



## TC Energy Power Market update.

### Forward prices table (indicative as of April 6, 2020)

	Flat 7x24 (\$/MWh)	AB - 7x16 On Peak (\$/MWh)	AB - 7x8 Off-Peak (\$/MWh)	AECO Gas (\$/GJ)	Heat Rate
<b>BOM</b>	\$35.00	\$41.00	\$24.00	\$1.75	20.00000
<b>May</b>	\$36.50	\$40.50	\$27.00	\$1.61	22.67000
<b>BOY</b>	\$49.00	\$56.13	\$32.03	\$1.90	25.78947
<b>2021</b>	\$53.25	\$64.38	\$30.86	\$2.20	24.20454
<b>2022</b>	\$53.25	\$64.88	\$30.00	\$2.11	25.23696
<b>2023</b>	\$52.00	\$61.50	\$31.50	\$2.10	24.76190

All prices are indicative as of April 6, 2020. For Firm power price quotes please contact TC Energy's Power Marketing team. See contacts on the last page.

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### Alberta Market Recap – March 2020

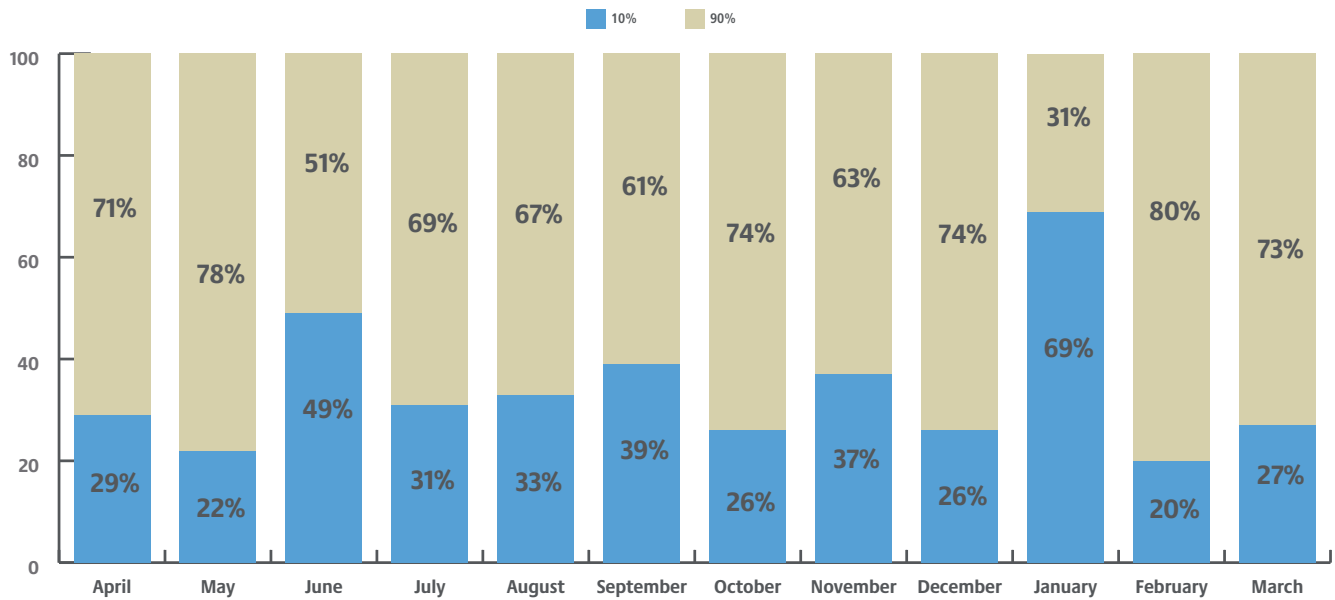
To say that this has been an unusual few weeks would be an understatement. As governments around the globe contend with the health of both their people and their economies, Alberta's resource sector is contending with the added stress of an oil price war. All of these factors have obviously had a direct impact on the demand for electricity in our province and both the spot and forward power market prices reflect the challenged environment. There has been as much as a 24% decrease in the forwards market, with Q2 and Q3 seeing the greatest impact, trading \$10.42 and \$9.94 lower since the end of February, respectively. Looking at months on an individual basis, June 2020 has seen the most dramatic change, trading \$12.50 lower since last month. After adjusting for weather, Alberta Internal Load growth for March 2020 was 0.87% compared to around 2% average growth in March over the past decade.

March 2020 settled at \$42.16/MWh, representing a 35% decrease from March 2019's settle of \$65.04/MWh and a 16% increase from last month's settle of \$36.33/MWh. The average price between the on-peak and off-peak for March differed by \$13.50/MWh, resulting in on-peak and off-peak prices of \$46.64/MWh and \$33.15/MWh respectively.

