April 7, 2025



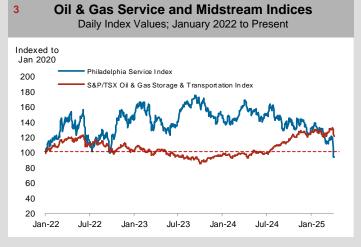
ARC Energy Charts

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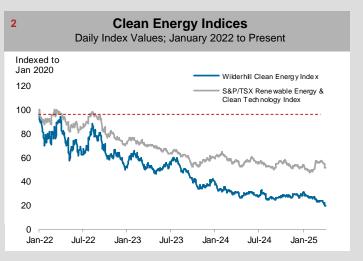
Spot WTI Crude	Spot Henry Hub	Spot AESO Electricity	EUA Emissions (ICE)	Bloomberg Commodity	Currency	
\$US/B	\$US/ MMBtu	\$C/MWh	EUR/Tonne	Index	\$US/\$ Cdn	
60.70 ↓	3.66 🗸	11.64 ↓	62.12 ↓	98.10 ↓	0.7019 个	



Broad market indices are one the many vital signs measuring the health of the economy. Energy demand is a function of economic health. *Source: Bloomberg, ARC Financial Corp.*

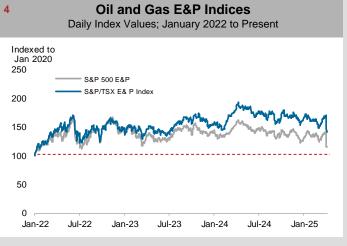


The performance of Canadian and US oilfield equities and Canadian midstream equities are compared against each other. *Source: Bloomberg*



The performance of global and Canadian clean energy indices are compared against each other.

Source: Bloomberg, ARC Financial Corp.



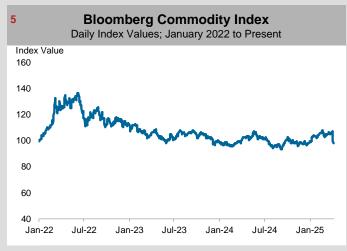
The performance of Canadian and US oil & gas equities are compared against each other.

Source: Bloomberg, ARC Financial Corp.

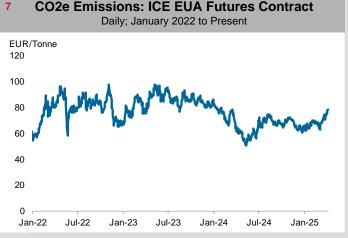
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Energy Transition

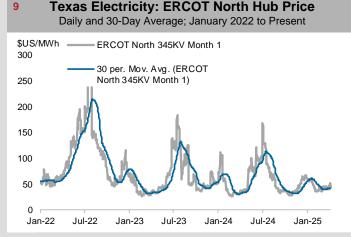




BCOM is a widely tracked benchmark for the commodities market. It is composed of 23 exchange-traded contracts on physical commodities. *Source: Bloomberg*



EU Allowances (EUA) are carbon credits equivalent to one tonne of CO2 used in the European Union Emissions Trading Scheme (EU ETS). Source: Bloomberg



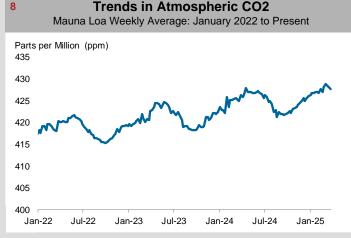
ERCOT is the grid operator for 90% of the electricity sold in Texas. The price shown is for the North Hub and is the wholesale price. *Source: Bloomberg*



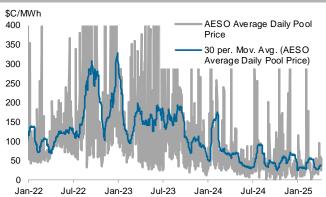
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This series is a measure of expected inflation (on average) over the five-year period that begins five years from today.

