Enterprise Products Partners L.P.

Investor Deck

December 2023

NYSE: EPD

Forward-Looking Statements

This presentation contains forward-looking statements based on the beliefs of the company, as well as assumptions made by, and information currently available to our management team (including information published by third parties). When used in this presentation, words such as “anticipate,” “project,” “expect,” “plan,” “seek,” “goal,” “estimate,” “forecast,” “intend,” “could,” “should,” “would,” “will,” “believe,” “may,” “scheduled,” “pending,” “potential” and similar expressions and statements regarding our plans and objectives for future operations, are intended to identify forward-looking statements.

Although management believes that the expectations reflected in such forward-looking statements are reasonable, it can give no assurance that such expectations will prove to be correct. You should not put undue reliance on any forward-looking statements, which speak only as of their dates. Forward-looking statements are subject to risks and uncertainties that may cause actual results to differ materially from those expected, including insufficient cash from operations, adverse market conditions, governmental regulations, the possibility that tax or other costs or difficulties related thereto will be greater than expected, the impact of competition and other risk factors discussed in our latest filings with the Securities and Exchange Commission.

All forward-looking statements attributable to Enterprise or any person acting on our behalf are expressly qualified in their entirety by the cautionary statements contained herein, in such filings and in our future periodic reports filed with the Securities and Exchange Commission. Except as required by law, we do not intend to update or revise our forward-looking statements, whether as a result of new information, future events or otherwise.

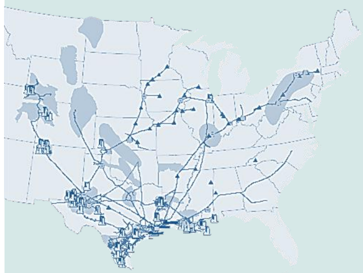
Section 1: Investment Rationale & Updates

Enterprise Products Partners L.P.

Why EPD?

Built for the Long Run

Diversified



Geographic, Product and Market Diversification

≈\$58B Market Capitalization

≈\$88B Enterprise Value

≈\$118MM Average Daily Trading Value (last 20 days)

Bloomberg as of December 1, 2023

25 Years of Consecutive Distribution Increases

A- / A- / A3 Credit Rating

3.0x Leverage[1]

as of September 30, 2023

Average Return on Invested Capital[1]

12%

Over the Last 10 Years

2024 Growth Capex Estimate

≈\$3.0–3.5B

History of Unitholder Alignment Through Actions & Ownership

≈32%

of Common Units Owned by EPCO & Affiliates[2]

\$2.00/unit

3Q23 Distribution Annualized

1.7x TTM 3Q 2023 Distribution Coverage

\$823MM Repurchased[2] of \$2B Buyback Program

\$8.0B TTM 3Q 2023 Adjusted CFFO[3]

\$5.0B TTM 3Q 2023 Adjusted FCF[3]

Responsibly Returning Capital to Investors

Adjusted CFFO Payout Ratio[1]: 56%
Adjusted FCF Payout Ratio[1]: 90%

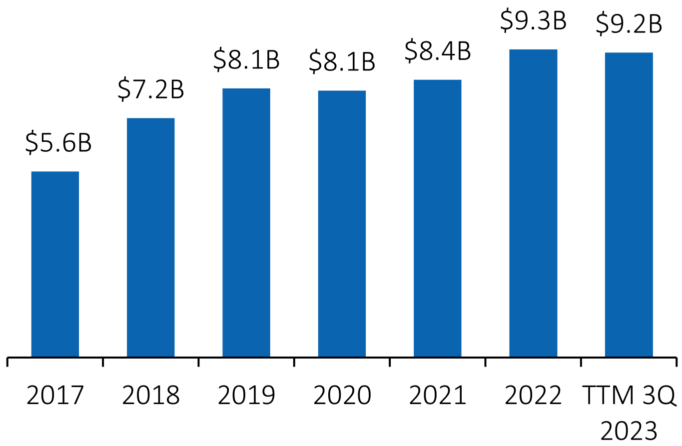
Note: ROIC for 2022 was 13%.
(1) For a definition, see Appendix
(2) As of September 30, 2023
(3) Adjusted CFFO and Adjusted FCF are non-generally accepted accounting principles ("Non-GAAP") financial measures. See Appendix for a reconciliation of these amounts to their nearest GAAP counterparts.

Responsible Growth

A Track Record of Financial Discipline

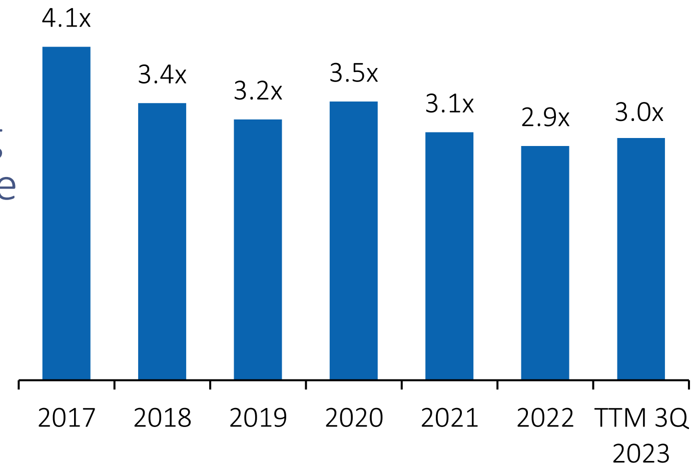
Adjusted EBITDA[1]

8.6% CAGR



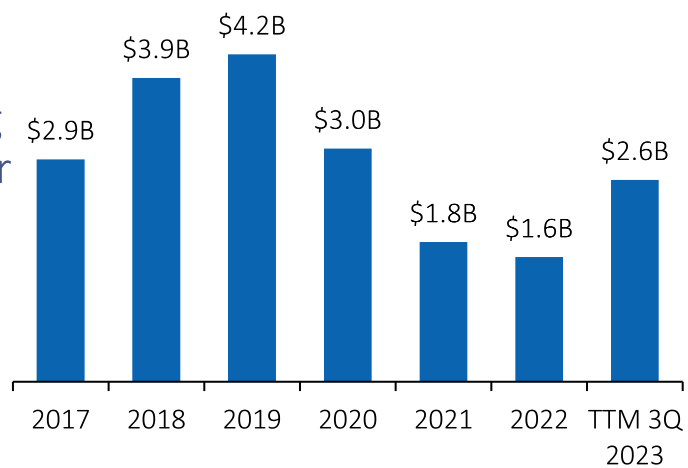
Leverage Ratio[1]

Maintaining low leverage for financial flexibility



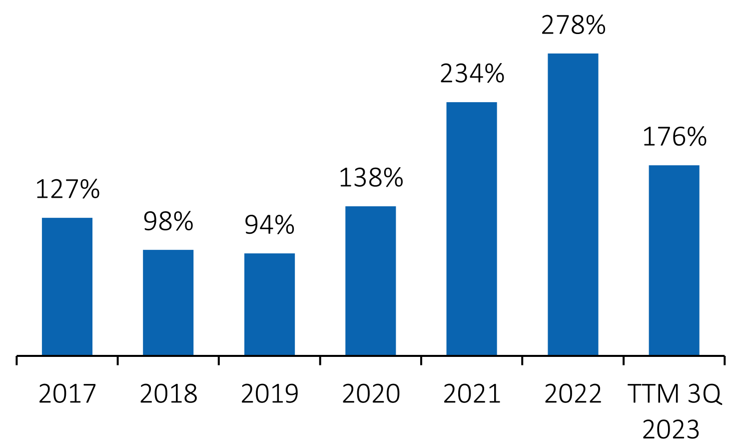
Organic Growth Capital Expenditures

Responding to customer & market signals



Capital Returned to LPs / Organic Growth Capital Expenditures[2]

5.5% CAGR

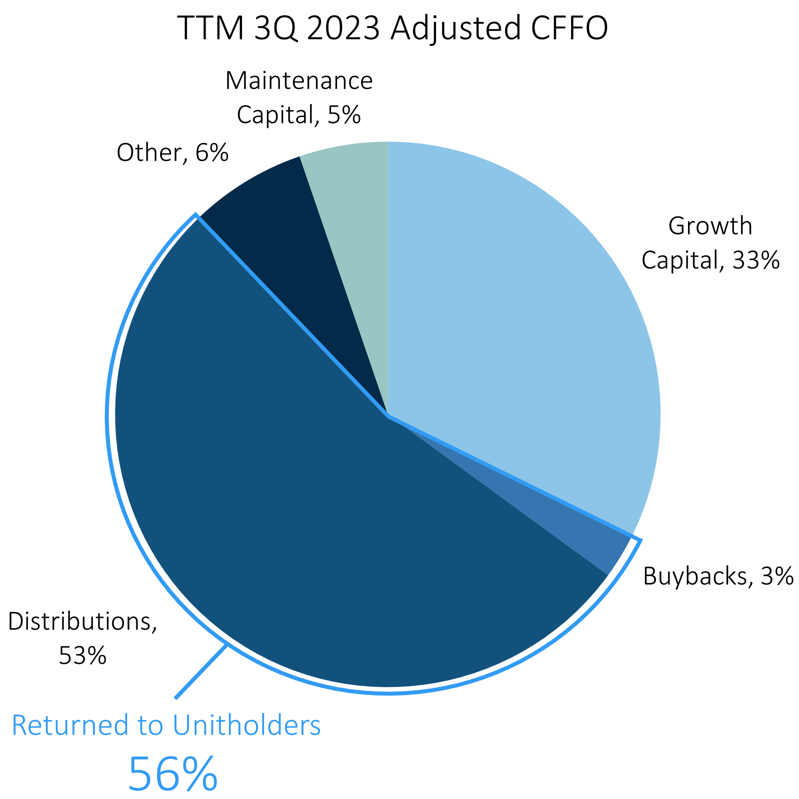


Adjusted EBITDA is a Non-GAAP measure. See Appendix for a reconciliation of these amounts to their nearest GAAP counterparts.
(1) For definitions, see Appendix
(2) Represents LP distributions plus unit buybacks divided by organic growth capital expenditures, for the applicable period

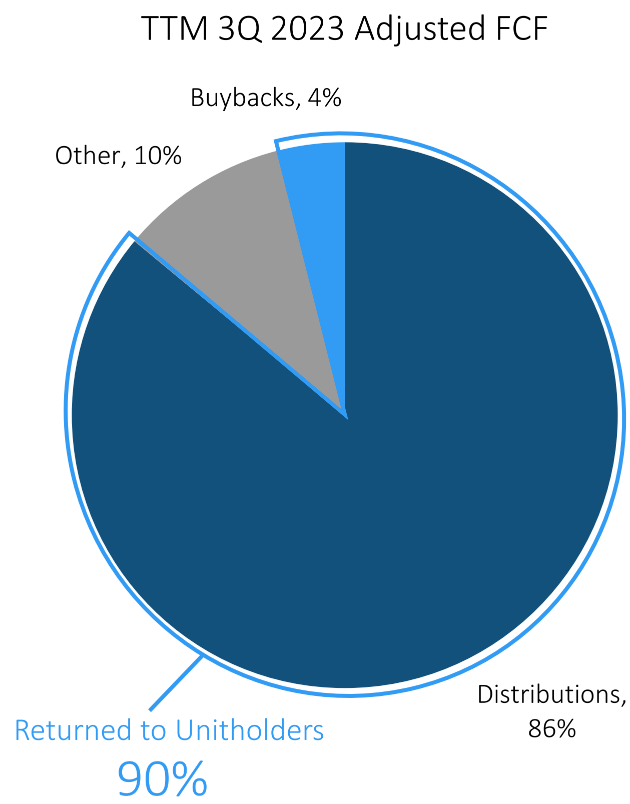
Adjusted CFFO and FCF Yield

Continuing to Return Cash to Investors

Adjusted CFFO Yield to Price[(1)]: 13.3%
TTM 3Q 2023



Adjusted FCF Yield to Price[(1)]: 8.3%
TTM 3Q 2023

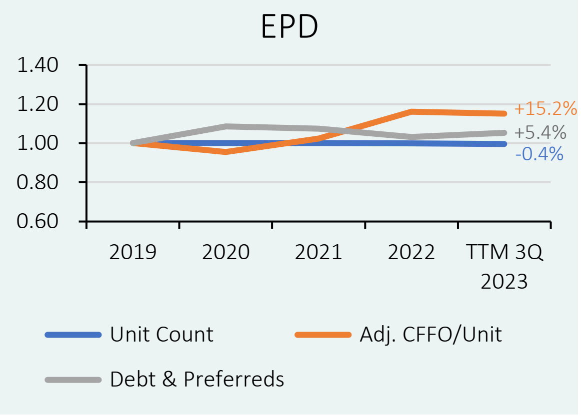


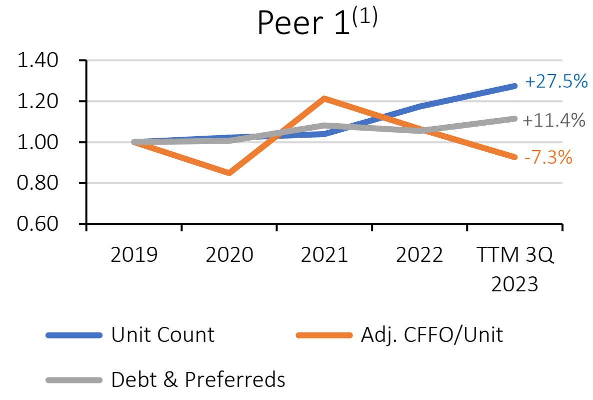
(1) "Yield to Price" or "Yield" is calculated by dividing the applicable financial metric on a per unit basis by the closing price on the last trading day of the applicable period.

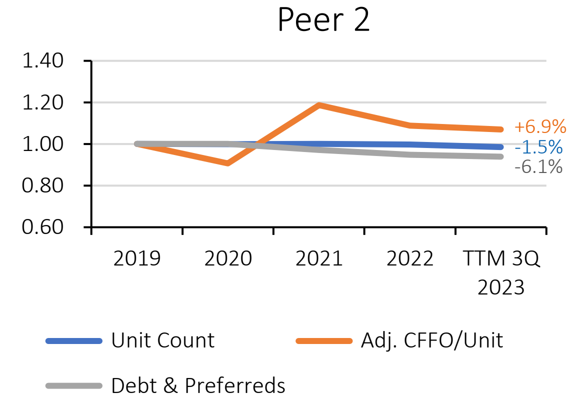
Balancing Cash Flow/Unit Growth With Capital Efficiency

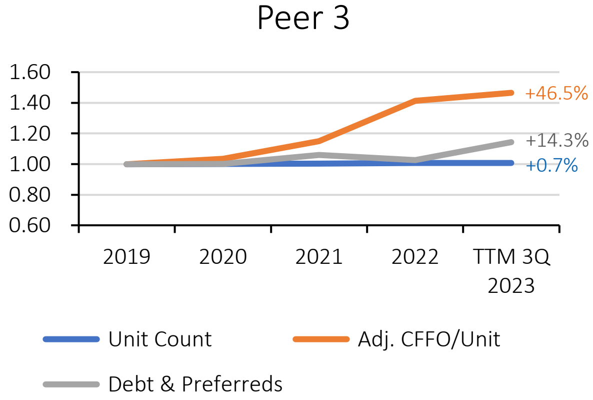
Comparison of Debt, Equity & Adjusted CFFO/Unit or Share

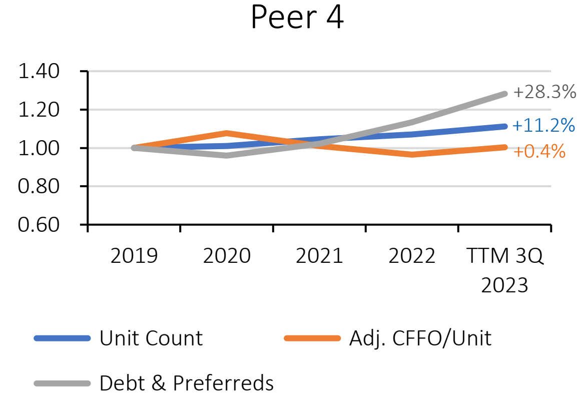
EPD is the only midstream company to grow Adjusted CFFO/Unit and reduce unit count without material asset sales