There was one marginal day of influential pricing in March; March 19th which settled at \$125.67/MWh.

This triple digit day can largely be attributed to three hours; 11:00am-2:00pm, where the hourly settles were \$742.50, \$742.11, and \$645.00 respectively. Reduced coal generation due to Battle River 5 and Sheerness 2 being offline limited the thermal supply. This coupled with negligible wind generation increased volatility over the afternoon hours of March 19th.

## Hours contributing to monthly average price



The top 10% of high-priced hours averaged \$112.28/MWh, contributing 27% to the monthly settle while the bottom 90% of hours averaged \$34.40/MWh.

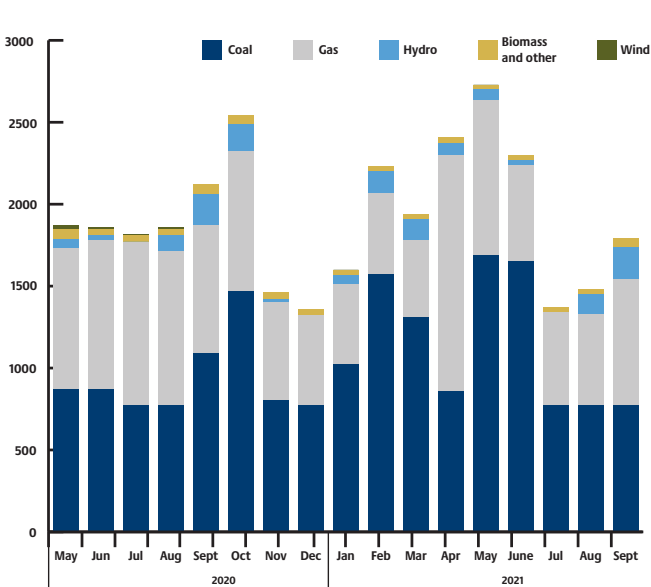
Average Alberta Internal Load (AIL) for the month was 10,008 MW, with peak load hitting 10,785 MW on March 13th, 2020 HE (hour ending) 21. This represents a 1% increase from March 2019's average AIL of 9,919 MW and a 3% decrease from its peak load of 11,094 MW.

The weighted average temperature across the province for March was -6.5°C representing a 2.9°C decrease from last March when the average was -3.6°C. For the month of March, Alberta saw yet another wide range in temperatures reaching a high of 16°C in Medicine Hat on March 6th compared to a low of -32°C seen in Fort McMurray and Grand Prairie on March 14th and Red Deer on March 15th.

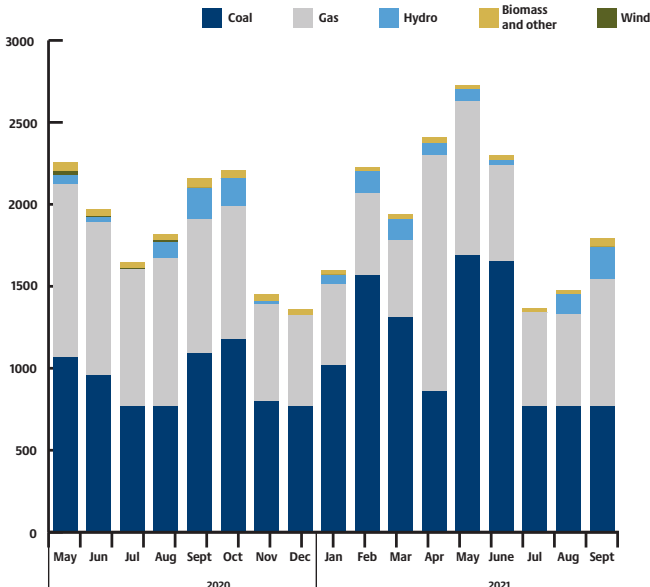
# Monthly outages

Since last month’s outage report, there have been changes in both gas and coal outages. Noteworthy gas outages include a decrease of 190MW in May 2020 and an increase of 170MW in July 2020. Notable coal outages include decreases of 200MW and 90 MW in May 2020 and June 2020, respectively, and an increase of 290MW in October 2020.

