

ARC Energy Charts

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Spot WTI Crude
\$US/B

62.64 ↓

Spot Henry Hub
\$US/ MMBtu

2.90 ↓

Spot AESO Electricity
\$/MWh

0.74 ↓

EUA Emissions (ICE)
EUR/Tonne

75.82 ↓

Bloomberg Commodity
Index

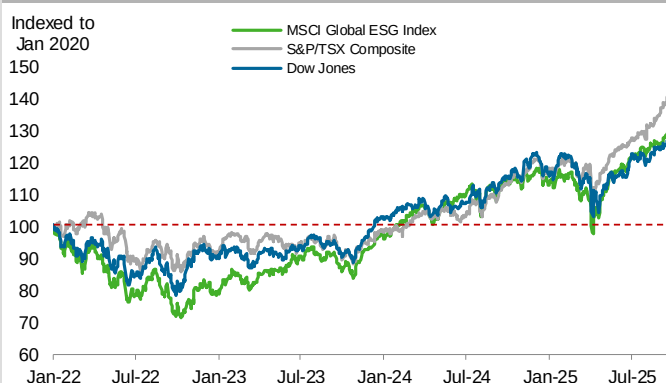
102.98 ↓

Currency
\$US/\$Cdn

0.7237 ↓

1 Broad Equity Markets

Daily Index Values; January 2022 to Present

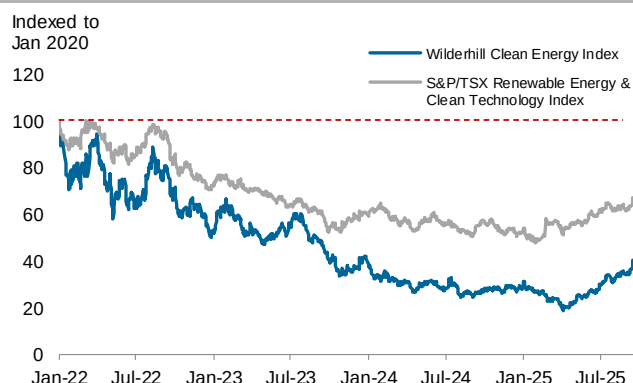


Broad market indices are one the many vital signs measuring the health of the economy. Energy demand is a function of economic health.

Source: Bloomberg, ARC Financial Corp.

2 Clean Energy Indices

Daily Index Values; January 2022 to Present

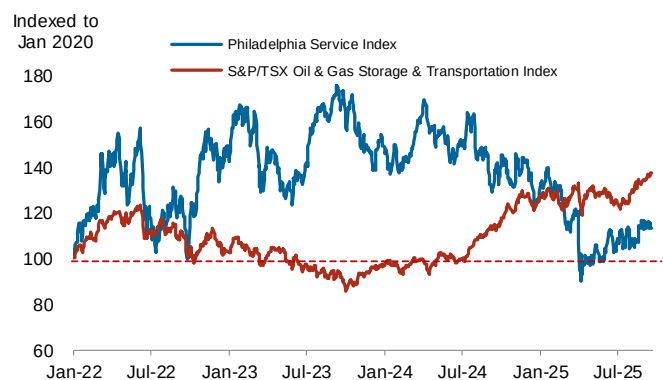


The performance of global and Canadian clean energy indices are compared against each other.

Source: Bloomberg, ARC Financial Corp.

3 Oil & Gas Service and Midstream Indices

Daily Index Values; January 2022 to Present

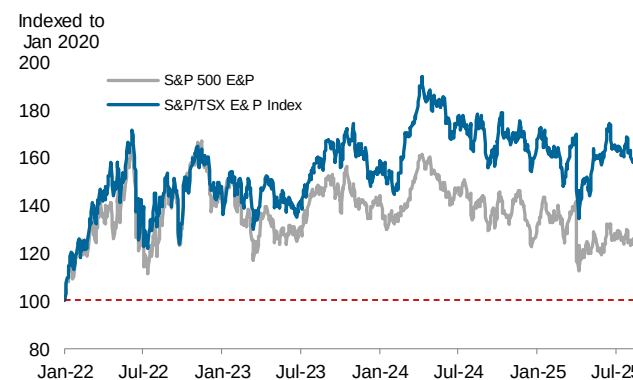


The performance of Canadian and US oilfield equities and Canadian midstream equities are compared against each other.

Source: Bloomberg

4 Oil and Gas E&P Indices

Daily Index Values; January 2022 to Present

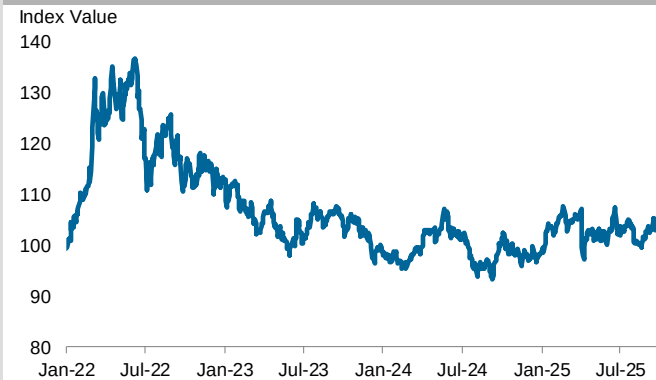


The performance of Canadian and US oil & gas equities are compared against each other.

Source: Bloomberg, ARC Financial Corp.

