

Menno Hulshof, CFA^
Aaron Bilkoski^
Aaron MacNeil, CA^
Dustin Besaw, CFA^
Jenna Weir, CFA^
Samuel Babarinde, CFA^

THE CRUDE FACTS

THE TD COWEN INSIGHT

Weekly Oil Charts

In the following charts, we summarize the key oil data-points for the global crude oil supply/demand outlook. We highlight the following weekly trends:

1) WTI dips below US\$70/bbl to kick-off September, hitting a YTD low: WTI spot is sitting at ~US\$69/bbl, now down 2% YTD, while Brent is trading at ~US\$72.50/bbl, similarly down 2% YTD. In our view, persistent demand weakness concerns through Q3/24 and uncertainty over OPEC+'s next move have weighed on spot prices, with reports that Libyan barrels would soon be returned to market putting additional pressure on prices this week.

2) OPEC+ delays planned October output hike for two months: Given current macro conditions (persistent demand weakness concerns, Libya barrels set to return to market), this was not entirely surprising, in our view. Note, OPEC+ had planned to add 180mmbbl/d of production back to the market in October as part of its plan to return 2.2mmbbl/d of curtailments that were in place through Q3/24. We expect OPEC+ to continue to take a proactive stance in managing supply and wouldn't be surprised to see output hikes delayed further should global demand remain challenged.

3) Regional U.S. refining cracks hit YTD lows as refinery utilization continues to trend higher: On average, regional U.S. 321 refining margins sit at US\$14.40/bbl, 32% below the five-year-average and 57% below year-ago levels. In our view, continued strong refinery utilization (93%; +4% vs. norms) and below average gasoline demand (-3% vs. norms) is weighing on margins.

Figure 1. Weekly Summary

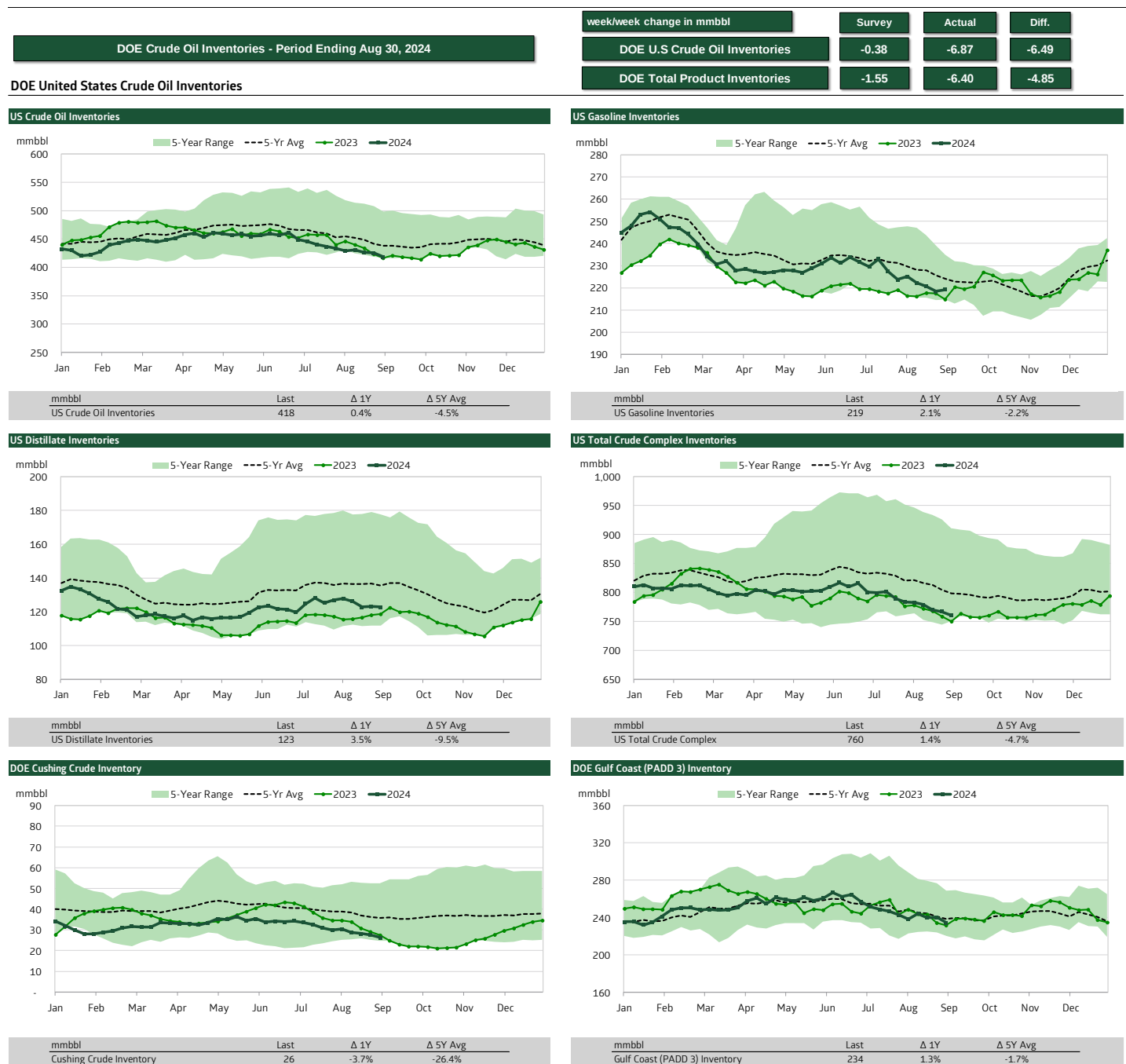
Crude Oil Pricing (US\$/bbl)	Last	Δ 1M	Δ 1Y
Brent - International	\$75.09	-9%	-8%
WTI	\$69.20	-10%	-6%
Ed. Light	\$68.16	-8%	6%
LLS	\$71.10	-9%	-8%
WCS	\$54.33	-11%	2%
Urals	\$63.09	10%	9%
US Resource Play Production (mmbbl/d)	Last	Δ 1M	Δ 1Y
Total US	13.3	-1%	4%
Lower 48	12.9	-1%	4%
Eagle Ford	1.2	-1%	1%
Permian	6.8	0%	5%
Bakken	1.3	-1%	2%
Niobrara	0.7	-1%	3%
US Crude Inventories (mmbbl)	Last	Δ 1Y	Δ 5 Yr Avg
US Crude	418	0%	-5%
US Gasoline	219	2%	-2%
US Distillate	123	3%	-10%
Total US Crude Oil Complex	760	1%	-5%
US Crude Oil Demand (mmbbl/d)	Last	Δ 1Y	Δ 5 Yr Avg
US Total Refined Product Demand	20.5	2%	1%
US Gasoline Demand	8.9	-4%	-3%
US Distillate Demand	4.0	3%	0%
US Jet Fuel Demand	1.8	9%	15%
Refining Crack Spreads (US\$/bbl) & Utilization	Last	Δ 1Y	Δ 5 Yr Avg
US Mid-continent 3-2-1 Crack Spread	\$15.36	-60%	-35%
US Gulf Coast 3-2-1 Crack Spread	\$12.37	-62%	-40%
US NYH 3-2-1 Crack Spread	\$19.44	-40%	-10%
Refinery Utilization	93%	0%	4%

Source: Bloomberg, TD Cowen

Research analysts marked with ^ above are not associated persons of TD Securities (USA) LLC and are not registered as Research Analysts under FINRA rules. Research analysts registered solely with FINRA are not subject to CIRO disclosure requirements.

