Deloitte



Energy, oil, and gas price forecast

Deloitte Canada foreshadows extremely low natural gas prices are not here to stay

September 30, 2024

| Forecast commentary | 3 |
|----------------------------------|----|
| Canadian domestic price forecast | 6 |
| International price forecast | 8 |
| Global trends | 9 |
| Canadian domestic price tables | 11 |
| International price tables | 14 |
| Pricing philosophy | 16 |
| Glossary | 17 |

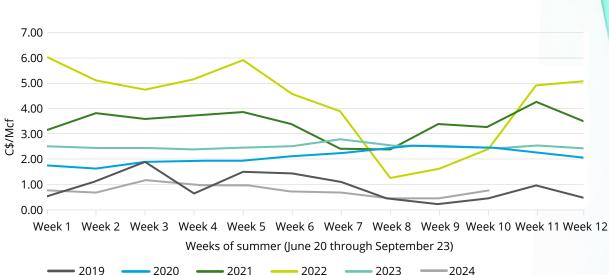
Forecast commentary

After peaking in June, Henry Hub prices have fallen to just under \$2.00/Mcf USD in the latter half of the summer.

Local pricing at Waha in the Permian Basin once again moved into negative territory, as mentioned in a prior forecast commentary. These current prices do not incentivize continued development and in some cases does not allow for economic production of existing gas wells. Operators have been reducing their drilling activity in response to pricing in the US, with a decrease in natural gas rig counts of 24 in August year-over-year, which is a 20 percent drop¹. If these prices persist many companies will likely revisit their budgets and delay their development plans.

Meanwhile in Canada, AECO and Station 2 prices have largely remained below \$1.00/Mcf CAD since mid-June. But the rig count has only dropped by five rigs in August year-over-year, a six percent decrease¹. This highlights the difference in operating strategies across the border where many companies in Canada have continually adapted to operating in a lower-price environment by focusing operations on liquids rich production, owning infrastructure, and managing operating costs overall.

AECO prices have not been this consistently depressed over summer since 2019, when ongoing maintenance outages sometimes pushed daily prices negative. Five years later, maintenance outages have not been as significant due to policy changes regarding injection into storage during maintenance outages, but many of the larger trends remain the same. Similar to 2019, several LNG export facilities are expected to come online in the US within the next year, leading to optimistic views of future pricing. More economic oil prices have also led to growth in associated natural gas production from oil well development, particularly in the Permian, as well as continued development in liquids rich plays like the Montney, both of which



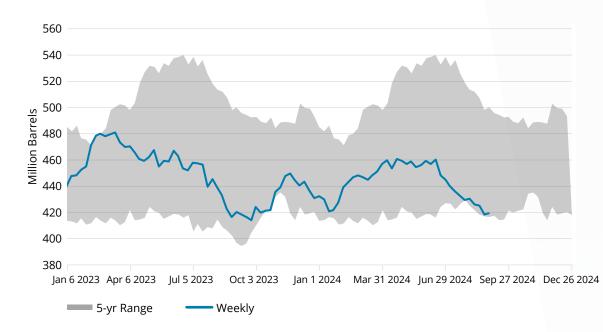
Summer AECO prices (2019-2024)

dampen the effectiveness of reduced natural gas drilling in decreasing production growth. Our price forecast reflects the optimism that these extremely low prices are not here to stay with increasing near term demand for natural gas from heating, power, and LNG exports. In the short term, if supply is not curbed to bring it in line with current demand, we expect that the volatility to continue.

As for oil, near-term prices have declined in the past quarter due to weakened demand in China². As of September 2024, the average of WTI and Brent prices dropped to their lowest point in 2024 at around US\$70/bbl. In response to weakening prices, OPEC+ has extended voluntary production cuts of 2.2 million bbls/d until December, instead of October 2024, thus delaying an increase in oil output³. Despite the announcement, oil prices have not shown signs of increasing, unlike previous OPEC+ decisions that have had a significant impact on immediate price reactions. Moreover, there are additional concerns regarding economic activity in the market. The strong global demand for crude has led to a reduction in inventories in the US, where crude stocks are currently at their lowest levels since seen this year⁴. Domestic production remains high at over 13 million bbls/d and is forecasted to increase up to 14 million bbls/d in 2025, according to the EIA⁵.

It is these contending market forces, in conjunction with the choices made by OPEC+, that are determining whether the oil market is to be driven into oversupply, creating uncertainty about future pricing.

U.S. Crude Oil Stocks, Excluding Strategic Petroleum Reserve



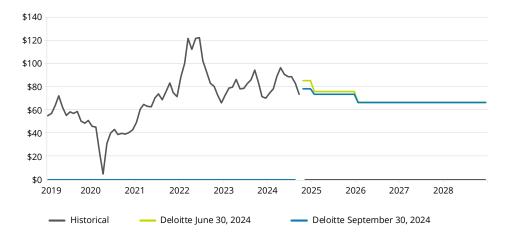
Source: U.S. Energy Information Administration

Endnotes

- 1. Baker Hughes, "<u>North America Rig Count Report</u>," September 20, 2024.
- ^{2.} IEA Oil Market Report, "<u>Oil Market Report September 2024</u>," September 2024.
- ³ Organization of the Petroleum Exporting Countries, "<u>Saudi Arabia, Russia, Iraq, the United Arab Emirates, Kuwait,</u> <u>Kazakhstan, Algeria, and Oman extend voluntary cuts</u>," September 5, 2024.
- 4 U.S. Energy Information Administration, "<u>Weekly Petroleum Status Report</u>," September 25, 2024.
- ^{5.} U.S. Energy Information Administration, "<u>Short-Term Energy Outlook</u>," September 10, 2024.