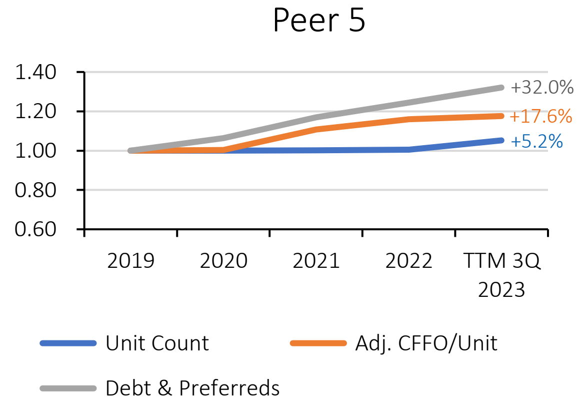








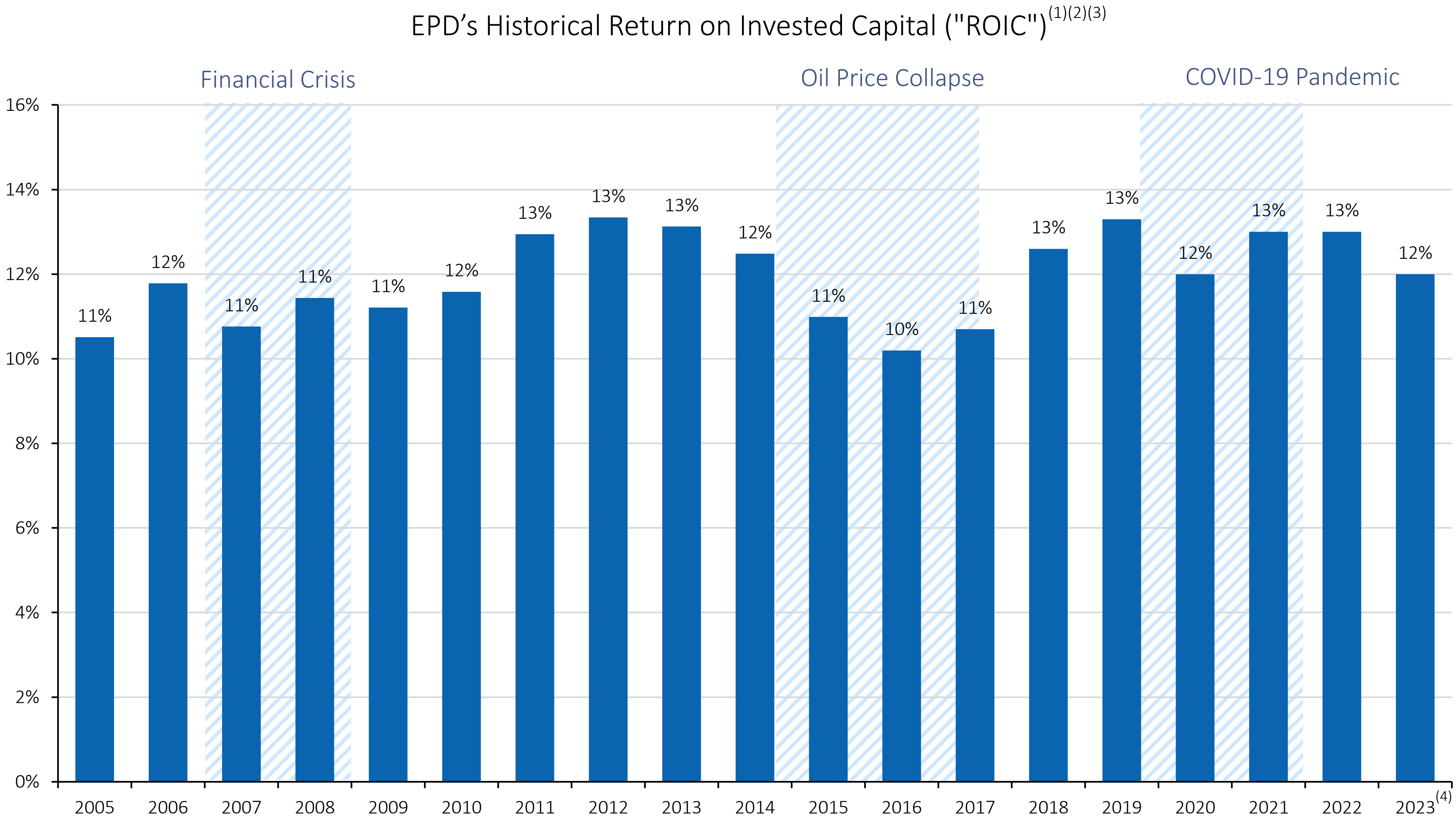




Source: Bloomberg, midstream companies' public filings with market capitalization >$35 billion
(1) Includes pro forma adjustments for acquisition scheduled to close post Q3 2023
Note: "Unit Count" represents the total number of weighted average fully diluted units or shares outstanding for the applicable period; "Adj. CFFO/Unit" is cash flow from operations, as adjusted for net changes in operating accounts, divided by the applicable "Unit Count"; "Debt & Preferreds" represents the sum of total debt principal (including amounts outstanding under credit facilities, commercial paper programs and other borrowing arrangements), total lease liabilities and preferred equity balances as of the applicable period.

Enterprise's History of Generating Returns

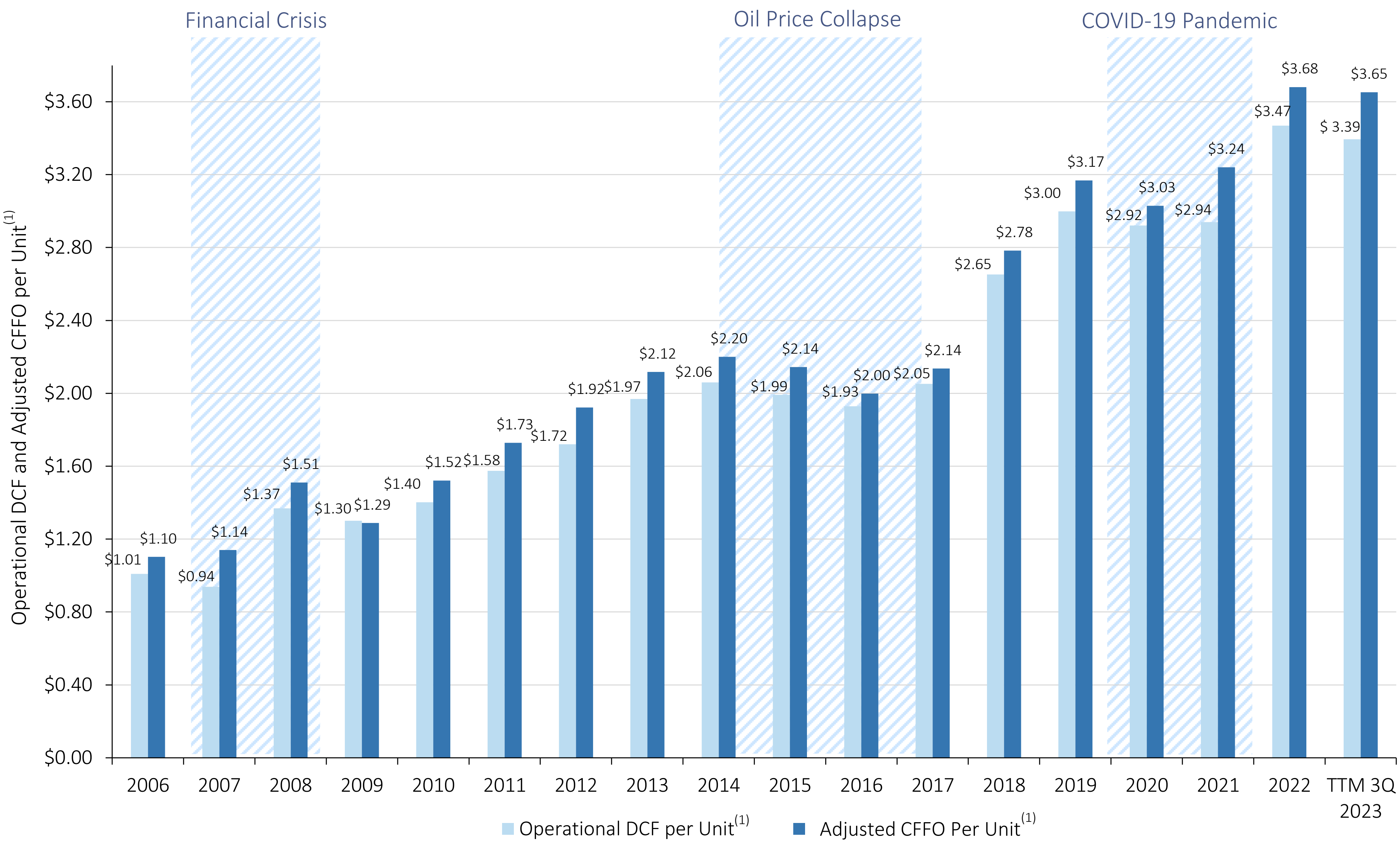
Attractive, Long-Term Returns



(1) For a definition, see Appendix
(2) Pre-2008 is based on EPD reported results (not recast for Mergers)
(3) 2008 and 2009 reflect recast financial statements of Enterprise giving effect to the TEPPCO and Enterprise GP Holdings mergers
(4) 2023 figure is annualized based on returns for the first 9 months of 2023

History of Cash Flow per Unit Durability

A Track Record of Resilience



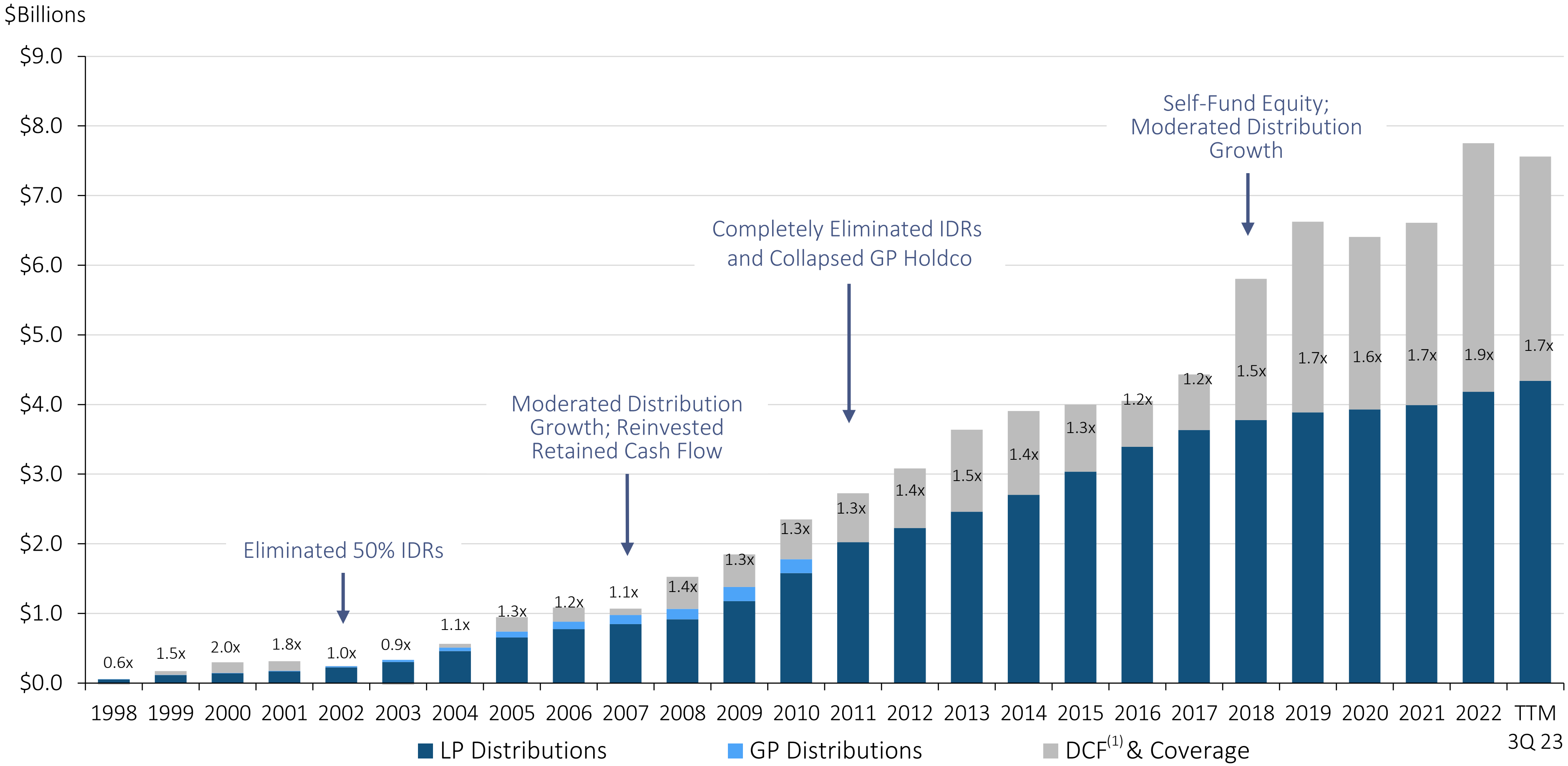
Source: EPD

(1) For a definition, please see Appendix.

Consistently Returning Capital to Unitholders

Distribution Stability and Growth Remains a Core Focus

25 consecutive years of distribution growth and $51 Billion returned to unitholders via LP distributions & unit buybacks

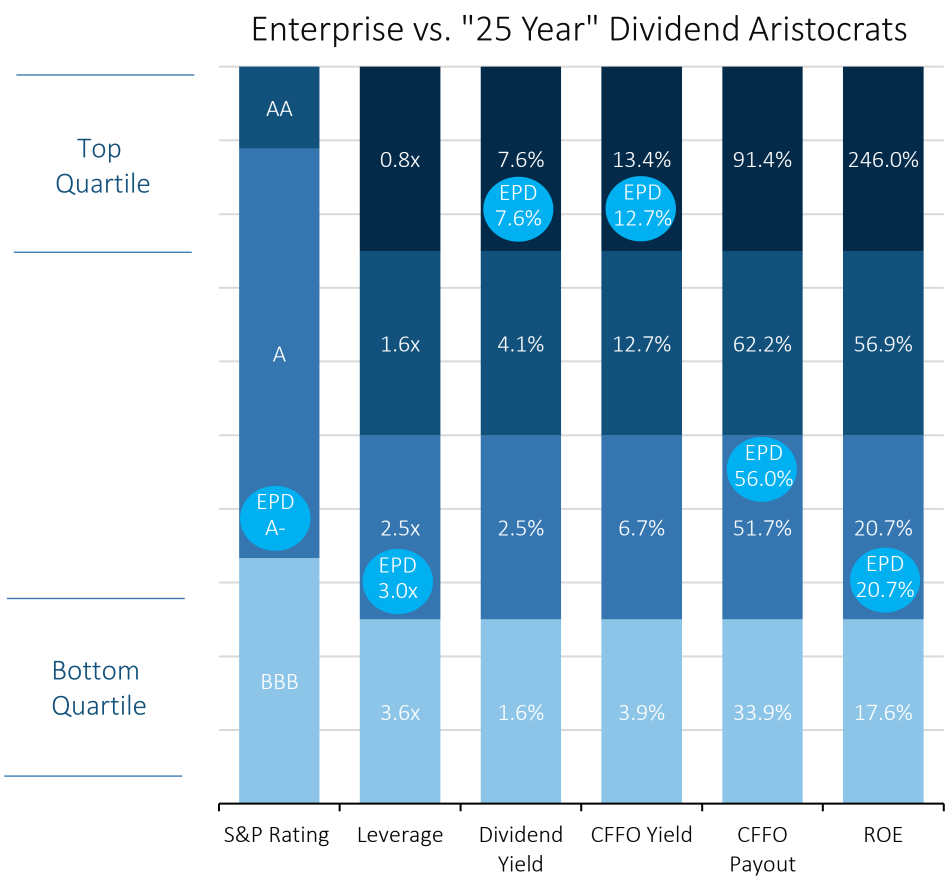


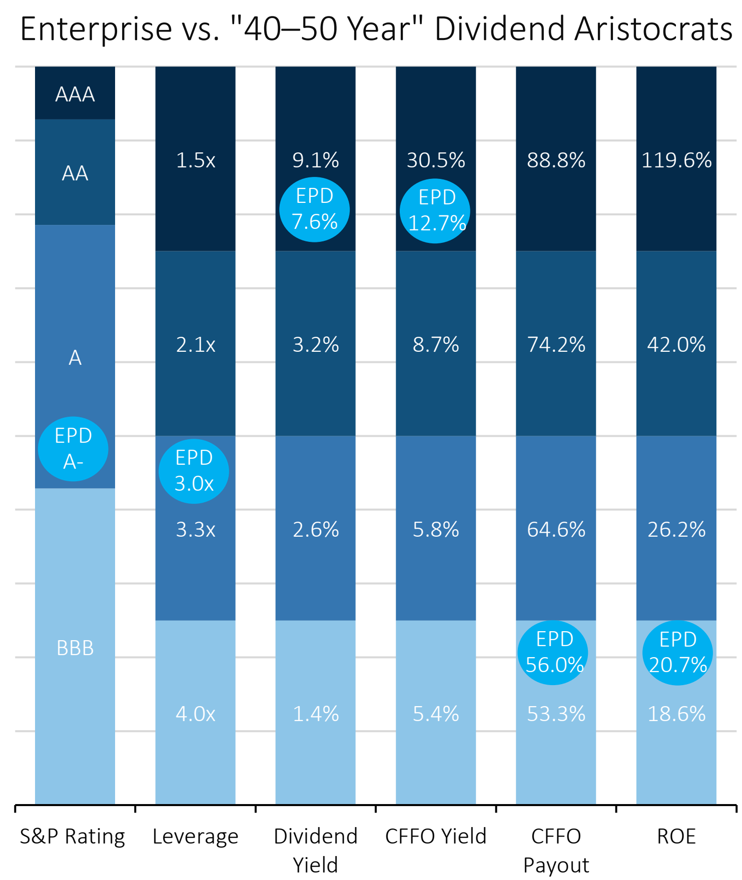
(1) For a reconciliation of Distributable Cash Flow ("DCF") to its nearest GAAP measure, please see Appendix