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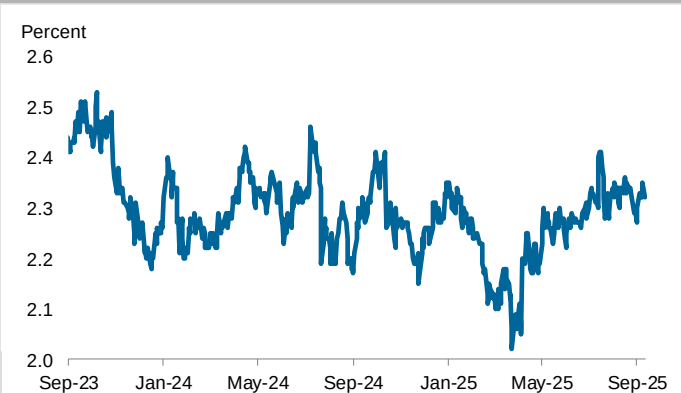
5 Bloomberg Commodity Index
Daily Index Values; January 2022 to Present



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

Source: Bloomberg

6 5-Yr, 5-Yr Forward Inflation Expectation Rate
Daily; Rolling 24 Month History



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

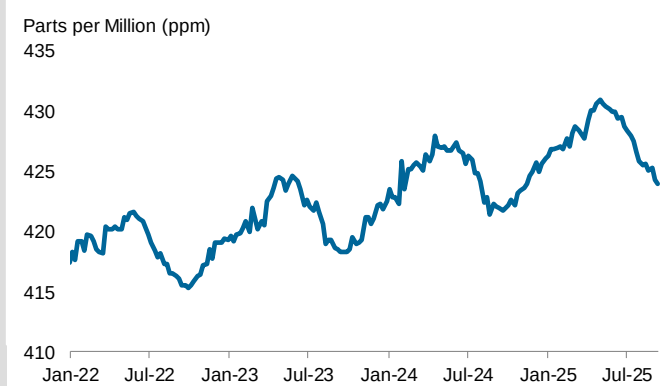
7 CO2e Emissions: ICE EUA Futures Contract
Daily; January 2022 to Present



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

Source: Bloomberg

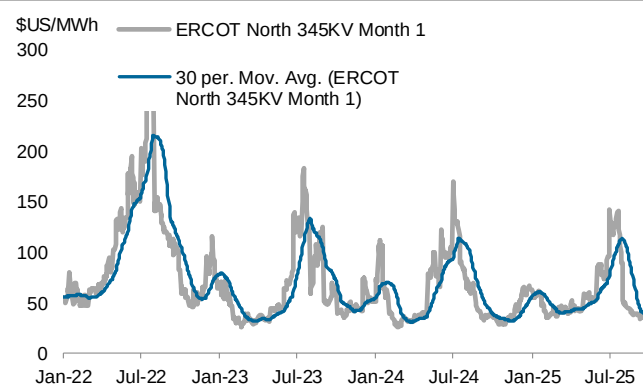
8 Trends in Atmospheric CO₂
Mauna Loa Weekly Average; January 2022 to Present



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

Source: NOAA

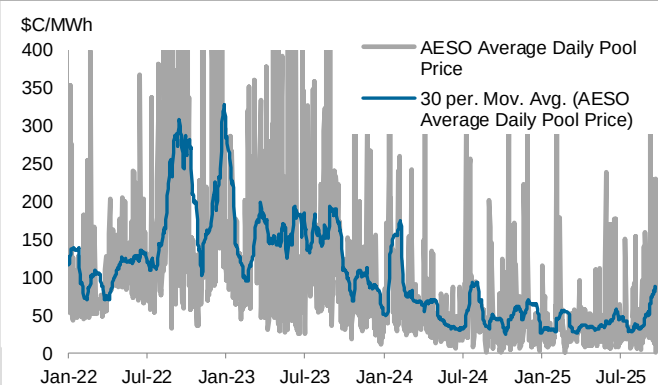
9 Texas Electricity: ERCOT North Hub Price
Daily and 30-Day Average; January 2022 to Present



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

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

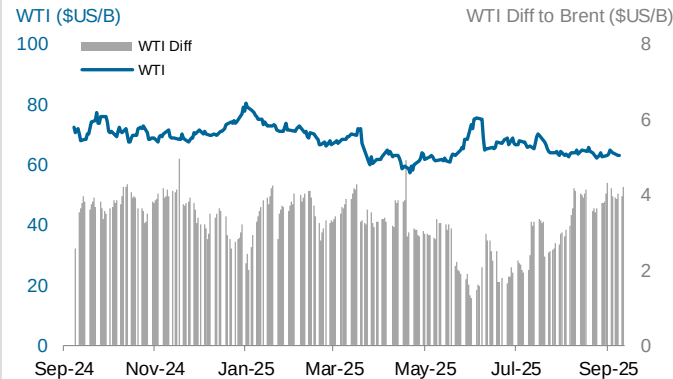


The Alberta Electric System Operator (AESO) manages and operates the provincial power grid.

Source: Bloomberg

11 WTI Crude Oil Price and Differential to Brent

Near-Month WTI and Brent Differential; Rolling 12-Month History

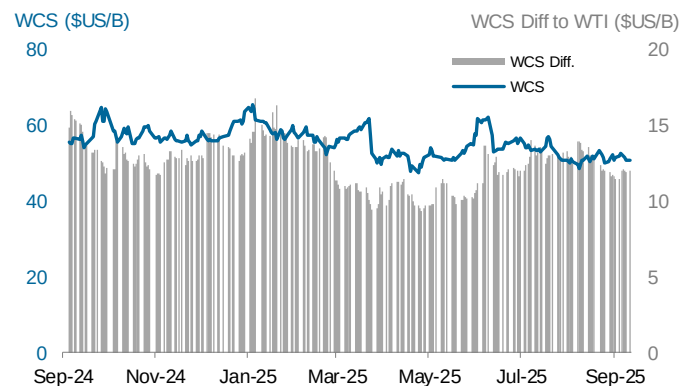


North American crude oil prices can sometimes disconnect from global prices depending on regional supply and demand dynamics.