Canadian domestic price forecast

Crude oil price and market demand forecast Hardisty WCS (real \$)

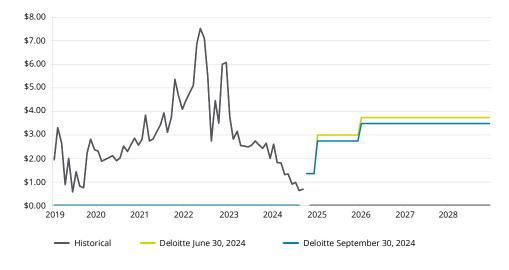


Forecast comments

WCS is forecast as a differential to WTI. This differential is based on Western Canadian Select Crude Oil Futures.

| Year | WTI Cushing, OK (40 API) | WTI Cushing, OK (40 API) | Edmonton City Gate (40 API) | Edmonton City Gate (40 API) | WCS Hardisty (20.5 API) | Heavy Oil Hardisty (12 API) | Cost inflation | CAD to USD exchange |
|------------|-----------------------------|-----------------------------|--------------------------------|--------------------------------|----------------------------|-----------------------------------|-------------------|------------------------|
| | US\$/bbl Real | US\$/bbl Current | C\$/bbl Real | C\$/bbl Current | C\$/bbl Current | C\$/bbl Current | Rate | Rate |
| Historical | | | | | | | | |
| 2021 | \$78.57 | \$67.99 | \$92.87 | \$80.36 | \$68.21 | \$63.82 | 3.4% | 0.798 |
| 2022 | \$105.82 | \$94.79 | \$133.38 | \$119.47 | \$96.96 | \$92.06 | 6.8% | 0.769 |
| 2023 | \$80.78 | \$77.64 | \$103.29 | \$99.27 | \$80.17 | \$72.95 | 3.9% | 0.741 |
| 2024 | | | | | | | | |
| 9 mths H | \$78.43 | \$78.43 | \$98.73 | \$98.73 | \$84.63 | \$80.54 | 2.6% | 0.735 |
| 3 mths F | \$72.00 | \$72.00 | \$94.50 | \$94.50 | \$78.10 | \$73.60 | 0.0% | 0.730 |
| Avg. | \$76.82 | \$76.82 | \$97.67 | \$97.67 | \$83.00 | \$78.81 | - | 0.734 |
| Forecast | | | | | | | | |
| 2024 | \$72.00 | \$72.00 | \$94.50 | \$94.50 | \$78.10 | \$73.60 | 0.0% | 0.730 |
| 2025 | \$70.00 | \$71.40 | \$89.35 | \$91.15 | \$74.80 | \$70.25 | 2.0% | 0.750 |
| 2026 | \$68.00 | \$70.75 | \$81.25 | \$84.55 | \$68.95 | \$64.25 | 2.0% | 0.800 |
| 2027 | \$68.00 | \$72.15 | \$81.25 | \$86.20 | \$70.30 | \$65.55 | 2.0% | 0.800 |
| 2028 | \$68.00 | \$73.60 | \$81.25 | \$87.95 | \$71.70 | \$66.85 | 2.0% | 0.800 |
| 2029 | \$68.00 | \$75.10 | \$81.25 | \$89.70 | \$73.15 | \$68.20 | 2.0% | 0.800 |
| 2030 | \$68.00 | \$76.60 | \$81.25 | \$91.50 | \$74.60 | \$69.55 | 2.0% | 0.800 |
| 2031 | \$68.00 | \$78.10 | \$81.25 | \$93.35 | \$76.10 | \$70.95 | 2.0% | 0.800 |

Natural gas price and market demand forecast AECO natural gas (real \$)



Forecast comments

The AECO natural gas price forecast is based on historical differentials to Henry Hub and future contracts traded on the NGX in Calgary.

In comparison to our June 30, 2024 forecast, the long term AECO price was decreased solely due to COGEH price forecast guidelines. These guidelines recommend that the price forecast remain within 20% of the futures curve, which were affected by negative market sentiment at the time of publication.

| Year | AB Ref. Avg. price | AB AECO Avg. price | AB AECO Avg. price | BC Direct Station 2 sales | NYMEX Henry Hub | NYMEX Henry Hub |
|------------|-----------------------|-----------------------|-----------------------|------------------------------|--------------------|---------------------|
| | C\$/Mcf Current | C\$/Mcf Real | C\$/Mcf Current | C\$/Mcf Current | US\$/Mcf Real | US\$/Mcf Current |
| Historical | current | incui | current | Carrent | neur | current |
| 2021 | \$3.27 | \$4.21 | \$3.64 | \$3.34 | \$4.52 | \$3.91 |
| 2022 | \$5.05 | \$5.98 | \$5.36 | \$4.56 | \$7.16 | \$6.42 |
| 2023 | \$2.59 | \$2.80 | \$2.69 | \$2.23 | \$2.64 | \$2.54 |
| 2024 | | | | | | |
| 9 mths H | \$1.24 | \$1.34 | \$1.34 | \$1.15 | \$2.09 | \$2.09 |
| 3 mths F | \$1.25 | \$1.35 | \$1.35 | \$1.05 | \$2.75 | \$2.75 |
| Avg. | \$1.25 | \$1.34 | \$1.34 | \$1.13 | \$2.26 | \$2.26 |
| Forecast | | | | | | |
| 2024 | \$1.25 | \$1.35 | \$1.35 | \$1.05 | \$2.75 | \$2.75 |
| 2025 | \$2.55 | \$2.75 | \$2.80 | \$2.50 | \$3.50 | \$3.55 |
| 2026 | \$3.40 | \$3.50 | \$3.65 | \$3.35 | \$4.00 | \$4.15 |
| 2027 | \$3.45 | \$3.50 | \$3.70 | \$3.40 | \$4.00 | \$4.25 |
| 2028 | \$3.50 | \$3.50 | \$3.80 | \$3.45 | \$4.00 | \$4.35 |
| 2029 | \$3.60 | \$3.50 | \$3.85 | \$3.55 | \$4.00 | \$4.40 |
| 2030 | \$3.65 | \$3.50 | \$3.95 | \$3.60 | \$4.00 | \$4.50 |
| 2031 | \$3.75 | \$3.50 | \$4.00 | \$3.70 | \$4.00 | \$4.60 |

International price forecast

Crude oil price and market demand forecast

| Year | Avg. WTI Spot | Brent Spot (38.3 API with 0.37% sulphur content) | Gulf Coast ASCI/MARS | Avg. OPEC Basket | Nigerian Bonny Light (33.4 API FOB) | Mexico Maya (21.8 API FOB) | Russia Urals (31.7 API FOB) |
|----------|---------------------|--|-------------------------|---------------------|---|-------------------------------|--------------------------------|
| | US\$/bbl Current | US\$/bbl Current | US\$/bbl Current | US\$/bbl Current | US\$/bbl Current | US\$/bbl Current | US\$/bbl Current |
| Forecast | | | | | | | |
| 2024 | \$72.00 | \$76.00 | \$70.25 | \$75.00 | \$77.50 | \$64.00 | \$63.00 |
| 2025 | \$71.40 | \$74.45 | \$69.60 | \$73.45 | \$76.00 | \$62.20 | \$64.25 |
| 2026 | \$70.75 | \$73.85 | \$68.95 | \$72.85 | \$75.45 | \$61.40 | \$68.65 |
| 2027 | \$72.15 | \$75.35 | \$70.30 | \$74.30 | \$76.95 | \$62.60 | \$70.05 |
| 2028 | \$73.60 | \$76.85 | \$71.70 | \$75.75 | \$78.50 | \$63.85 | \$71.45 |
| 2029 | \$75.10 | \$78.40 | \$73.15 | \$77.30 | \$80.05 | \$65.15 | \$72.85 |
| 2030 | \$76.60 | \$79.95 | \$74.60 | \$78.85 | \$81.65 | \$66.45 | \$74.35 |
| 2031 | \$78.10 | \$81.55 | \$76.10 | \$80.40 | \$83.30 | \$67.75 | \$75.80 |
| | | | | | | | |