Source: Federal Reserve Bank of St. Louis, (FRED) Economic Data



The carbon dioxide data on Mauna Loa constitutes the longest record of direct measurements of CO2 in the atmosphere. Source: NOAA



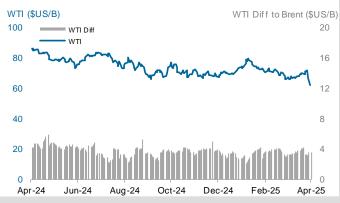
The Alberta Electric System Operator (AESO) manages and operates the provincial power grid. Source: Bloomberg

10 Alberta Electricity: AESO Average Pool Price Daily and 30-Day Average; January 2022 to Present

Crude Oil



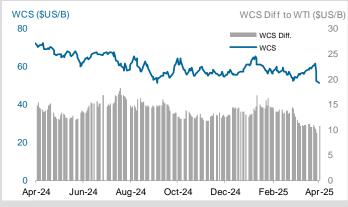
11 WTI Crude Oil Price and Differential to Brent Near-Month WTI and Brent Differential; Rolling 12-Month History



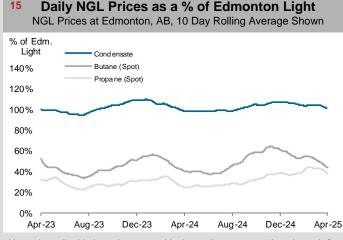
North American crude oil prices can sometimes disconnect from global prices depending on regional supply and demand dynamics. *Source: Bloomberg*

13 CDN Heavy Oil Price Differential to WTI

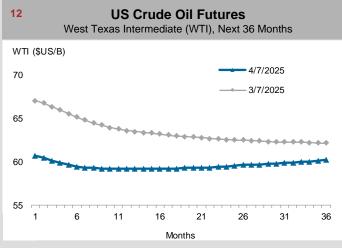
Western Canadian Select (WCS) Differential; Rolling 12-Month History



The differential should reflect quality differences and transportation costs. Greater discounts can result from infrastructure or refinery outages. Source: Bloomberg, FactSet



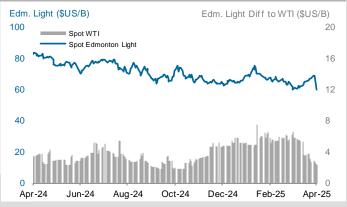
Natural gas liquids have become critical contributors to producer's cash flow. Prices are influenced by the price of oil as well as local supply and demand. *Source: Bloomberg, ARC Financial Corp.*



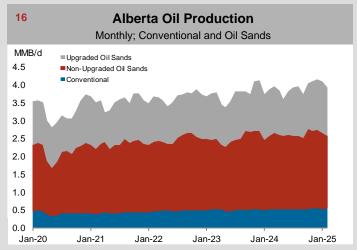
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Forward prices for WTI are plotted for the next 36 contracts, and compared against the same contracts one month prior. Source: Bloomberg

14 CDN Light Crude Oil Price Differential to WTI WTI and Edmonton Light differential; Rolling 12-Month History



The differential should reflect the transportation cost from Alberta to Cushing. Greater discounts can result from infrastructure or refinery outages. *Source: Bloomberg, FactSet*



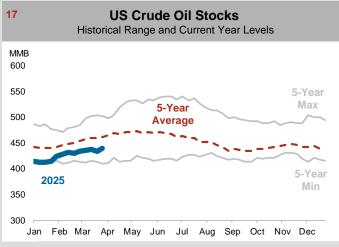
Most of Canada's oil production comes from Alberta; split between oil sands and conventional production.

Source: Alberta Energy Regulator

Crude Oil

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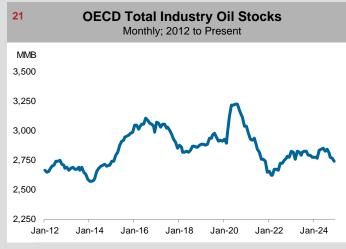


US crude oil stock levels can affect crude oil prices. Stock levels for the current year are represented by the blue line. Source: U.S. Energy Information Administration