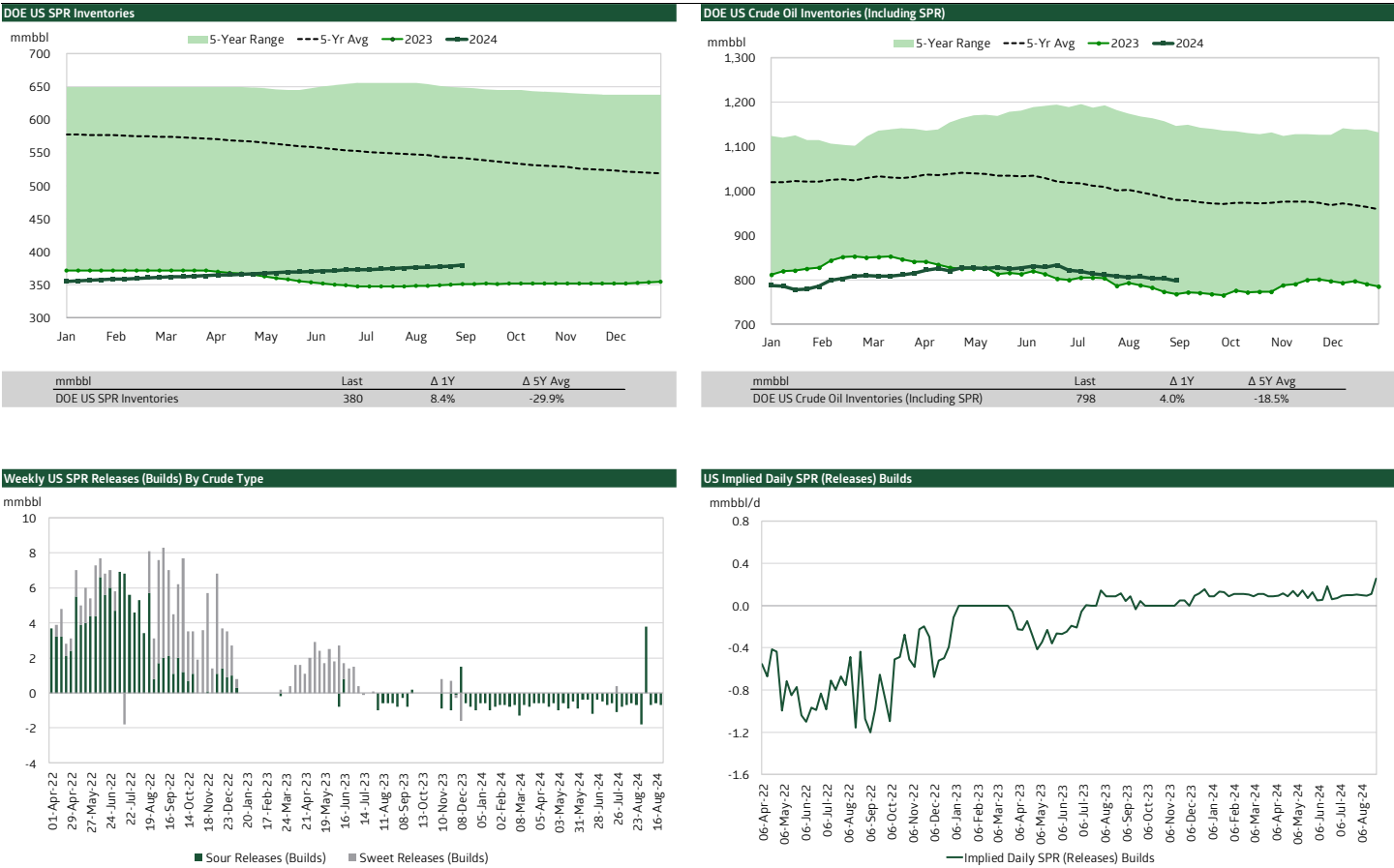
Please see pages 14 to 19 of this report for important disclosures. **TDSECURITIES.COM**

Figure 2 - United States Oil and Oil Product Inventories



Source: Bloomberg, TD Cowen

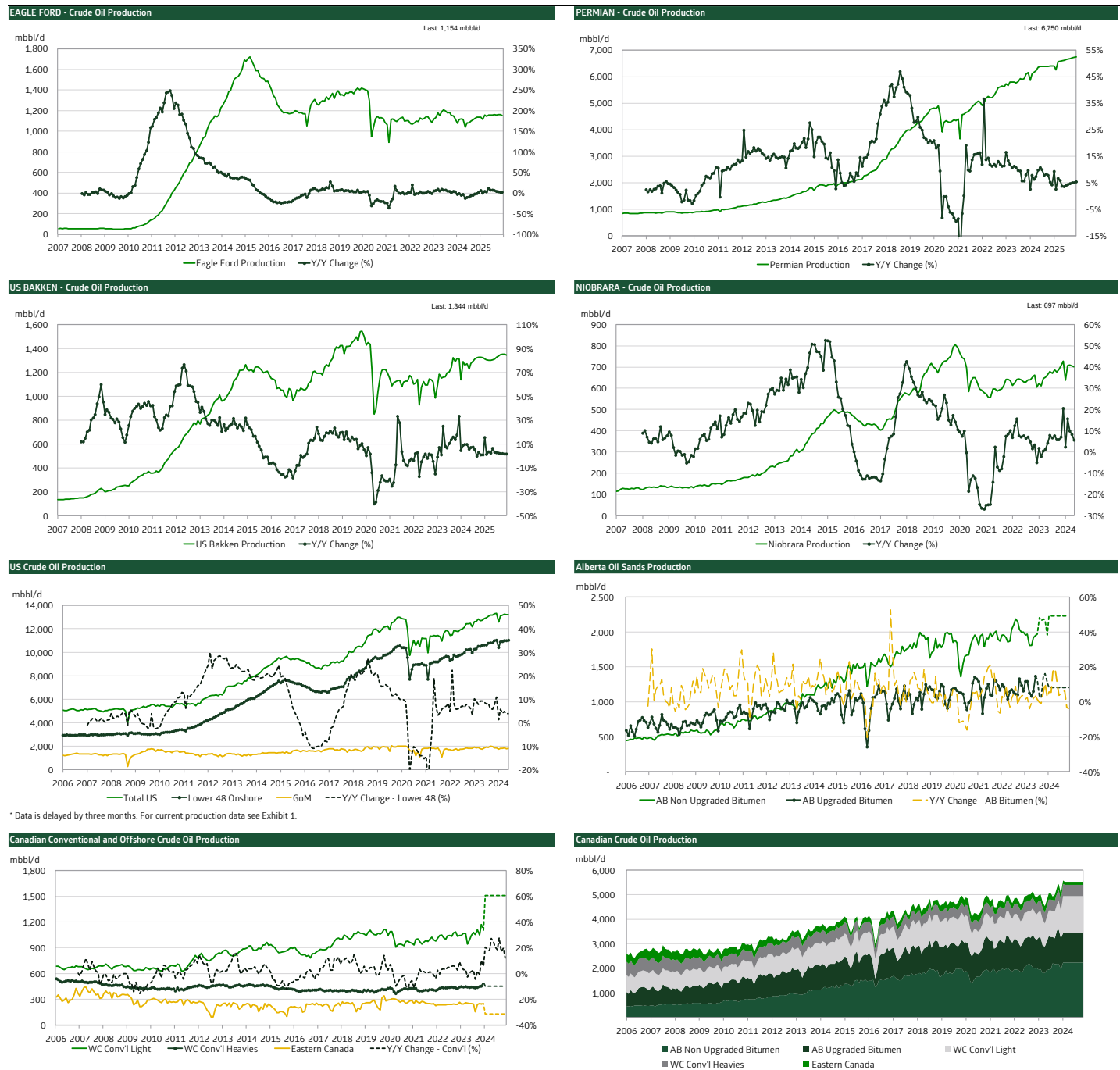
Figure 3 - United States Oil and Oil Product Inventories Cont'd (SPR Inventories and Releases)