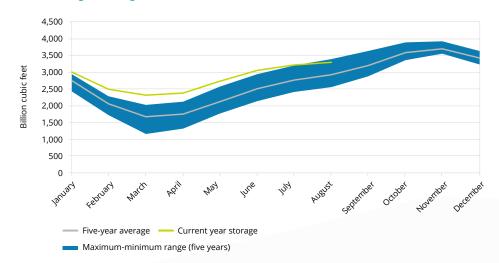
- International crude quality reference points for OPEC Basket, Venezuelan, Nigerian, UAE, Mexican, Chinese, Russian, and Indonesian crudes are now based on Brent in US dollars.
 For the purposes of this forecast, Brent is receiving a premium to WTI on the world markets.
- Current forecasts for other crude oil reference points are based on historical trends to the WTI price.
- Brent, United Kingdom crude is based on 38.3°API with 0.37% sulphur content. Brent blend is a light sweet North Sea crude oil that serves as an international benchmark grade.
- United States Gulf Coast Argus Sour Crude Index (ASCI) is a blend of offshore Gulf Coast oil from Mars, Poseidon, and Southern Green Canyon.
- OPEC Basket represents the current grouping of crude oil prices from OPEC member countries.
- Russia Urals 31.7°API is the FOB delivered price to the Mediterranean destinations.

Natural gas price and market demand forecast

| Year | USD to GBP Exchange | USD to EUR Exchange | NYMEX Henry Hub | Permian Waha | San Juan Ignacio | Rocky Mountain Opal | UK NBP | India domestic gas |
|----------|------------------------|------------------------|--------------------|-----------------|---------------------|------------------------|----------|-----------------------|
| | | | US\$/Mcf | US\$/Mcf | US\$/Mcf | US\$/Mcf | US\$/Mcf | US\$/Mcf |
| | Rate | Rate | Current | Current | Current | Current | Current | Current |
| Forecast | | | | | | | | |
| 2024 | 1.25 | 1.10 | \$2.75 | \$0.75 | \$2.35 | \$2.35 | \$10.50 | \$7.50 |
| 2025 | 1.30 | 1.10 | \$3.55 | \$2.80 | \$3.35 | \$3.35 | \$10.20 | \$7.35 |
| 2026 | 1.30 | 1.10 | \$4.15 | \$3.40 | \$3.95 | \$3.95 | \$9.90 | \$7.25 |
| 2027 | 1.30 | 1.10 | \$4.25 | \$3.45 | \$4.05 | \$4.05 | \$10.10 | \$7.40 |
| 2028 | 1.30 | 1.10 | \$4.35 | \$3.50 | \$4.10 | \$4.10 | \$10.30 | \$7.55 |
| 2029 | 1.30 | 1.10 | \$4.40 | \$3.60 | \$4.20 | \$4.20 | \$10.50 | \$7.70 |
| 2030 | 1.30 | 1.10 | \$4.50 | \$3.65 | \$4.30 | \$4.30 | \$10.70 | \$7.85 |
| 2031 | 1.30 | 1.10 | \$4.60 | \$3.75 | \$4.35 | \$4.35 | \$10.90 | \$8.05 |

Global trends

US natural gas storage



Storage

United States

Natural gas storage in the United States dropped below the five year maximum in August as US exports continued to grow and production remained relatively flat.

Source: Baker Hughes

Rigs

United States

Oil and gas rig counts have leveled off after dropping through the summer. Continued low gas prices and fears of weakening oil prices may keep rig counts flat or decreasing though the fall.

Canada

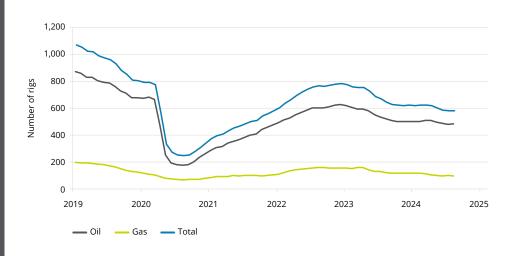
Oil and gas rig counts in Canada have been strong compared to recent years in spite of lower commodity prices, driven by increased oil drilling and helped by steady year over year gas drilling.

International

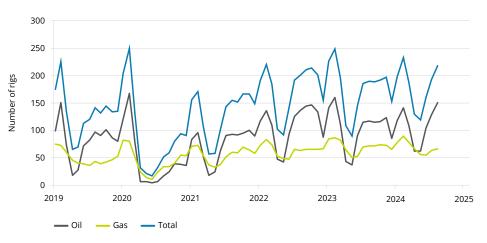
Rig counts have remained relatively stable across the globe. Weakening oil prices and extended OPEC production cuts may lead to slight decreases in the coming months.