Characteristics of Dividend Aristocrats

EPD is the Only Company With an “A” Rating and >7% Yield

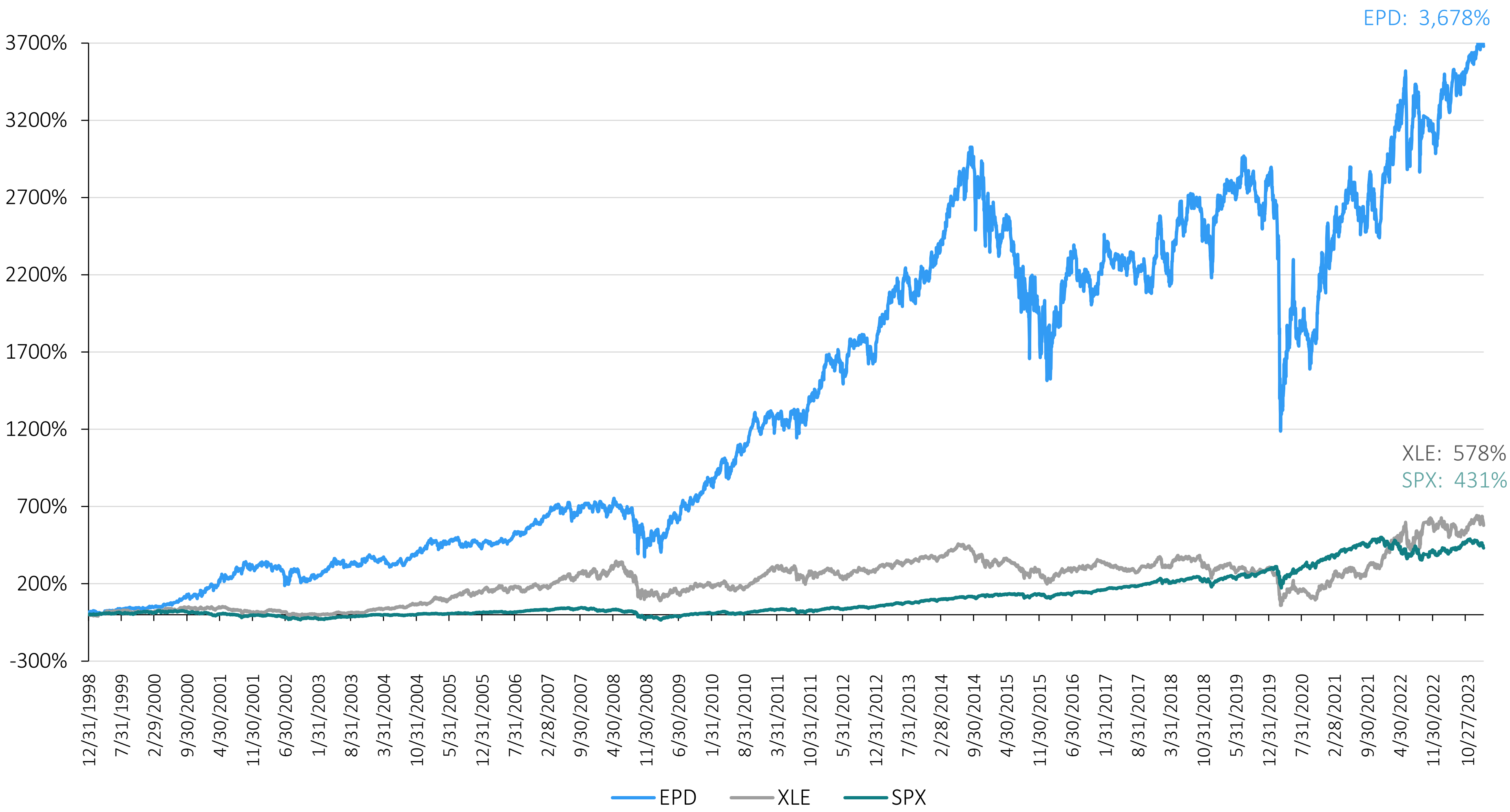
In comparison to “Dividend Aristocrats”, Enterprise meets or exceeds many metrics of “25 Year” companies; further, as we look ahead to the next 25 years, Enterprise is already comparable to “40–50 Year” aristocrats





Source: Bloomberg data as of November 1, 2023; excludes qualifying utility, financial and real estate companies
“ROE” means return on equity.
Note: “S&P Rating” exclude companies with no rating

Total Return Since 1998 of XLE, SPX and EPD



Source: Bloomberg as of October 27, 2023; EPD, XLE, and SPX values represent the total return of the applicable stock or fund since 12/31/1998, including dividends
Past results may not be indicative of future performance.

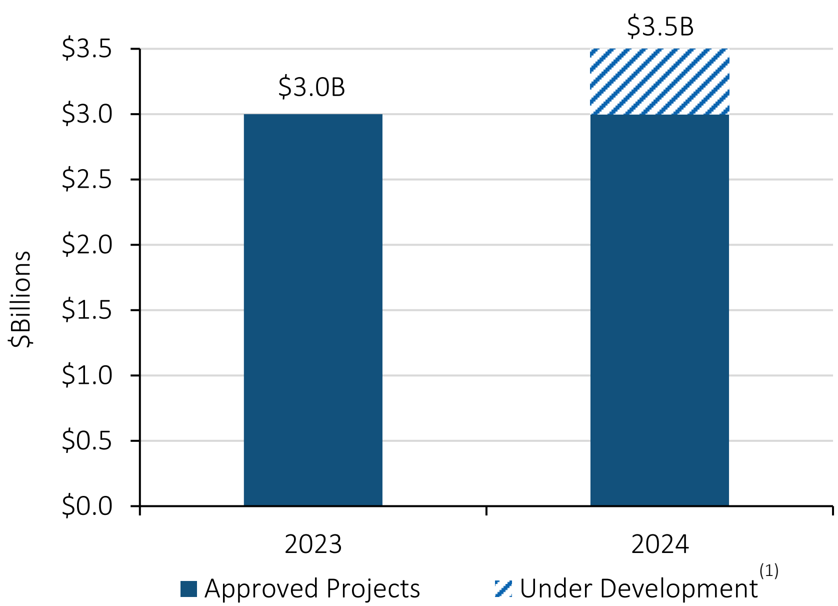
Growth Capital Updates

≈$6.8B of Approved Major Projects Under Construction

	Capital Project Summary	Forecast In-Service
Natural Gas Liquids	Leonidas Plant (Midland Basin)	1Q 2024
	Orion Plant (Midland Basin)	2H 2025
	Mentone 2 Plant (Delaware Basin)	In Service
	Mentone 3 Plant (Delaware Basin)	1Q 2024
	Mentone 4 Plant (Delaware Basin)	2H 2025
	Bahia Pipeline	1H 2025
	Fractionator 14	2H 2025
	Neches River Ethane / Propane Export Terminal	2H 2025 & 1H 2026
	EHT Export Facility Upgrades	1H 2025
Natural Gas	Permian Gathering Expansions	2023 & 2024
Petchem & Refined Products	Texas Western Products System	4Q 2023[(2)]
	Ethylene Export Expansion	2H 2024 & 2H 2025

Major Growth Capital Project Summary	$Billions
Under Construction (8/1/2023)	$4.1
Assets Placed into Service Mentone 2 Plant & Permian Gathering Projects	($0.4)
New Projects Midland Basin Orion Plant Mentone 4 Plant Bahia Pipeline Fractionator 14	$3.1
Under Construction (10/31/2023)	$6.8

Estimated Annual Organic Growth Capital Spending

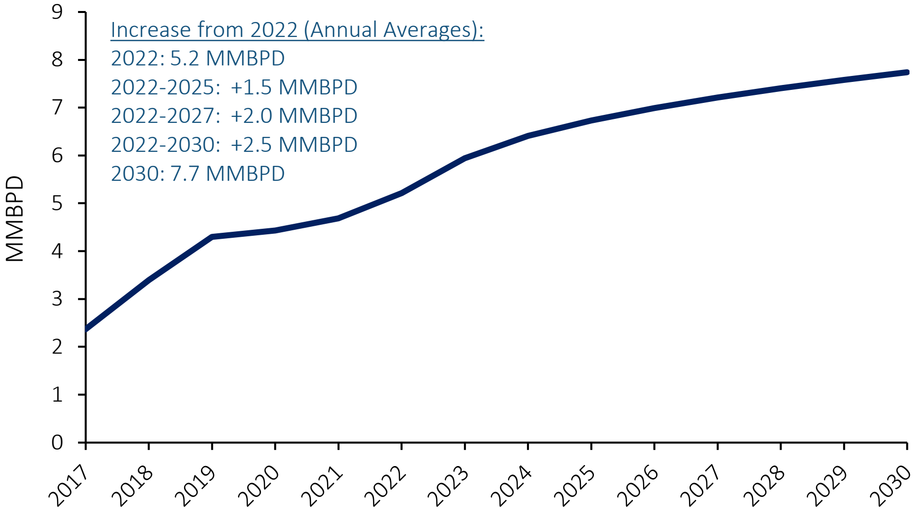


(1) Projects under development have not been sanctioned; excludes capital investments associated with the SPOT export terminal, which is pending receipt of license and FID
(2) Represents the forecasted in-service date of "Phase 1" of the Texas Western Products System; "Phase 2" is expected to be completed in 1H 2024
Note: The table and graphs above include a selection of highlighted projects, and does not represent the entirety of projects included in the estimated amounts

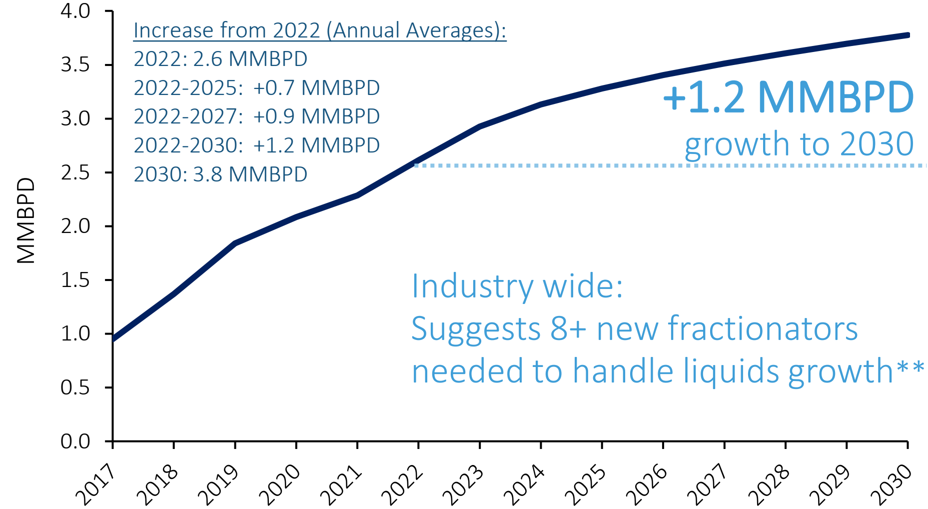
Permian Production Forecasts

Crude Oil, NGLs and Natural Gas

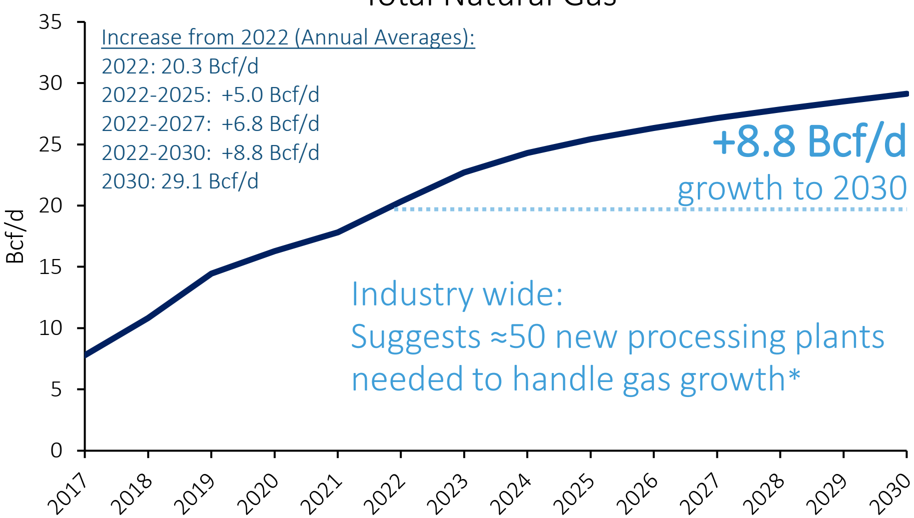
Oil



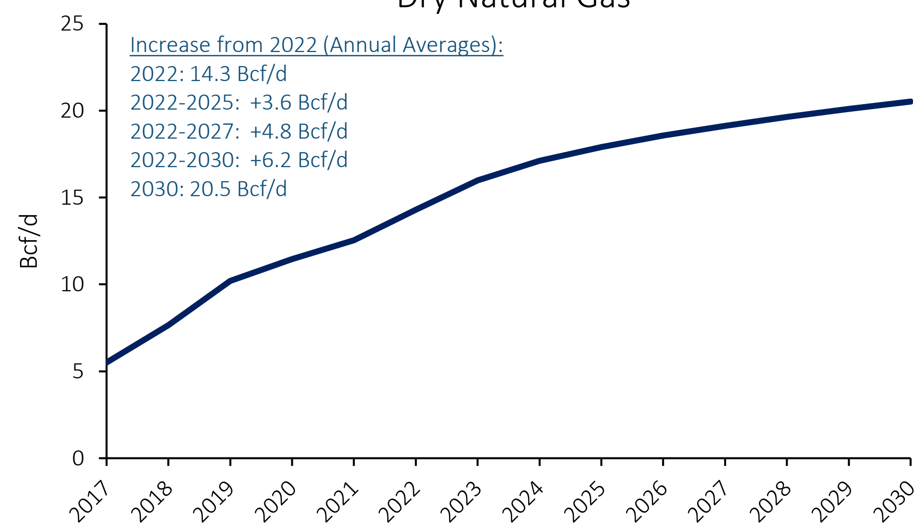
NGLs



Total Natural Gas



Dry Natural Gas

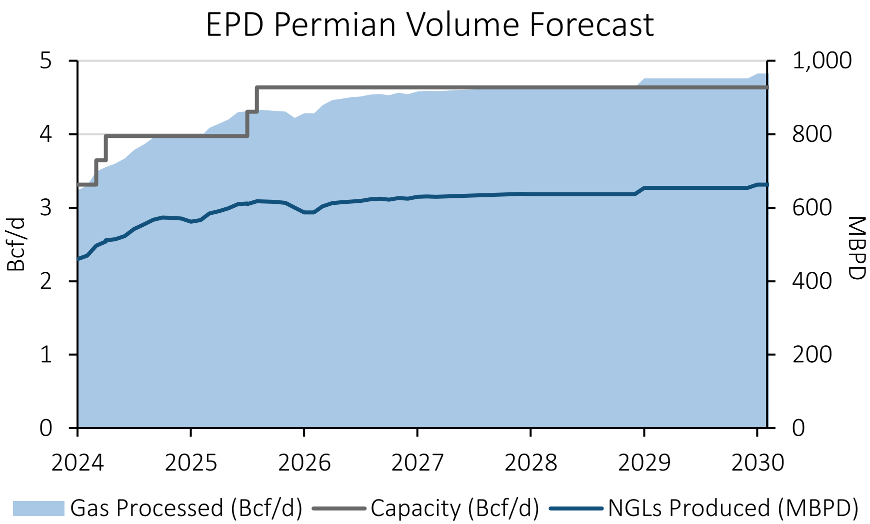


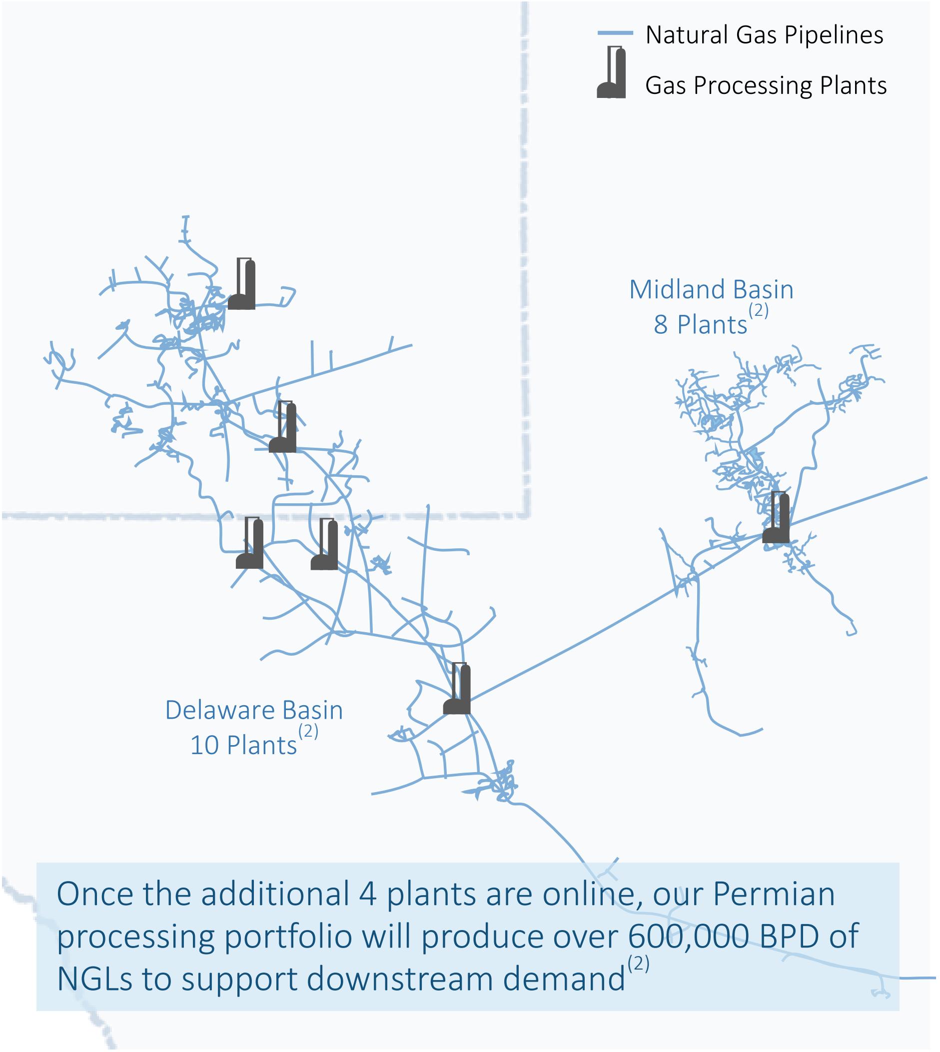
Note: Permian Basin activity (rig counts and frac crews) held essentially flat for the forecast period.
Sources: EPD Fundamentals and Enverus