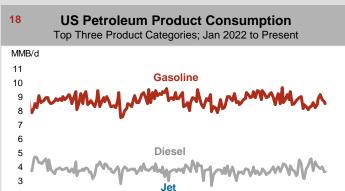
US Weekly Crude Oil Production

US Field Production of Crude Oil; 2019 to Present

Weekly production is modelled by the EIA. It is less accurate then monthly reported numbers, but is instructive of up to date changes. Source: U.S. Energy Information Administration



OECD stock levels can affect crude oil prices. Source: International Energy Agency



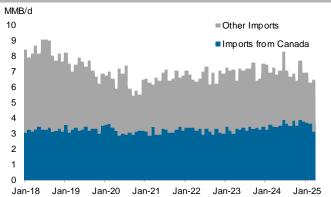
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2 1 0 Jan-22 Jul-22 Jan-23 Jul-23 Jan-24 Jul-24 Jan-25

Gasoline, diesel and jet fuel consumption represent the majority of oil use in the US.

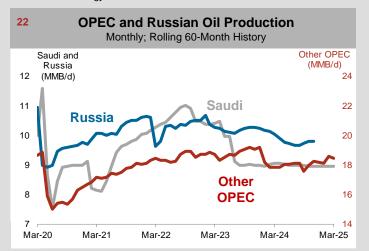
Source: U.S. Energy Information Administration





Crude oil imports from Canada are taking market share from overseas imports.

Source: U.S. Energy Information Administration



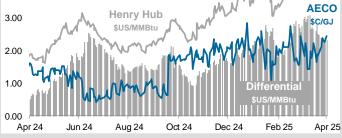
OPEC's production levels relative to its sustainable and spare capacity influences global crude prices. Note: scale has been expanded. *Source: Bloomberg, OPEC, US Department of Energy*

• ARC Energy Charts

Natural Gas







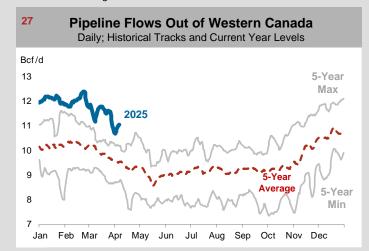
Near-month prices at AECO track Henry Hub prices, the exchange rate and the cost of transportation. Local factors can also affect price. *Source: Bloomberg*

25 Global Natural Gas Prices

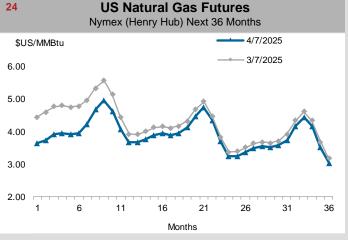
Japan/Korea, UK NBP, Henry Hub; 10-Day Moving Average Price



International natural gas prices strongly impact the economics of proposed LNG projects. Source: Bloomberg

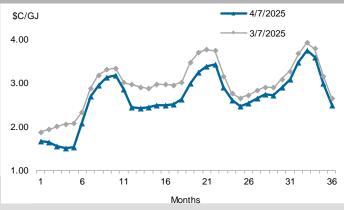


The ability of gas producers to move gas out of the WCSB to eastern markets and the US is a major factor in local natural gas prices. Source: Various Pipeline Companies



Forward contract prices are plotted for the next 36 months, and compared against the curve one month prior. Source: Bloomberg

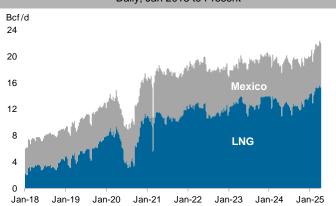
26 CDN Natural Gas Futures AECO Hub (Bloomberg Estimate) Next 36 Months



AECO forward prices mimic Henry Hub futures minus a differential.