*Source: Baker Hughes

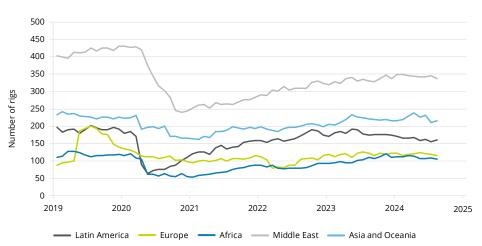
United States*



Canada*







Canadian domestic price tables

| | | | | Crude oil pricing | | | | |
|------------|--------------------|-------------------|------------------------|-------------------------------|-------------------------------|-----------------------|-----------------------|----------------------------------|
| Year | Price inflation | Cost inflation | CAD to USD exchange | WTI at Cushing Oklahoma | WTI at Cushing Oklahoma | Edmonton City Gate | Edmonton City Gate | WCS 20.5 deg. API Hardisty |
| | | | | US\$/bbl | US\$/bbl | C\$/bbl | C\$/bbl | C\$/bbl |
| | Rate | Rate | Rate | Real | Current | Real | Current | Current |
| Historical | | | | | | | | |
| 2014 | 1.9% | 1.9% | 0.906 | \$120.44 | \$93.26 | \$121.39 | \$94.00 | \$81.06 |
| 2015 | 1.1% | 1.1% | 0.783 | \$61.68 | \$48.69 | \$72.20 | \$57.00 | \$44.80 |
| 2016 | 1.4% | 1.4% | 0.755 | \$54.05 | \$43.15 | \$65.41 | \$52.22 | \$38.90 |
| 2017 | 1.6% | 1.6% | 0.771 | \$62.82 | \$50.88 | \$76.69 | \$62.12 | \$49.51 |
| 2018 | 2.3% | 2.3% | 0.772 | \$78.88 | \$64.94 | \$83.97 | \$69.13 | \$49.89 |
| 2019 | 1.9% | 1.9% | 0.754 | \$67.65 | \$56.98 | \$81.65 | \$68.78 | \$57.43 |
| 2020 | 0.7% | 0.7% | 0.746 | \$45.67 | \$39.23 | \$52.47 | \$45.07 | \$36.09 |
| 2021 | 3.4% | 3.4% | 0.798 | \$78.57 | \$67.99 | \$92.87 | \$80.36 | \$68.21 |
| 2022 | 6.8% | 6.8% | 0.769 | \$105.82 | \$94.79 | \$133.38 | \$119.47 | \$96.96 |
| 2023 | 3.9% | 3.9% | 0.741 | \$80.78 | \$77.64 | \$103.29 | \$99.27 | \$80.17 |
| 2024 | <u>.</u> | | · | | | | | |
| 9 mths H | 2.6% | 2.6% | 0.735 | \$78.43 | \$78.43 | \$98.73 | \$98.73 | \$84.63 |
| 3 mths F | 0.0% | 0.0% | 0.730 | \$72.00 | \$72.00 | \$94.50 | \$94.50 | \$78.10 |
| Avg. | N/A | N/A | 0.734 | \$76.82 | \$76.82 | \$97.67 | \$97.67 | \$83.00 |
| Forecast | | | | | | | | |
| 2024 | 0.0% | 0.0% | 0.730 | \$72.00 | \$72.00 | \$94.50 | \$94.50 | \$78.10 |
| 2025 | 2.0% | 2.0% | 0.750 | \$70.00 | \$71.40 | \$89.35 | \$91.15 | \$74.80 |
| 2026 | 2.0% | 2.0% | 0.800 | \$68.00 | \$70.75 | \$81.25 | \$84.55 | \$68.95 |
| 2027 | 2.0% | 2.0% | 0.800 | \$68.00 | \$72.15 | \$81.25 | \$86.20 | \$70.30 |
| 2028 | 2.0% | 2.0% | 0.800 | \$68.00 | \$73.60 | \$81.25 | \$87.95 | \$71.70 |
| 2029 | 2.0% | 2.0% | 0.800 | \$68.00 | \$75.10 | \$81.25 | \$89.70 | \$73.15 |
| 2030 | 2.0% | 2.0% | 0.800 | \$68.00 | \$76.60 | \$81.25 | \$91.50 | \$74.60 |
| 2031 | 2.0% | 2.0% | 0.800 | \$68.00 | \$78.10 | \$81.25 | \$93.35 | \$76.10 |
| 2032 | 2.0% | 2.0% | 0.800 | \$68.00 | \$79.65 | \$81.25 | \$95.20 | \$77.60 |
| 2033 | 2.0% | 2.0% | 0.800 | \$68.00 | \$81.25 | \$81.25 | \$97.10 | \$79.15 |
| 2033 | 2.0% | 2.0% | 0.800 | \$68.00 | \$82.90 | \$81.25 | \$99.05 | \$80.75 |
| 2035 | 2.0% | 2.0% | 0.800 | \$68.00 | \$84.55 | \$81.25 | \$101.00 | \$82.35 |
| 2035 | 2.0% | 2.0% | 0.800 | \$68.00 | \$86.25 | \$81.25 | \$101.00 | \$84.00 |
| | | | | | | | | |
| 2037 | 2.0% | 2.0% | 0.800 | \$68.00 | \$87.95 | \$81.25 | \$105.10 | \$85.70 |
| 2038 | 2.0% | 2.0% | 0.800 | \$68.00 | \$89.70 | \$81.25 | \$107.20 | \$87.40 |
| 2039 | 2.0% | 2.0% | 0.800 | \$68.00 | \$91.50 | \$81.25 | \$109.35 | \$89.15 |
| 2040 | 2.0% | 2.0% | 0.800 | \$68.00 | \$93.35 | \$81.25 | \$111.55 | \$90.95 |
| 2041 | 2.0% | 2.0% | 0.800 | \$68.00 | \$95.20 | \$81.25 | \$113.75 | \$92.75 |
| 2042 | 2.0% | 2.0% | 0.800 | \$68.00 | \$97.10 | \$81.25 | \$116.05 | \$94.60 |
| 2043 | 2.0% | 2.0% | 0.800 | \$68.00 | \$99.05 | \$81.25 | \$118.35 | \$96.50 |
| 2043+ | 2.0% | 2.0% | 0.800 | 0.0% | 2.0% | 0.0% | 2.0% | 2.0% |

Notes

- All prices are in Canadian dollars except WTI and NYMEX gas which are in US dollars.
 Edmonton City Gate prices based on historical light oil par prices posted by the
- Government of Alberta and Net Energy differential futures (40 Deg. API < 0.5% Sulphur).
- Real prices listed in 2024 dollars with no escalation considered.

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Canadian domestic price tables