Source: Bloomberg, TD Cowen

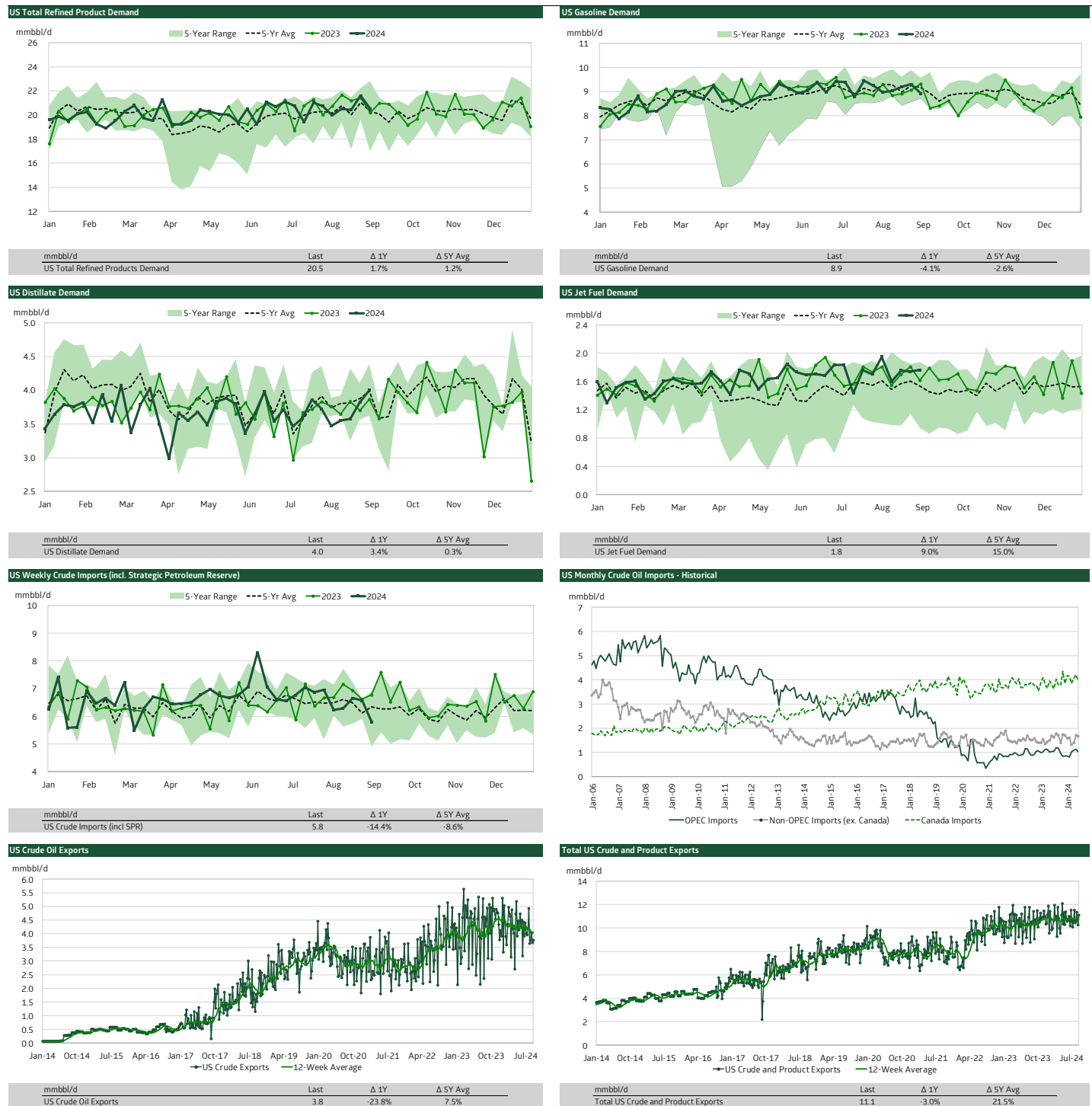
September 5, 2024

Figure 4 - Key Drivers of North American Supply Growth



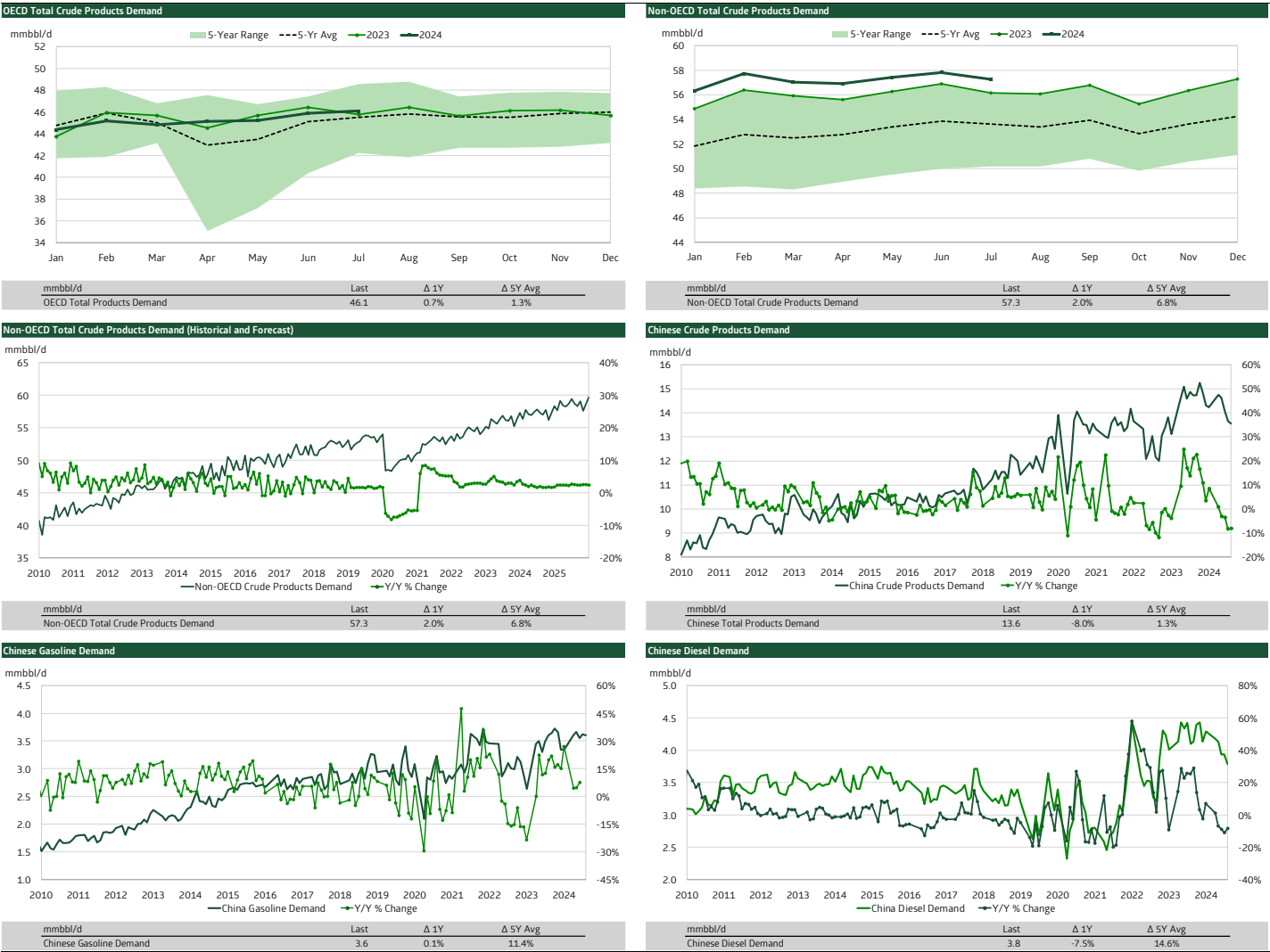
Source: Bloomberg, CER, TD Cowen

Figure 5 - United States Oil and Oil Product Demand



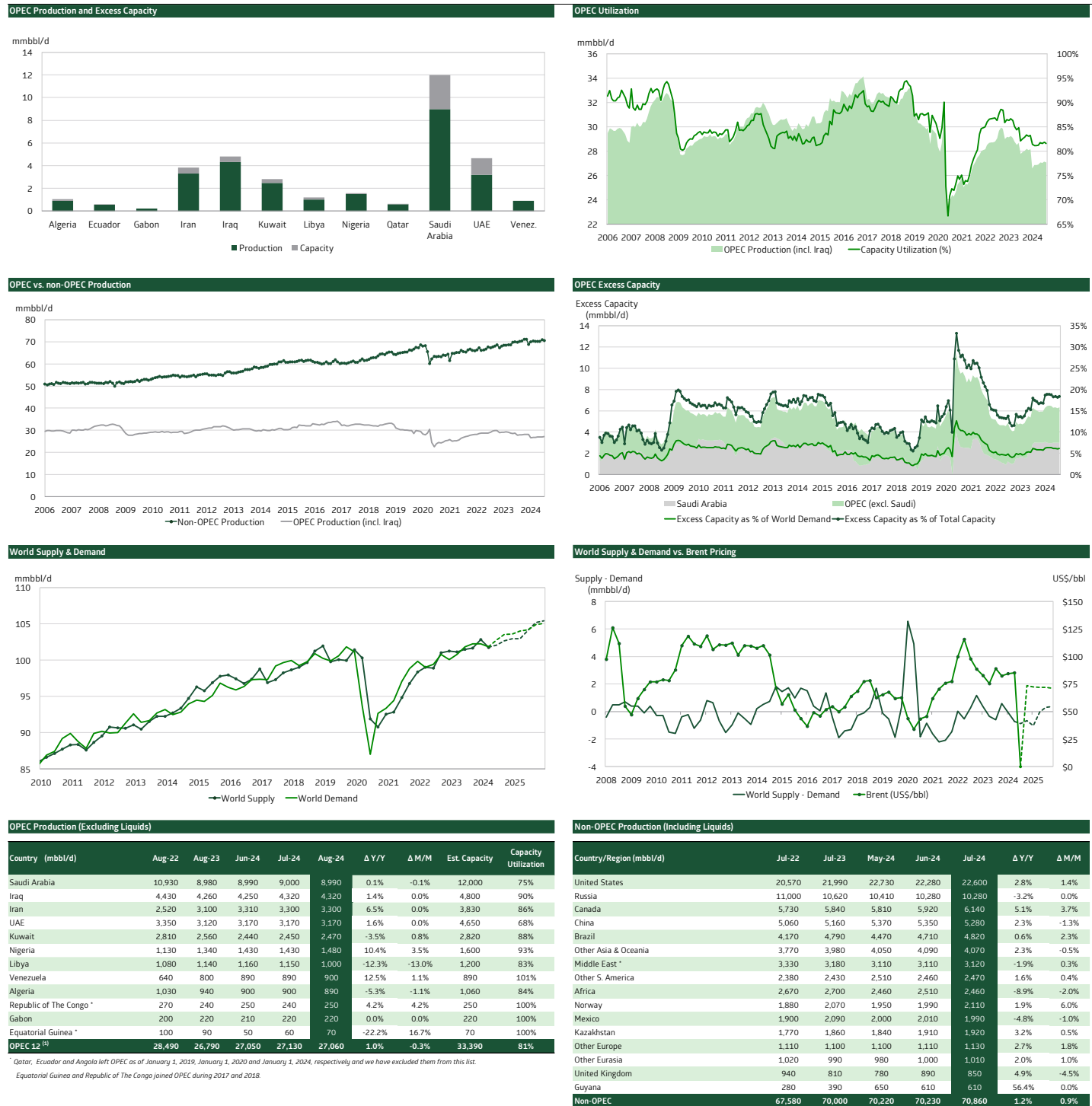
Source: Bloomberg, TD Cowen

Figure 6 - International Oil and Oil Product Demand



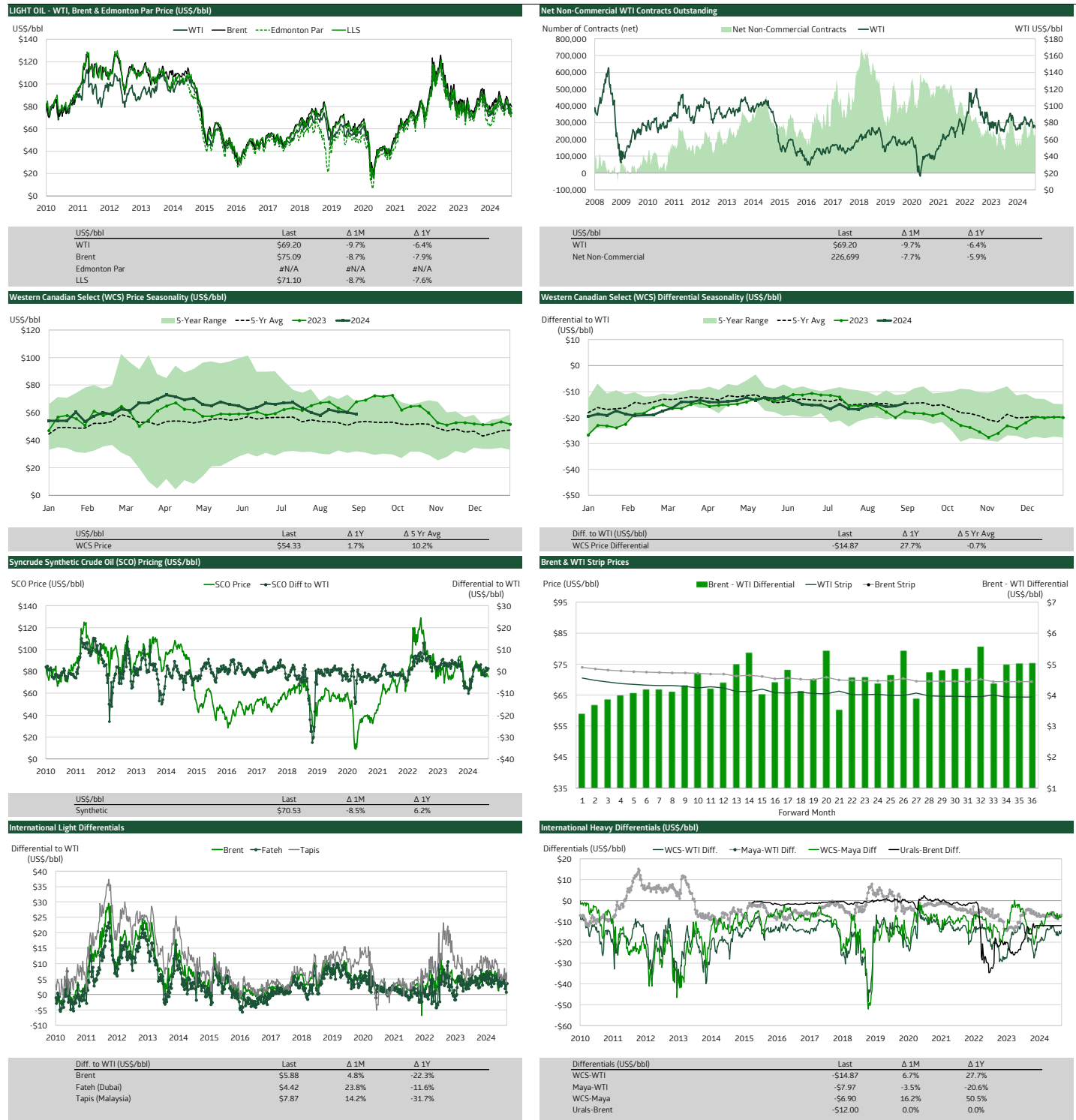
Source: Bloomberg, TD Cowen

Figure 7 - Global Supply Outlook



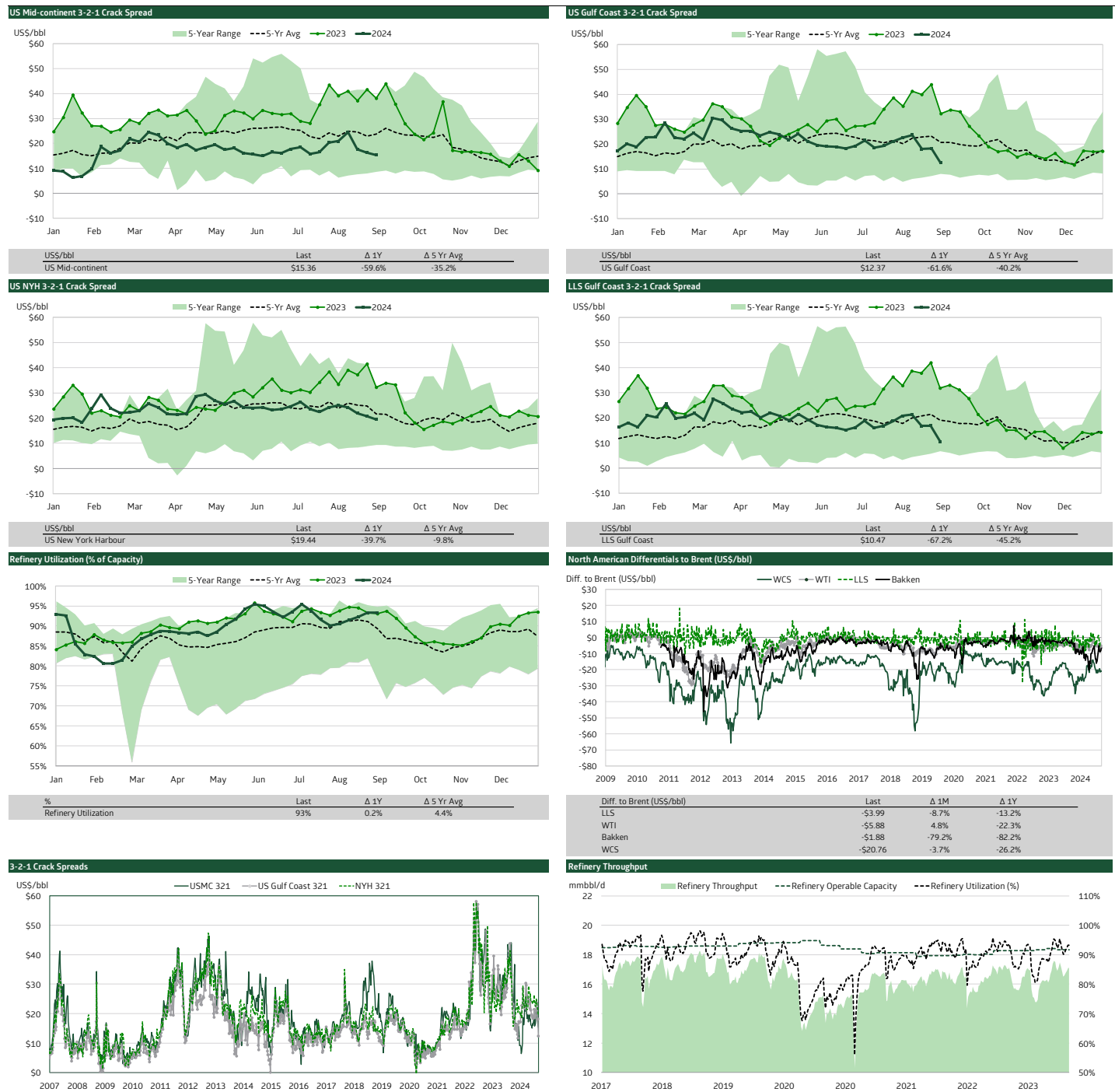
Source: Bloomberg, TD Cowen

Figure 8 - Pricing for Domestic and Global Benchmarks



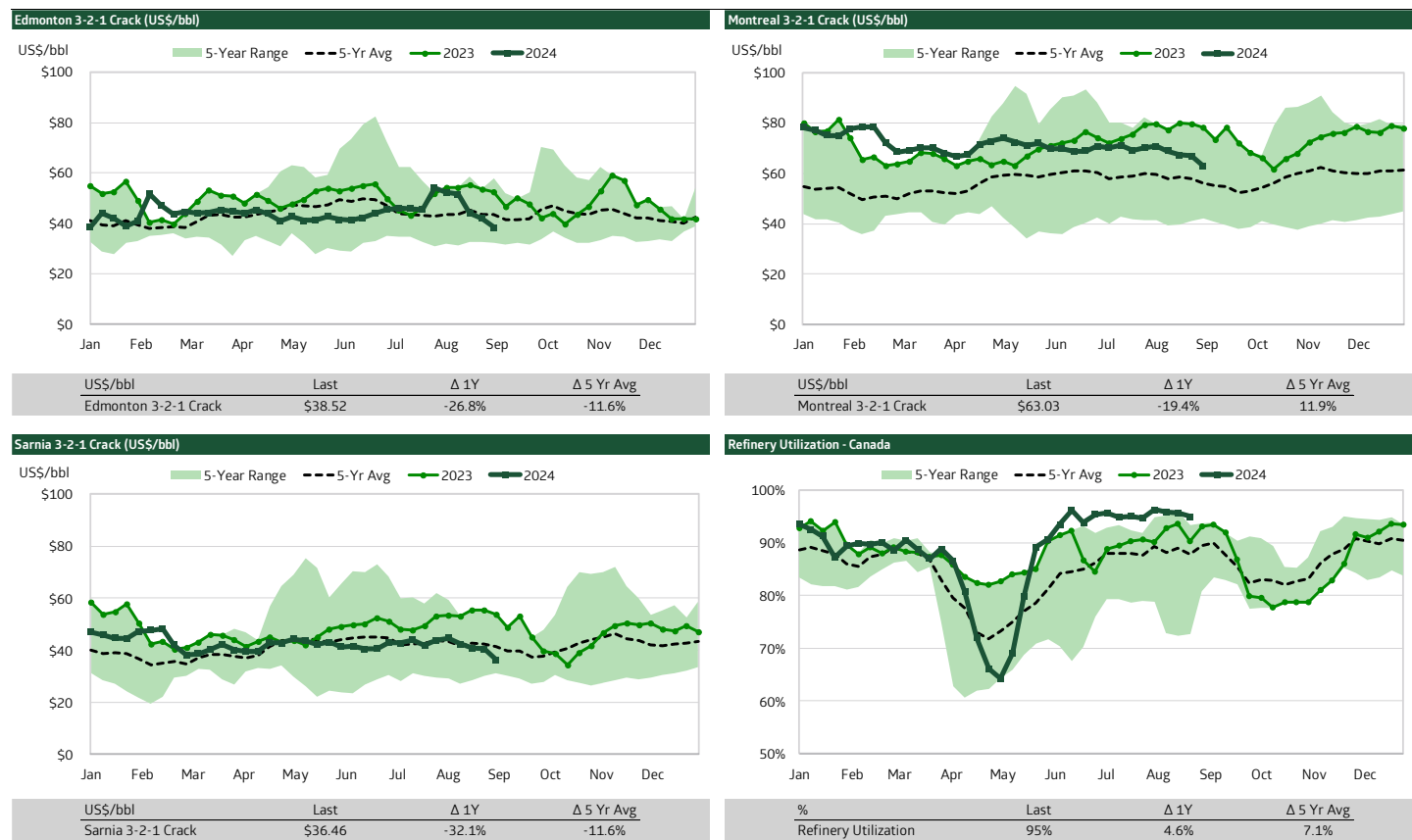
Source: Bloomberg, TD Cowen

Figure 9 - Refinery Profitability and Utilization



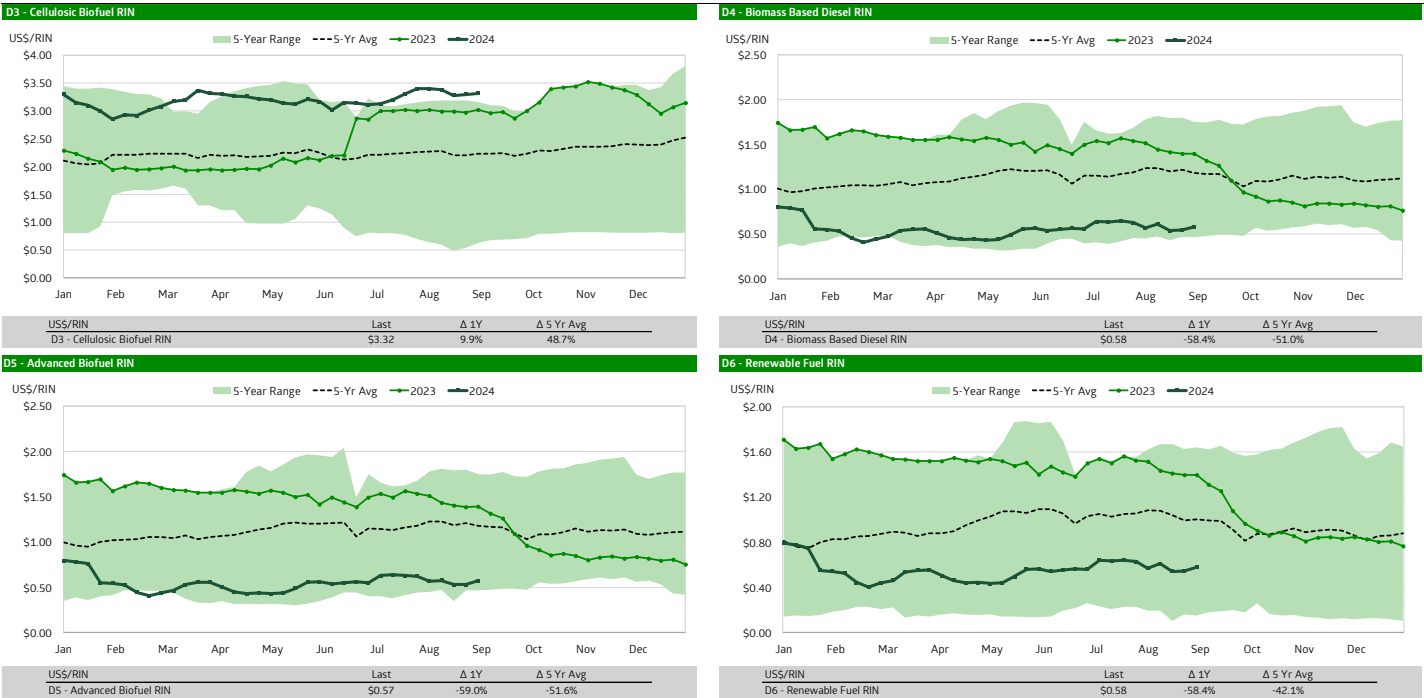
Source: Bloomberg, TD Cowen

Figure 10 - Refinery Profitability and Utilization - Canada



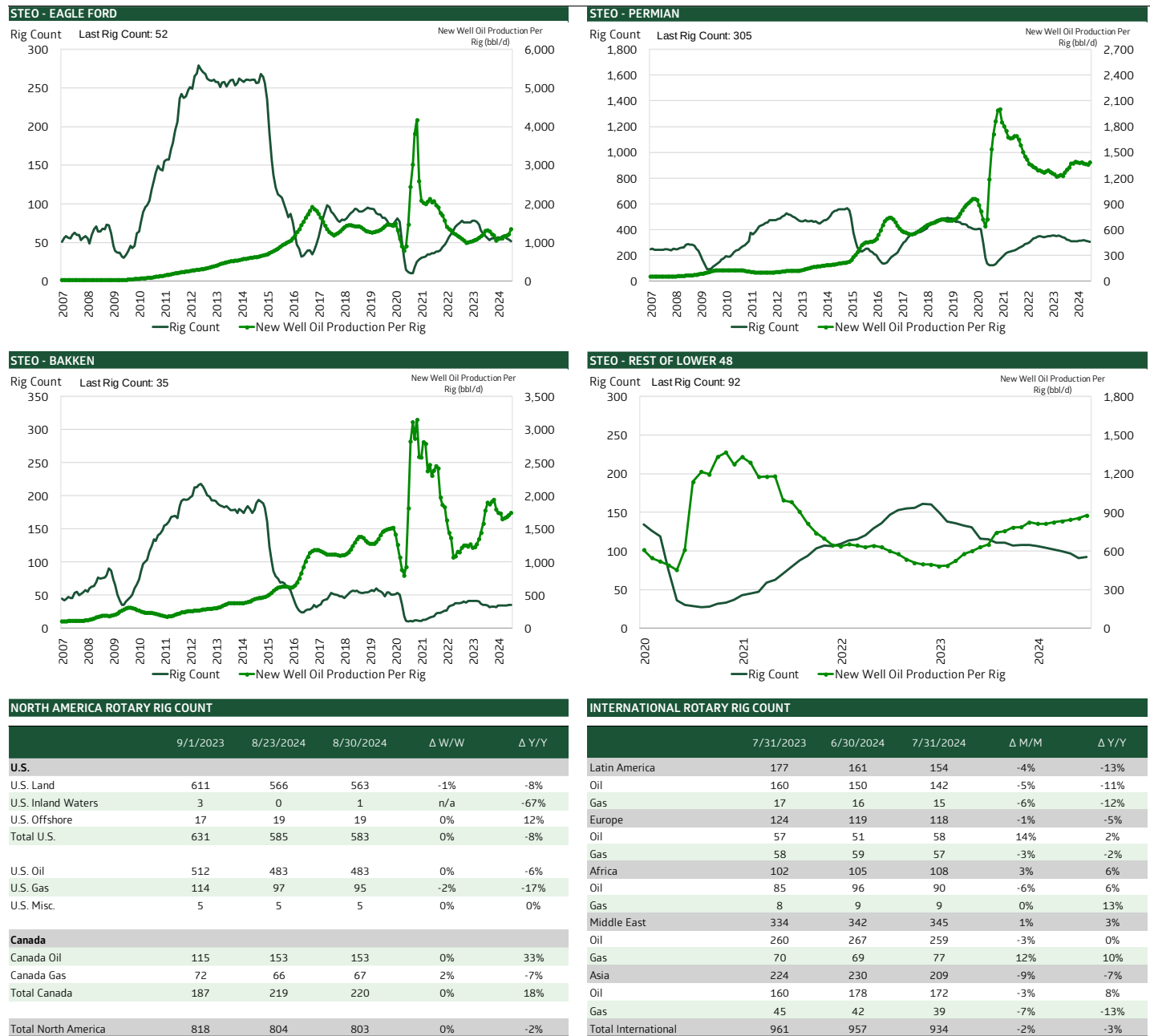
Source: Bloomberg, CER, TD Cowen

Figure 11 - U.S. Renewable Identification Numbers (RINs) Trading Prices



Source: Bloomberg, TD Cowen

Figure 12 - U.S. and International Rig Counts & Rig Productivity for Select U.S. Oil Plays



* Charts are now based on STEO data (was previously based on DPR data) and the Rest of Lower 48 includes Anadarko and Niobrara

Source: Bloomberg, TD Cowen

VALUATION METHODOLOGY AND RISKS

Valuation Methodology

Energy Producers:

Our target prices for the Canadian Integrations, E&Ps and Energy Royalties are derived through a combination of: i) a multiple (based on historical trading ranges) applied to forward Debt Adjusted Cash Flow (DACF), and ii) a DCF-based Net Asset Value estimate (NAV).

Investment Risks

Energy Producers:

Risks include: the loss of key employees, disappointing drilling results, volatile commodity prices, operating cost increases, capital cost overruns, product supply and demand, unplanned third-party infrastructure outages, financing/access to capital, government regulations, legislation, royalties, taxes, exchange rates, interest rates and environment and weather concerns.

ADDENDUM

Analyst Certification

Each author of this research report hereby certifies that (i) the views expressed in the research report accurately reflect his or her personal views about any and all of the subject securities or issuers, and (ii) no part of his or her compensation was, is, or will be related, directly or indirectly, to the specific recommendations or views expressed in this report.