Source: Bloomberg

13 CDN Heavy Oil Price Differential to WTI

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

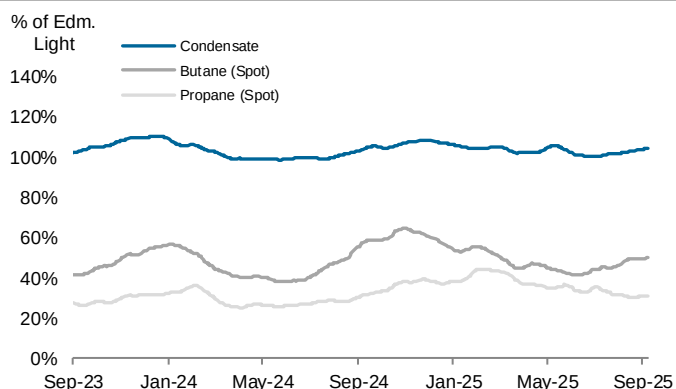


The differential should reflect quality differences and transportation costs. Greater discounts can result from infrastructure or refinery outages.

Source: Bloomberg, FactSet

15 Daily NGL Prices as a % of Edmonton Light

NGL Prices at Edmonton, AB, 10 Day Rolling Average Shown

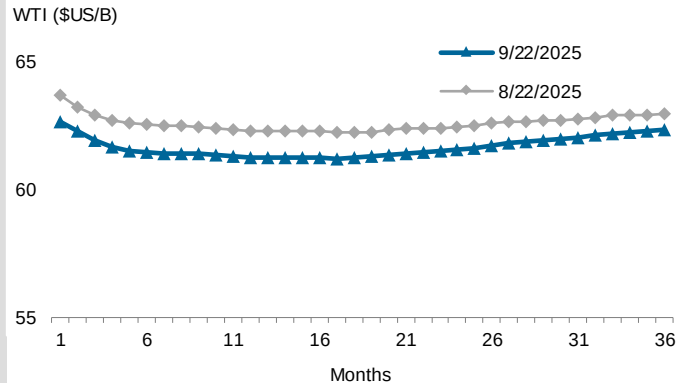


Natural gas liquids have become critical contributors to producer's cash flow. Prices are influenced by the price of oil as well as local supply and demand.

Source: Bloomberg, ARC Financial Corp.

12 US Crude Oil Futures

West Texas Intermediate (WTI), Next 36 Months

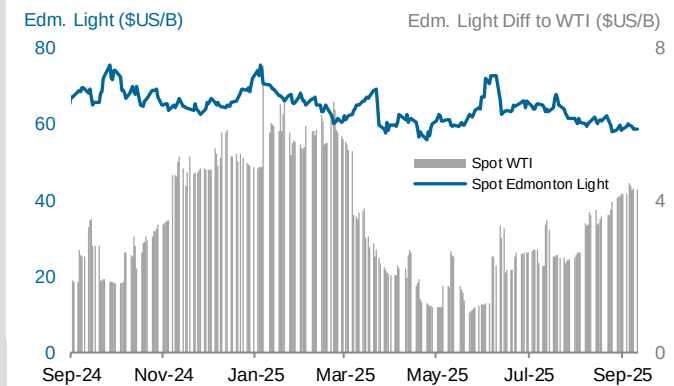


Forward prices for WTI are plotted for the next 36 contracts, and compared against the same contracts one month prior.

Source: Bloomberg

14 CDN Light Crude Oil Price Differential to WTI

WTI and Edmonton Light differential; Rolling 12-Month History

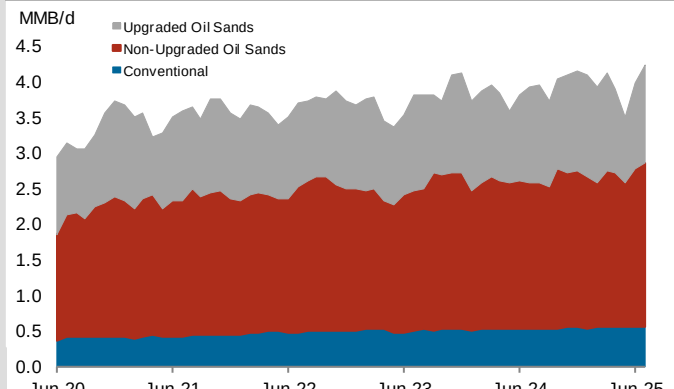


The differential should reflect the transportation cost from Alberta to Cushing. Greater discounts can result from infrastructure or refinery outages.

Source: Bloomberg, FactSet

16 Alberta Oil Production

Monthly; Conventional and Oil Sands

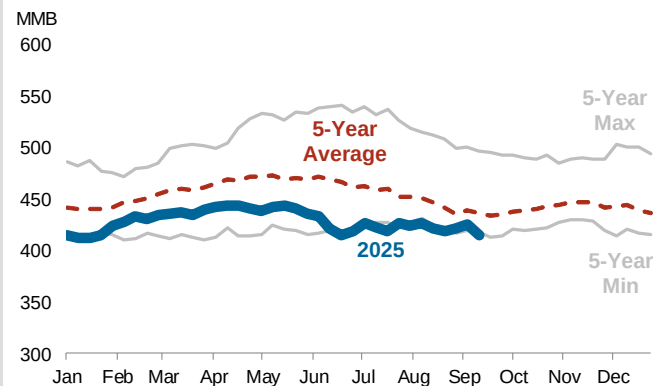


Most of Canada's oil production comes from Alberta; split between oil sands and conventional production.

