## **S&P Global**

Commodity Insights

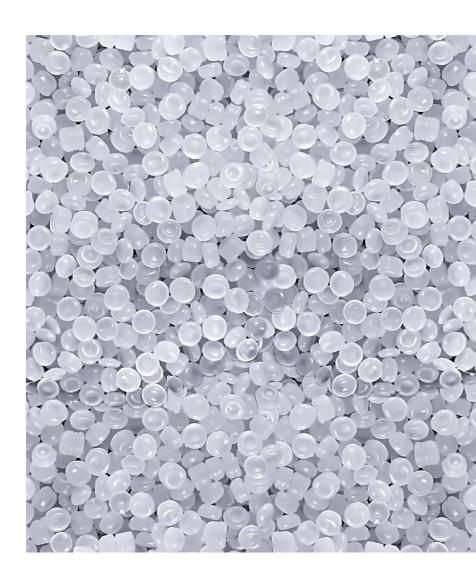
# Canadian Petrochemical Feedstock Update

Prepared for:



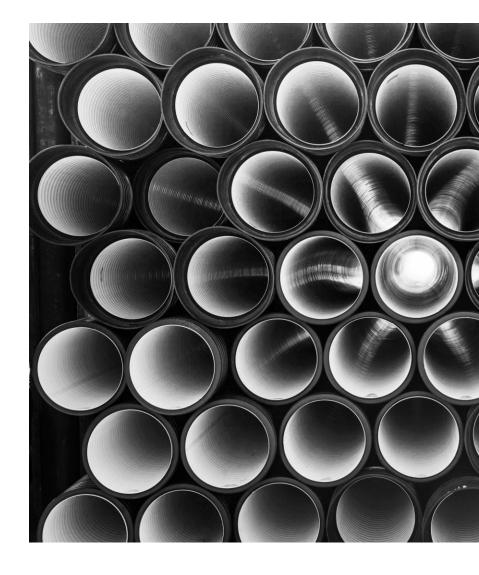
Jordan Woloschuk / Commodity Insights / Associate Director

June 2024



## Agenda

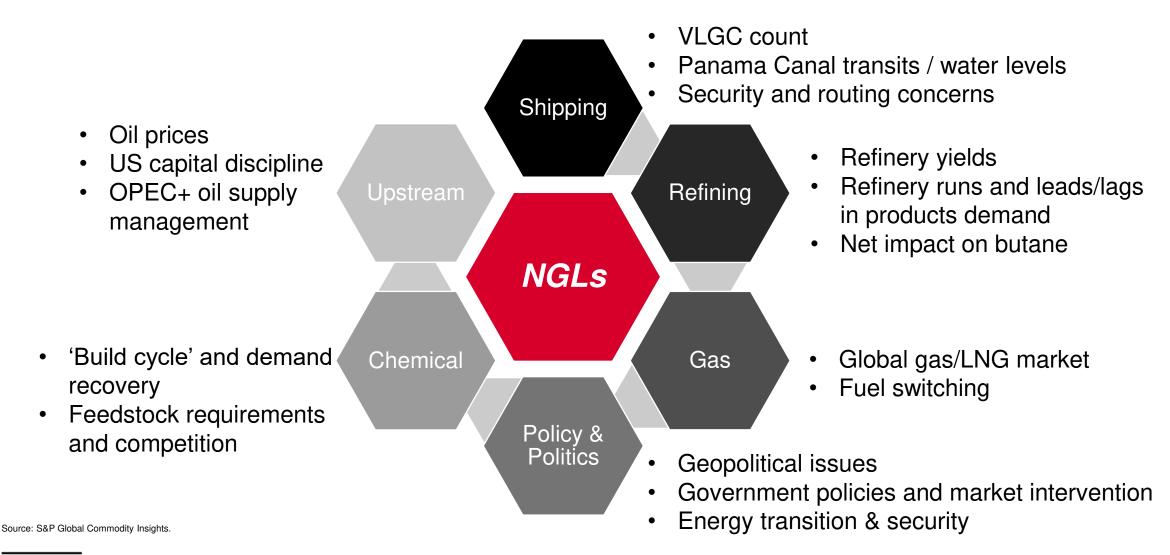
- Canadian Petrochemical Feedstock Update
  - -Global NGL Market Update
  - -Canada NGL Market Update
    - Ethane
    - Propane



## Global NGL Market Update



# NGL markets are shaped by and constantly react to the changes in adjacent markets as well as broader global developments



# Global economic expansion continues to edge higher, but at a mixed rate; meanwhile core inflation rates expected to remain stubborn

## Real GDP (% change)

Region	2023	2024	2025	2026
World	2.7	2.7	2.7	2.7
United States	2.5	2.5	1.6	1.6
Canada	1.1	1.5	2.0	2.0
Brazil	2.9	2.1	2.4	2.4
Eurozone	0.6	0.7	1.5	1.5
United Kingdom	0.1	0.5	1.1	1.2
Russia	3.6	3.1	2.5	2.0
Mainland China	5.2	4.8	4.5	4.5
Japan	1.9	0.8	1.1	0.9
India*	7.4	6.7	6.3	6.2

Data compiled May 15, 2024.

Source: S&P Global Market Intelligence.

## **Consumer prices (% change)**

Region	2023	2024	2025	2026
World	5.7	4.8	3.3	2.9
United States	4.1	3.3	2.2	2.4
Canada	3.9	2.7	2.0	2.0
Brazil	4.6	3.8	3.3	3.2
Eurozone	5.4	2.5	2.0	1.9
United Kingdom	7.3	2.5	1.9	1.8
Russia	5.9	5.9	4.7	4.5
Mainland China	0.2	0.8	1.7	2.0
Japan	3.3	2.4	2.2	1.7
India	5.7	5.2	4.9	5.1

Data compiled May 15, 2024

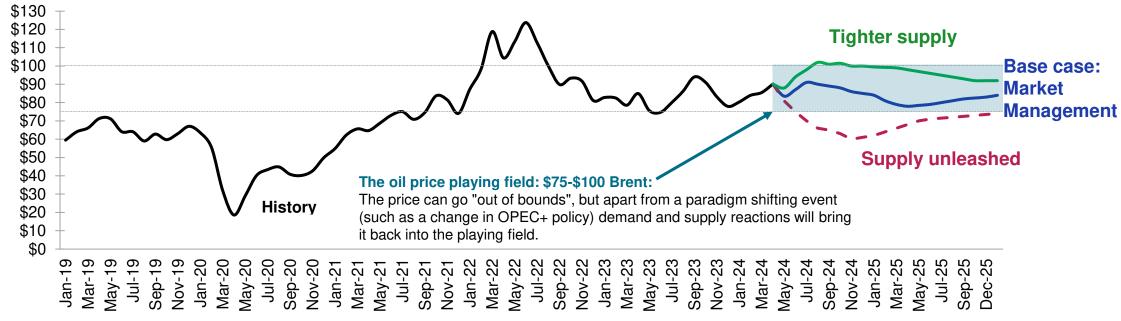
Source: S&P Global Market Intelligence.

## Stronger economic growth will support greater energy demand; however, lingering inflationary pressures leads to uncertainties

<sup>\*</sup> Fiscal year starting April 1, 2023.

## OPEC+ supply restraint is key to keeping oil prices within the \$75-100/b range through 2024 and 2025...

#### S&P Global Commodity Insights Dated Brent price outlook (\$/b)



#### **Market management (base case):**

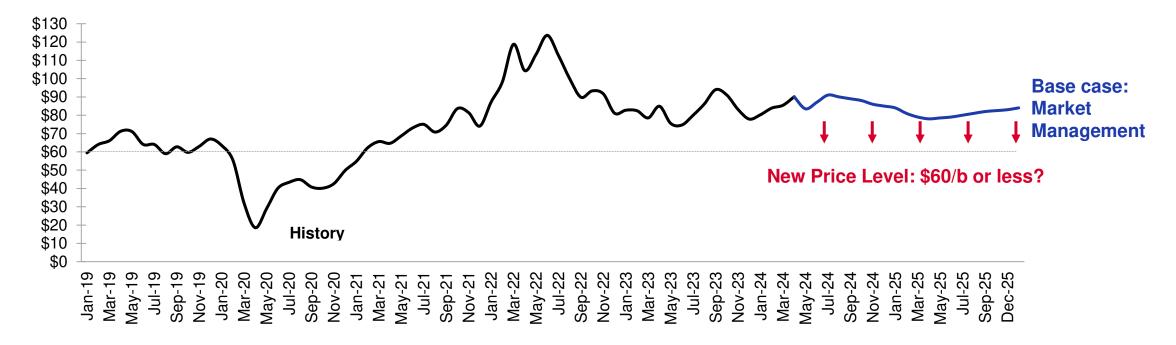
- Saudi Arabia and Russia decide to extend their unilateral cuts until 2024. OPEC+ also agrees to implement an additional shared cut of 1 million b/d in 2025 to limit surpluses and maintain prices above \$70/b. Without these measures, production is expected to increase, leading to the risk of significantly lower oil prices.
- The growth of US production, while slowing down, continues to be the main driver of non-OPEC+ supply increases.