Important Disclosures

TD Cowen compensates research analysts for activities and services intended to benefit the firm's investor clients. Individual compensation determinations for research analysts, including the author(s) of this report, are based on a variety of factors, including the overall profitability of the firm and the total revenue derived from all sources, including revenues from investment banking, sales and trading or principal trading revenues. TD Cowen does not compensate research analysts based on specific investment banking transactions or specific sales and trading or principal trading revenues.

Disclaimer

TD Cowen Research Reports: TD Cowen research reports are simultaneously available to recipients on our client website. Research reports are for our clients only. Not all research reports are disseminated, e-mailed or made available to third-party aggregators. TD Securities (USA) LLC is not responsible for the redistribution of TD Cowen research by third party aggregators. Selected research reports are available in printed form in addition to an electronic form. All published research reports can be obtained on the firm's client website, <https://tdcowenlibrary.bluematrix.com/client/library.jsp>.

THIS RESEARCH REPORT WAS PRODUCED SOLELY BY TD SECURITIES INC. IN ACCORDANCE WITH THE CANADIAN INVESTMENT REGULATORY ORGANIZATION'S DISCLOSURE REQUIREMENTS RELATING TO RESEARCH REPORTS.

RESEARCH ANALYSTS MARKED WITH * ON THE FRONT PAGE ARE NOT ASSOCIATED PERSONS OF TD SECURITIES (USA) LLC AND ARE NOT REGISTERED AS RESEARCH ANALYSTS UNDER FINRA RULES. SUCH RESEARCH ANALYSTS MAY NOT BE SUBJECT TO RULE 2241 RESTRICTIONS ON COMMUNICATIONS WITH A SUBJECT COMPANY, PUBLIC APPEARANCES AND TRADING SECURITIES HELD BY A RESEARCH ANALYST ACCOUNT.

"TD Securities" is a trademark of The Toronto-Dominion Bank ("TD") and represents certain investment banking, capital markets and wholesale banking activities conducted through certain subsidiaries and branches of The Toronto-Dominion Bank. "TD Cowen" is a division of TD Securities and represents a marketing name of certain businesses within TD Securities, including for TD Securities global research.