Source: Alberta Energy Regulator

17 US Crude Oil Stocks

Historical Range and Current Year Levels

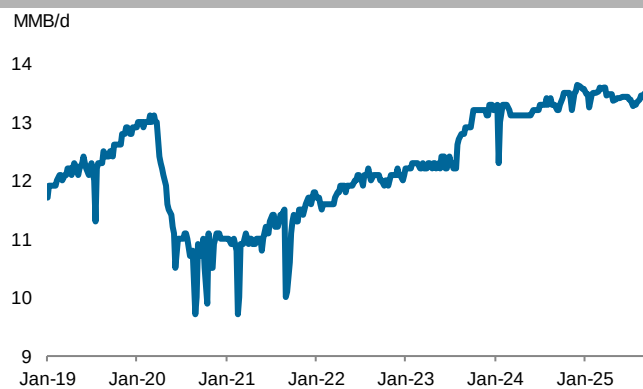


US crude oil stock levels can affect crude oil prices. Stock levels for the current year are represented by the blue line.

Source: U.S. Energy Information Administration

19 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 than monthly reported numbers, but is instructive of up to date changes.

Source: U.S. Energy Information Administration

21 OECD Total Industry Oil Stocks

Monthly; 2012 to Present

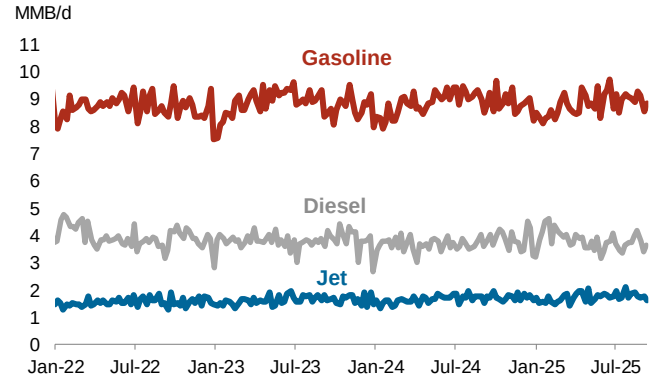


OECD stock levels can affect crude oil prices.

Source: International Energy Agency

18 US Petroleum Product Consumption

Top Three Product Categories; Jan 2022 to Present

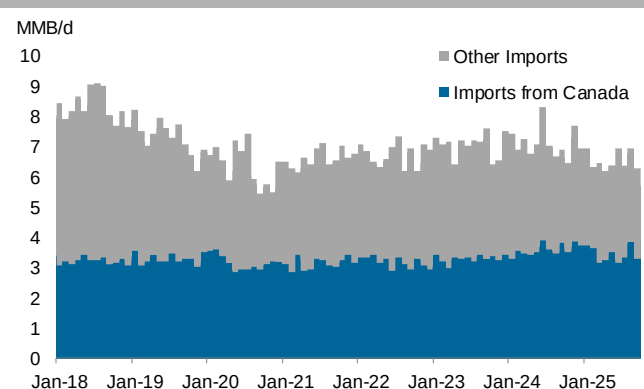


Gasoline, diesel and jet fuel consumption represent the majority of oil use in the US.

Source: U.S. Energy Information Administration

20 US Crude Oil Imports

Weekly Data; 2018 to Present

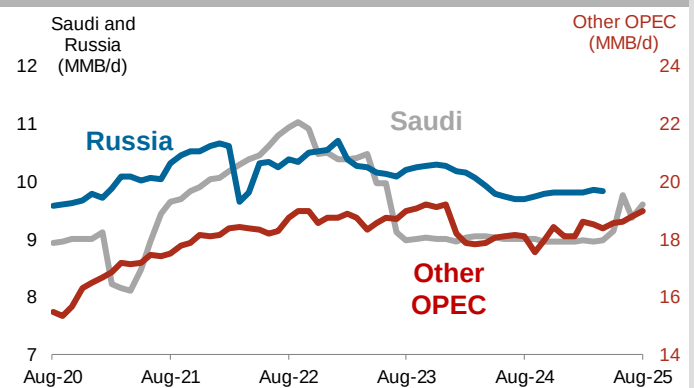


Crude oil imports from Canada are taking market share from overseas imports.

Source: U.S. Energy Information Administration

22 OPEC and Russian Oil Production

Monthly; Rolling 60-Month History

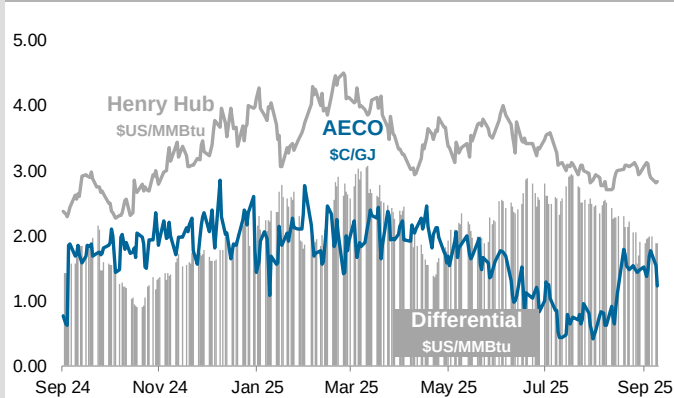


OPEC's production levels relative to its sustainable and spare capacity influences global crude prices. Note: scale has been expanded.