Data compiled May 16, 2024 Source: S&P Global Commodity Insights.

S&P Global Commodity Insights

# However, on June 2, 2024, OPEC+ announced plans to roll back voluntary production cuts beginning in October 2024, increasing the risk of weaker oil prices

S&P Global Commodity Insights Dated Brent price outlook (\$/b)



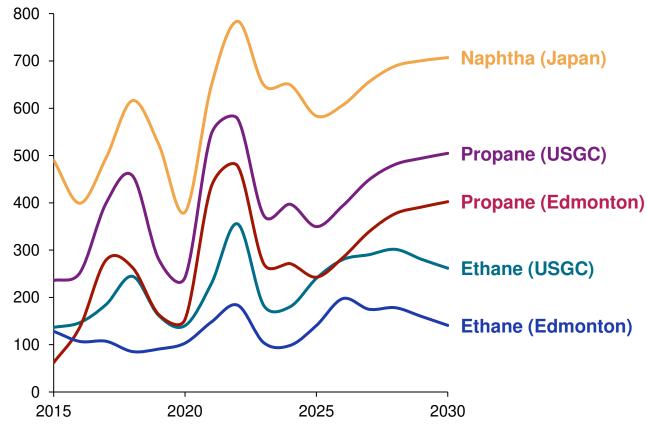
Current cuts would be extended through September 2024, with a gradual increase in OPEC+ crude oil production by nearly 2.5 million b/d from October 2024 to September 2025; increases the likelihood of even weaker oil prices...

Data compiled June 4, 2024. Source: S&P Global Commodity Insights.



# The relationship between ethane and competing feedstocks will change over the long-term due to declining oil demand; ethane still expected to remain competitive

## Feedstock price comparison (\$/metric tons - Constant 2023 \$US)



Data compiled Feb. 29, 2024.

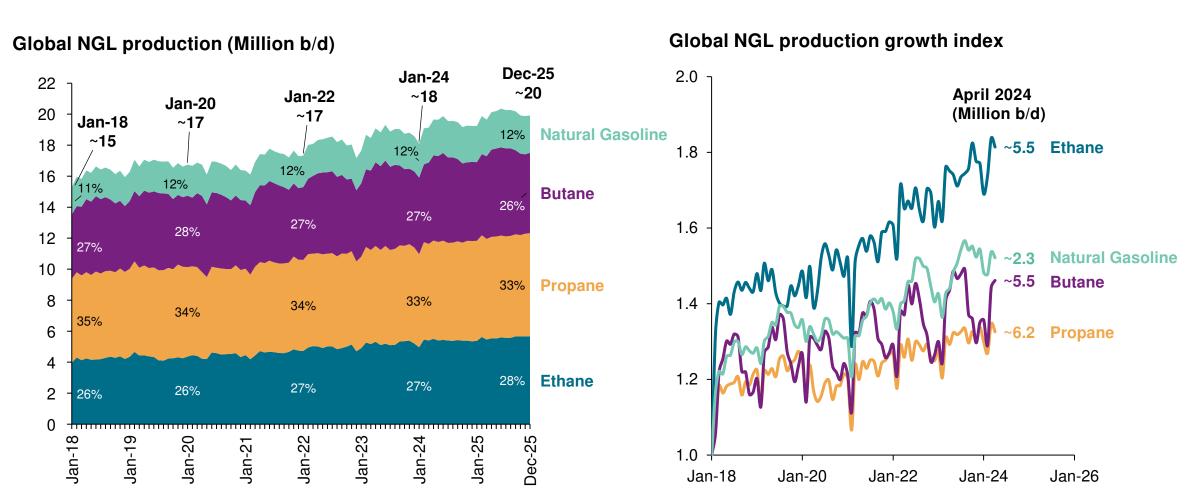
Note: Estimated Edmonton ethane price is calculated based on the AECO natural gas price and an assumed extraction premium. Source: S&P Global Commodity Insights

Strong price advantage exists for Canadian feedstocks compared to other feedstock supplies

- By comparing the prices of naphtha, propane, and ethane on a long-term annual average basis historically and forecasting future trends, one can gain insight into the advantages of North American NGLs as petrochemical feedstocks.
  - Price difference illustrates the value of importing U.S. ethane for the production of ethylene in Asia.
- Ethane will continue to remain significantly lower than both propane and naphtha.
  - A longer-term increase in ethane post-2030 is expected to be linked to higher natural gas prices, driven by increased costs of supply from areas outside the Permian Basin.
- Demand for naphtha over the longer-term will increase in price, while LPG supply tightens.



# Global NGL production will steadily increase over the short-term; ethane production growth rate higher due to strong petrochemical demand



Data compiled May. 31, 2024.

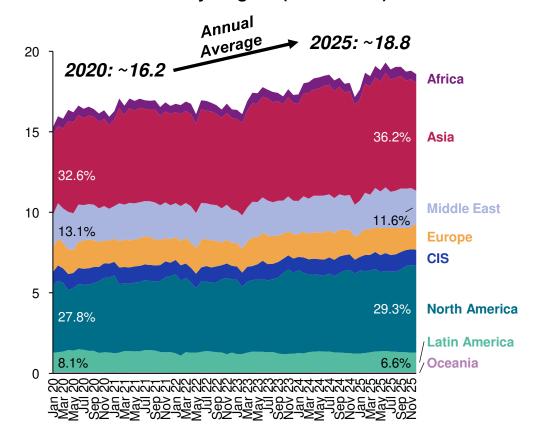
Notes: Global demand estimates based of monthly STO and ASW reports (May 2023). Global demand balance based off prior month regional outlooks. Monthly data is only available for select countries. For all other regions, a monthly average has been assumed based on the annual figure. Includes demand for C2, C3, C4, and C5+. NGL production from both gas processing/fractionation facilities and refineries. Does not include other production or net storage withdrawals.

Source: S&P Global Commodity Insights

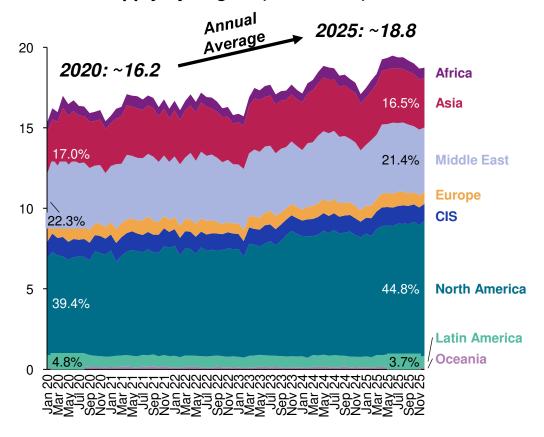


# North America will play a greater role in supplying NGLs, while Asia will account for the largest and fastest-growing share of global demand

#### Global NGL Demand by Region (Million b/d)



## Global NGL Supply by Region (Million b/d)



Data compiled May. 31, 2024.

Notes: Global demand estimates based of monthly STO and ASW reports (May 2023). Global demand balance based off prior month regional outlooks. Monthly data is only available for select countries. For all other regions, a monthly average has been assumed based on the annual figure. Includes demand for C2, C3, C4, and C5+.

