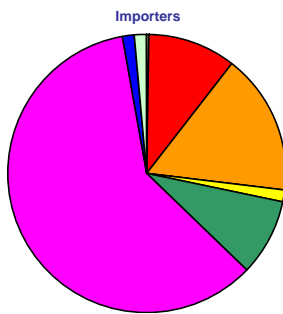
BC import capacity was 48% utilized last week while BC export capacity was 15% utilized. Energy was being imported into Alberta over the BC tie-line 69% of the time and exported out of Alberta over the BC tie-line 31% of the time last week. There was no activity on the BC tie-line 0% of the time last 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 28% utilized last week while Saskatchewan export capacity was 20% utilized. Energy was being imported into Alberta over the Saskatchewan tie-line 51% of the time and exported out of Alberta over the Saskatchewan tie-line 25% of the time last week. There was no activity on the Saskatchewan tie-line 24% of the time last week.

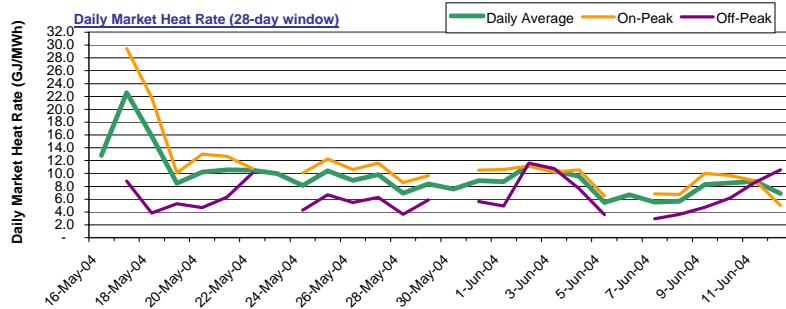
Tie-Line Market Shares



Last week, there were a total of 8 importers. The most active importer had a market share of 60.0% while the second most active importer had a market share of 16.3%. There were a total of 5 exporters last week. The most active exporter had a market share of 82.5% while the next largest exporter had a market share of 13.7%.

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

Market Heat Rates



Over the past 28 days, the daily Market Heat Rate averaged 9.5 GJ/MWh and ranged from a low of 5.5 GJ/MWh to a high of 22.6 GJ/MWh.

The daily On-Peak Market Heat Rate for the last 28 days averaged 11.1 GJ/MWh while the daily Off-Peak Market Heat Rate averaged 6.3 GJ/MWh.

Sparksreads

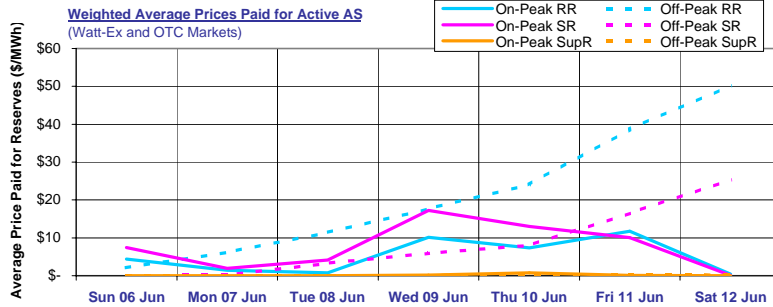
| Date | AECO-C Gas Price (\$/GJ) | Daily Average | | | On-Peak | | | Off-Peak | | |
|------------|--------------------------|---------------------|----------------------------|-----------------------------|---------------------|----------------------------|-----------------------------|---------------------|----------------------------|-----------------------------|
| | | Pool Price (\$/MWh) | Sparksread (\$/MWh) HR=7.5 | Sparksread (\$/MWh) HR=10.0 | Pool Price (\$/MWh) | Sparksread (\$/MWh) HR=7.5 | Sparksread (\$/MWh) HR=10.0 | Pool Price (\$/MWh) | Sparksread (\$/MWh) HR=7.5 | Sparksread (\$/MWh) HR=10.0 |
| Sun 06 Jun | \$ 6.66 | \$ 44.62 | (5.31) | (21.95) | NA | NA | NA | \$ 44.62 | (5.31) | (21.95) |
| Mon 07 Jun | \$ 6.48 | \$ 35.90 | (12.69) | (28.89) | \$ 44.27 | (4.32) | (20.52) | \$ 19.16 | (29.43) | (45.63) |
| Tue 08 Jun | \$ 6.50 | \$ 37.07 | (11.70) | (27.96) | \$ 43.82 | (4.95) | (21.21) | \$ 23.58 | (25.20) | (41.46) |
| Wed 09 Jun | \$ 6.29 | \$ 51.89 | 4.73 | (10.99) | \$ 62.87 | 15.71 | (0.02) | \$ 29.93 | (17.23) | (32.95) |
| Thu 10 Jun | \$ 6.30 | \$ 53.57 | 6.35 | (9.39) | \$ 60.85 | 13.64 | (2.10) | \$ 39.01 | (8.21) | (23.95) |
| Fri 11 Jun | \$ 6.30 | \$ 55.33 | 8.06 | (7.70) | \$ 55.86 | 8.60 | (7.16) | \$ 54.26 | 6.99 | (8.77) |
| Sat 12 Jun | \$ 6.30 | \$ 43.38 | (3.89) | (19.65) | \$ 31.73 | (15.54) | (31.30) | \$ 66.68 | 19.40 | 3.65 |