Source: Bloomberg, OPEC, US Department of Energy

23 Near-Month North American Natural Gas Prices

Daily Prices; Rolling 12-Month History

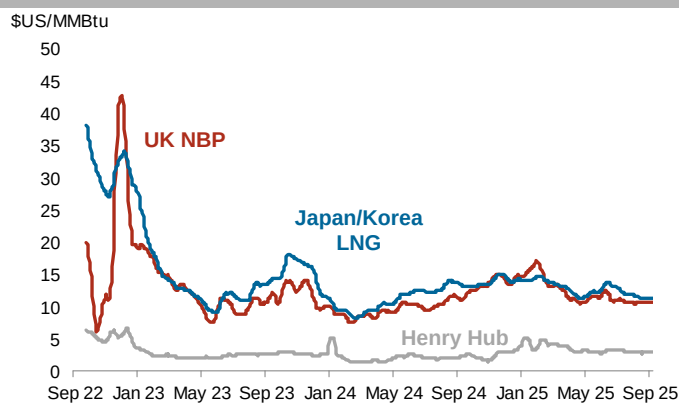


Near-month prices at AECO track Henry Hub prices, the exchange rate and the cost of transportation. Local factors can also affect price.

Source: Bloomberg

25 Global Natural Gas Prices

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

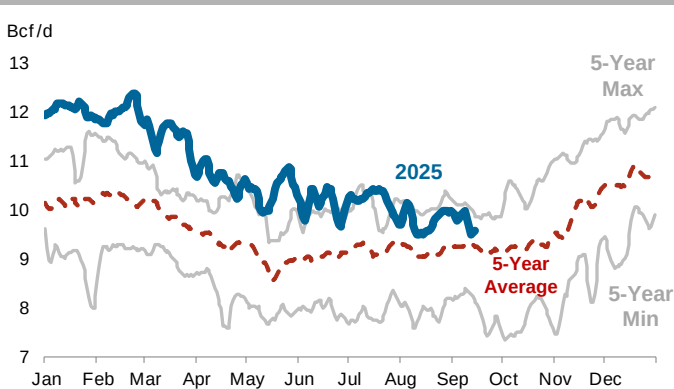


International natural gas prices strongly impact the economics of proposed LNG projects.

Source: Bloomberg

27 Pipeline Flows Out of Western Canada

Daily; Historical Tracks and Current Year Levels

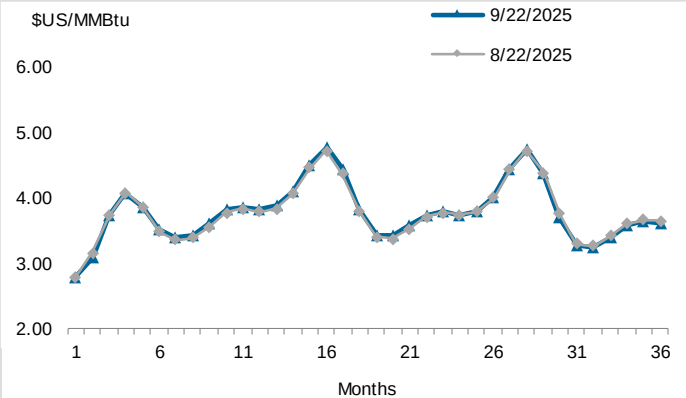


The ability of gas producers to move gas out of the WCSB to eastern markets and the US is a major factor in local natural gas prices.

Source: Various Pipeline Companies

24 US Natural Gas Futures

Nymex (Henry Hub) Next 36 Months

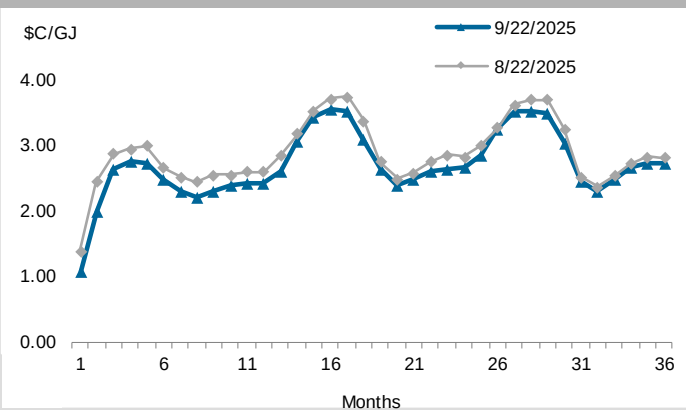


Forward contract prices are plotted for the next 36 months, and compared against the curve one month prior.

Source: Bloomberg

26 CDN Natural Gas Futures

AECO Hub (Bloomberg Estimate) Next 36 Months

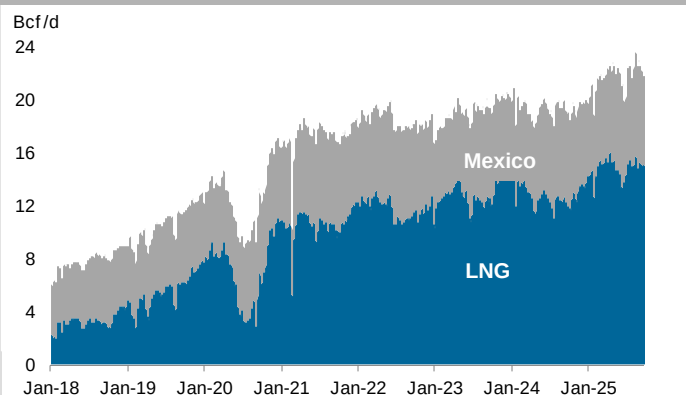


AECO forward prices mimic Henry Hub futures minus a differential.