*Assumes +8.8 Bcf/d gas growth from 2022 / 225 MMcf at 85% operating capacity per processing plant
**Assumes +1.2 MMBPD liquids growth from 2022 / 150 MBPD max capacity per fractionator

Permian Gathering and Processing

Feeding the Value Chain for Years to Come





4 new gas plants in 2024–2025 scheduled to increase processing by 1.2 Bcf/d:

- 0.3 Bcf/d with Leonidas in 1Q 2024[(1)]
- 0.3 Bcf/d with Mentone 3 in 1Q 2024[(1)]
- 0.3 Bcf/d with Orion in 2H 2025[(1)]
- 0.3 Bcf/d with Mentone 4 in 2H 2025[(1)]

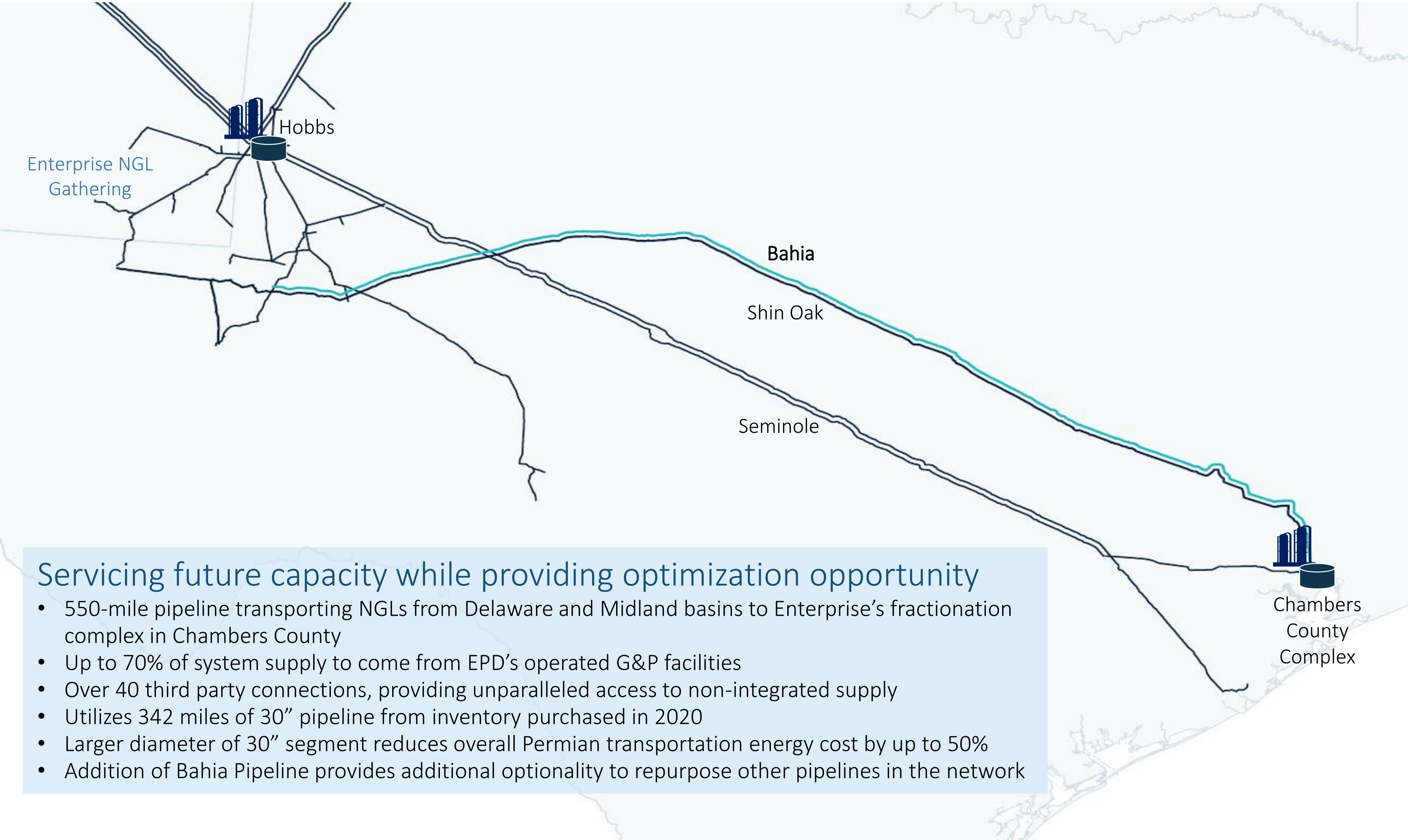
Midland field compression horsepower scheduled to increase 44% in 2024–2025

Once the additional 4 plants are online, our Permian processing portfolio will produce over 600,000 BPD of NGLs to support downstream demand[(2)]

Source: EPD Fundamentals
(1) Estimated in-service date
(2) Number of plants includes new plants expected to be in service 2024–2025

Permian NGL Takeaway

Adding Bahia Pipeline to the Integrated Network



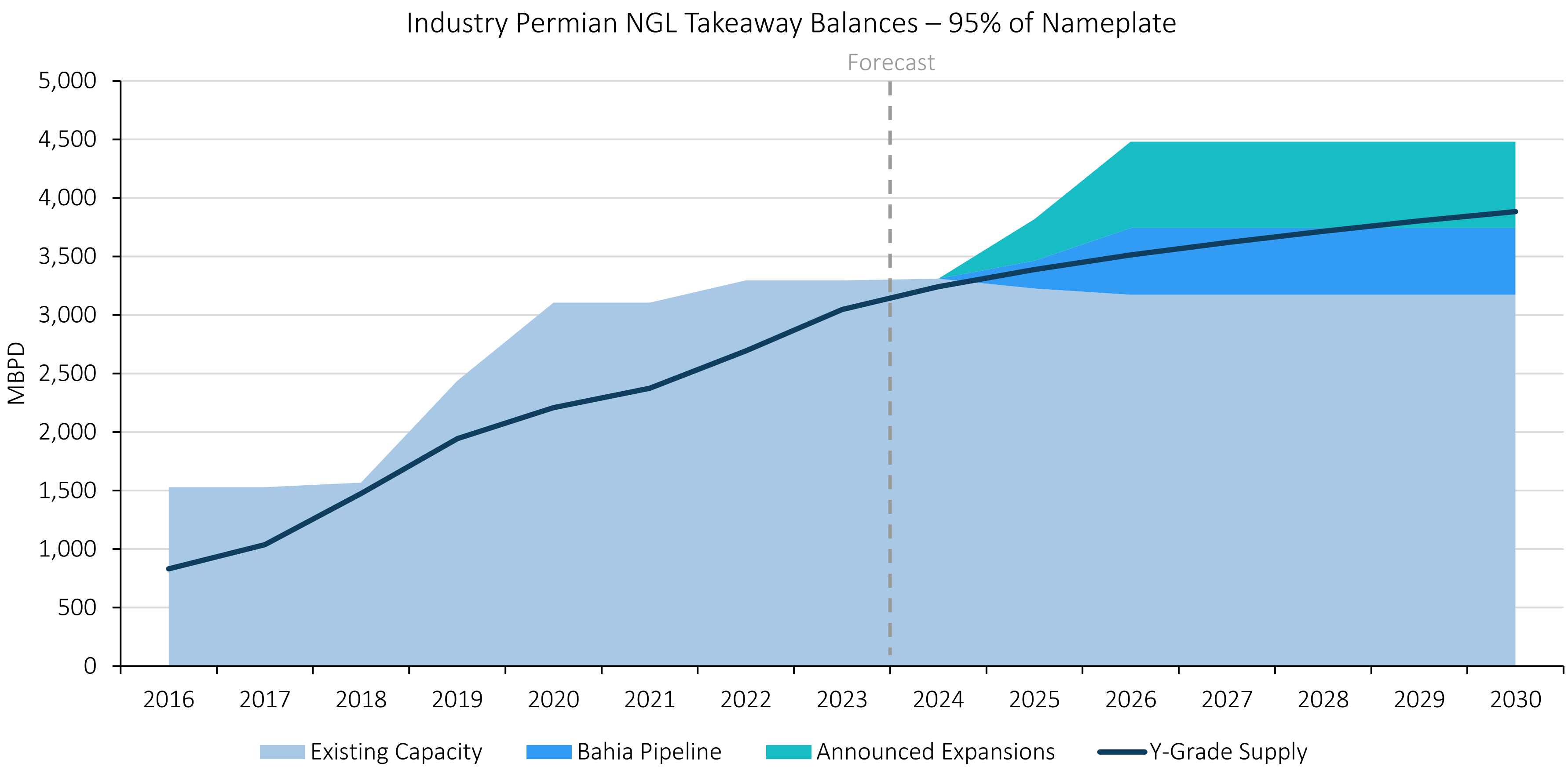
Servicing future capacity while providing optimization opportunity

- 550-mile pipeline transporting NGLs from Delaware and Midland basins to Enterprise's fractionation complex in Chambers County
- Up to 70% of system supply to come from EPD's operated G&P facilities
- Over 40 third party connections, providing unparalleled access to non-integrated supply
- Utilizes 342 miles of 30" pipeline from inventory purchased in 2020
- Larger diameter of 30" segment reduces overall Permian transportation energy cost by up to 50%
- Addition of Bahia Pipeline provides additional optionality to repurpose other pipelines in the network

Source: EPD Fundamentals

Permian Takeaway Balances

Supply Growth Sustains High Industry Utilization

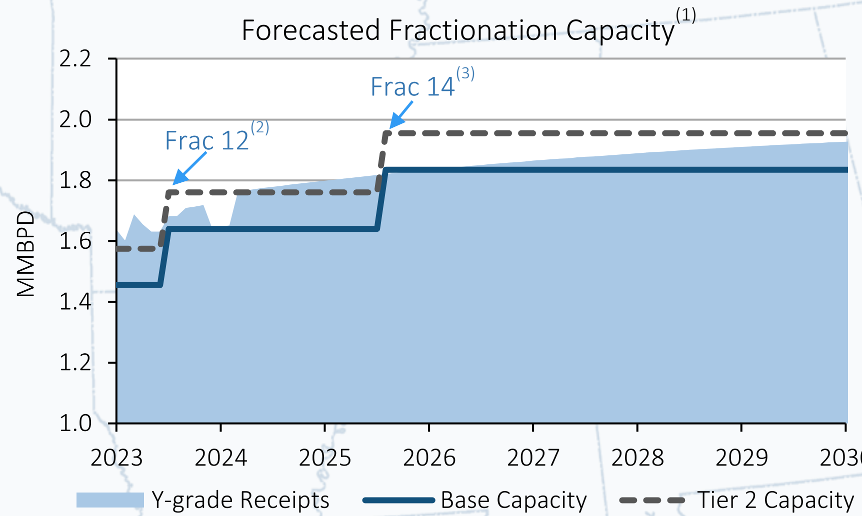


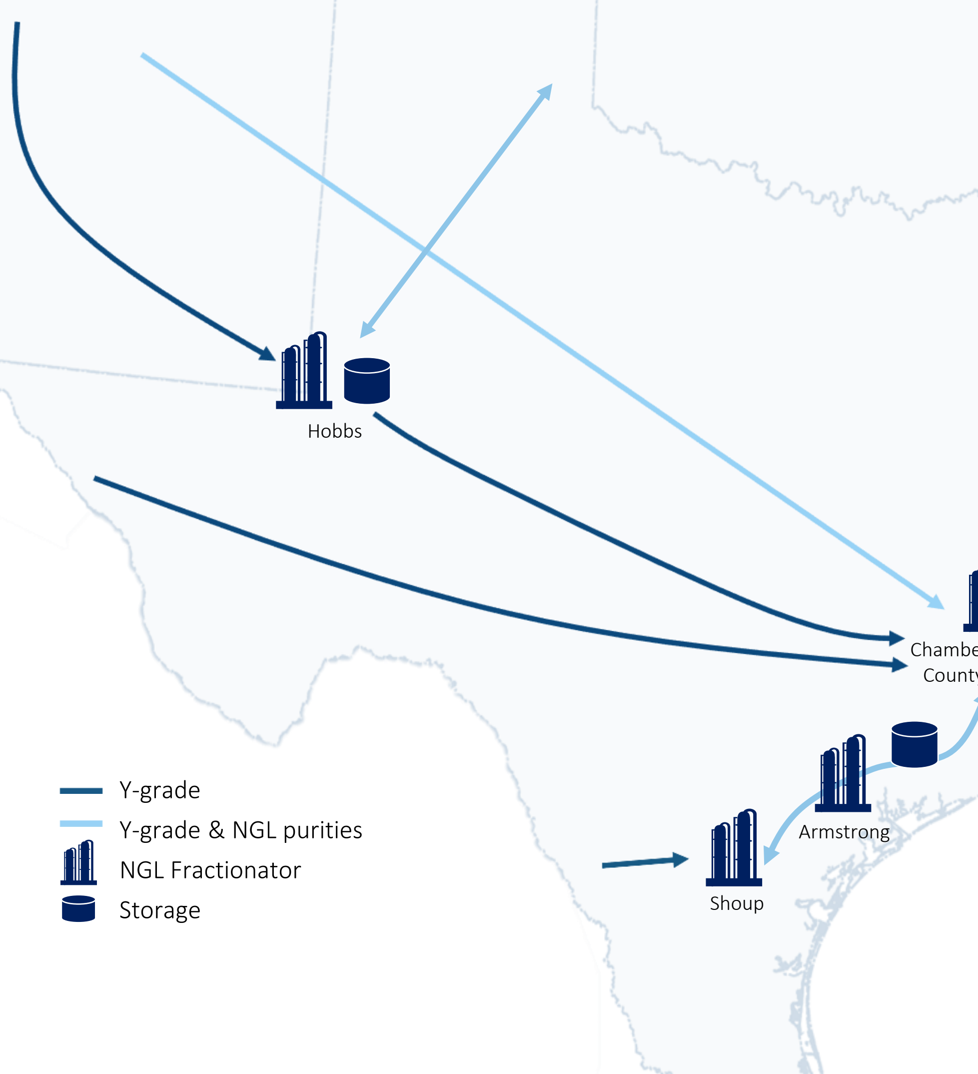
Year	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
% Utilization	54%	68%	94%	80%	71%	76%	82%	92%	98%	89%	78%	81%	83%	85%	87%

Source: EPD Fundamentals

Fractionation Integration

Leveraging Existing Infrastructure





Maximizing value of our fractionation footprint

- Interconnected Y-grade system allows fractionation capacity to be optimized according to demand
- Chambers County storage warehouses gaps between supply and additional fractionation expansions
- Frac 14 will add 195 MBPD of incremental capacity

(1) Inclusive of Joint Venture fractionation capacity
(2) Frac 12 was placed into service in July 2023
(3) Frac 14 is estimated to be placed into service 2H 2025

Section 2: Fundamentals, Commercial & Finance Materials

Enterprise Products Partners L.P.