| | Natural gas liquid Edmonton par prio | pricing :es | | | Natural gas pricing | 1 | | | | | Sulphur |
|---------------|---|--------------------|--------------------|--------------------------|-------------------------------|--------------------------|--------------------------|---------------------------|--------------------|---------------------|---------------------|
| Year | Ethane | Propane | Butane | Pentanes + Condensate | AB Reference Avg. price | AB AECO Avg. price | AB AECO Avg. price | BC Direct Stn. 2 sales | NYMEX Henry Hub | NYMEX Henry Hub | AB plant gate |
| | C\$/bbl Current | C\$/bbl Current | C\$/bbl Current | C\$/bbl Current | C\$/Mcf Current | C\$/Mcf Real | C\$/Mcf Current | C\$/Mcf Current | US\$/Mcf Real | US\$/Mcf Current | C\$/Lt. Current |
| Historical | | | | | | | | | | | |
| 2014 | \$12.46 | \$42.93 | \$59.43 | \$101.47 | \$4.22 | \$5.82 | \$4.50 | \$4.16 | \$5.67 | \$4.39 | \$88.99 |
| 2015 | \$7.49 | \$5.35 | \$33.70 | \$55.15 | \$2.56 | \$3.41 | \$2.69 | \$1.81 | \$3.33 | \$2.63 | \$107.45 |
| 2016 | \$6.04 | \$8.71 | \$31.45 | \$52.43 | \$1.93 | \$2.70 | \$2.16 | \$1.75 | \$3.15 | \$2.52 | \$45.40 |
| 2017 | \$6.11 | \$27.92 | \$40.98 | \$63.65 | \$2.13 | \$2.71 | \$2.19 | \$1.56 | \$3.68 | \$2.99 | \$41.85 |
| 2018 | \$6.90 | \$29.76 | \$46.17 | \$75.74 | \$1.36 | \$1.87 | \$1.54 | \$1.26 | \$3.85 | \$3.17 | \$89.25 |
| 2019 | \$5.00 | \$15.82 | \$21.40 | \$67.57 | \$1.48 | \$2.15 | \$1.81 | \$1.02 | \$3.05 | \$2.57 | \$37.54 |
| 2020 | \$6.20 | \$16.11 | \$20.93 | \$47.14 | \$2.00 | \$2.62 | \$2.25 | \$2.20 | \$2.37 | \$2.04 | \$2.60 |
| 2021 | \$10.08 | \$45.46 | \$40.28 | \$82.91 | \$3.27 | \$4.21 | \$3.64 | \$3.34 | \$4.52 | \$3.91 | \$69.73 |
| 2022 | \$15.05 | \$51.37 | \$64.88 | \$118.21 | \$5.05 | \$5.98 | \$5.36 | \$4.56 | \$7.16 | \$6.42 | \$120.05 |
| 2023 | \$7.33 | \$31.35 | \$48.62 | \$99.82 | \$2.59 | \$2.80 | \$2.69 | \$2.23 | \$2.64 | \$2.54 | \$14.91 |
| 2024 | | | | 1 | | | | | | | |
| 9 mths H | \$3.91 | \$32.11 | \$44.36 | \$97.40 | \$1.24 | \$1.34 | \$1.34 | \$1.15 | \$2.09 | \$2.09 | \$3.70 |
| 3 mths F | \$3.80 | \$28.35 | \$42.55 | \$94.50 | \$1.25 | \$1.35 | \$1.35 | \$1.05 | \$2.75 | \$2.75 | \$2.50 |
| Avg. | \$3.88 | \$31.17 | \$43.91 | \$96.67 | \$1.25 | \$1.34 | \$1.34 | \$1.13 | \$2.26 | \$2.26 | \$3.40 |
| Forecast | | | | I | | | | | | I | |
| 2024 | \$3.80 | \$28.35 | \$42.55 | \$94.50 | \$1.25 | \$1.35 | \$1.35 | \$1.05 | \$2.75 | \$2.75 | \$2.50 |
| 2025 | \$7.85 | \$27.35 | \$41.00 | \$91.15 | \$2.55 | \$2.75 | \$2.80 | \$2.50 | \$3.50 | \$3.55 | \$25.50 |
| 2026 | \$10.20 | \$25.40 | \$38.05 | \$84.55 | \$3.40 | \$3.50 | \$3.65 | \$3.35 | \$4.00 | \$4.15 | \$52.00 |
| 2027 | \$10.40 | \$25.90 | \$38.80 | \$86.20 | \$3.45 | \$3.50 | \$3.70 | \$3.40 | \$4.00 | \$4.25 | \$53.05 |
| 2028 | \$10.60 | \$26.40 | \$39.55 | \$87.95 | \$3.50 | \$3.50 | \$3.80 | \$3.45 | \$4.00 | \$4.35 | \$54.10 |
| 2029 | \$10.80 | \$26.95 | \$40.35 | \$89.70 | \$3.60 | \$3.50 | \$3.85 | \$3.55 | \$4.00 | \$4.40 | \$55.20 |
| 2030 | \$11.05 | \$27.50 | \$41.15 | \$91.50 | \$3.65 | \$3.50 | \$3.95 | \$3.60 | \$4.00 | \$4.50 | \$56.30 |
| 2031 | \$11.25 | \$28.05 | \$42.00 | \$93.35 | \$3.75 | \$3.50 | \$4.00 | \$3.70 | \$4.00 | \$4.60 | \$57.45 |
| 2032 | \$11.50 | \$28.60 | \$42.80 | \$95.20 | \$3.80 | \$3.50 | \$4.10 | \$3.75 | \$4.00 | \$4.70 | \$58.60 |
| 2033 | \$11.70 | \$29.15 | \$43.70 | \$97.10 | \$3.90 | \$3.50 | \$4.20 | \$3.80 | \$4.00 | \$4.80 | \$59.75 |
| 2034 | \$11.95 | \$29.75 | \$44.55 | \$99.05 | \$3.95 | \$3.50 | \$4.25 | \$3.90 | \$4.00 | \$4.90 | \$60.95 |
| 2035 | \$12.20 | \$30.35 | \$45.45 | \$101.00 | \$4.05 | \$3.50 | \$4.35 | \$4.00 | \$4.00 | \$4.95 | \$62.15 |
| 2036 | \$12.45 | \$30.95 | \$46.35 | \$103.05 | \$4.10 | \$3.50 | \$4.45 | \$4.05 | \$4.00 | \$5.05 | \$63.40 |
| 2037 | \$12.70 | \$31.55 | \$47.30 | \$105.00 | \$4.20 | \$3.50 | \$4.55 | \$4.15 | \$4.00 | \$5.05 | \$64.70 |
| 2038 | \$12.95 | \$32.20 | \$48.25 | \$107.20 | \$4.30 | \$3.50 | \$4.60 | \$4.20 | \$4.00 | \$5.30 | \$65.95 |
| 2039 | \$13.20 | \$32.85 | \$49.20 | \$109.35 | \$4.35 | \$3.50 | \$4.70 | \$4.30 | \$4.00 | \$5.40 | \$67.30 |
| 2039 | \$13.45 | \$33.50 | \$50.20 | \$105.55 | \$4.45 | \$3.50 | \$4.80 | \$4.40 | \$4.00 | \$5.50 | \$68.65 |
| 2040 | \$13.45 | \$34.15 | \$51.20 | \$113.75 | \$4.55 | \$3.50 | \$4.90 | \$4.50 | \$4.00 | \$5.60 | \$70.00 |
| 2041 | \$13.70 | \$34.85 | \$52.20 | \$116.05 | \$4.65 | \$3.50 | \$5.00 | \$4.55 | \$4.00 | \$5.70 | \$70.00 |
| | \$14.00 | \$35.55 | \$53.25 | \$110.05 | | \$3.50 | \$5.10 | \$4.65 | \$4.00 | | \$72.85 |
| 2043 2043+ | \$14.30 | \$35.55 | \$53.25 | \$118.35 | \$4.75 | \$3.50 | \$5.10 | \$4.65 | \$4.00 | \$5.85 | \$72.85 |

Notes

- Data sources include: EIA, DOB, NRC, and the Alberta government.
- All prices are in Canadian dollars except WTI and NYMEX gas which are in US dollars.
- Edmonton City Gate prices based on historical light oil par prices posted by the Government of Alberta and Net Energy differential futures (40 Deg. API < 0.5% Sulphur).
- Natural Gas Liquid prices are forecasted at Edmonton, therefore an additional transportation cost must be included to plant gate sales point.
- 1 Mcf is equivalent to 1 mmbtu.
- Real prices listed in 2024 dollars with no escalation considered.
- Alberta gas prices, except AECO, include an average cost of service to the plant gate.
- NGL prices have been switched from a mix reference to a spec reference.