Source: Bloomberg

28 US Natural Gas Exports – Excluding Canada

Daily; Jan 2018 to Present

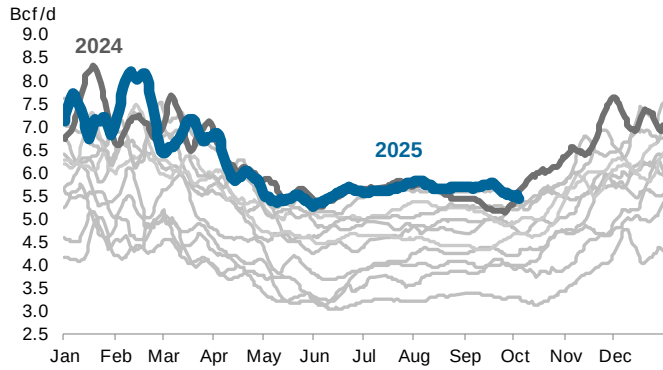


Between exports to Mexico and LNG shipments, the US is growing as a natural gas exporter. Robust US supply growth has driven this trend.

Source: Bloomberg

29 Alberta Natural Gas Demand

TransCanada Intra-AB Deliveries; Current Year and Historical Tracks

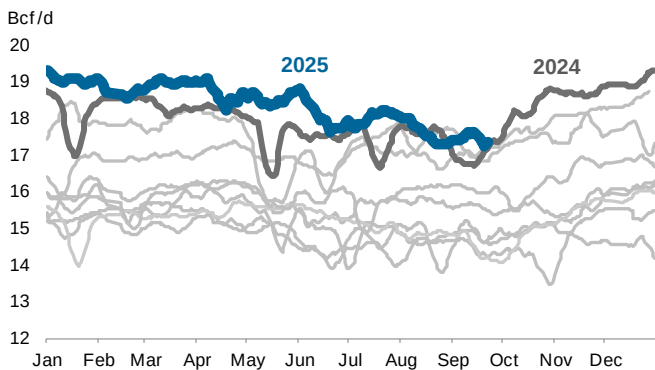


Alberta natural gas demand has grown steadily in recent years, largely driven by new oil sands demand and power generation projects.

Source: TransCanada Pipelines

31 Daily Western CDN Production

Estimated Using Major Pipeline Receipts

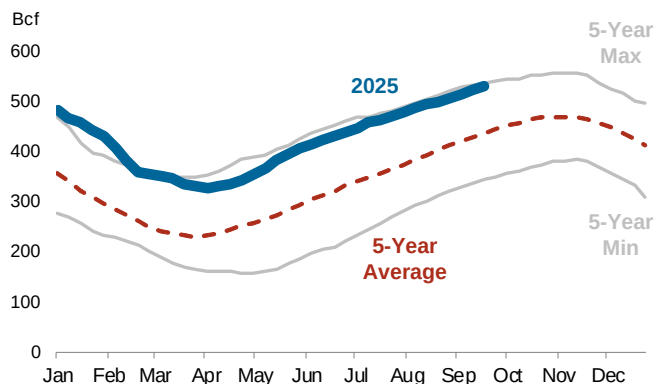


This includes receipts on the TCPL, Alliance, WestCoast and TransGas pipelines.

Source: Various Pipeline Companies

33 Western CDN Natural Gas Storage Levels

Weekly; Current Year and Historic Tracks

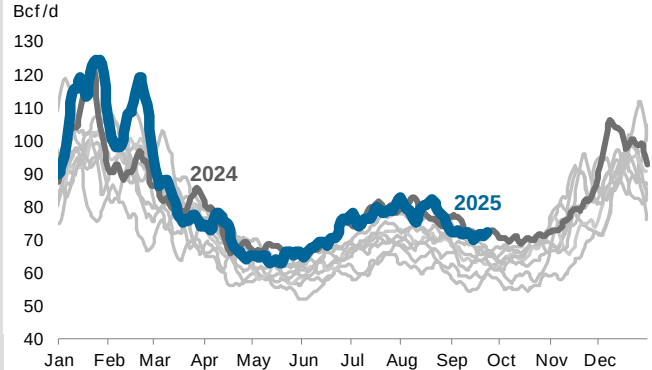


Canada's natural gas storage level provides a good metric if the country is well stocked. Abnormally high or low storage can affect the basis.

Source: Bloomberg

30 US Domestic Natural Gas Demand

Daily; Historical Tracks and Current Year Levels

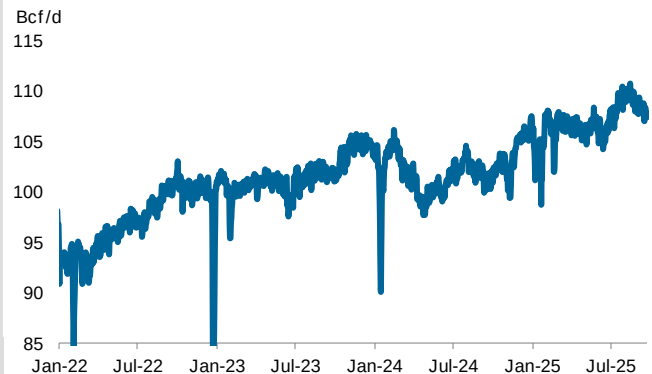


Domestic US demand fluctuates in the summer and during the winter as weather is an important driver of consumption.