Source: Bloomberg

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Between exports to Mexico and LNG shipments, the US is growing as a natural gas exporter. Robust US supply growth has driven this trend. *Source: Bloomberg*

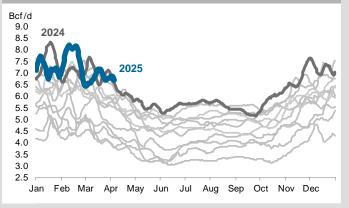
US Natural Gas Exports – Excluding Canada Daily; Jan 2018 to Present

Natural Gas

energyresearch institute

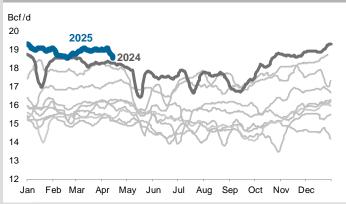
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Alberta Natural Gas Demand TransCanada Intra-AB Deliveries; Current Year and Historical Tracks



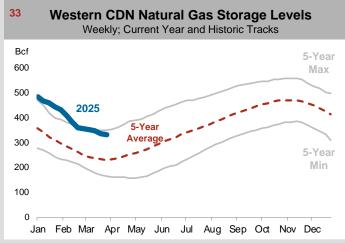
Alberta natural gas demand has grown steadily in recent years, largely driven by new oil sands demand and power generation projects. Source: TransCanada Pipelines

Daily Western CDN Production 31 **Estimated Using Major Pipeline Receipts**

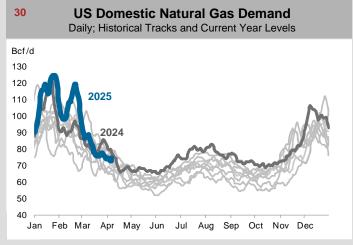


This includes receipts on the TCPL, Alliance, WestCoast and TransGas pipelines.

Source: Various Pipeline Companies

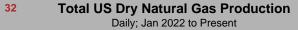


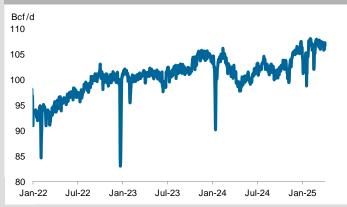
Canada's natural gas storage level provides a good metric if the country is well stocked. Abnormally high or low storage can affect the basis. Source: Bloomberg



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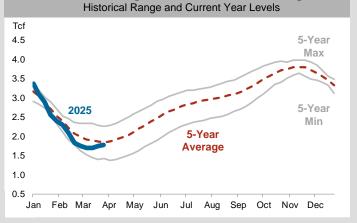
Domestic US demand fluctuates in the summer and during the winter as weather is an important driver of consumption. Source: Bloomberg





US production started ramping up in late 2007 and continues to grow year over year.

Source: Bloomberg **Total Working Natural Gas in US Storage**



The EIA reports changes in US natural gas inventories held in underground storage facilities on a weekly basis.

Source: U.S. Energy Information Administration

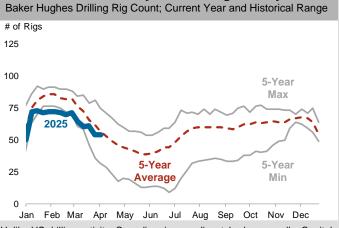
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Oilfield Activity

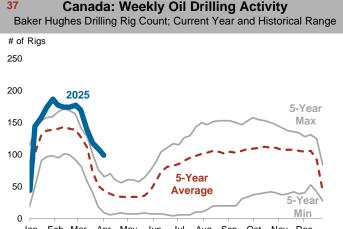


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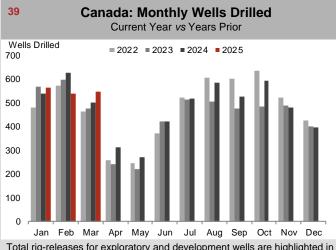
35 Canada: Weekly Gas Drilling Activity



Unlike US drilling activity, Canadian rigs are dispatched seasonally. Capital allocation by operators is driven by views of future oil and gas prices. Source: Baker Hughes



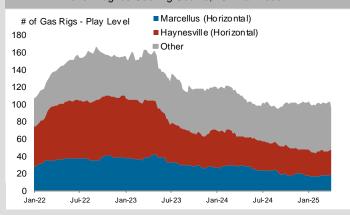
Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec Unlike US drilling activity, Canadian rigs are dispatched seasonally. Capital allocation by operators is driven by views of future oil and gas prices. Source: Baker Hughes