Source: S&P Global Commodity Insights

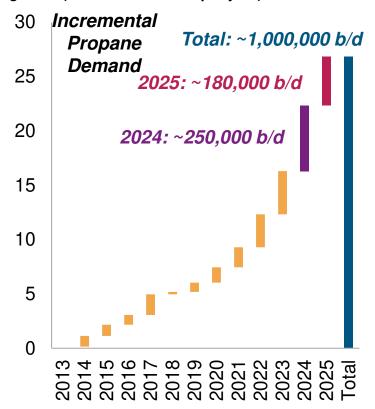




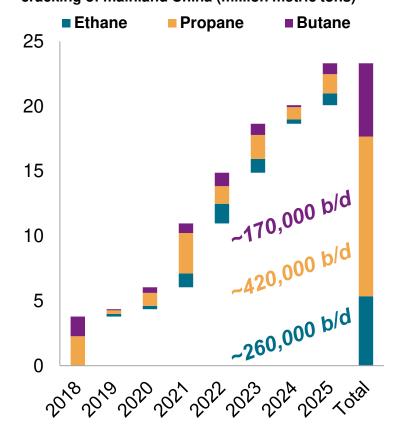
# Asia will continue to drive the growth of LPG demand for olefins in the world, however.....

Incremental LPG demand from mainland China for PDH and stream cracking dominates the demand growth

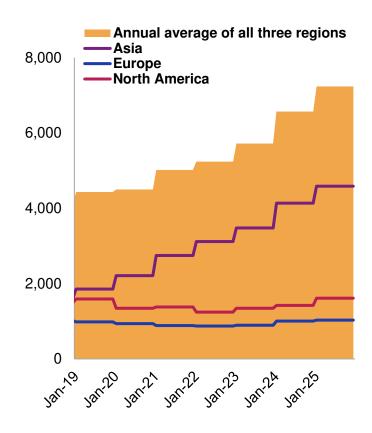
PDH capacity of mainland China: year-over-year growth (million metric tons per year)



Year-over-year growth of NGL demands for steam cracking of mainland China (million metric tons)



LPG demand for olefins: Asia, Europe and North America (million metric tons)



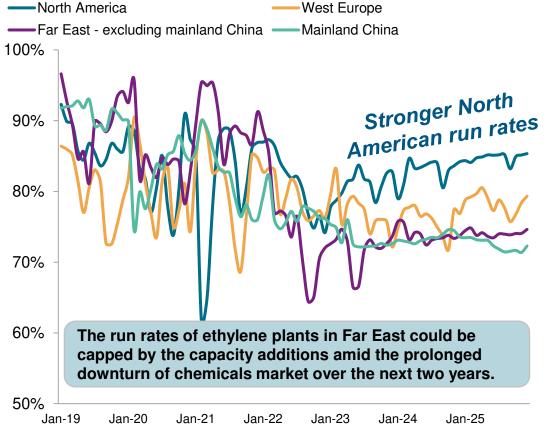
Data compiled May 2024.

Source: S&P Global Commodity Insights

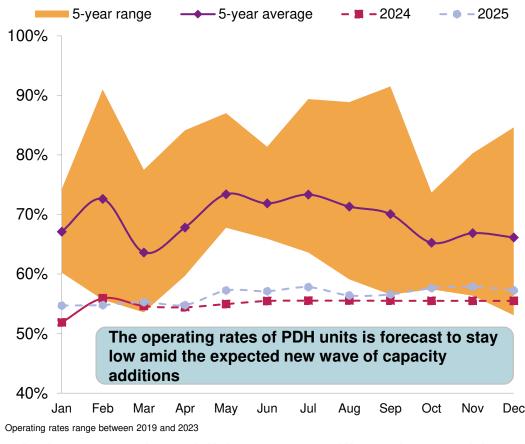


# Given the projected weak chemicals market, the run rates of olefins plants in Asia could stay low over the foreseeable future

## Run rates of global ethylene plants North America



#### Run rates of PDH units in mainland China



Despite the subdued run rates of olefins plants, the massive new olefins capacity additions can still push to achieve

Data compiled May 2024.

Source: S&P Global Commodity Insights

Considerable growth of LPG demand

S&P Global

## There are various NGL applications across different demand segments, and the importance of each demand segment varies among markets

### Residential

- Cooking
- Water heating
- Space heating
- Clothes drying

- Air
- conditioning
- Grills
- Lights
- Bug killers
- Heat pumps
- Generators

## Commercial

- Cooking
- Space heating
- Water heating
- Clothes drying
- Heat pumps
- Cooling
- Cogeneration

## **Industrial**

- Space heating
- Kiln Water Oven heating

Furnaces

Dryers

 Process heating

## **Engine Fuel**

- Fleet vehicles
- Taxi
- Buses
- Deliver vehicles
- Forklifts
- Private vehicles

## **Agricultural**

- Tractor fuel
   Flame
- Crop drying
- Frost
- protection
- Poultry brooding

- weeding
- Generators
- Irrigation
- Water heating

## **Manufactured Gas**

- LNG enrichment
- Propane-air (natural gas substitute)

## Refining

- Gasoline blending
- Alkylation feedstock

## Chemical

- Olefins feedstock
- Propane dehydrogenation
- MTBE / Isooctane
- Maleic Anhydride
- Isomerization

Data compiled May 2024.

Note: Manufactured Gas also known as Town Gas Source: S&P Global Commodity Insights

S&P Global

# In North America, the key demand segments are residential, commercial, and chemical, accounting for over half of domestic demand

## Residential

- Cooking
- Water heating
- Space heating
- Clothes drying

- Air
  - conditioning
- Grills
- Lights
- Bug killers
- Heat pumps
- Generators

# FLO GAS T



## Commercial

- Cooking
- Space heating
- · Water heating
- Clothes drying
- Heat pumps
- Cooling
- Cogeneration





## **Chemical**

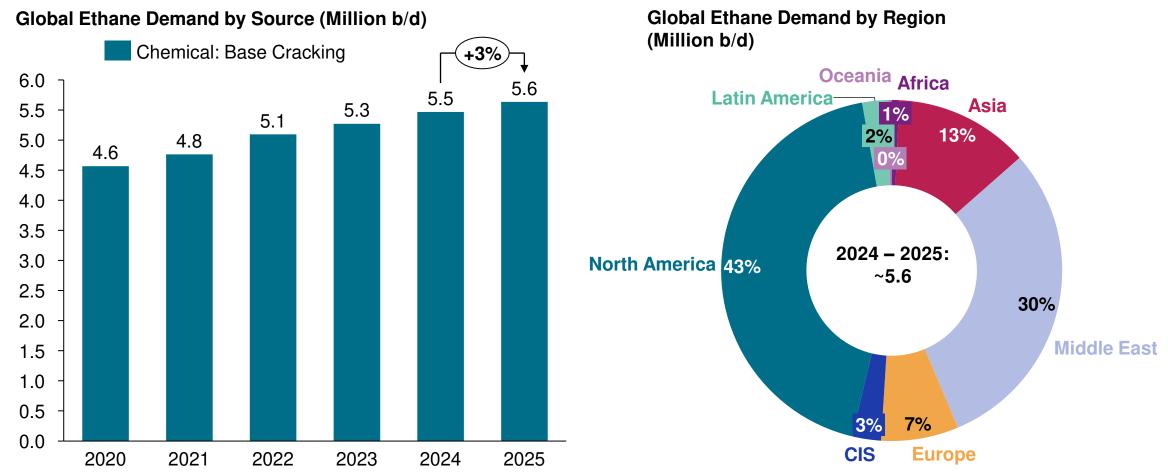
- Olefins feedstock
- Propane dehydrogenation
- MTBE / Isooctane
- · Maleic Anhydride
- Isomerization



Data compiled May 2024.
Source: S&P Global Commodity Insights



# Ethane market primary driven by North America and the Middle East; demand is effectively driven entirely by base chemical cracking