Source: Bloomberg

32 Total US Dry Natural Gas Production

Daily; Jan 2022 to Present

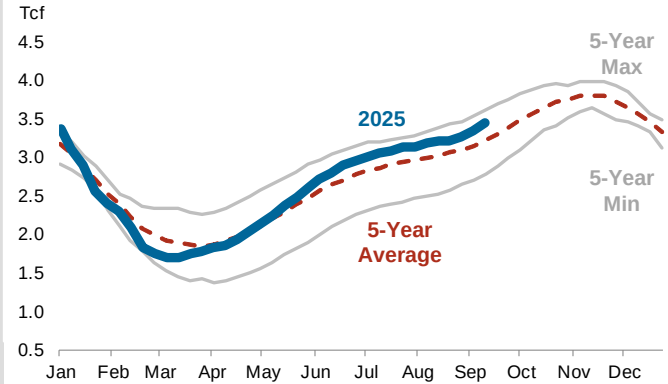


US production started ramping up in late 2007 and continues to grow year over year.

Source: Bloomberg

34 Total Working Natural Gas in US Storage

Historical Range and Current Year Levels

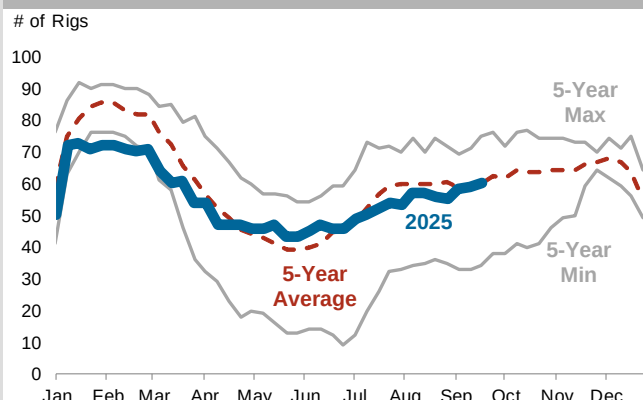


The EIA reports changes in US natural gas inventories held in underground storage facilities on a weekly basis.

Source: U.S. Energy Information Administration

35 Canada: Weekly Gas Drilling Activity

Baker Hughes Drilling Rig Count; Current Year and Historical Range

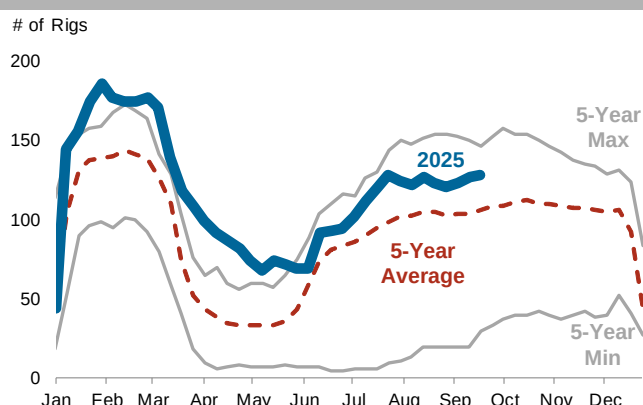


Unlike US drilling activity, Canadian rigs are dispatched seasonally. Capital allocation by operators is driven by views of future oil and gas prices.

Source: Baker Hughes

37 Canada: Weekly Oil Drilling Activity

Baker Hughes Drilling Rig Count; Current Year and Historical Range

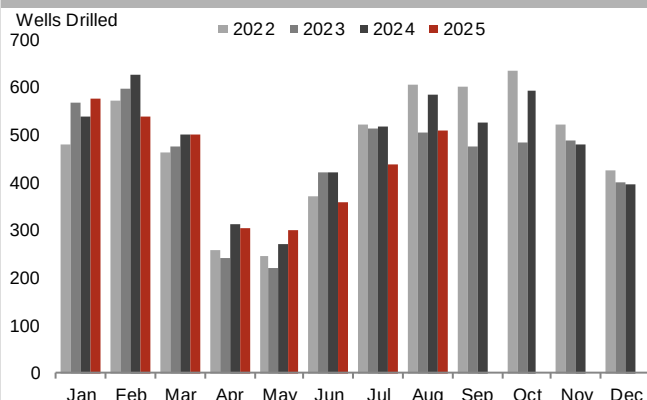


Unlike US drilling activity, Canadian rigs are dispatched seasonally. Capital allocation by operators is driven by views of future oil and gas prices.

Source: Baker Hughes

39 Canada: Monthly Wells Drilled

Current Year vs Years Prior

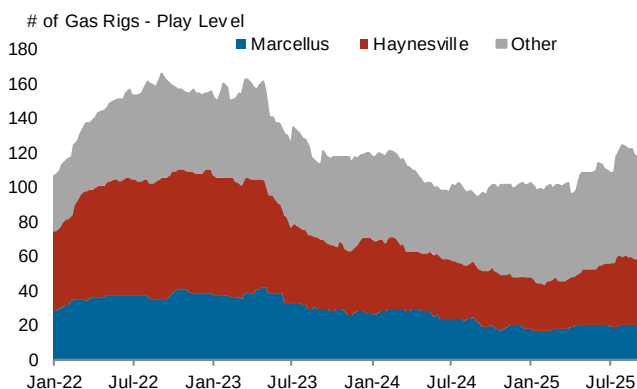


Total rig-releases for exploratory and development wells are highlighted in this chart. Rig releases for the current year are shown in red.