TD Cowen research is produced in the U.S. by TD Securities (USA) LLC, a wholly owned subsidiary of The Toronto-Dominion Bank. TD Securities (USA) LLC is a U.S. broker dealer registered with the U.S. Securities and Exchange Commission and is a member of the Financial Industry Regulatory Authority and of the Securities Investor Protection Corporation. TD Cowen research is produced in Canada by TD Securities Inc., a wholly owned subsidiary of The Toronto-Dominion Bank. TD Securities Inc. is regulated by the Canadian Investment Regulatory Organization of Canada, a member of the Canadian Investor Protection Fund and a member of Canadian Marketplaces.

This material is for general informational purposes only and is not investment advice nor does it constitute an offer, recommendation or solicitation to buy or sell a particular financial instrument. Recipients of this analysis or research report are to contact the representative in their local jurisdiction with regards to any matters or questions arising from, or in connection with, the analysis or research report.

The opinions and recommendations herein do not consider individual client circumstances, objectives, financial situation, risk profile or needs and are not intended as recommendations of investment strategy. The recipients of this research report must make their own independent decisions regarding any securities discussed in this research report. In some cases, securities and other financial instruments might be difficult to value or sell and reliable information about the value or risks related to the security or financial instrument is difficult to obtain.

This material, including any price, valuation, all opinions, estimates and other information constitute TD Cowen's judgment as of the date hereof and is subject to change without notice. The price, value of and income from any of the securities mentioned in this research report can fall as well as rise. Any market valuations contained herein are indicative values as of the time and date indicated. Such market valuations are believed to be reliable, but TD Cowen does not warrant their completeness or accuracy. Different prices and/or valuations may be available elsewhere and TD Cowen suggests that valuations from other sources be obtained for comparison purposes. Actual quotations could differ subject to market conditions and other factors.