Data compiled May 2024

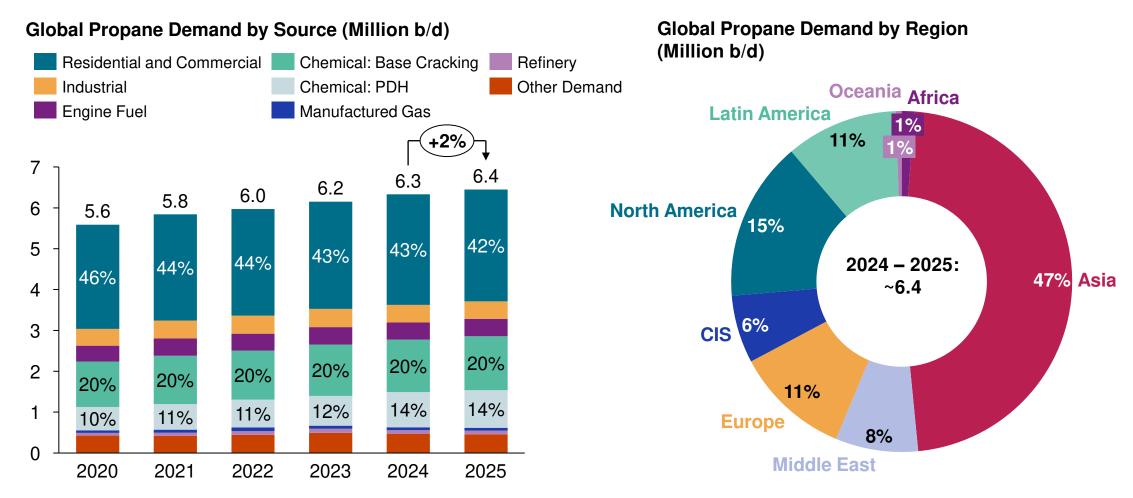
Notes: Global demand/supply estimates based of monthly STO and ASW reports (May 2023). Global demand/supply balance based off prior month regional outlooks. Monthly ethane data is only available for select countries in North America, Latin America, Europe and Africa. For all other regions, a monthly average has been assumed based on the annual figure.

Source: S&P Global Commodity Insights





# Total petrochemical demand expected to increase in outlook; Asia expected to account for nearly 50% of propane demand

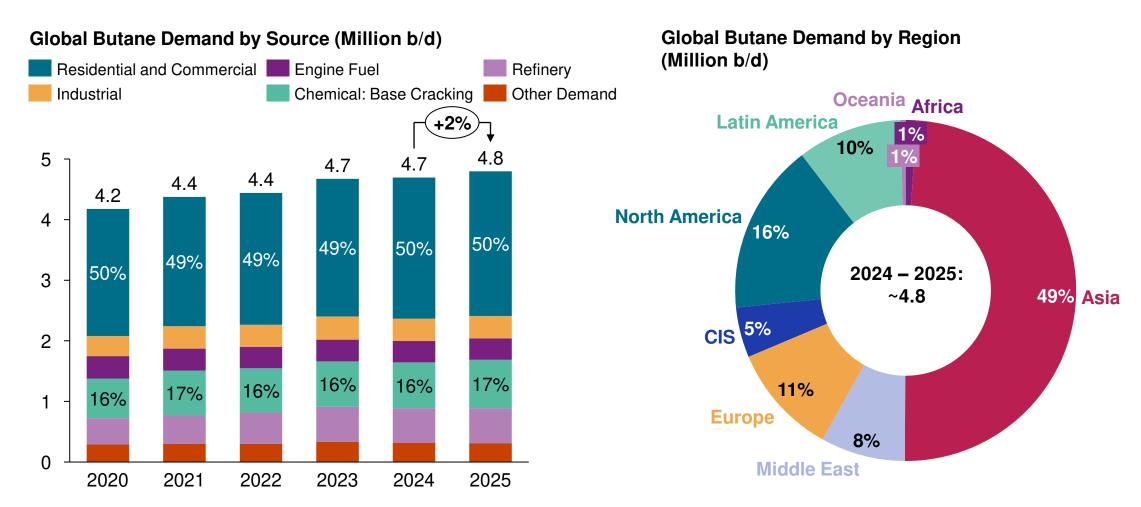


Data compiled May 2024.

Notes: Global demand/supply estimates based of monthly STO and ASW reports (May 2023). Global demand/supply balance based off prior month regional outlooks. Supply includes net storage withdrawals. Source: S&P Global Commodity Insights



# Similar to propane, in that residential and commercial accounts for a significant portions, but petrochemical demand is more limited



Data compiled May 2024.

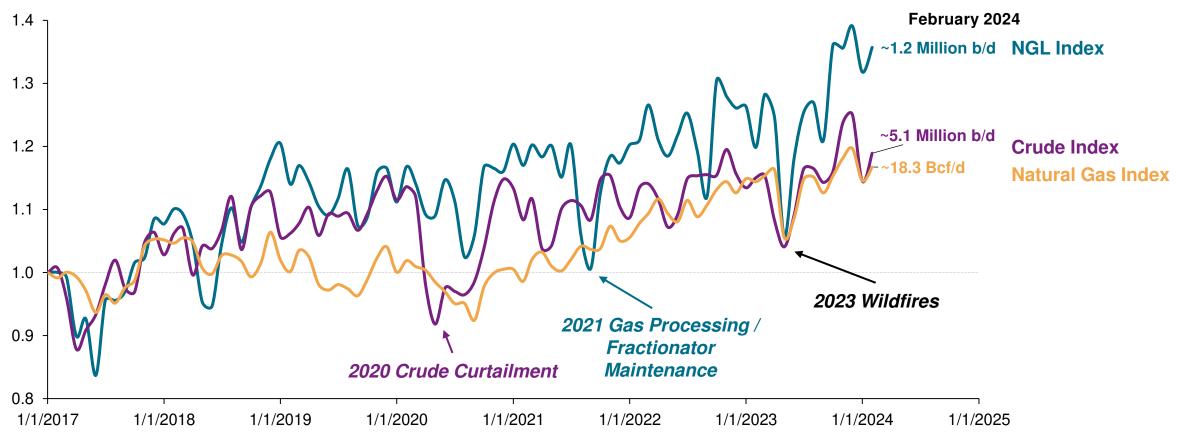
Notes: Global demand/supply estimates based of monthly STO and ASW reports (May 2023). Global demand/supply balance based off prior month regional outlooks. Supply includes net storage withdrawals. Source: S&P Global Commodity Insights

## Canada NGL Market Update



# The growth rates of Canadian NGL, crude oil, and natural gas began to diverge in 2018, with NGLs showing a clear advantage compared to the other two resources

#### Canadian crude oil, natural gas and NGL production growth index

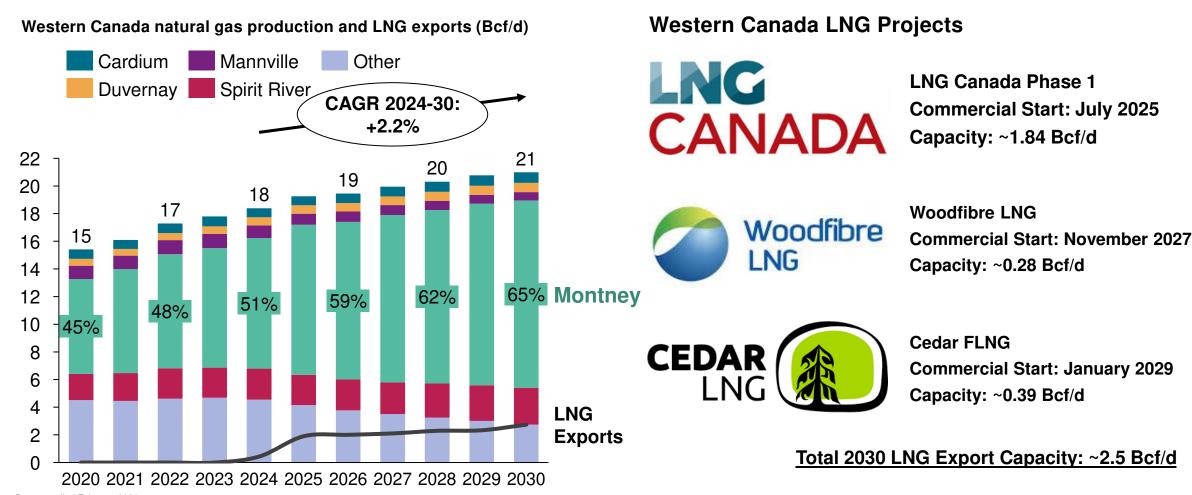


Data compiled May 2024

Note: Marketable natural gas is shown for gas production. Crude production includes heavy and bitumen crude, light crude and equivalent production. NGL data only represents gas processing / fractionation-based production and does not include refinery NGL volumes. NGL production does not include condensate volumes. Actual production data for the latest Statistics Canada month is shown in the chart for Canadian crude, natural gas and NGLs.