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Additional crude reference prices

| | Crude oil pricing | | | Natural gas pricing |
|------------|---------------------------------------|--------------------------------|--|------------------------------|
| Year | Lt. Sour 35 deg. API Cromer, SK | MSO 31 deg. API Hardisty | Syncrude Sweet Premium 32.5 deg. API | Ontario Dawn Reference Point |
| | C\$/bbl Current | C\$/bbl Current | C\$/bbl Current | C\$/Mcf Current |
| Historical | | | | |
| 2014 | \$92.91 | \$89.39 | | \$5.76 |
| 2015 | \$55.46 | \$54.70 | | \$3.72 |
| 2016 | \$51.37 | \$48.29 | | \$3.46 |
| 2017 | \$62.06 | \$58.16 | | \$3.97 |
| 2018 | \$73.06 | \$62.82 | | \$4.07 |
| 2019 | \$69.68 | \$65.72 | | \$3.22 |
| 2020 | \$45.41 | \$43.55 | | \$2.51 |
| 2021 | \$80.08 | \$76.58 | \$83.62 | \$4.55 |
| 2022 | \$117.99 | \$113.47 | \$128.10 | \$7.92 |
| 2023 | \$98.03 | \$93.82 | \$106.17 | \$3.19 |
| 2024 | | | | |
| 9 mths H | \$96.74 | \$94.65 | \$105.06 | \$2.47 |
| 3 mths F | \$93.00 | \$92.50 | \$98.10 | \$3.35 |
| Avg. | \$95.80 | \$94.11 | \$103.32 | \$2.69 |
| Forecast | 1 | | | |
| 2024 | \$93.00 | \$92.50 | \$98.10 | \$3.35 |
| 2025 | \$89.60 | \$86.55 | \$95.20 | \$4.55 |
| 2026 | \$82.95 | \$79.85 | \$89.75 | \$5.00 |
| 2027 | \$84.65 | \$81.45 | \$91.55 | \$5.10 |
| 2028 | \$86.30 | \$83.10 | \$93.35 | \$5.20 |
| 2029 | \$88.05 | \$84.75 | \$95.25 | \$5.30 |
| 2030 | \$89.80 | \$86.45 | \$97.15 | \$5.40 |
| 2031 | \$91.60 | \$88.15 | \$99.05 | \$5.50 |
| 2032 | \$93.45 | \$89.90 | \$101.05 | \$5.60 |
| 2033 | \$95.30 | \$91.70 | \$103.10 | \$5.75 |
| 2034 | \$97.20 | \$93.55 | \$105.15 | \$5.85 |
| 2035 | \$99.15 | \$95.45 | \$107.25 | \$5.95 |
| 2036 | \$101.15 | \$97.35 | \$109.40 | \$6.10 |
| 2037 | \$103.15 | \$99.30 | \$111.55 | \$6.20 |
| 2038 | \$105.25 | \$101.25 | \$113.80 | \$6.35 |
| 2039 | \$107.35 | \$103.30 | \$116.10 | \$6.45 |
| 2040 | \$109.50 | \$105.35 | \$118.40 | \$6.60 |
| 2041 | \$111.65 | \$107.45 | \$120.75 | \$6.70 |
| 2042 | \$113.90 | \$109.60 | \$123.20 | \$6.85 |
| 2043 | \$116.20 | \$111.80 | \$125.65 | \$7.00 |
| 2043+ | 2.0% | 2.0% | 2.0% | 2.0% |

Notes

- Data sources include: EIA, DOB, NRC, and the Alberta government.
- All prices are in Canadian dollars except WTI and NYMEX gas which are in US dollars.
- Edmonton City Gate prices based on historical light oil par prices posted by the Government of Alberta and Net Energy differential futures (40 Deg. API < 0.5% Sulphur).
- Natural Gas Liquid prices are forecasted at Edmonton, therefore an additional transportation cost must be included to plant gate sales point.
- 1 Mcf is equivalent to 1 mmbtu.
- Real prices listed in 2024 dollars with no escalation considered.
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International price tables