Historic information regarding performance is not indicative of future results and investors should understand that statements regarding future prospects may not be realized. All investments entail risk, including potential loss of principal invested. Performance analysis is based on certain assumptions, the results of which may vary significantly depending on the modelling inputs assumed.

Other than disclosures relating to TD Securities (USA) LLC, TD Securities Inc. and its affiliates, the information herein is based on sources we believe to be reliable but has not been independently verified by us and does not purport to be a complete statement or summary of the available data. No representation is made that such information is accurate in all material respects, complete or up to date. We seek to update our research reports as appropriate, but various regulations may prevent us from doing so. Research reports are published at irregular intervals based on the research analyst's judgement.

To the extent that this research report discusses any legal proceedings or issues, it has not been prepared to express or intended to express any legal conclusion, opinion or advice. Our salespeople, traders and other professionals may provide oral or written market commentary or trading strategies to our clients that reflect opinions that are contrary to the opinions expressed in our research reports. Our principal trading area and investing businesses may make investment decisions that are inconsistent with recommendations or views expressed in our research reports.

TD Cowen disclaims any and all liability relating to the information herein, including without limitation any express or implied representations or warranties for, statements contained in, and omissions from, the information. TD Cowen is not liable for any errors or omissions in such information or for any loss or damage suffered, directly or indirectly, from the use of this information. TD Cowen may have effected or may effect transactions for its own account in the securities described herein. No proposed customer or counterparty relationship is intended or implied between TD Cowen and a recipient of this document.