Sources: S&P Global Commodity Insights, Statistics Canada, Canada Energy Regulator

# LNG exports remain the main driver of Western Canadian demand growth; nearly all Canadian production growth is expected to come from the Montney formation

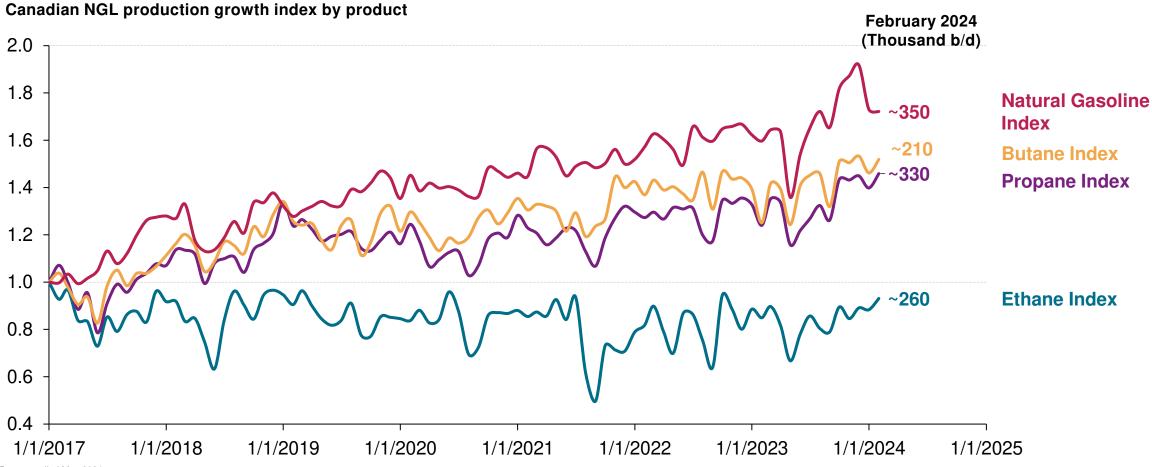


Data compiled February 2024.

Note: CAGR = Compound Annual Growth Rate Source: S&P Global Commodity Insights

S&P Global

# Heavier NGL products are experiencing stronger growth compared to lighter NGLs in Canada; ethane production has remained relatively low and stable

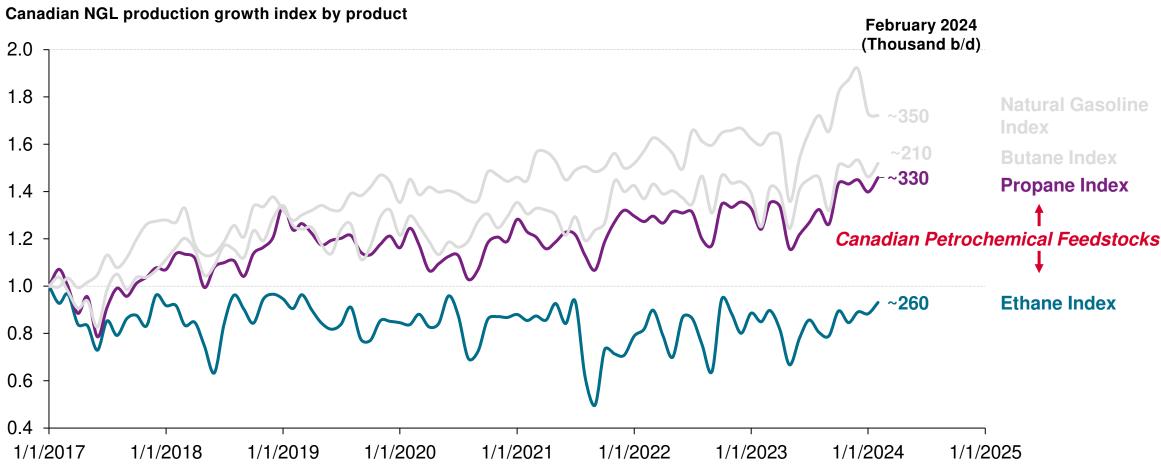


Data compiled May 2024.

Note: NGL data only represents gas processing / fractionation-based production and does not include refinery NGL volumes. Natural gasoline production does not include condensate volumes. Actual production data for the latest Statistics Canada month is shown in the chart for Canadian NGIs

Sources: S&P Global Commodity Insights, Statistics Canada, Canada Energy Regulator

# Ethane production linked directly with petrochemical demand since varying quantities are currently rejected; propane production linked with upstream activity



Data compiled May 2024.

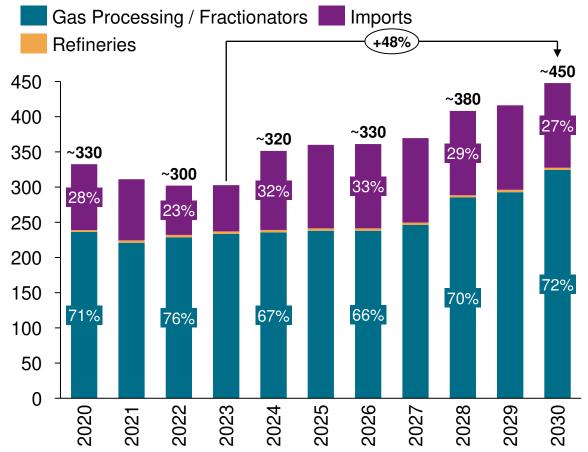
Note: NGL data only represents gas processing / fractionation-based production and does not include refinery NGL volumes. Natural gasoline production does not include condensate volumes. Actual production data for the latest Statistics Canada month is shown in the chart for Canadian NGLs.

Sources: S&P Global Commodity Insights, Statistics Canada, Canada Energy Regulator



# Canadian ethane supply should increase from lows seen in 2022, but domestic production will remain soft until ethane demand recovers

#### Canada ethane supply (Thousand b/d)



- Production is expected to remain weak for the next few years due to weaker petrochemical demand and ethylene margins. However, demand is expected to increase with Nova Chemical's Corunna cracker expansion and Dow's net-zero ethylene cracker.
- It is anticipated that operating rates at petrochemical plants will be lower over the next few years across North America. If Canadian rates are higher than forecasted, additional production and/or imports will be necessary.

Domestic production will ultimately depend on domestic petrochemical demand and US import volumes since varying quantities of Canadian ethane are currently rejected.

Data compiled May 2024

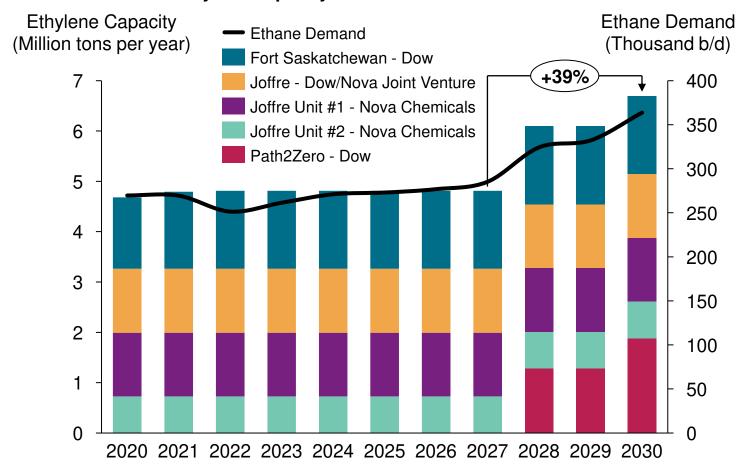
Notes: Supply excludes net inventory changes and other adjustments.

Sources: S&P Global Commodity Insights, AER, Government of British Columbia, Government of Saskatchewan, Statistics Canada, CER, EIA



# Western Canadian ethane demand will increase significantly with the completion of Dow's Path2Zero cracker

#### Western Canada ethylene capacity and ethane demand



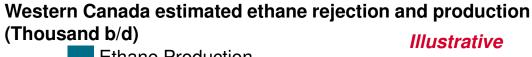
- S&P Global has assumed that Phase 1 of Dow's Path2Zero cracker will begin operations in 2028 with ~1.29 million metric tons per year of ethylene capacity.
  - Phase 2 is assumed to come online in 2030 with an additional ~600,000 tons per year of ethylene capacity.
  - In total, this facility is anticipated to boost Western Canadian ethane demand by around 110,000 b/d.
- Total ethane demand will be around 364,000 b/d by 2030, assuming all ethylene facilities operate at a utilization rate of ~90%.