Fundamentals

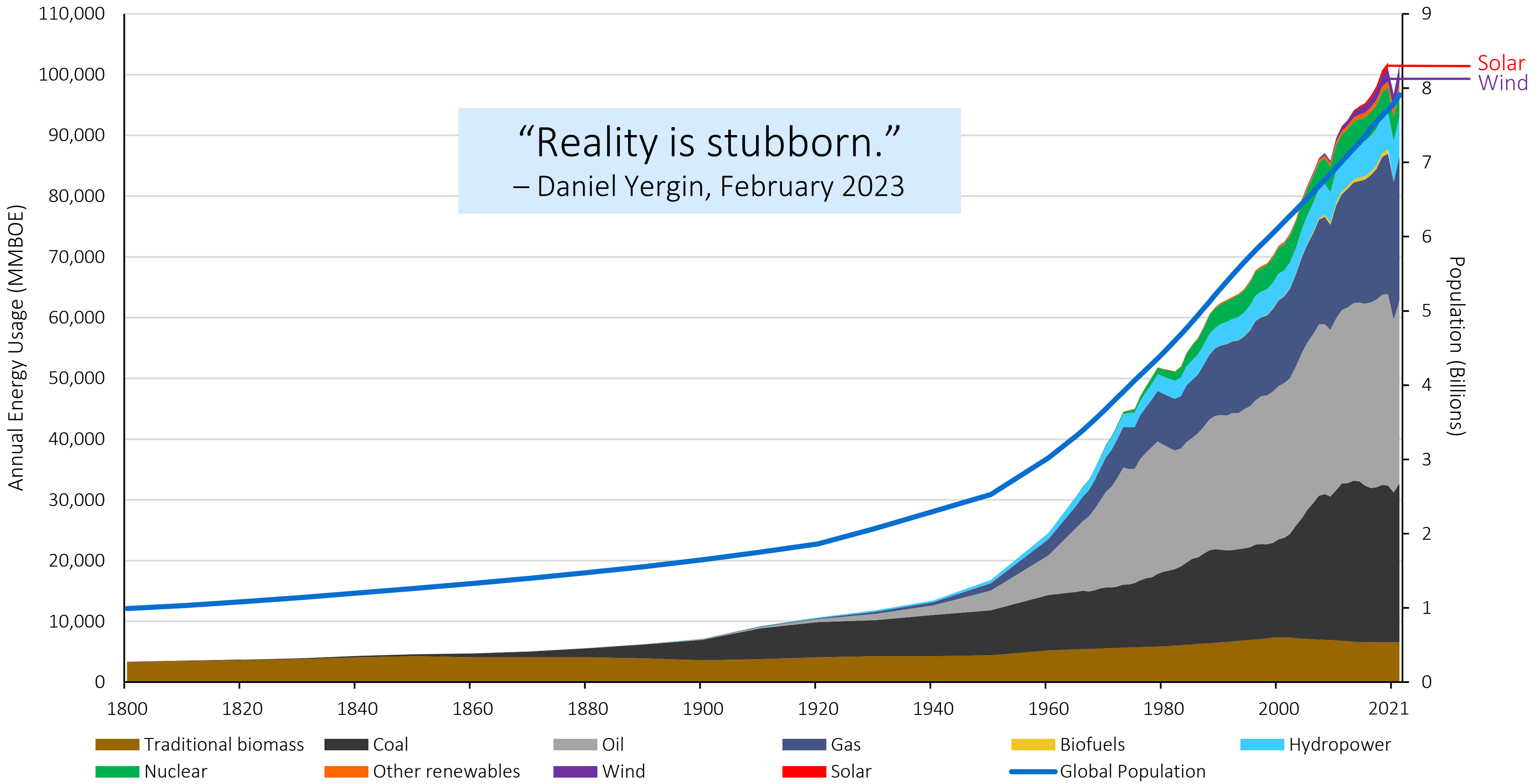
Enterprise Products
Partners L.P.

The World Has Never Done Energy "Transition"

Global Population Growth Drives Energy "Addition"

Over the past century, global energy usage increased rapidly in connection with industrialization and rising global population. Further, from 1965 to 2021, per capita energy consumption grew 61%.

Historical Energy Demand by Source vs. Population Growth



Source: Our World in Data, a collaborative effort between researchers at Oxford University and Global Change Data Lab

 enterpriseproducts.com

Human Development Index

UN Development Programme (UNDP)

UNDP Human Development Index (HDI)

- UNDP began measurement in 1990
- Emphasis on expanding people's freedoms and opportunities rather than just economic growth
- HDI captures human progress in terms of people's health, education and income in one number
- Classifications: Low (HDI), Medium (MHDI), High (HHDI) and Very High (VHDI)

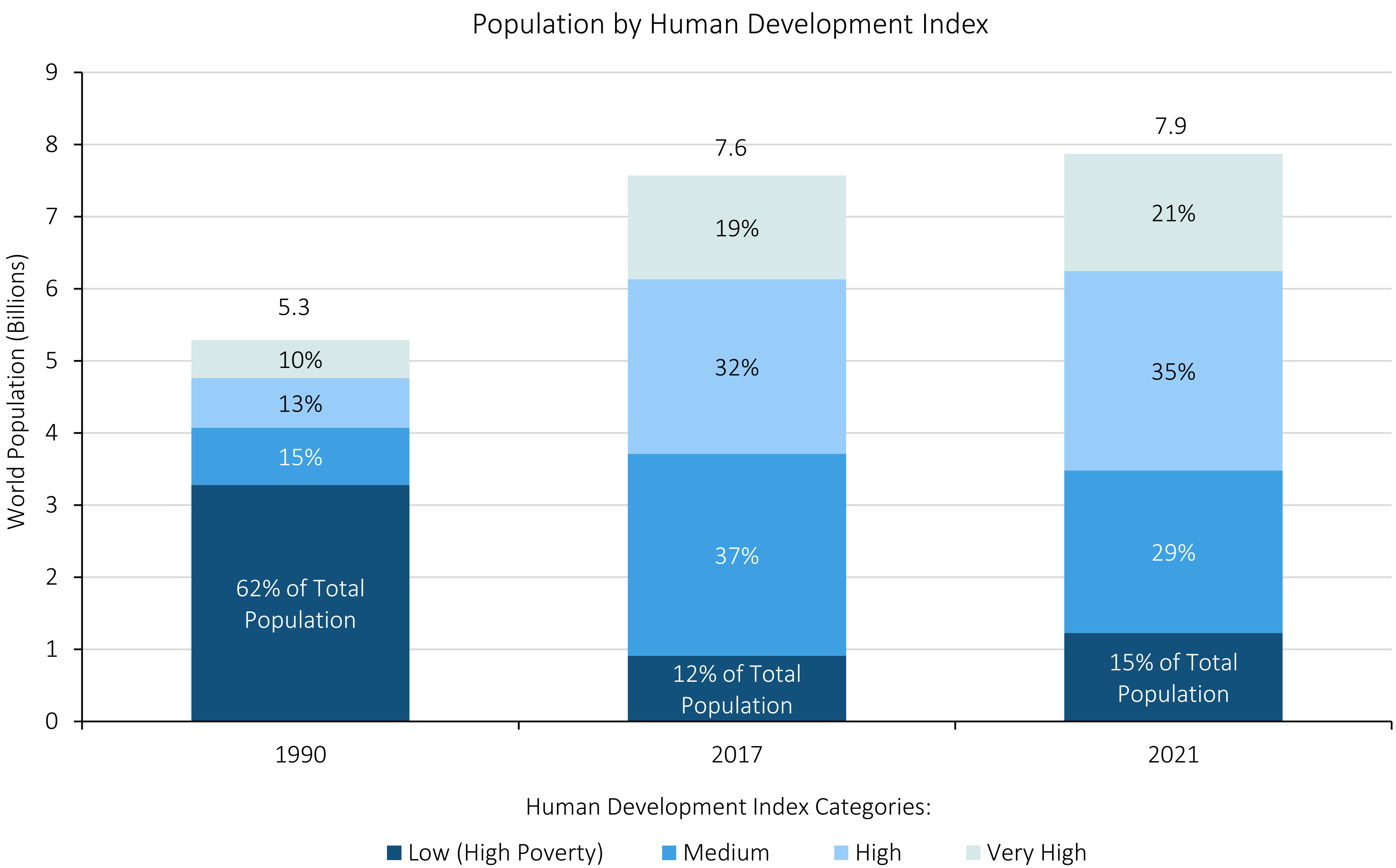
Dimensions	Long and Healthy Life	Knowledge	Decent Standard of Living
Indicators	Life expectancy at birth	Years of education (expected and mean)	Gross National Income (GNI) per capita
Dimension Index	Life Expectancy Index	Education Index	GNI Index

Human Development Index (HDI)

Source: United Nations Development Programme

Human Development Index (HDI) Gains

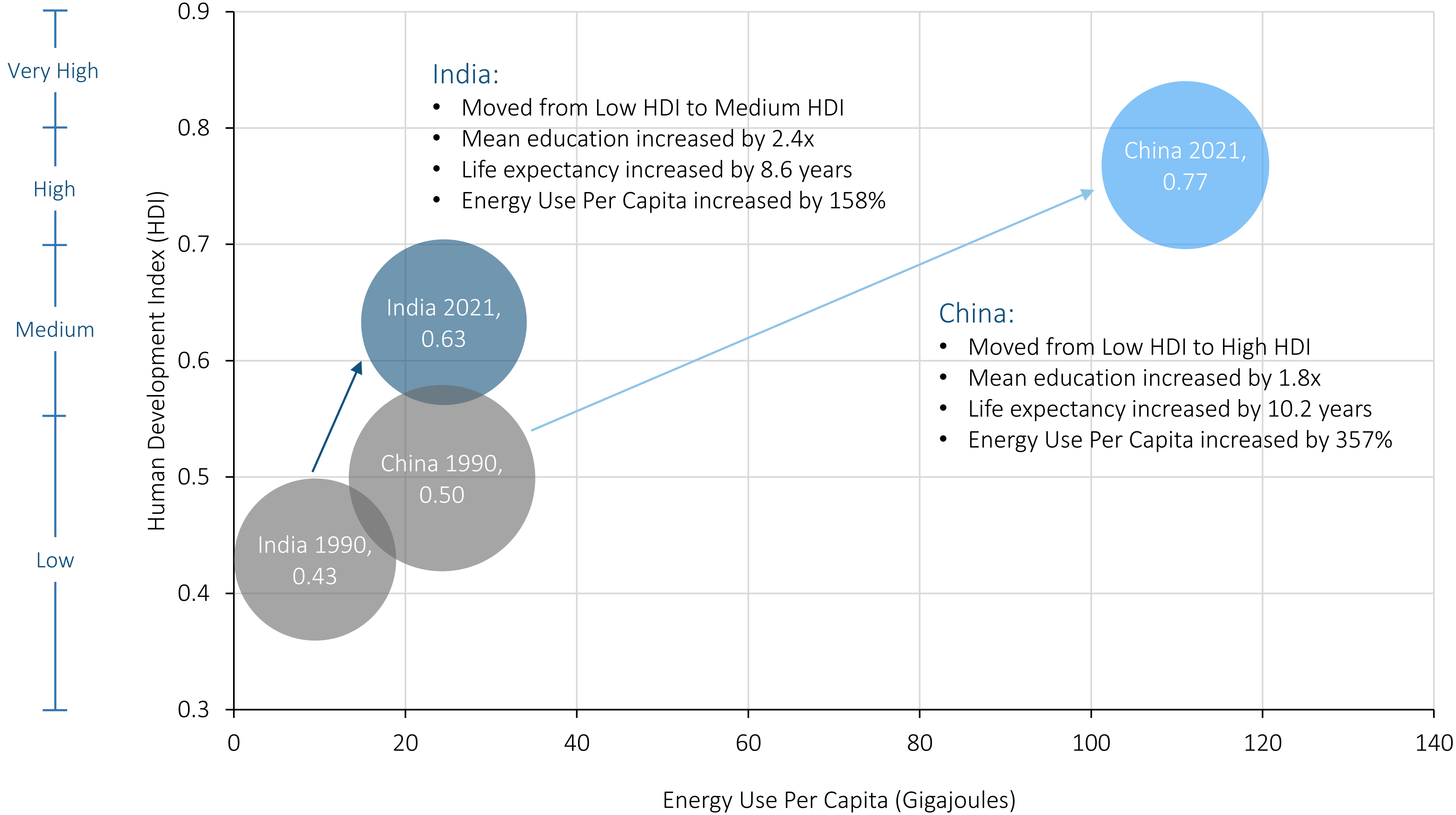
Energy Use Lifts People Out of Poverty Despite Population Growth



Source: 2021 United Nations Development Programme; Our World in Data

China and India HDI Gains Since 1990

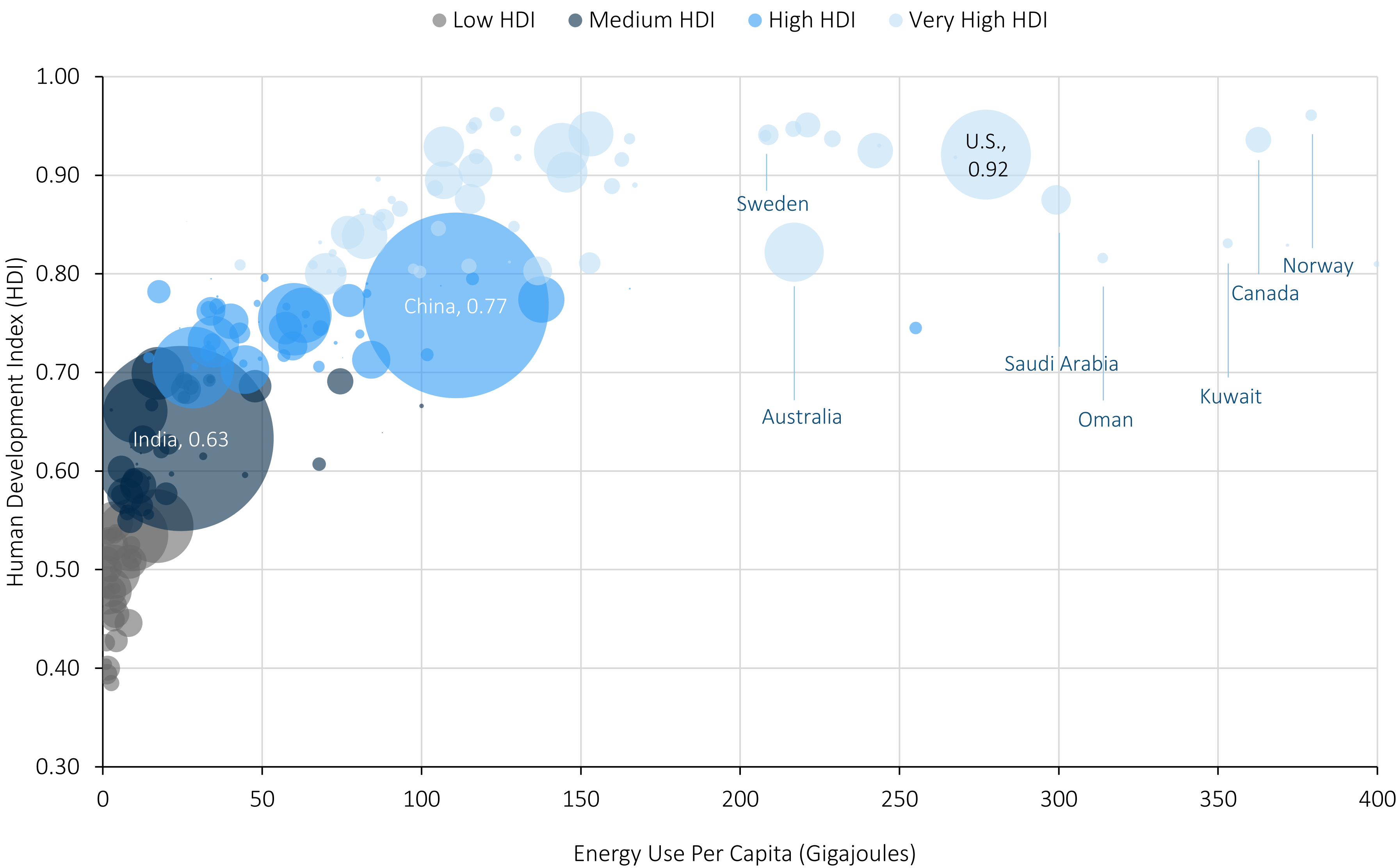
Continued Improvement in Quality of Life is Correlated to Energy Use



Source: 2021 United Nations Development Programme; Our World in Data

Energy Is Essential For HDI Improvement

HDI vs. Energy Use Per Capita



Source: 2021 United Nations Development Programme; Our World in Data

U.S. Oil & Gas and Global Energy Security

Global Population Growth Requires "All of the Above" Energy Sources

Energy Security has replaced **Energy Transition** as highest priority

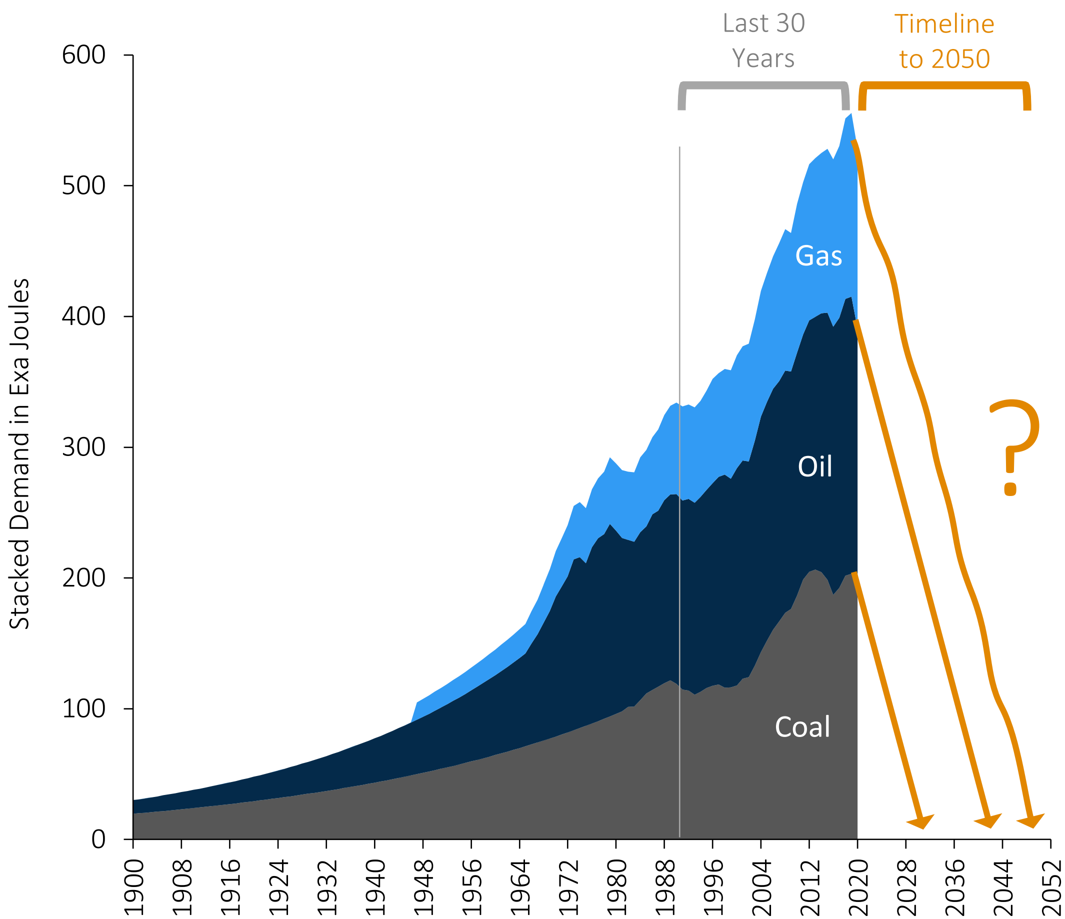
Energy **"transition"** is really energy **"addition"**