Source: Daily Oil Bulletin/JWN

36 United States: Weekly Gas Drilling Activity

Baker Hughes Gas Rig Counts; 2022 to Present

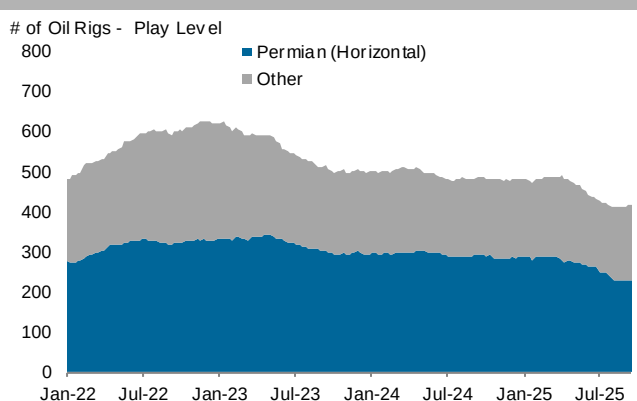


Tracking US gas drilling by major play provides insight into the composition of US gas supply and growth trends.

Source: Baker Hughes

38 United States: Oil Drilling Activity

Baker Hughes Oil Rig Counts; 2022 to Present

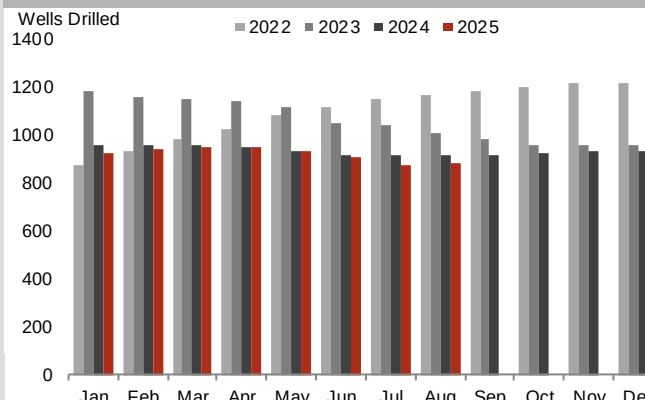


Tracking US oil drilling by major play provides insight into the composition of US oil supply and growth trends.

Source: Baker Hughes

40 United States: Monthly Wells Drilled

Current Year vs Years Prior

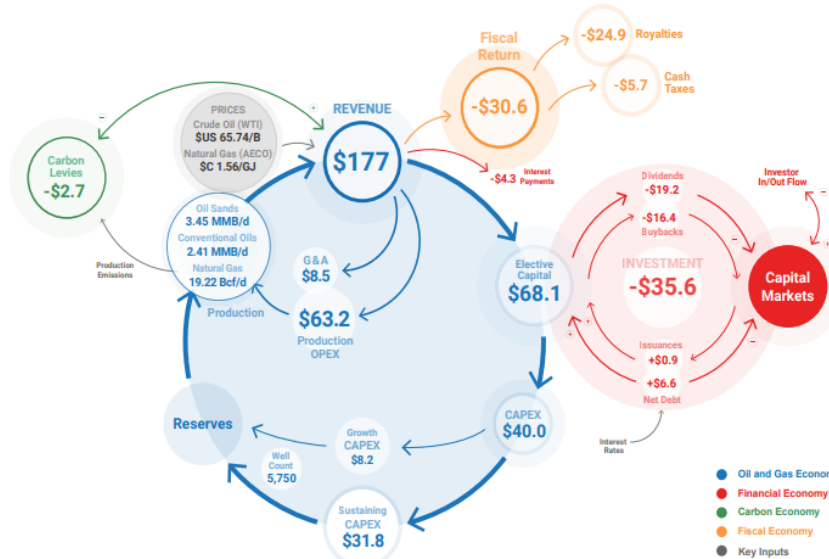


Total onshore wells drilled in the US

Source: U.S. Energy Information Administration

Estimated Capital Flow in the Canadian Oil and Gas Economy for 2025

Industry Revenue, Cash Flow, Reinvestment, Drilling Activity and Production



Source: Studio.Energy

*Negative numbers signify net negative outflows of dollars from the core oil and gas economy (blue circular system)

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Canadian Industry Statistics: Historical Data and Forecast

	Price		Production Volume				Capital Inflow		Reinvestment			Drilling
	WTI	AECO	Conv. Liquids	Bitumen + Synthetic	Natural Gas	Total Volume	Total Revenue	After-tax Cash Flow	Conv. Oil and Gas	Oilsands	Reinvest Ratio	Wells Drilled Rtg-Release
	\$US/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
2015	48.66	2.80	1,952	2,381	2,529	6,862	85,585	21,433	31,609	22,929	2.54	5,382
2016	43.29	2.10	1,970	2,421	2,559	6,949	79,906	22,682	23,036	15,426	1.70	4,060
2017	50.80	2.40	2,068	2,674	2,588	7,331	103,638	43,895	28,724	13,803	0.97	7,076
2018	65.23	1.55	2,248	2,913	2,693	7,854	116,850	51,975	27,438	11,661	0.75	6,927
2019	56.99	1.60	2,320	2,948	2,618	7,886	118,388	49,632	25,809	9,306	0.71	4,886
2020	39.16	2.25	2,201	2,842	2,578	7,621	83,382	32,987	14,155	7,254	0.65	2,970
2021	68.13	3.55	2,207	3,101	2,686	7,995	154,269	69,852	16,959	8,957	0.37	4,638
2022	94.90	5.55	2,290	3,162	2,885	8,337	231,292	108,724	25,520	11,867	0.34	5,723
2023	77.65	2.95	2,299	3,228	2,988	8,516	182,295	75,525	26,989	12,459	0.52	5,389
2024	76.55	1.45	2,455	3,365	3,044	8,864	185,306	69,560	27,273	13,286	0.58	5,758
2025f	65.74	1.56	2,411	3,450	3,203	9,064	177,444	68,123	26,897	13,103	0.59	5,750

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