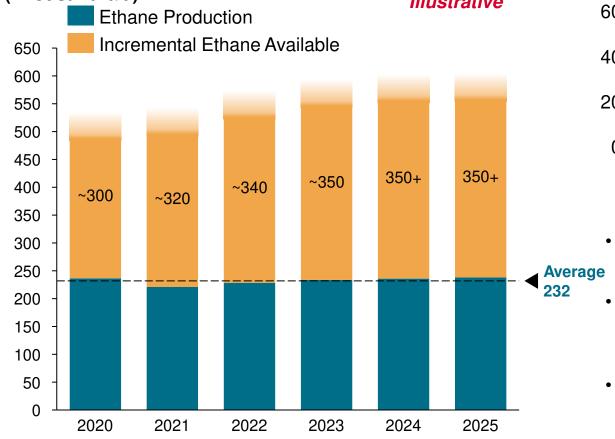
Data compiled May 2024.

Source: S&P Global Commodity Insights

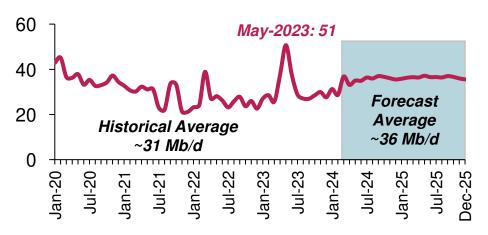


# Varying quantities of Canadian ethane are currently rejected but adequate supply is available; new extraction facilities would be required





## Alberta ethane imports (Thousand b/d)



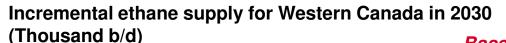
- Ample ethane supply should be available as feedstock for the new Dow ethylene cracker.
- Total ethane available in Western Canada will grow as natural gas production increases however, additional ethane extraction capacity would likely be required.
- Ethane demand that is not met with local production and recovery will be met by imports.

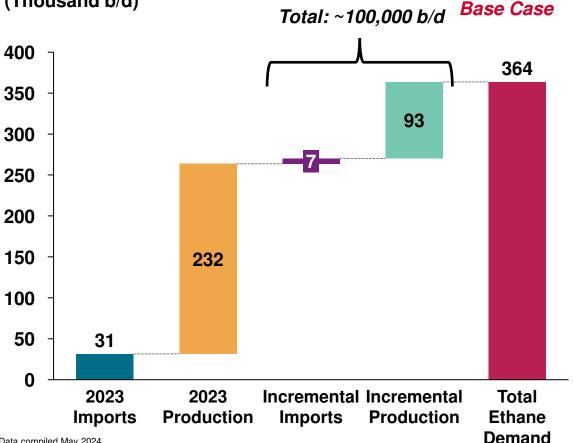
Data compiled May 2024.

Notes: Recoverable ethane estimated based on upstream reported gallons of NGLs produced per m3 of gas processed, an assumed recovery factor and forecasted natural gas production. Assumed rejection rate of between 30-50%. Sources: S&P Global Commodity Insights, AER, Government of British Columbia, Government of Saskatchewan, Statistics Canada, CER, EIA

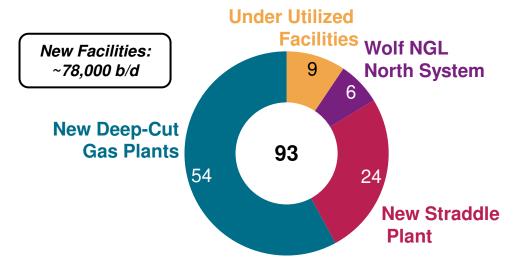


## Incremental ethane demand will be met by a combination of stronger domestic production, along with stronger imports





#### Sources of incremental ethane production (Thousand b/d)



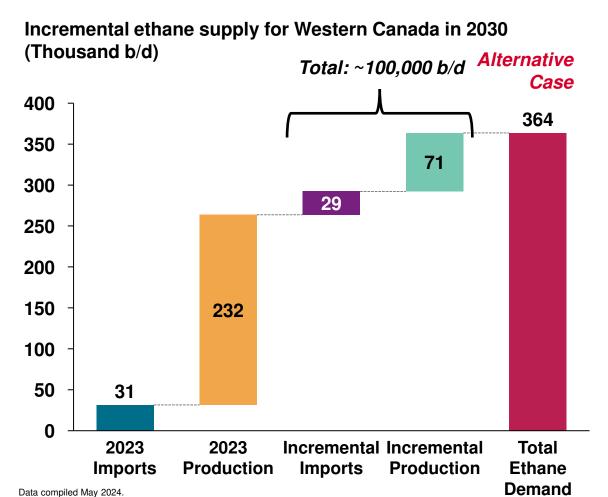
- S&P Global assumes that the incremental ethane demand will be met by a combination of increased imports and domestic production. The additional domestic production could come from both existing and new facilities.
  - 1 Bcf/d Straddle Plant
  - ~6 New 200 Mcf/d Deep-Cut Gas Processing Plants

Data compiled May 2024

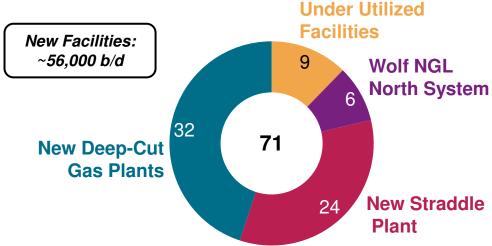
Notes: Ethane demand based on the assumption that all ethylene facilities operate at a utilization rate of ~90%. Based on an assumed ~1 Bcf/d straddle plant design, processing marketable specification natural gas with a utilization of 95%. Number of gas plants based on an assumed 200 MMcf/d deep-cut gas processing plant design with a utilization of 95%. Deep-cut plant assumed to be fed by a stream of liquid-rich Montney natural gas and an ethane recovery rate of 90%. Source: S&P Global Commodity Insights



# Also possible to see substantially stronger ethane imports, as the Vantage pipeline has an import capacity of ~68,000 b/d



#### Sources of incremental ethane production (Thousand b/d)



- If ethane imports were to increase to around 60,000 barrels per day, then a lower amount of incremental ethane production would be necessary.
- If this were to occur, then incremental domestic production could again be met through existing and new facilities.
  - 1 Bcf/d Straddle Plant
  - ~4 New 200 Mcf/d Deep-Cut Gas Processing Plants

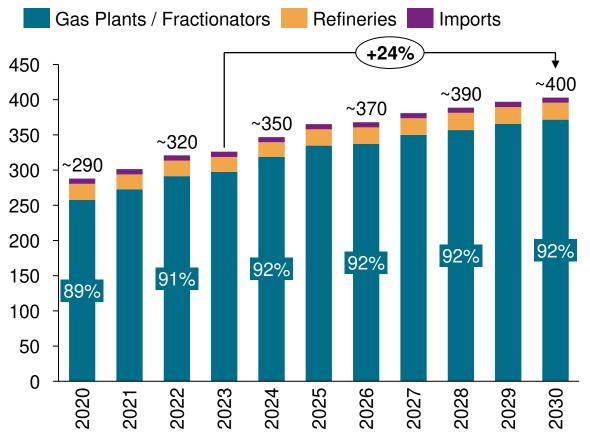
Notes: Ethane demand based on the assumption that all ethylene facilities operate at a utilization rate of ~90%. Based on an assumed ~1 Bcf/d straddle plant design, processing marketable specification natural gas with a utilization of 95%. Number of gas plants based on an assumed 200 MMcf/d deep-cut gas processing plant design with a utilization of 95%. Deep-cut plant assumed to be fed by a stream of liquid-rich Montney natural gas and an ethane recovery rate of 90%.

Source: S&P Global Commodity Insights



# Canadian propane supply is expected to continue recovering following a dip in 2020; longer-term outlook growth will be driven by LNG exports

#### Canada propane supply (Thousand b/d)



- Canadian propane production for 2023 averaged around 326,000 b/d, while 2024 average production will be stronger still at around 350,000 b/d.
- Production is expected to continue to grow and will increase by roughly 75,000 b/d over the period of 2023 to 2030.
- Natural gas production continues to be the driver of incremental propane growth.
  - Domestic production will far exceed domestic demand; especially in Western Canada, and as a result excess barrels are directed towards the US market or West Coast marine export terminals.