| | Crude oil prio | ing | | | | | | | | | | | | | |
|----------|---------------------|---------------------------|---------------------------------|-----------------------------|-----------------------------|---------------------|---------------------|------------------------|---------------------|----------------------------|---------------------------------|---------------------|---------------------|---------------------|---------------------|
| Year | Avg. WTI Spot | Alaskan North Slope | California Midway- Sunset | Louisiana Light Sweet | Gulf Coast ASCI/ MARS | Wyoming Sweet | Brent Spot | Avg. OPEC Basket | Venezuelan Merey | Nigerian Bonny Light | Arabia UAE Dubai Feteh | UAE Murban | Mexico Maya | Russia Urals | Indonesia Minas |
| | US\$/bbl Current | US\$/bbl Current | US\$/bbl Current | US\$/bbl Current | US\$/bbl Current | US\$/bbl Current | US\$/bbl Current | US\$/bbl Current | US\$/bbl Current | US\$/bbl Current | US\$/bbl Current | US\$/bbl Current | US\$/bbl Current | US\$/bbl Current | US\$/bbl Current |
| Forecast | | | | | | | | | | | | | | | |
| 2024 | \$72.00 | \$68.50 | \$69.00 | \$73.00 | \$70.25 | \$66.50 | \$76.00 | \$75.00 | \$61.00 | \$77.50 | \$74.50 | \$75.00 | \$64.00 | \$63.00 | \$81.00 |
| 2025 | \$71.40 | \$67.85 | \$68.35 | \$72.40 | \$69.60 | \$65.80 | \$74.45 | \$73.45 | \$59.15 | \$76.00 | \$72.95 | \$73.45 | \$62.20 | \$64.25 | \$79.55 |
| 2026 | \$70.75 | \$67.10 | \$67.65 | \$71.80 | \$68.95 | \$65.05 | \$73.85 | \$72.85 | \$58.25 | \$75.45 | \$72.30 | \$72.85 | \$61.40 | \$68.65 | \$79.05 |
| 2027 | \$72.15 | \$68.45 | \$69.00 | \$73.20 | \$70.30 | \$66.35 | \$75.35 | \$74.30 | \$59.45 | \$76.95 | \$73.75 | \$74.30 | \$62.60 | \$70.05 | \$80.65 |
| 2028 | \$73.60 | \$69.80 | \$70.35 | \$74.70 | \$71.70 | \$67.65 | \$76.85 | \$75.75 | \$60.60 | \$78.50 | \$75.25 | \$75.75 | \$63.85 | \$71.45 | \$82.25 |
| 2029 | \$75.10 | \$71.20 | \$71.75 | \$76.20 | \$73.15 | \$69.00 | \$78.40 | \$77.30 | \$61.85 | \$80.05 | \$76.75 | \$77.30 | \$65.15 | \$72.85 | \$83.90 |
| 2030 | \$76.60 | \$72.65 | \$73.20 | \$77.70 | \$74.60 | \$70.40 | \$79.95 | \$78.85 | \$63.05 | \$81.65 | \$78.25 | \$78.85 | \$66.45 | \$74.35 | \$85.60 |
| 2031 | \$78.10 | \$74.10 | \$74.65 | \$79.25 | \$76.10 | \$71.80 | \$81.55 | \$80.40 | \$64.35 | \$83.30 | \$79.85 | \$80.40 | \$67.75 | \$75.80 | \$87.30 |
| 2032 | \$79.65 | \$75.55 | \$76.15 | \$80.85 | \$77.60 | \$73.25 | \$83.20 | \$82.00 | \$65.60 | \$84.95 | \$81.45 | \$82.00 | \$69.15 | \$77.35 | \$89.05 |
| 2033 | \$81.25 | \$77.10 | \$77.70 | \$82.45 | \$79.15 | \$74.70 | \$84.85 | \$83.65 | \$66.95 | \$86.65 | \$83.05 | \$83.65 | \$70.50 | \$78.90 | \$90.85 |
| 2034 | \$82.90 | \$78.65 | \$79.25 | \$84.10 | \$80.75 | \$76.20 | \$86.55 | \$85.35 | \$68.25 | \$88.40 | \$84.70 | \$85.35 | \$71.90 | \$80.45 | \$92.65 |
| 2035 | \$84.55 | \$80.20 | \$80.80 | \$85.80 | \$82.35 | \$77.70 | \$88.30 | \$87.05 | \$69.65 | \$90.15 | \$86.40 | \$87.05 | \$73.35 | \$82.05 | \$94.50 |
| 2036 | \$86.25 | \$81.80 | \$82.45 | \$87.50 | \$84.00 | \$79.25 | \$90.05 | \$88.80 | \$71.00 | \$91.95 | \$88.15 | \$88.80 | \$74.85 | \$83.70 | \$96.40 |
| 2037 | \$87.95 | \$83.45 | \$84.10 | \$89.25 | \$85.70 | \$80.85 | \$91.85 | \$90.55 | \$72.45 | \$93.80 | \$89.90 | \$90.55 | \$76.30 | \$85.40 | \$98.30 |
| 2038 | \$89.70 | \$85.10 | \$85.75 | \$91.05 | \$87.40 | \$82.45 | \$93.70 | \$92.35 | \$73.90 | \$95.65 | \$91.70 | \$92.35 | \$77.85 | \$87.10 | \$100.30 |
| 2039 | \$91.50 | \$86.80 | \$87.50 | \$92.85 | \$89.15 | \$84.10 | \$95.55 | \$94.20 | \$75.35 | \$97.60 | \$93.55 | \$94.20 | \$79.40 | \$88.85 | \$102.30 |
| 2040 | \$93.35 | \$88.55 | \$89.25 | \$94.70 | \$90.95 | \$85.80 | \$97.45 | \$96.10 | \$76.90 | \$99.55 | \$95.40 | \$96.10 | \$81.00 | \$90.60 | \$104.35 |
| 2041 | \$95.20 | \$90.30 | \$91.00 | \$96.60 | \$92.75 | \$87.50 | \$99.40 | \$98.00 | \$78.40 | \$101.50 | \$97.30 | \$98.00 | \$82.60 | \$92.40 | \$106.40 |
| 2042 | \$97.10 | \$92.10 | \$92.85 | \$98.55 | \$94.60 | \$89.25 | \$101.40 | \$100.00 | \$80.00 | \$103.55 | \$99.25 | \$100.00 | \$84.25 | \$94.25 | \$108.55 |
| 2043 | \$99.05 | \$93.95 | \$94.70 | \$100.50 | \$96.50 | \$91.05 | \$103.45 | \$102.00 | \$81.60 | \$105.60 | \$101.25 | \$102.00 | \$85.95 | \$96.15 | \$110.70 |
| 2043+ | 2.0% | 2.0% | 2.0% | 2.0% | 2.0% | 2.0% | 2.0% | 2.0% | 2.0% | 2.0% | 2.0% | 2.0% | 2.0% | 2.0% | 2.0% |

Notes

• Data sources include: EIA, OPEC, ARC Energy, and Marex Spectron.

• Venezuelan Merey replaced BCF-17 in the OPEC Basket on March 1, 2009.