Daily average sparksreads last week were mostly negative for a heat rate of 7.5 GJ/MWh and all negative for a heat rate of 10.0 GJ/MWh.

On-peak sparksreads last week were mostly negative for a heat rate of 7.5 GJ/MWh and all negative for a heat rate of 10.0 GJ/MWh.

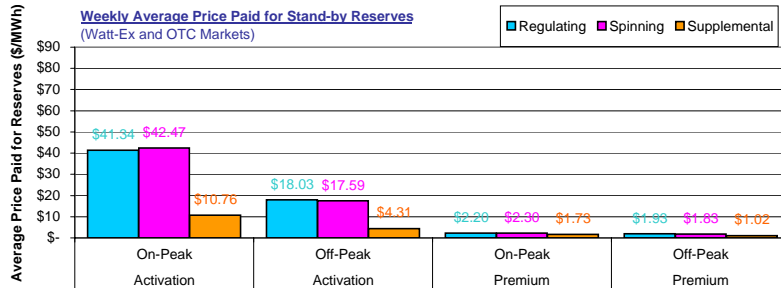
Off-peak sparksreads last week were mostly negative for a heat rate of 7.5 GJ/MWh and mostly negative for a heat rate of 10.0 GJ/MWh.

Ancillary Services Market



Average on-peak prices paid for active ancillary services last week were \$5.14/MWh, \$7.76/MWh and \$0.15/MWh respectively for active **regulating**, **spinning** and **supplemental** reserves.

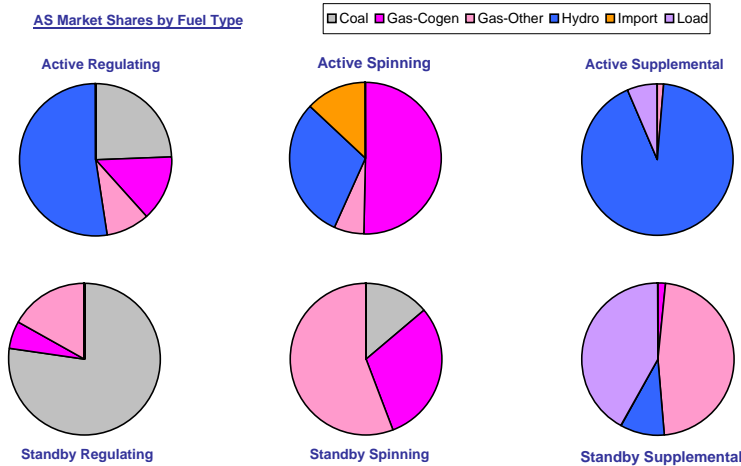
Active average off-peak prices were somewhat higher and averaged \$21.16/MWh, \$8.47/MWh and \$0.14/MWh for active **regulating**, **spinning** and **supplemental** reserves respectively.



Weekly average activation prices for stand-by reserves ranged from \$4.31/MWh for **off-peak supplemental** reserves to \$42.47/MWh for **on-peak spinning** reserves.

Weekly average premium prices ranged from \$1.02/MWh for **off-peak supplemental** reserves up to \$2.30/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 52.5%. In the **active spinning** reserve market, **gas-cogen** units had the leading market share with 50.4% while in the **active supplemental** reserve market, **hydro** units dominated with a 92.1% market share.

Coal units dominated the **standby regulating** reserve market with a 77.2% market share. Leading market share in the **standby spinning** market was held by **gas-other** units with a 56.0% market share. In the **standby supplemental** reserve market, **gas-other** units had the leading market share with 47.0%.

Glossary

- HE** Hour Ending
- 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 MAPP-N: 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 MAPP-N: HE24 (of the previous day) through HE07 (of the day in question), Monday through Sunday (prevailing Central time)
- COV** Coefficient of Variation
The standard deviation of a series of numbers divided by the mean of the same series of numbers. Used as a measure of volatility.
- ATC** Available Transfer Capacity
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.