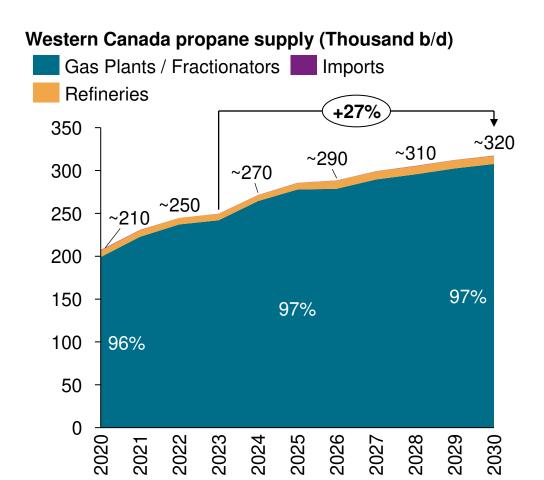
Data compiled May 2024.

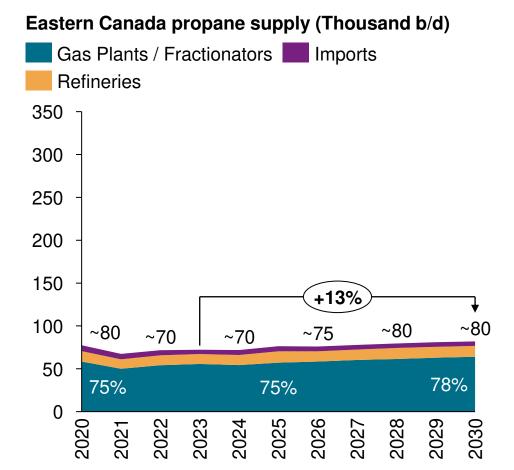
Notes: Supply excludes net inventory changes and other adjustments. Refinery production includes bio-propane production.

Sources: S&P Global Commodity Insights, AER, Government of British Columbia, Government of Saskatchewan, Statistics Canada, CER, EIA



# Western Canada is expected to see steady growth over the forecast period while Eastern Canada will see relatively more muted growth



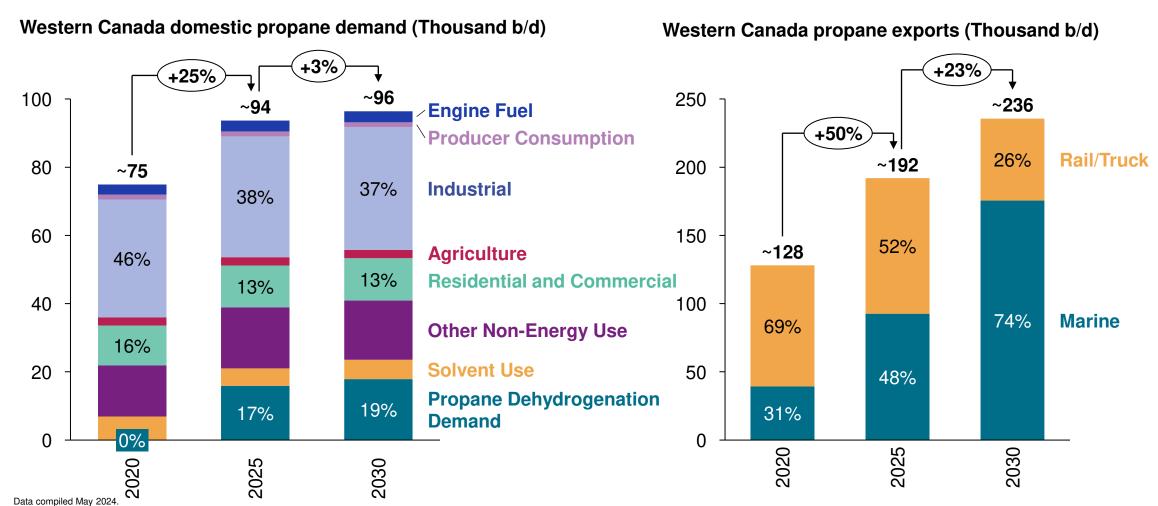


Data compiled May 2024.

Notes: Excludes supply changes as a result of Reclassification/Other/Inventory Change and Inter-regional movements. Refinery production includes bio-propane production. Sources: S&P Global Commodity Insights, Statistics Canada



# Although Western Canadian propane demand will grow, primarily due to PDH demand, it will be overshadowed by significantly stronger exports



Notes: Marine exports do not include rail volumes directed to Ferndale, Washington.

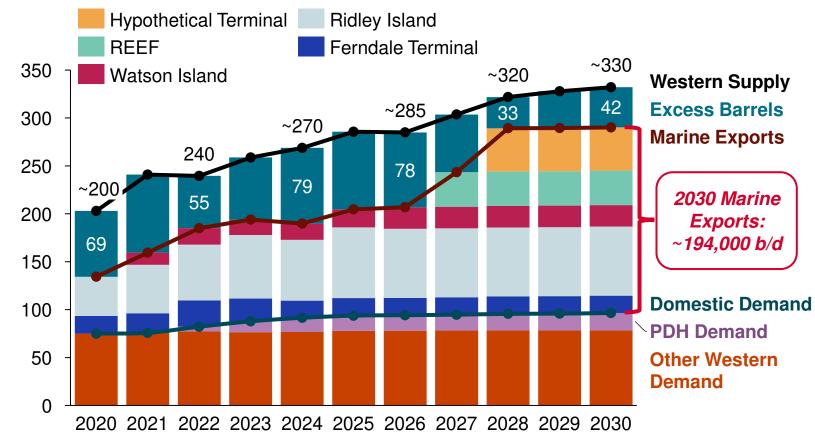
Sources: S&P Global Commodity Insights, AER, Government of British Columbia, Government of Saskatchewan, Statistics Canada, CER, EIA

S&P Global



# Increased export of propane via marine terminals will be bolstered by the addition of new facilities, albeit at the cost of surplus barrels

## Western Canada propane supple and dispositions (Thousand b/d)



- Data compiled May 2024.
- Notes: Assumed marine export terminals operate at a utilization rate of 90%.

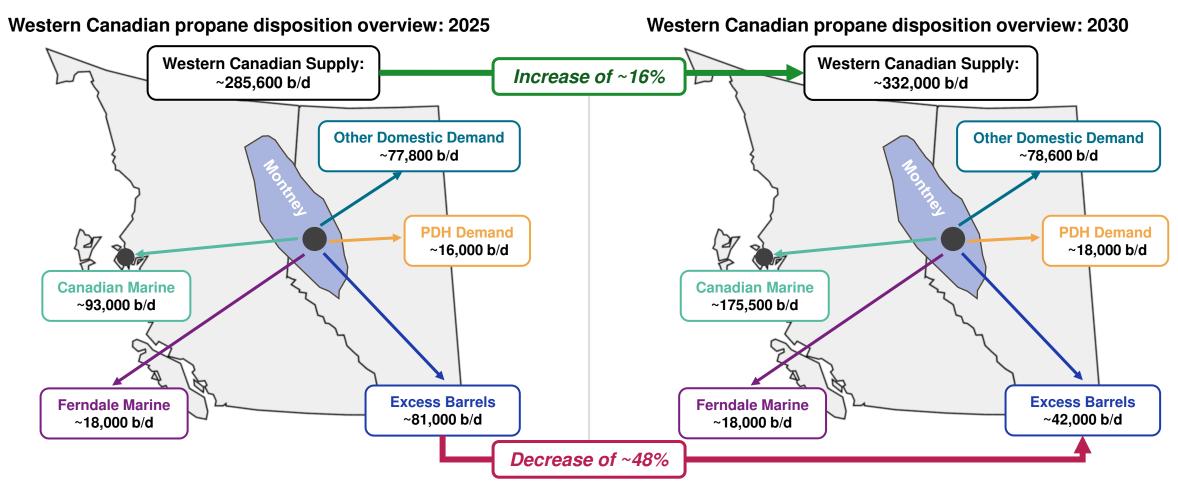
Sources: S&P Global Commodity Insights, AER, Government of British Columbia, Government of Saskatchewan, Statistics Canada, CER, EIA

- S&P Global has assumed that the REEF export terminal with an LPG export capacity of ~55,000 b/d will come online in 2027 and that the terminal will have a propane export capacity of ~40,000 b/d.
- A hypothetical export terminal has also been assumed to come online in 2028 with an LPG export capacity of ~67,000 b/d. This terminal is assumed to have a propane export capacity of ~50,000 b/d.