U.S. oil & gas industry will be the **first mover in significant CCUS*(1)* projects**

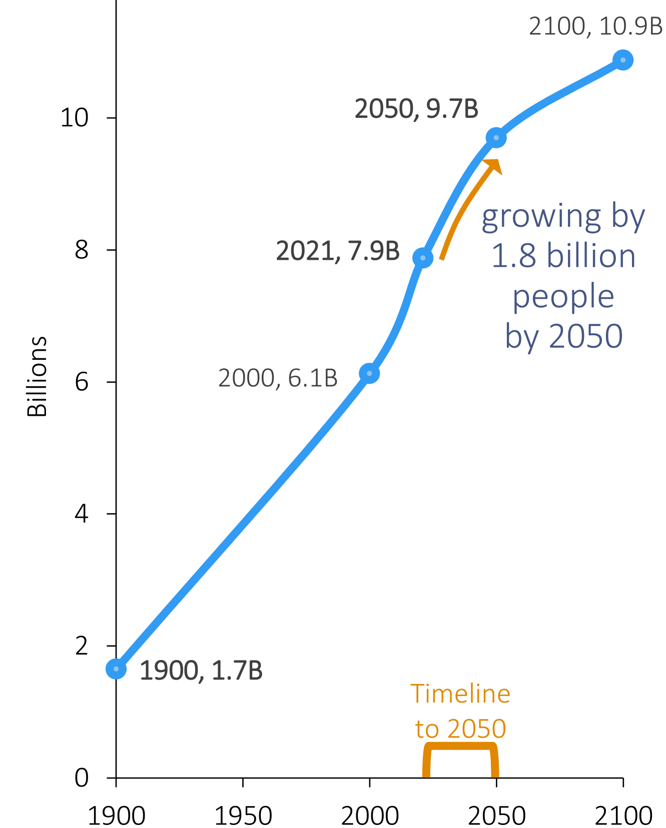
(1) "CCUS" means carbon capture, utilization, and storage
Sources: IEA and EPD Fundamentals

Global Energy Needs Won't Disappear Overnight

Traditional Energy Demand



Global Population

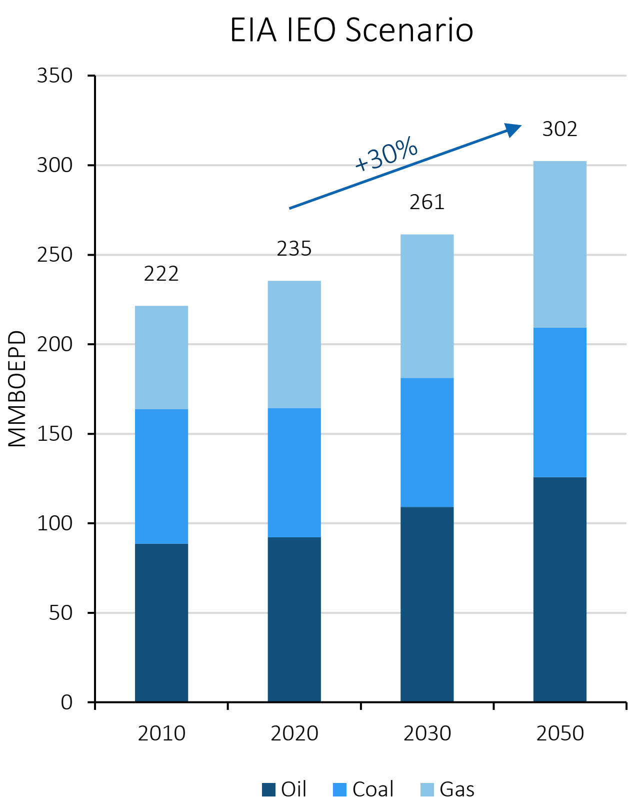


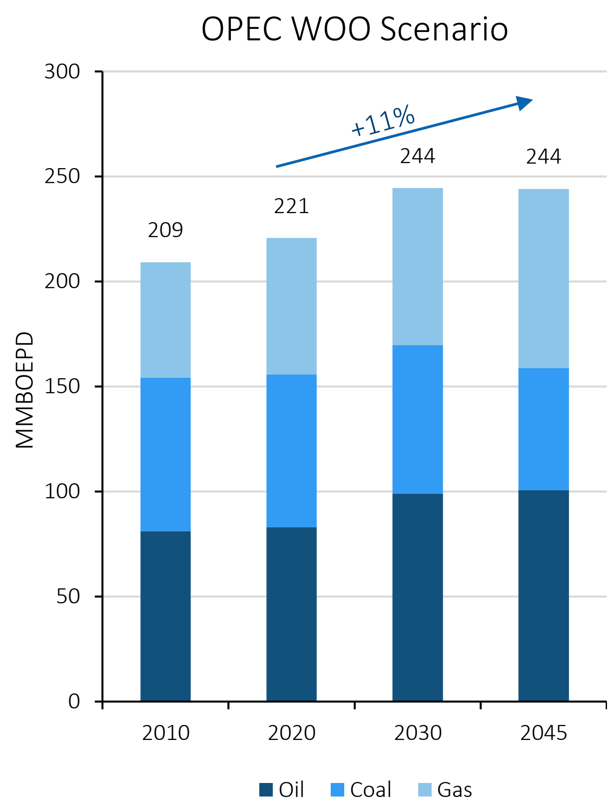
Sources: IEA, World Bank and EPD Fundamentals
Notes: Simplified view of traditional energy demand. Data prior to 1965 was estimated by following historical trends.

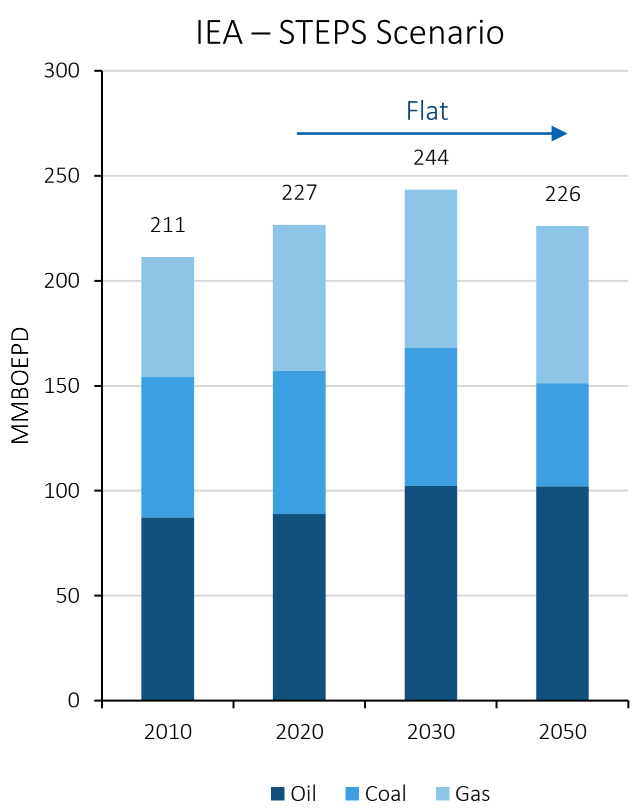
Fossil Fuel Usage Forecasted to Increase

Growth in EIA, OPEC and IEA Cases

Global 2050 fossil fuel consumption (specifically oil, gas and coal) is expected to grow, furthering the necessity for energy "addition" as the world population grows and economies develop.







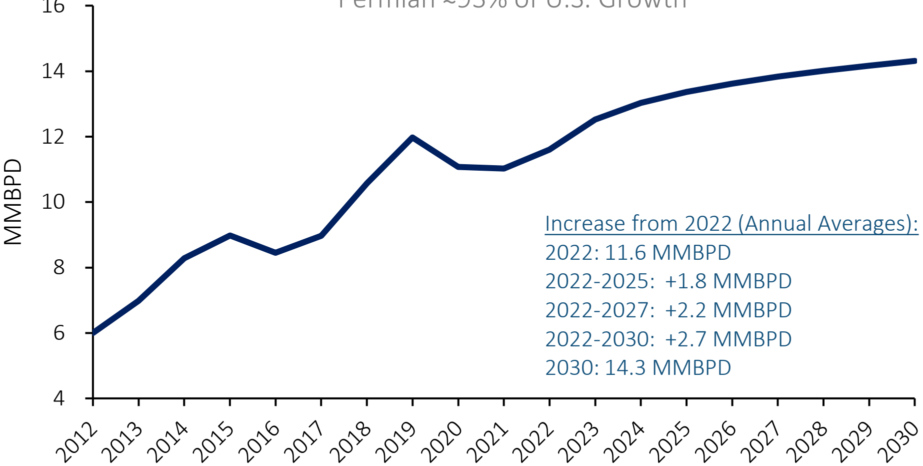
Sources: EIA International Energy Outlook (IEO) 2021; OPEC World Oil Outlook (WOO) 2022; IEA World Energy Outlook (WOE) Stated Policies Scenario (STEPS) 2022

U.S. Production Forecasts

Crude Oil, NGLs and Natural Gas

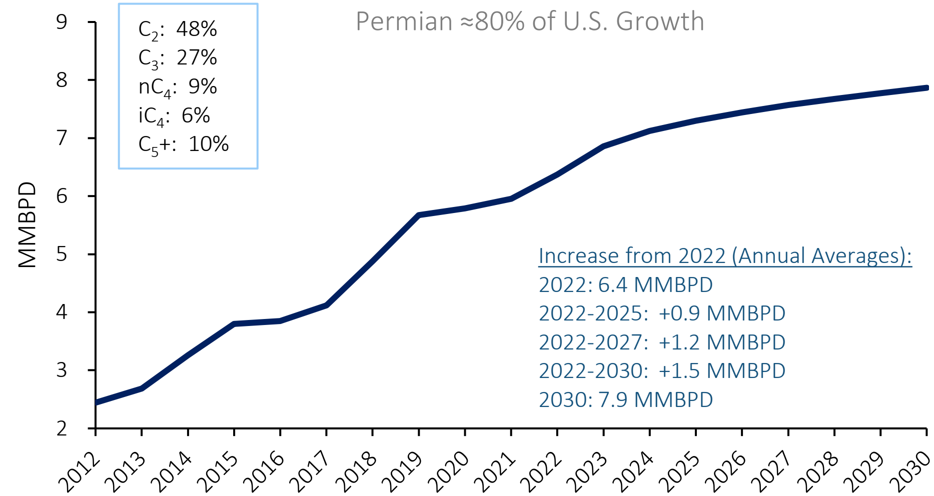
Oil

Permian ≈93% of U.S. Growth



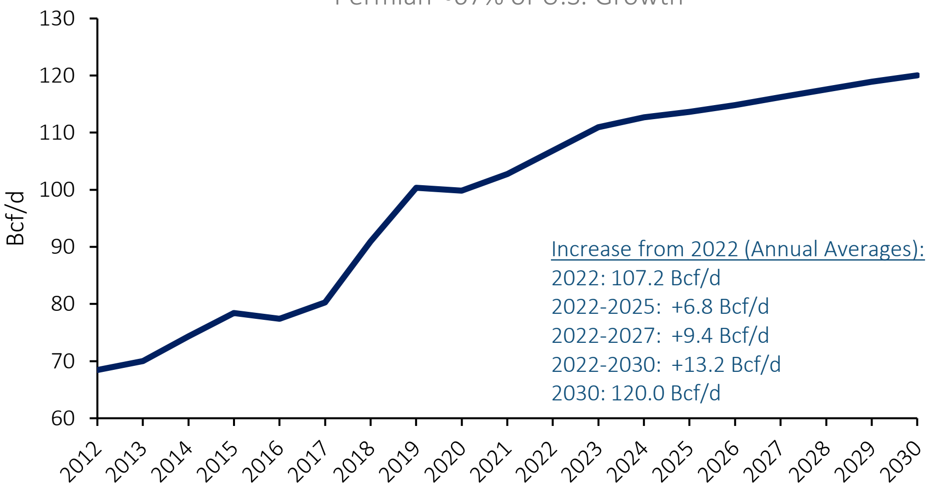
NGLs

Permian ≈80% of U.S. Growth



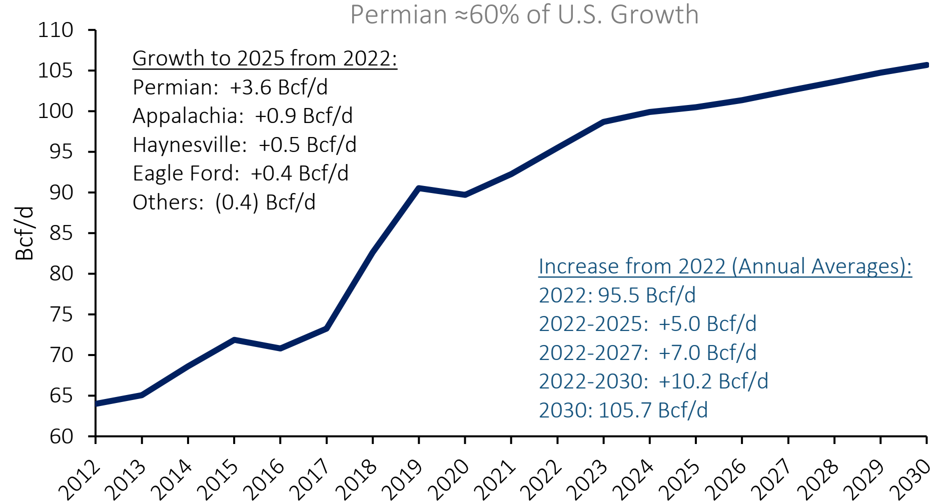
Total Natural Gas

Permian ≈67% of U.S. Growth



Dry Natural Gas

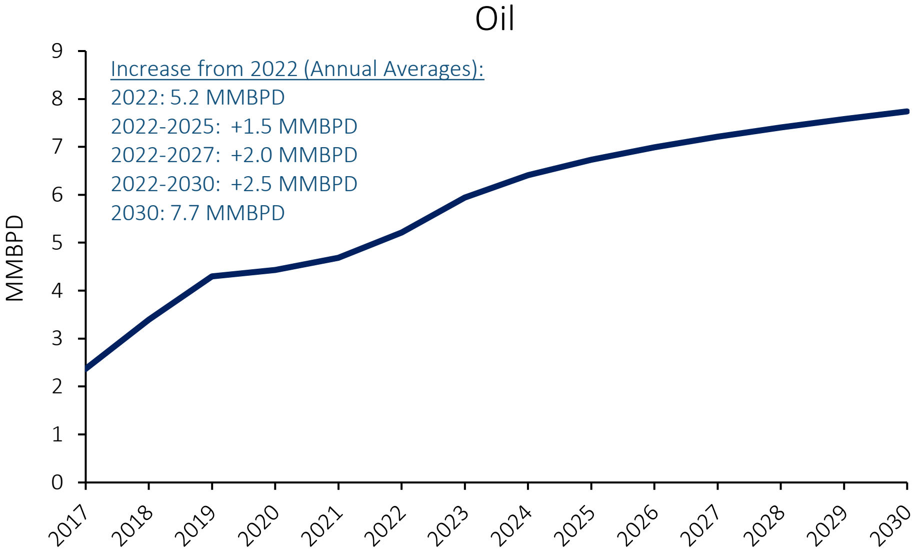
Permian ≈60% of U.S. Growth

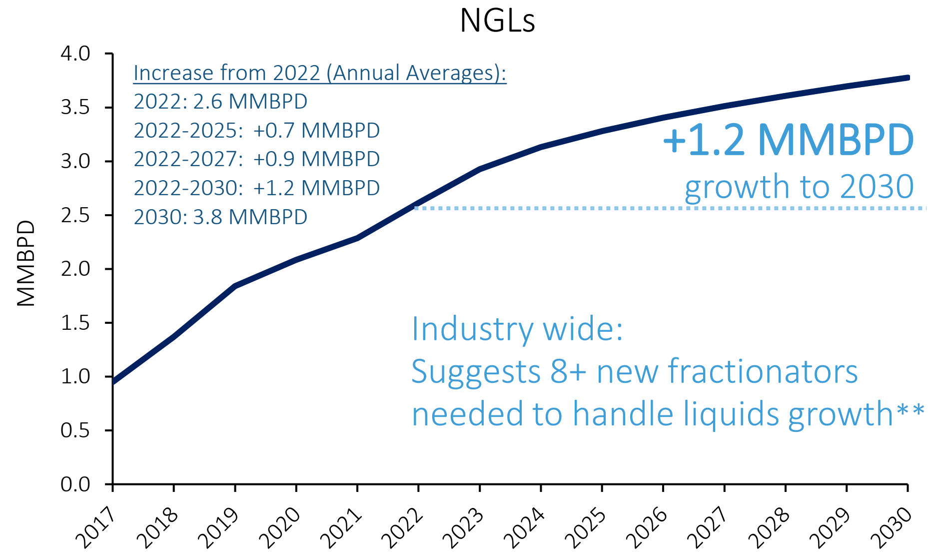


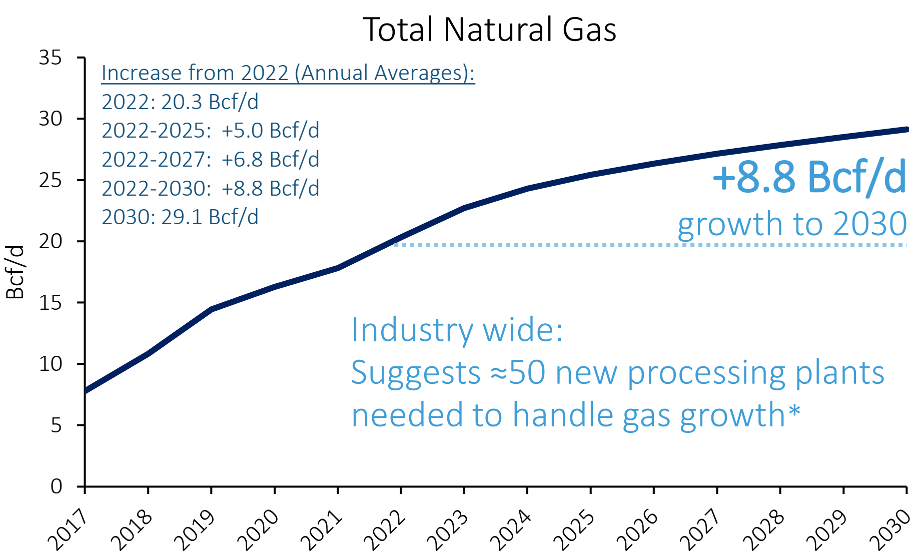
Note: Permian Basin activity (rig counts and frac crews) held essentially flat for the forecast period.
Sources: EPD Fundamentals and Enverus