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| | | | Natural gas pricing | | | | | |
|----------|------------------|------------------|---------------------|---------------------|---------------------|---------------------|---------------------|-----------------------|
| Year | USD to GBP | USD to EUR | NYMEX Henry Hub | Permian Waha | San Juan Ignacio | Rocky Mtn. Opal | UKNBP | India domestic gas |
| | Exchange rate | Exchange rate | US\$/Mcf Current | US\$/Mcf Current | US\$/Mcf Current | US\$/Mcf Current | US\$/Mcf Current | US\$/Mcf Current |
| Forecast | | | | | | | | |
| 2024 | 1.250 | 1.100 | \$2.75 | \$0.75 | \$2.35 | \$2.35 | \$10.50 | \$7.50 |
| 2025 | 1.300 | 1.100 | \$3.55 | \$2.80 | \$3.35 | \$3.35 | \$10.20 | \$7.35 |
| 2026 | 1.300 | 1.100 | \$4.15 | \$3.40 | \$3.95 | \$3.95 | \$9.90 | \$7.25 |
| 2027 | 1.300 | 1.100 | \$4.25 | \$3.45 | \$4.05 | \$4.05 | \$10.10 | \$7.40 |
| 2028 | 1.300 | 1.100 | \$4.35 | \$3.50 | \$4.10 | \$4.10 | \$10.30 | \$7.55 |
| 2029 | 1.300 | 1.100 | \$4.40 | \$3.60 | \$4.20 | \$4.20 | \$10.50 | \$7.70 |
| 2030 | 1.300 | 1.100 | \$4.50 | \$3.65 | \$4.30 | \$4.30 | \$10.70 | \$7.85 |
| 2031 | 1.300 | 1.100 | \$4.60 | \$3.75 | \$4.35 | \$4.35 | \$10.90 | \$8.05 |
| 2032 | 1.300 | 1.100 | \$4.70 | \$3.80 | \$4.45 | \$4.45 | \$11.15 | \$8.20 |
| 2033 | 1.300 | 1.100 | \$4.80 | \$3.90 | \$4.55 | \$4.55 | \$11.35 | \$8.35 |
| 2034 | 1.300 | 1.100 | \$4.90 | \$3.95 | \$4.65 | \$4.65 | \$11.60 | \$8.50 |
| 2035 | 1.300 | 1.100 | \$4.95 | \$4.05 | \$4.70 | \$4.70 | \$11.80 | \$8.70 |
| 2036 | 1.300 | 1.100 | \$5.05 | \$4.10 | \$4.80 | \$4.80 | \$12.05 | \$8.85 |
| 2037 | 1.300 | 1.100 | \$5.15 | \$4.20 | \$4.90 | \$4.90 | \$12.30 | \$9.05 |
| 2038 | 1.300 | 1.100 | \$5.30 | \$4.30 | \$5.00 | \$5.00 | \$12.55 | \$9.20 |
| 2039 | 1.300 | 1.100 | \$5.40 | \$4.35 | \$5.10 | \$5.10 | \$12.80 | \$9.40 |
| 2040 | 1.300 | 1.100 | \$5.50 | \$4.45 | \$5.20 | \$5.20 | \$13.05 | \$9.60 |
| 2041 | 1.300 | 1.100 | \$5.60 | \$4.55 | \$5.30 | \$5.30 | \$13.30 | \$9.80 |
| 2042 | 1.300 | 1.100 | \$5.70 | \$4.65 | \$5.45 | \$5.45 | \$13.55 | \$10.00 |
| 2043 | 1.300 | 1.100 | \$5.85 | \$4.75 | \$5.55 | \$5.55 | \$13.85 | \$10.20 |
| 2043+ | 1.300 | 1.100 | 2.0% | 2.0% | 2.0% | 2.0% | 2.0% | 2.0% |

Notes

- Data sources include: EIA, OPEC, ARC Energy, and Marex Spectron.
- Venezuelan Merey replaced BCF-17 in the OPEC Basket on March 1, 2009.

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Pricing philosophy

Price forecasting takes into account many variables that can influence future prices. Our experience tells us that we must continually review the forecasting tools we use to predict where oil and gas prices are heading. However, one constant influence on oil and gas pricing is the geopolitical landscape. This impact is most accurately reflected in the financial industry's futures market for commodities, a main influence when Deloitte creates its price forecast. In other words, Deloitte looks to both the past and the future when we create our forecast.

This pricing philosophy challenges conventional thinking. The traditional view is based on the mean-reversion view of commodities presented by economists. Following this model, industry forecasts from 2000 to 2006 reflected a drop in prices over the long term from the current prices of the day—even though the futures market indicated otherwise. While the mean-reversion approach definitely has some merit, history has tended to reflect that the futures market is a more accurate barometer.

Client focus

At Deloitte, we believe it is a part of our role to help our clients in both the oil and gas sector and the investment community make better long-term business decisions by providing them with the most accurate and realistic information. We understand that sound analysis of changing trends can influence decisions on mergers, acquisitions, divestitures, and investments. One way we ensure our price forecasts are as accurate as possible, given the continuing impact of near-term volatility, is to review our pricing assumptions on a quarterly basis.

Our process

In preparing the price forecast, Deloitte considers the current monthly trends, the actual price and trends for the year to date, and the prior year actual prices. The base forecast for both oil and gas is based on NYMEX futures in US dollars.

Crude oil and natural gas forecasts are based on yearly variable factors, weighted to a higher percent for the current data and then reflect a higher percent to prior year historical data for the later years. Gas prices have been determined independently from oil prices, but still reflect the current competitive nature of the two fuels and historical oil-to-gas ratios for the latter years of the gas forecast.

Deloitte prepares our price and market forecasts based on information we collect from numerous government agencies, industry publications, oil refineries, natural gas marketers, and industry trends. Inflation forecasts and exchange rates are also an integral part of the forecast.

These forecasts are Deloitte's best estimate of how the future will look, and while they are considered reasonable, changing market conditions or additional information may require alteration from the indicated effective date.

Glossary

| AECO | Alberta Energy Company— | LLB | Lloydminster Blend | | | |
|------|---|-------|--|--|--|--|
| | historical name of a virtual trading hub on the NGX system | LNG | Liquefied Natural Gas | | | |
| ANS | Alaskan North Slope | MESC | Middle East Sour Crude | | | |
| ASCI | Argus Sour Crude Index | MSO | Mixed Sour Crude Oil | | | |
| AWB | Access Western Blend— | MSW | Mixed Sweet Blend | | | |
| | Canadian condensate/ | NBP | National Balancing Point | | | |
| | bitumen mix | NEB | Canadian National | | | |
| BR | Bow River Crude Oil | | Energy Board | | | |
| CAPP | Canadian Association of | NGX | Natural Gas Exchange | | | |
| | Petroleum Producers | NIT | Nova Inventory Transfer | | | |
| CBOT | Chicago Board of Trade | NRC | Natural Resources Canada | | | |
| CER | Canadian Energy Regulator | NYMEX | New York Mercantile Exchange | | | |
| CGA | Canadian Gas Association | OECD | Organisation of Economic | | | |
| CLS | Canadian Light Sweet | | Cooperation and Developmen | | | |
| CME | Chicago Mercantile Exchange | OPEC | Organisation of Petroleum | | | |
| DCQ | Daily Contract Quantity | | Exporting Countries | | | |
| DOB | Daily Oil Bulletin | PADD | Petroleum Administration Defense District | | | |
| EIA | Energy Information Administration | USGC | US Gulf Coast | | | |
| FERC | | USWC | US West Coast | | | |
| FERC | Federal Energy Regulatory Commission | WCS | Western Canada Select | | | |
| FOB | Free on board (shipper term) | WTI | West Texas Intermediate | | | |
| IEA | International Energy Agency | WTS | West Texas Sour | | | |
| | | | | | | |

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