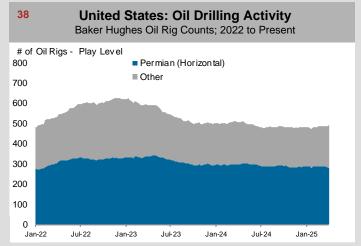
Total rig-releases for exploratory and development wells are highlighted in this chart. Rig releases for the current year are shown in red. Source: Daily Oil Bulletin/JWN

United States: Weekly Gas Drilling Activity 36 Baker Hughes Gas Rig Counts; 2022 to Present

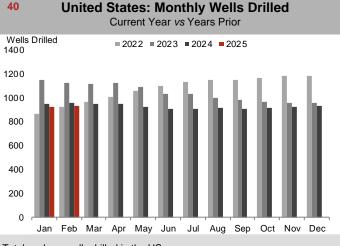
ARC Energy Charts



Tracking US gas drilling by major play provides insight into the composition of US gas supply and growth trends. Source: Baker Hughes



Tracking US oil drilling by major play provides insight into the composition of US oil supply and growth trends Source: Baker Hughes



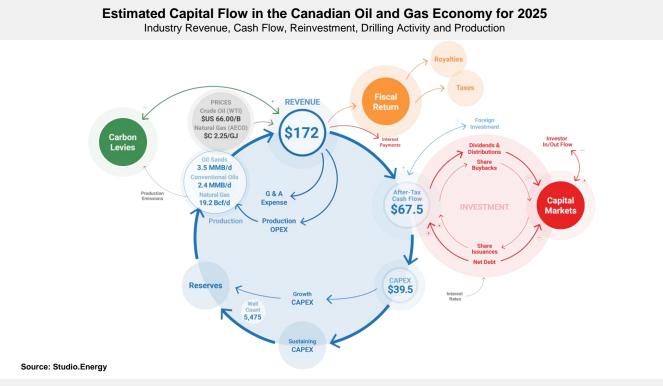
Total onshore wells drilled in the US

Source: U.S. Energy Information Administration



ARC Energy Charts -

Canadian Industry Metrics



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Canadian Industry Statistics: Historical Data and Forecast

	Price		Production Volume			Capital Inflow		Reinvestment			Drilling	
	Edmonton Par	AECO	Conv. Liquids	Bitumen + Synthetic	Natural Gas	Total Volume	Total Revenue	After-tax Cash Flow	Conv. Oil and Gas	Oilsands	Reinvest Ratio	Wells Drilled Rig-Release
	\$C/B	\$C/GJ	Average MBOE/d	Average MBOE/d	MBOE/d (@6:1)	MBOE/d (@6:1)	\$C millions	\$C millions	\$C millions	\$C millions	x:1	#/ Year
0 15	53.94	2.80	1,952	2,381	2,529	6,862	85,585	21,433	31,609	22,929	2.54	5,382
0 16	50.08	2.10	1,970	2,421	2,559	6,949	79,906	22,682	23,036	15,426	1.70	4,060
0 17	59.08	2.40	2,068	2,674	2,588	7,331	103,638	43,895	28,724	13,803	0.97	7,076
0 18	69.57	1.55	2,248	2,913	2,693	7,854	116,850	51,975	27,438	11,661	0.75	6,927
0 19	67.05	1.60	2,320	2,948	2,618	7,886	118,388	49,632	25,809	9,306	0.71	4,886
020	44.54	2.25	2,201	2,842	2,578	7,621	83,382	32,987	14,155	7,254	0.65	2,970
021	79.07	3.55	2,207	3,101	2,686	7,995	154,269	69,852	16,959	8,957	0.37	4,63
022	116.93	5.55	2,290	3,162	2,885	8,337	231,292	108,724	25,520	11,867	0.34	5,723
023	96.20	2.95	2,299	3,228	2,988	8,516	182,295	75,525	26,989	12,459	0.52	5,38
024e	94.70	1.45	2,455	3,365	3,044	8,864	185,306	69,560	27,273	13,286	0.58	5,75
025e	85.59	2.23	2,410	3,450	3,203	9,064	171,953	67,545	26,236	13,209	0.58	5,47

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