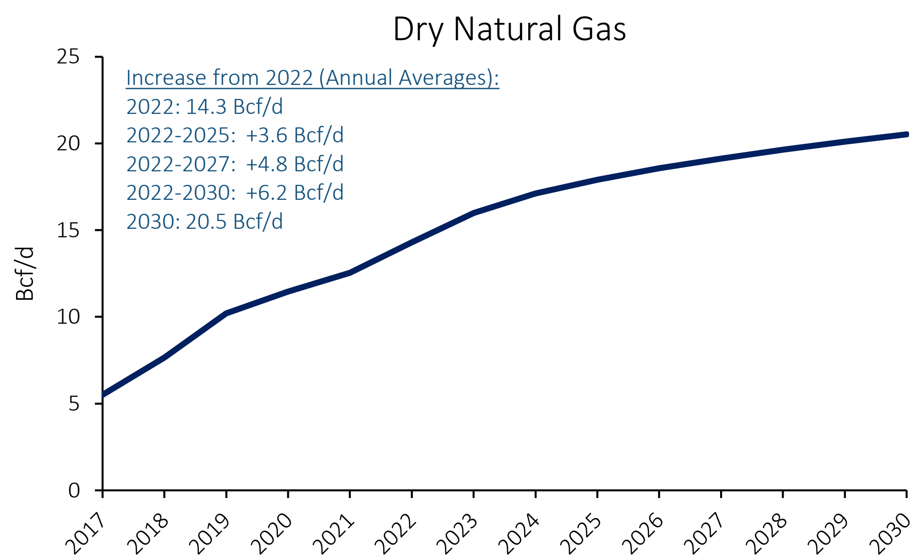
Permian Production Forecasts

Crude Oil, NGLs and Natural Gas









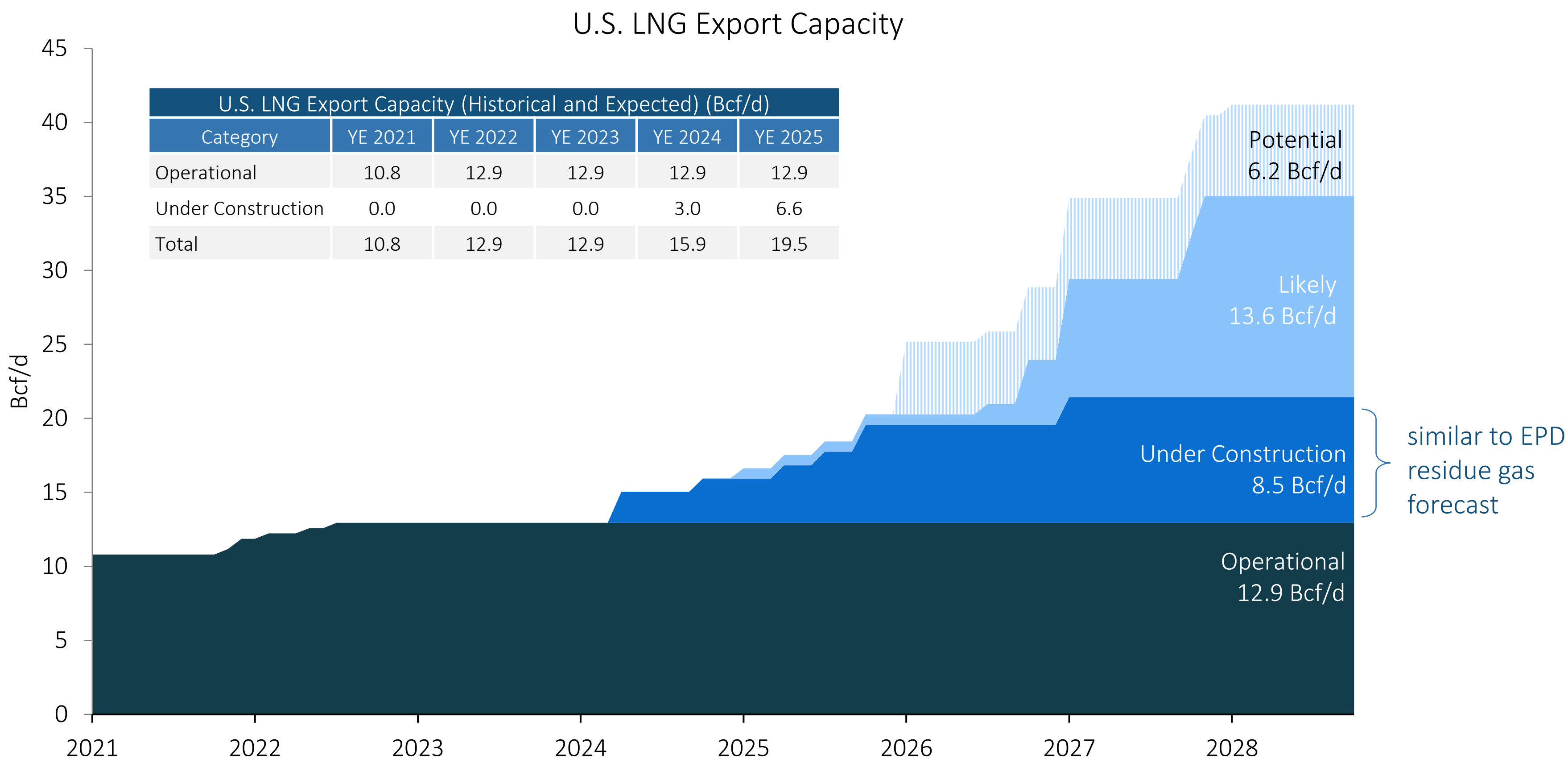
Note: Permian Basin activity (rig counts and frac crews) held essentially flat for the forecast period.
Sources: EPD Fundamentals and Enverus

*Assumes +8.8 Bcf/d gas growth from 2022 / 225 MMcf at 85% operating capacity per processing plant
**Assumes +1.2 MMBPD liquids growth from 2022 / 150 MBPD max capacity per fractionator

LNG = The Only Option for U.S. Natural Gas

Global Markets and U.S. Producers Dependent on Exports

The U.S. is the largest LNG exporter (≈13 Bcf/d) followed by Qatar (≈11 Bcf/d). The U.S. has ample gas resources to support "Potential" buildout from Appalachia, Haynesville, Rockies, Lean Eagle Ford and other basins with support from permitting, long-term contracts and price

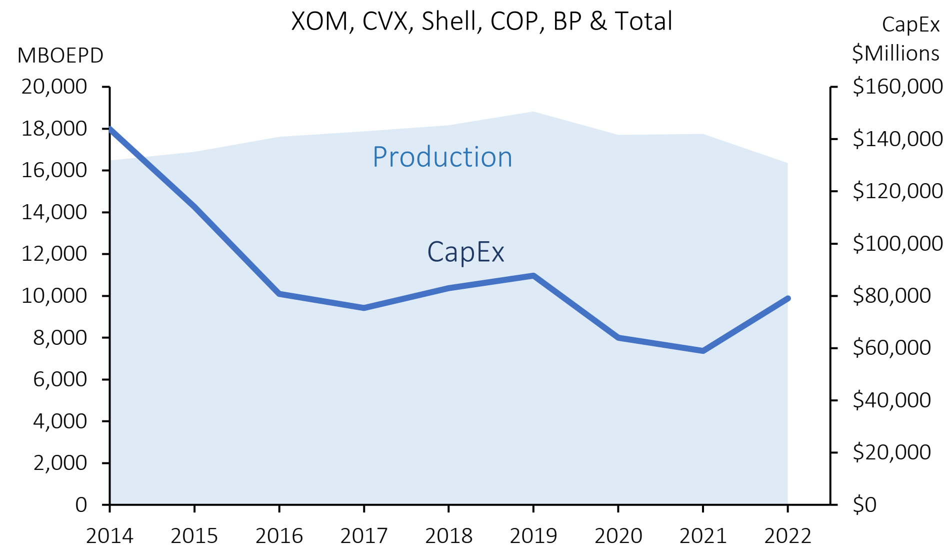


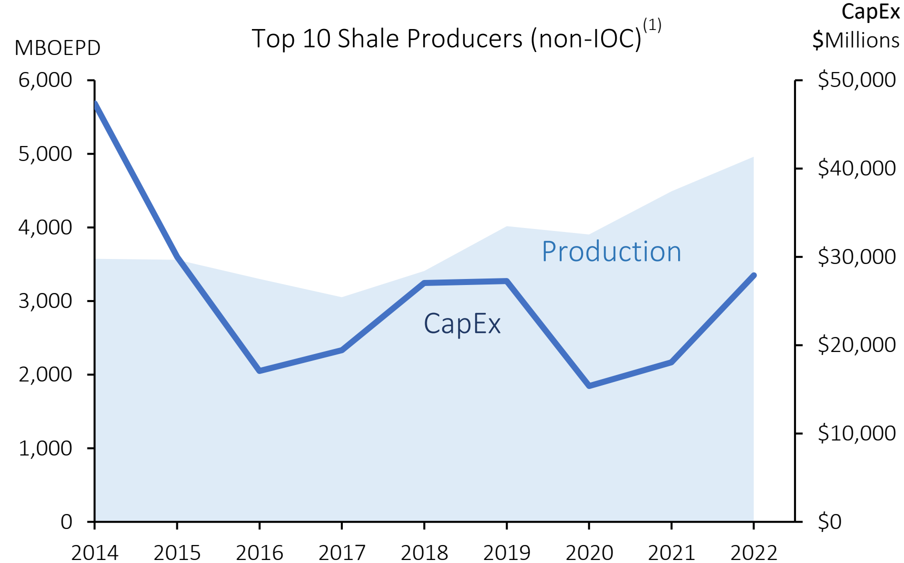
U.S. LNG Export Capacity (Historical and Expected) (Bcf/d)					
Category	YE 2021	YE 2022	YE 2023	YE 2024	YE 2025
Operational	10.8	12.9	12.9	12.9	12.9
Under Construction	0.0	0.0	0.0	3.0	6.6
Total	10.8	12.9	12.9	15.9	19.5

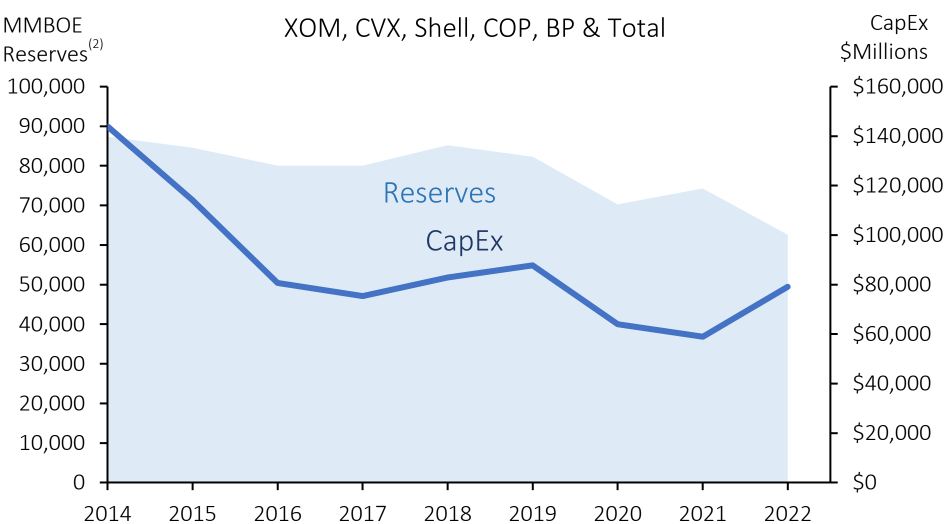
Sources: EPD Fundamentals and various companies' websites

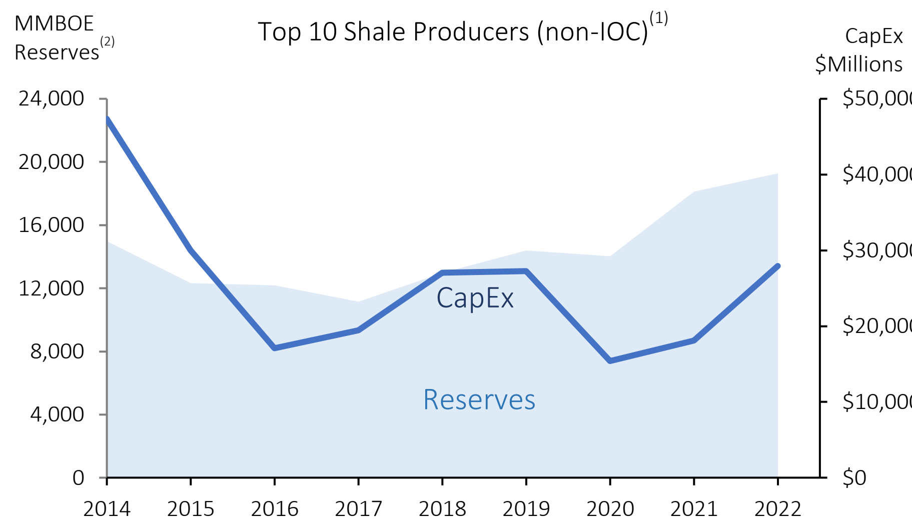
Challenge to the "Underinvestment Thesis"

Comparing Production & Reserves to Upstream CapEx Decline









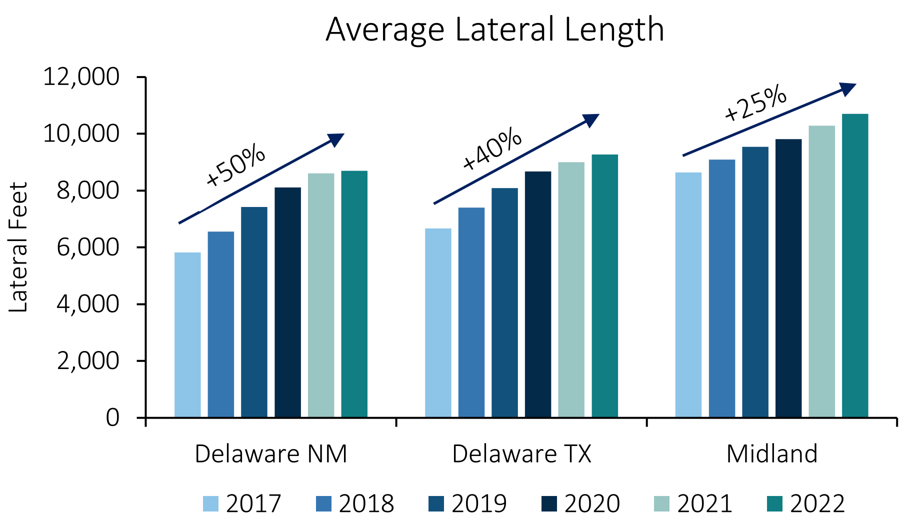
Source: Bloomberg

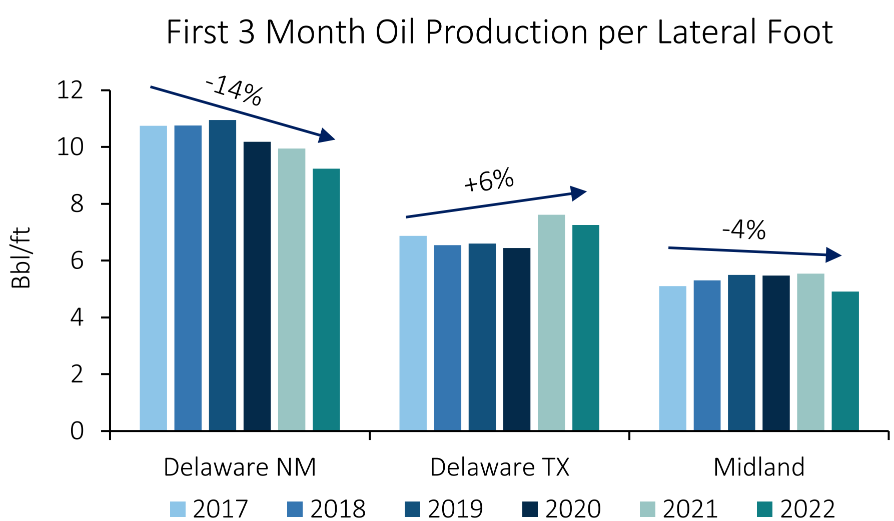
(1) "Non-IOC" producers include EOG, Devon, PXD, FANG, MRO, OVV, APA,CHRD, CTRA and HES

(2) "Reserves" mean proven reserves of oil and gas held by the company at year-end, as reported according to local country standards. Includes developed and undeveloped reserves.