If the hypothetical export terminal were not included, there would be an excess supply available that could support the construction of additional PDH facilities in Western Canada.



# While propane supply is projected to increase from 2025 to 2030, the growth in marine exports will constrain excess barrels that are available



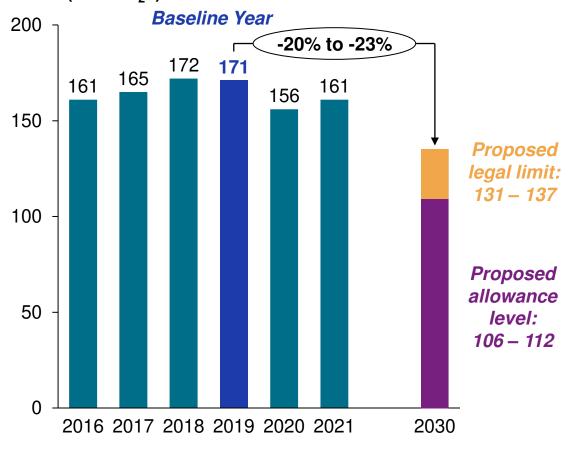
Data compiled May 2024.

Notes: Approximate Montney basin extent – other plays and basins also contribute to total NGL supply Sources: S&P Global Commodity Insights, Statistics Canada

S&P Global

# Government proposed a new cap-and-trade system to reduce emissions from oil and gas extraction

## Oil and gas emissions subject to cap compared with 2030 cap levels (MMtCO<sub>2</sub>e)



## Canada's proposed oil and gas cap-and-trade system

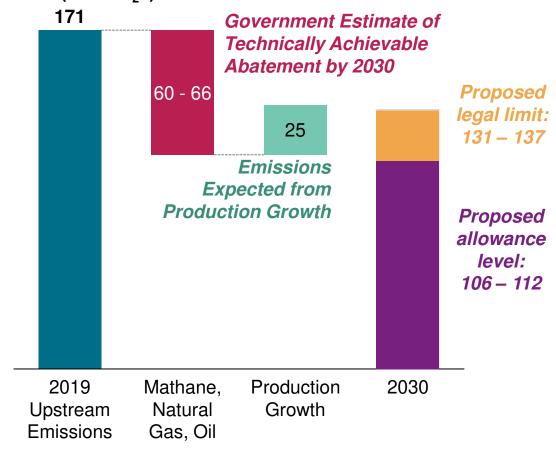
- On Dec. 7, 2023, the government of Canada released its proposed framework to cap and then reduce greenhouse gas emissions from Canada's oil and gas sector.
- Emissions subject to the proposed cap are focused on upstream oil and gas activity, specifically oil and gas extraction.
  - Approximately 85% of oil and gas emissions will be subject to the proposed cap-and-trade regulation.
- This cap-and-trade system would establish a sectoral emissions cap for 2030 that would decline over time at a pace to meet netzero targets by 2050.
- Allowance level and legal upper limit a 20 23% reduction compared to the 2019 baseline year to provide compliance flexibility.
- S&P Global developed an economic impact assessment report in May 2024 for CAPP.
- Report shows a stringent emissions cap could cost Canada 51,000 jobs and \$247 billion in GDP contributions by 2035
- The report can be found on CAPP's website <u>here</u>

Data compiled Dec. 12, 2023

Sources: S&P Global Commodity Insights, Environment and Climate Change Canada, National Inventory Report 1990-2021: Greenhouse gas sources and sinks in Canada 2023. Government of Canada: A Regulatory Framework publication

## Proposed emissions reduction to be met principally from abatement of methane and the oil sands

Oil and gas emissions subject to cap compared with 2030 cap levels (MMtCO<sub>2</sub>e)



## Canada's proposed oil and gas cap-and-trade system

• Proposed regulations are expected in 2024, with final a publication targeted for 2025.

## **Implications**

- Production growth may complicate emission reductions if growth exceeds government estimates.
- Time is not on the sector's side as challenges remain for the deployment of large-scale carbon capture and storage processes.
- The proposed cap-and-trade system could improve decarbonization project economics, but at the expense of upstream competitiveness.
- The proposed cap-and-trade regulation does not reduce uncertainty to financing large-scale decarbonization projects.

Data compiled Dec. 12, 2023

Sources: S&P Global Commodity Insights, Environment and Climate Change Canada, National Inventory Report 1990-2021: Greenhouse gas sources and sinks in Canada 2023. Government of Canada: A Regulatory Framework publication



## Key takeaways

Ethane expected to remain a competitive feedstock for ethylene production.

Domestic ethane production/recovery depends on domestic petrochemical demand and US import volumes.

Ample domestic ethane should be available to meet new Western demand, but additional extraction facilities will likely be needed.



Domestic propane demand will be relatively stable; new PDH/PP facility has boosted Western demand, but further petrochemical projects are uncertain.

LNG activity will spur additional supply, resulting in additional excess LPG barrels; Marine exports increasingly important.

Government regulations regarding cap-and-trade could result in significant changes to upstream investment and activity.

Feedstock supply exists for further petrochemical projects, but future investment is not guaranteed

## Contact us

## PRIMARY CONTACT(S)

Jordan Woloschuk

jordan.woloschuk@spglobal.com

## **CONTACT US**

Americas +1 800 597 1344

Asia Pacific +60 4 296 1125

Europe, Middle East, Africa +44 (0) 203 367 0681

www.spglobal.com/en/enterprise/about/contact-us.html

www.spglobal.com/commodityinsights





© 2024 by S&P Global Inc. All rights reserved.

S&P Global, the S&P Global logo, S&P Global Commodity Insights, and Platts are trademarks of S&P Global Inc. Permission for any commercial use of these trademarks must be obtained in writing from S&P Global Inc.

You may view or otherwise use the information, prices, indices, assessments and other related information, graphs, tables and images ("Data") in this publication only for your personal use or, if you or your company has a license for the Data from S&P Global Commodity Insights and you are an authorized user, for your company's internal business use only. You may not publish, reproduce, extract, distribute, retransmit, resell, create any derivative work from and/or otherwise provide access to the Data or any portion thereof to any person (either within or outside your company, including as part of or via any internal electronic system or intranet), firm or entity, including any subsidiary, parent, or other entity that is affiliated with your company, without S&P Global Commodity Insights' prior written consent or as otherwise authorized under license from S&P Global Commodity Insights. Any use or distribution of the Data beyond the express uses authorized in this paragraph above is subject to the payment of additional fees to S&P Global Commodity Insights.

S&P Global Commodity Insights, its affiliates and all of their third-party licensors disclaim any and all warranties, express or implied, including, but not limited to, any warranties of merchantability or fitness for a particular purpose or use as to the Data, or the results obtained by its use or as to the performance thereof. Data in this publication includes independent and verifiable data collected from actual market participants. Any user of the Data should not rely on any information and/or assessment contained therein in making any investment, trading, risk management or other decision. S&P Global Commodity Insights, its affiliates and their third-party licensors do not guarantee the adequacy, accuracy, timeliness and/or completeness of the Data or any component thereof or any communications (whether written, oral, electronic or in other format), and shall not be subject to any damages or liability, including but not limited to any indirect, special, incidental, punitive or consequential damages (including but not limited to, loss of profits, trading losses and loss of goodwill).

ICE index data and NYMEX futures data used herein are provided under S&P Global Commodity Insights' commercial licensing agreements with ICE and with NYMEX. You acknowledge that the ICE index data and NYMEX futures data herein are confidential and are proprietary trade secrets and data of ICE and NYMEX or its licensors/suppliers, and you shall use best efforts to prevent the unauthorized publication, disclosure or copying of the ICE index data and/or NYMEX futures data.

Permission is granted for those registered with the Copyright Clearance Center (CCC) to copy material herein for internal reference or personal use only, provided that appropriate payment is made to the CCC, 222 Rosewood Drive, Danvers, MA 01923, phone +1-978-750-8400. Reproduction in any other form, or for any other purpose, is forbidden without the express prior permission of S&P Global Inc. For article reprints contact: The YGS Group, phone +1-717-505-9701 x105 (800-501-9571 from the U.S.).

For all other queries or requests pursuant to this notice, please contact S&P Global Inc. via email at ci.support@spglobal.com.