TD Cowen makes no representation as to any tax, accounting, legal or regulatory issues. Investors should seek their own legal, financial and tax advice regarding the appropriateness of investing in any securities or pursuing any strategies discussed herein. Investors should also carefully consider any risks involved. Any transaction entered into is in reliance only upon the investor's judgment as to financial, suitability and risk criteria. TD Securities does not hold itself out to be an advisor in these circumstances, nor do any of its representatives have the authority to do so.

The information contained herein is not intended for distribution to, or use by, any person in any state or jurisdiction where such distribution or use would be contrary to applicable law or regulation, or which would subject TD Securities to additional licensing or registration requirements.

If you would like to unsubscribe from our email distribution lists at any time, please contact your TD Securities (USA) LLC or TD Securities, Inc. Sales Contact. If you are located in Europe, Asia, Australia or New Zealand you may also unsubscribe by emailing us at Privacy.EAP@tdsecurities.com.

You can access our Privacy Policy here http://www.tdsecurities.com/tds/content/AU_PrivacyPage.

For important disclosures regarding the companies that are the subject of this research report, please contact TD Securities (USA) LLC, Research Department, 599 Lexington Avenue, 20th Floor, New York, NY 10022 or TD Securities Inc. Research Department, 66 Wellington Street West Toronto, Ontario M5K 1A2. In addition, the same important disclosures, except for the valuation methods and risks, are available on the Firm's disclosure website at <https://tdcowen.bluematrix.com/sellside/Disclosures.action>.

Equity Research Price Targets: TD Cowen assigns price targets on all companies covered in equity research unless noted otherwise. The equity research price target for an issuer's stock represents the value that the analyst reasonably expects the stock to reach over a performance period of twelve months. Any price targets in equity securities in this report should be considered in the context of all prior published TD Cowen equity research reports (including the disclosures in any such equity report or on the Firm's disclosure website), which may or may not include equity research price targets, as well as developments relating to the issuer, its industry and the financial markets. For equity research price target valuation methodology and risks associated with the achievement of any given equity research price target, please see the analyst's equity research report publishing such targets. Recipients of this analysis or research report are to contact the representative in their local jurisdiction with regards to any matters or questions arising from, or in connection with, the analysis or research report.

Canada

No securities commission or similar regulatory authority in Canada has reviewed or in any way passed judgment upon this research report, the information contained herein, or the merits of the securities described herein, and any representation to the contrary is an offence.

Canadian clients wishing to effect transactions in any security discussed herein should do so through a qualified salesperson of TD Securities or TD Securities Inc. TD Securities Inc. is a member of the Canadian Investor Protection Fund and is regulated by Canadian Investment Regulatory Organization (CIRO).

Australia

If you receive this document and you are domiciled in Australia, please note that it is intended to be issued for general information purposes only and distributed to a person who is a wholesale client, as defined in the Corporations Act 2001 and Corporations Regulations 2001, by Toronto Dominion (South East Asia) Limited ("TDSEA"). TDSEA does not hold itself out to be providing financial advice in these circumstances. TD Securities is a trademark and represents certain investment dealing and advisory activities of The Toronto-Dominion Bank and its subsidiaries, including TDSEA. The Toronto-Dominion Bank is not an authorized deposit-taking or financial services institution in Australia. TDSEA is a holder of an Australian Financial Services License (528885) and is regulated in Australia by the Australian Securities and Investments Commission.

China, India, and South Korea

Insofar as the document is received by any persons in the People's Republic of China ("PRC"), India and South Korea, it is intended only to be issued to persons who have the relevant qualifications to engage in the investment activity mentioned in this document. The recipient is responsible for obtaining all relevant government regulatory approvals/licenses themselves and represents and warrants to The Toronto-Dominion Bank that the recipient's investments in those securities do not violate any law or regulation, including, but not limited to, any relevant foreign exchange regulations and/or overseas investment regulations. The Toronto-Dominion Bank has a representative office in Shanghai, Mumbai and Seoul which should be contacted for any general enquiry related to The Toronto-Dominion Bank or its business. However, neither any of the Toronto-Dominion Bank offshore branches/subsidiaries nor its representative offices are permitted to conduct business within the borders of the PRC, India and South Korea. In locations in Asia where the Bank does not hold licenses to conduct business in financial services, it is not our intention to, and the information contained in this document should not be construed as, conducting any regulated financial activity, including dealing in, or the provision of advice in relation to, any regulated instrument or product. This publication is for general information only, without addressing any particular needs of any individual or entity and should not be relied upon without obtaining specific advice in the context of specific circumstances.

Hong Kong SAR (China)

This document, which is intended to be issued in Hong Kong SAR (China) ("Hong Kong") only to Professional Investors within the meaning of the Securities and Futures Ordinance (the "SFO") and the Securities and Futures (Professional Investor) Rules made under the SFO, has been distributed through Toronto-Dominion Bank, Hong Kong Branch, which is regulated by the Hong Kong Monetary Authority and the Securities and Futures Commission.

Japan

For Japanese residents, please note that if you have received this document from The Toronto-Dominion Bank entities based outside Japan, it is being provided to qualified financial institutions ("QFI") only under a relevant exemption to the Financial Instruments and Exchange Act.

If you have received this document from TD Securities (Japan) Co., Ltd., it is being provided only to institutional investors. TD Securities (Japan) Co., Ltd. is regulated by the Financial Services Agency of Japan and is distributing this document in Japan as a Type 1 Financial Instruments Business Operator registered with the Kanto Local Finance Bureau under registration number, Kinsho 2992, and a member of Japan Securities Dealers Association.

New Zealand

The Toronto-Dominion Bank is not a "registered bank" in New Zealand under the Reserve Bank Act 1989.

Singapore

This report is distributed in Singapore by The Toronto-Dominion Bank, Singapore Branch, and recipients in Singapore of this report are to contact The Toronto-Dominion Bank, Singapore Branch in respect of any matters arising from, or in connection with, this report. The Toronto-Dominion Bank, Singapore Branch is regulated by the Monetary Authority of Singapore. Where this report is issued or promulgated in Singapore, it is only intended for distribution to a person who is an accredited investor, expert investor or institutional investor as defined in the Securities and Futures Act (Cap. 289), the Securities and Futures (Prescribed Specific Classes of Investors) Regulations 2005, or the Securities and Futures (Classes of Investors) Regulations 2018 issued by the Monetary Authority of Singapore.

United Kingdom and Europe

TD Securities' principal trading area and investing businesses may make investment decisions that are inconsistent with recommendations or views expressed in our research. TD Securities maintains physical, electronic and procedural information barriers to address the flow of information between and among departments within TD Securities, as well as its affiliates. Additionally, the persons who are not involved with the production of the recommendation but are reasonably expected to have access to the recommendation prior to its completion are subject to policies and procedures preventing them to trade related to expected recommendation. Research department related policies are designed to prevent, monitor, surveil and avoid appearance of conflicts of interest with respect to the persons or associated persons involved in the production of the recommendation. This research report is to be communicated only to persons of a kind described in Articles 19 and 49 of the Financial Services and Markets Act 2000 (Financial Promotion) Order 2005. It must not be further transmitted to any other person without our consent. The Toronto-Dominion Bank and TD Bank Europe Limited ("TDBEL") are regulated for investment business conducted in

the UK by the UK Financial Conduct Authority. TD Global Finance unlimited company is regulated for investment business conducted in Ireland by the Central Bank of Ireland. Cowen Execution Services Limited is authorized and regulated in the UK by the Financial Conduct Authority.]

The Toronto-Dominion Bank and TD Bank Europe Limited are regulated for investment business conducted in the UK by the UK Financial Conduct Authority. TD Global Finance unlimited company is regulated for investment business conducted in Ireland by the Central Bank of Ireland. This document is prepared, issued or approved for issuance in the UK by the Toronto-Dominion Bank, TDBEL and/or in Europe by TD Global Finance unlimited company in respect of investment business. Insofar as the document is issued in or to the United Kingdom, it is intended only to be issued to persons who (i) are persons falling within Article 19(5) ("Investment professional") of the Financial Services and Markets Act 2000 (Financial Promotion) Order 2005 (as amended, the "Financial Promotion Order"), (ii) are persons falling within Article 49(2)(a) to (d) ("High net worth companies, unincorporated associations, etc.") of the Financial Promotion Order, or (iii) are persons to whom an invitation or inducement to engage in investment activity (within the meaning of section 21 of the Financial Services and Markets Act 2000) in connection with the issue or sale of any securities may otherwise lawfully be communicated or caused to be communicated. Insofar as the document is issued in or to the European Union, it is intended only to be issued to persons categorized as 'Per Se Professional' or 'Eligible Counterparties' as defined in S.I. No 375 of 2017, European Union (Markets in Financial Instruments) Regulations 2017, Schedule 2. Clients in the United Kingdom wishing to effect transactions in any security discussed herein should do so through a qualified salesperson of TD Bank Europe Limited. European clients wishing to effect transactions in any security discussed herein should do so through a qualified salesperson of TD Global Finance unlimited company. Article 20 Market Abuse Regulation 596/2014 ("MAR") requires market participants who produce or disseminate Investment Recommendations or other information recommending or suggesting an investment strategy to take reasonable care that such information is objectively presented, and to disclose their interests or indicate conflicts of interest.