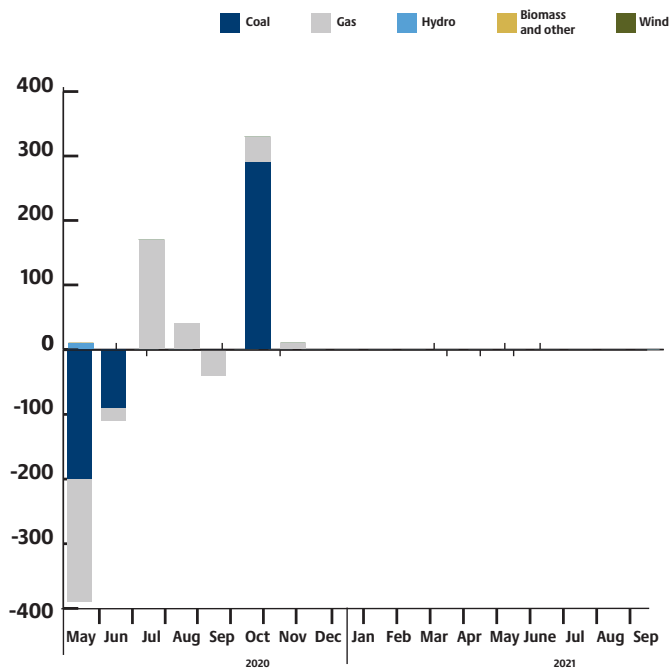
AESO monthly outages (as of April 2020)



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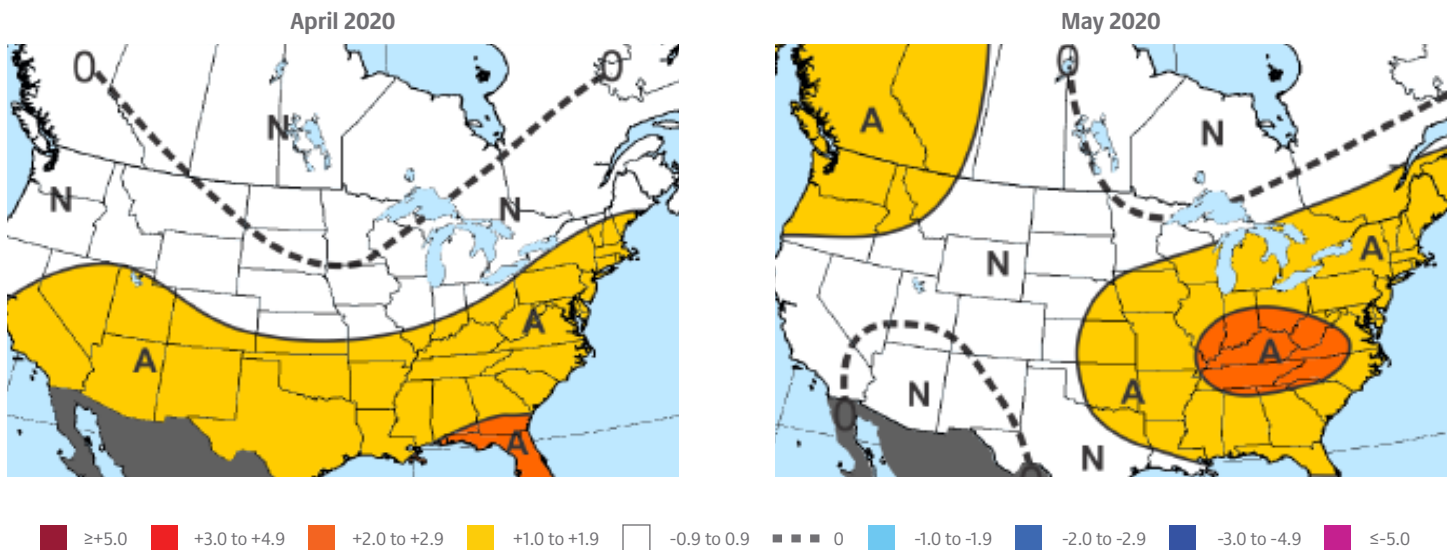
Month-over-month change in outages  
(March 2020 over April 2020)



## Maxar's 30-60 day outlook

The general pattern for March was unchanged over the last week with a broad coverage of above normal temperatures across the eastern 2/3 of the US while belows were confined to the West Coast and northern Rockies. The warmest anomalies were found in the South, as high as 8-10° above normal, while much of the East was 5-8° above normal. This past March placed 3rd in the warmest Marches since 1950, behind 2012 and 2016. Maxar's final March outlook hit upon the shape of pattern but was not nearly warm enough with the details.

Maxar's final 30 Day look at April remained unchanged with aboves across the southern tier and East. Headed into the start of the month, the pattern is expected to feature aboves in the West, then expected to become south-focused. They currently indicate that Alberta will see a -0.9°F to 0.9°F departure from average 1981-2010 normal temperatures.



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