In accordance with the MAR requirements, see the Investment Recommendations Disclaimer for relevant information in relation to The Toronto-Dominion Bank – London Branch, TDBEL and TD Global Finance unlimited company. <https://www.tdsecurities.com/tds/document/MAR-IR-Disclaimer>

Additional Notice to European Union Investors: Individuals producing recommendations are required to obtain certain licenses by the Financial Regulatory Authority (FINRA). You can review the author's current licensing status and history, employment history and, if any, reported regulatory, customer dispute, criminal and other matters via "Brokercheck by FINRA" at <http://brokercheck.finra.org/>. An individual's licensing status with FINRA should not be construed as an endorsement by FINRA. General biographical information is also available for each Research Analyst at www.tdcowen.com.

Additionally, the complete preceding 12-month recommendations history related to recommendation in this research report is available at [https://tdcowen.bluematrix.com/sellside/ Disclosures.action](https://tdcowen.bluematrix.com/sellside/Disclosures.action)

The recommendation contained in this report was produced at September 5, 2024, 14:35ET, and disseminated at September 5, 2024, 14:35ET.

Copyright, User Agreement and other general information related to this report.

Copyright © 2024 The Toronto-Dominion Bank and/or its affiliates. All Rights Reserved. The TD logo and other TD trademarks are the property of The Toronto-Dominion Bank or its subsidiaries. This research report is prepared for the exclusive use of TD Cowen clients and may not be copied, reproduced, posted, displayed, modified, redistributed, transmitted, or disclosed, in whole or in part, or in any form or manner, to others outside your organization without the express prior written consent of TD Cowen. Any unauthorized use or disclosure is prohibited. Receipt and review of this research constitutes your agreement not to reproduce, display, modify, distribute, transmit, or disclose to others outside your organization.

TD Cowen: Atlanta 866 544 7009 **Boston** 617 946 3700 **Calgary** 403 299 8572 **Chicago** 312 577 2240 **Cleveland** 440 331 3531 **Montreal** 514 289 1500 **New York** 646 562 1010 **San Francisco** 415 646 7200 **Stamford** 646 616 3000 **Toronto** 416 944 6978 **Vancouver** 604 654 3332

TD COWEN EQUITY RESEARCH RATING DEFINITIONS

As of April 1, 2024, The Research Department of Cowen and Company, LLC merged into TD Securities (USA) LLC.

TD Cowen Equity Research Ratings Definitions applicable as of April 1, 2024 are as follows:

Buy (1): The stock is expected to achieve total return of +15% or more over the next 12 months

Hold (2): The stock is expected to achieve a total return that falls between -10% to +15% over the next 12 months

Sell (3): The stock is expected to achieve a total return of -10% or below over the next 12 months

Suspended (4): Due to evolving circumstances and potential conflicts of interest, we can no longer generate what we consider a defensible rating at the current time

Assumption: The expected total return calculation includes annual return and forecasted dividend yield

Cowen and Company, LLC Equity Research Rating Definitions applicable from 6:00PM ET March 22, 2024

Buy (1): The stock is expected to achieve total return of +15% or more over the next 12 months

Hold (2): The stock is expected to achieve a total return that falls between -10% to +15% over the next 12 months

Sell (3): The stock is expected to achieve a total return of -10% or below over the next 12 months

Suspended (4): Due to evolving circumstances and potential conflicts of interest, we can no longer generate what we consider a defensible rating at the current time

Assumption: The expected total return calculation includes annual return and forecasted dividend yield

Cowen and Company, LLC Equity Research Rating Definitions applicable until 5:59PM ET March 22, 2024

Outperform (1): The stock is expected to achieve a total positive return of at least 15% over the next 12 months

Market Perform (2): The stock is expected to have a total return that falls between the parameters of an Outperform and Underperform over the next 12 months

Underperform (3): Stock is expected to achieve a total negative return of at least 10% over the next 12 months

Assumption: The expected total return calculation includes anticipated dividend yield

TD Securities, Inc. Equity Research Rating Definitions applicable from 6:00PM ET March 22, 2024

Buy (1): The stock is expected to achieve total return of +15% or more over the next 12 months

Hold (2): The stock is expected to achieve a total return that falls between -10% to +15% over the next 12 months

Sell (3): The stock is expected to achieve a total return of -10% or below over the next 12 months

Suspended (4): Due to evolving circumstances and potential conflict of interest, we can no longer generate what we consider a defensible rating at the current time.

Assumption: The expected total return calculation includes annual return and forecasted dividend yield

TD Securities, Inc. Equity Research Rating Definitions applicable until 5:59PM ET March 22, 2024

Action List Buy: The stock's total return is expected to exceed a minimum of 15% (with higher thresholds for less liquid, more risky securities) over the next 12 months and it is a top pick in the Analyst's sector.

Buy: The stock's total return is expected to exceed a minimum of 10% (with higher thresholds for less liquid, more risky securities) over the next 12 months.

Speculative Buy: The stock's total return is expected to exceed a minimum of 30% over the next 12 months (with higher thresholds for less liquid securities); however, there is material event risk associated with the investment that could result in a significant loss.

Hold: The stock's total return is expected to be between 0% and 10%, (with higher thresholds for less liquid, more risky securities) over the next 12 months.

Tender: Investors are advised to tender their shares to a specific offer for the company's securities or to support a proposed combination reflecting our view that a superior offer is not forthcoming.

Reduce: The stock's total return is expected to be negative over the next 12 months.

Suspended: Due to evolving circumstances, we can no longer generate what we consider a defensible target price and rating at the current time.

Under Review: Our rating is under review pending additional information and/or analysis. The prior rating should not be relied on.

Not Rated: We do not currently produce a recommendation and a target price on this security.

TD Cowen Equity Research Rating Distribution

Distribution of Ratings/Investment Banking Services (IB) as of 06/30/24

Rating	Count	Ratings Distribution	Count	IB Services/Past 12 Months
Buy	833	67.34%	284	34.09%
Hold	395	31.93%	89	22.53%
Sell	9	0.73%	1	11.11%

TD Cowen Equity Research Rating Distribution Table does not include any subject company for which the equity research rating is currently suspended.

POINTS OF CONTACT

Analyst Profiles



Menno Hulshof, CFA^
Calgary

Menno Hulshof is a managing director and senior research analyst covering the Canadian energy sector. He first joined TD Cowen in 2003.



Dustin Besaw, CFA^
Calgary

Dustin Besaw, CFA is a Vice President covering Energy. He joined TD Cowen in 2015 and has been in capital markets since 2008.



Aaron Bilkoski^
Calgary

Aaron Bilkoski is a Calgary-based senior analyst covering Canadian E&Ps and North American energy royalties. He joined TD Cowen in 2009.



Jenna Weir, CFA^
Calgary

Jenna Weir is an associate covering the Canadian energy sector. She joined TD Cowen in 2022 and is a CFA charterholder.



Aaron MacNeil, CA^
Calgary

Aaron MacNeil is a director covering the energy services and cleantech sectors. He joined TD Cowen in 2017.



Samuel Babarinde, CFA^
Calgary

Samuel Babarinde is an associate covering the Canadian energy sector. He joined TD Cowen in 2022 and holds an MBA from Rotman.

Reaching TD Cowen

North American Locations

Atlanta 3424 Peachtree Road NE Suite 2200 Atlanta, GA 30326 866 544 7009	Boston Two International Place Boston, MA 02110 617 946 3700 800 343 7068	Calgary 36th Floor, TD Canada Trust Tower 421 - 7th Avenue, S.W. Calgary, Alberta T2P 4K9 403 299 8572	Chicago 181 West Madison Street Suite 3135 Chicago, IL 60602 312 577 2240
Cleveland 20006 Detroit Road Suite 100 Rocky River, OH 44116 440 331 3531	Montreal 1 Place Ville Marie, Suite 1430 Montreal, Quebec H3B 2B2 514 289 1500	New York One Vanderbilt Avenue New York, NY 10017 212 827 7000	San Francisco One Maritime Plaza, 9th Floor San Francisco, CA 94111 800 858 9316
Stamford 262 Harbor Drive Stamford, CT 06902 646 616 3000	Toronto P.O Box 1, TD Bank Tower 66 Wellington Street West Toronto, Ontario M5K 1A2 416 944 6978	Vancouver TD Tower 700 West Georgia Street, Suite 1700 Vancouver, British Columbia V7Y 1B6 604 654 3332	Washington, D.C. 2900 K Street, NW Suite 520 Washington, DC 20007 202 868 5300

International Location

Cowen Execution Services Limited

London
1 Snowden Street - 11th
Floor
London EC2A 2DQ
United Kingdom
44 20 7071 7500