Permian Basin Productivity

Production Lateral Foot vs. Lateral Lengths Since 2017



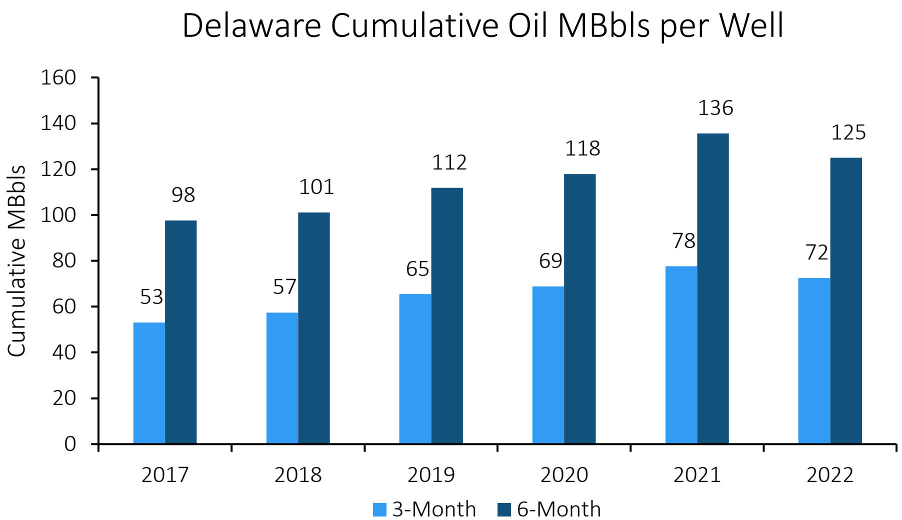


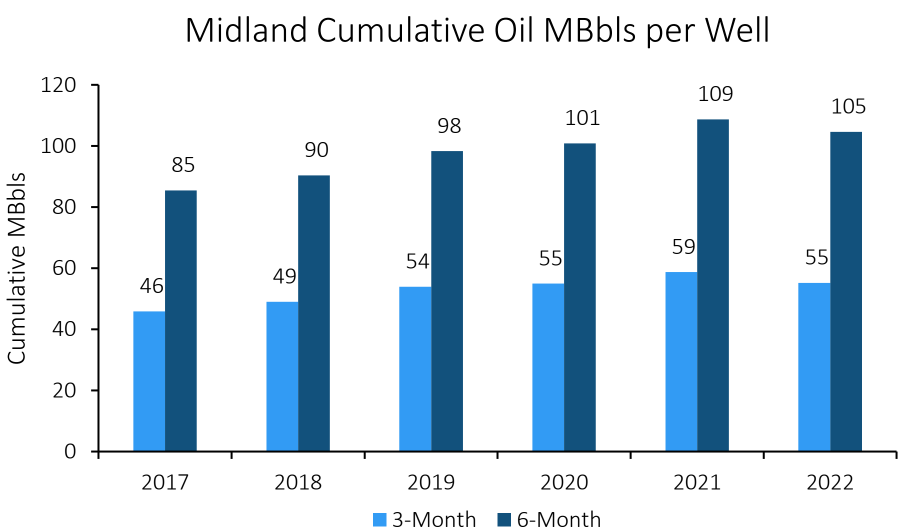
- Lateral lengths have been steadily increasing since 2017
- An extra lateral foot completed ≠ 1:1 increase in production, but it can significantly improve economics
- Producers have reduced costs per each new incrementally drilled barrel by ≈25% due to increased lateral lengths and improved operating efficiencies
- Economics are driven by production, costs and efficiencies, not by productivity per lateral foot

Sources: EPD Fundamentals and Enverus

Permian Basin Productivity

3-Month and 6-Month Production Trends Since 2017



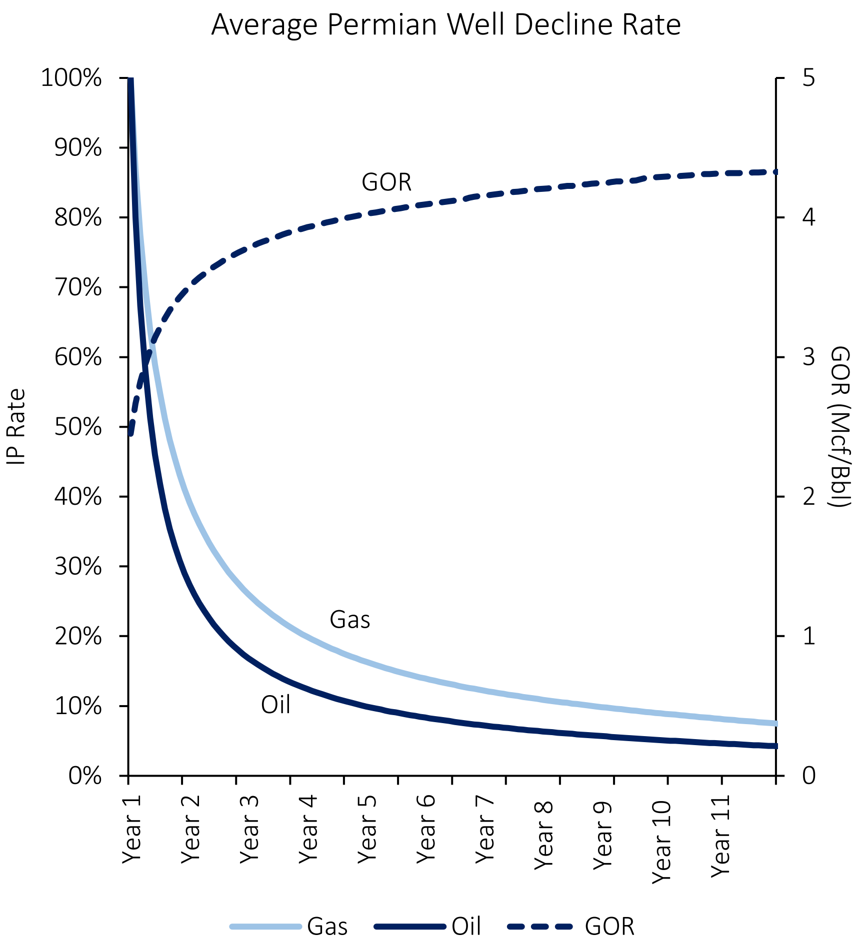


- Comparing production per well 2022 to 2017–2019 averages:
  - Delaware: 20–25% improvement
  - Midland: 10–15% improvement
    - Consider 2020-2021 outliers with wide pandemic-related swings in both drilling and completion activities
- Higher volumes attributable to longer lateral lengths and improved reservoir management (pressures & rates)
- Higher production in first 3–6 month time frame leads to higher returns
- Similar benefit seen when considering cumulative MBOE

Sources: EPD Fundamentals and Enverus

Gas-to-Oil Ratio (GOR)

Oil Production Declines at a Faster Rate than Natural Gas



Production Ratios Over Time

- Oil declines faster than natural gas; as the production rate of an oil well naturally declines, the gas produced per barrel of oil produced will increase

Permian Trends (Mcf/Bbl)

- History of Midland GOR ranges between 2.5–3.5, currently averages ≈3.3
- Delaware TX ranges from 3.7–6.2, currently around 5.3
- Delaware NM ranges from 3.2–5.7, currently around 3.75

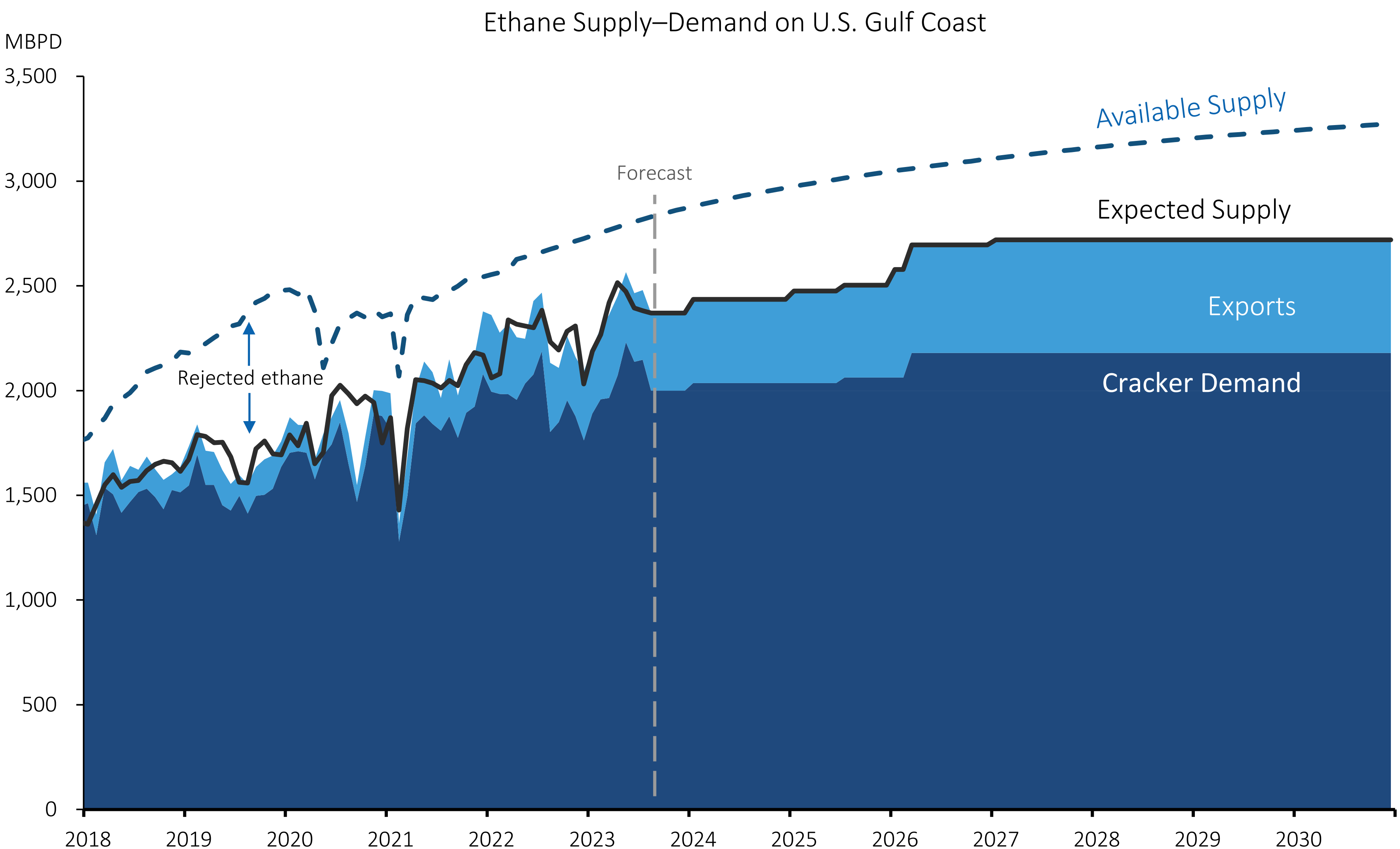
Bottom Line:

- Delaware Basin GORs are trending higher than the more established Midland Basin due to more associated gas per well
- Producers and midstreams are contracting and constructing assets accordingly

Source: EPD Fundamentals

Ethane Balances on U.S.G.C.

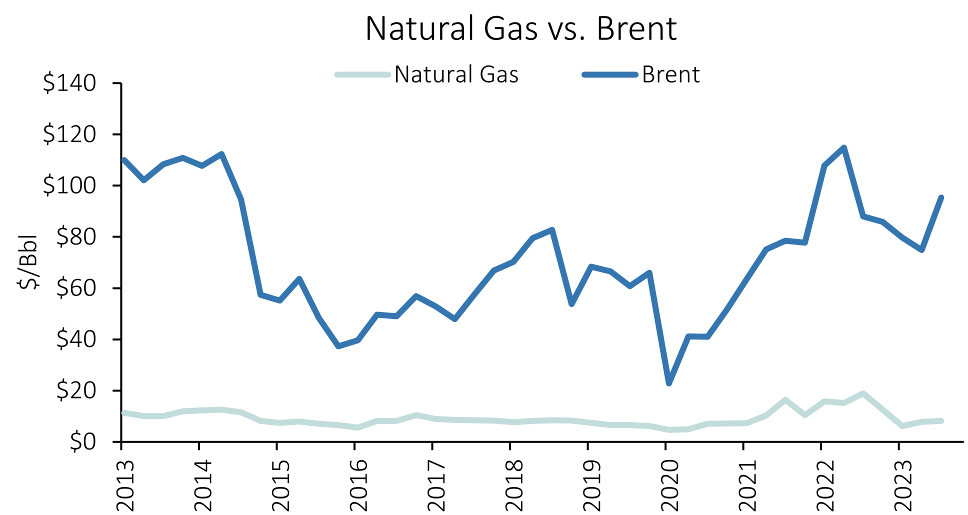
Structural Oversupply of Ethane = U.S. Petchem Cost Advantage



Sources: EPD Fundamentals and EIA

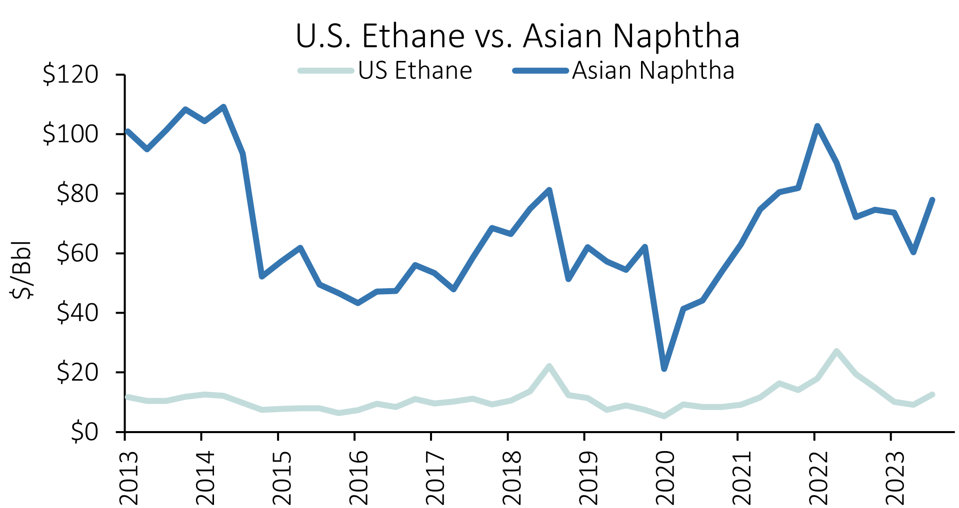
Global Ethylene Economics: It’s a Gas to Crude Story

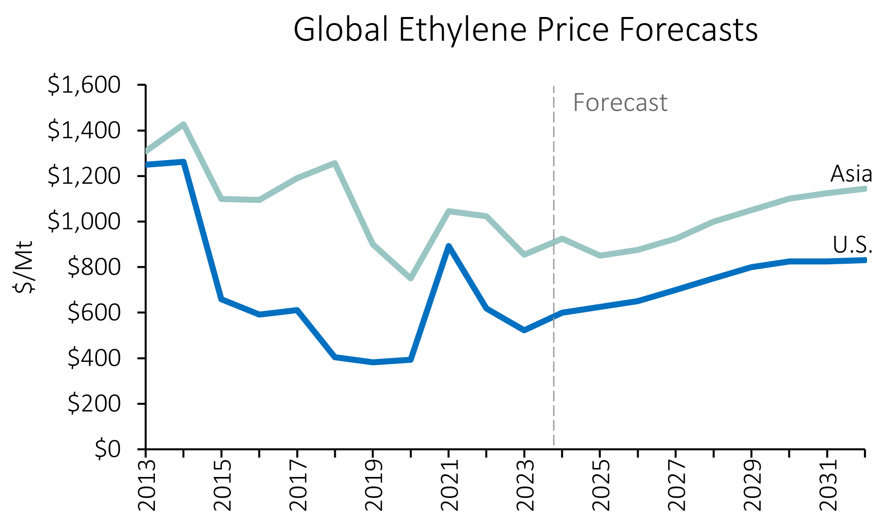
The U.S. Advantage



A wide gas-to-crude ratio is the driver for the U.S. competitive advantage in ethylene production

- Ethane will remain oversupplied, as will natural gas
- Prices for crude (and thus naphtha) are highly dependent on OPEC



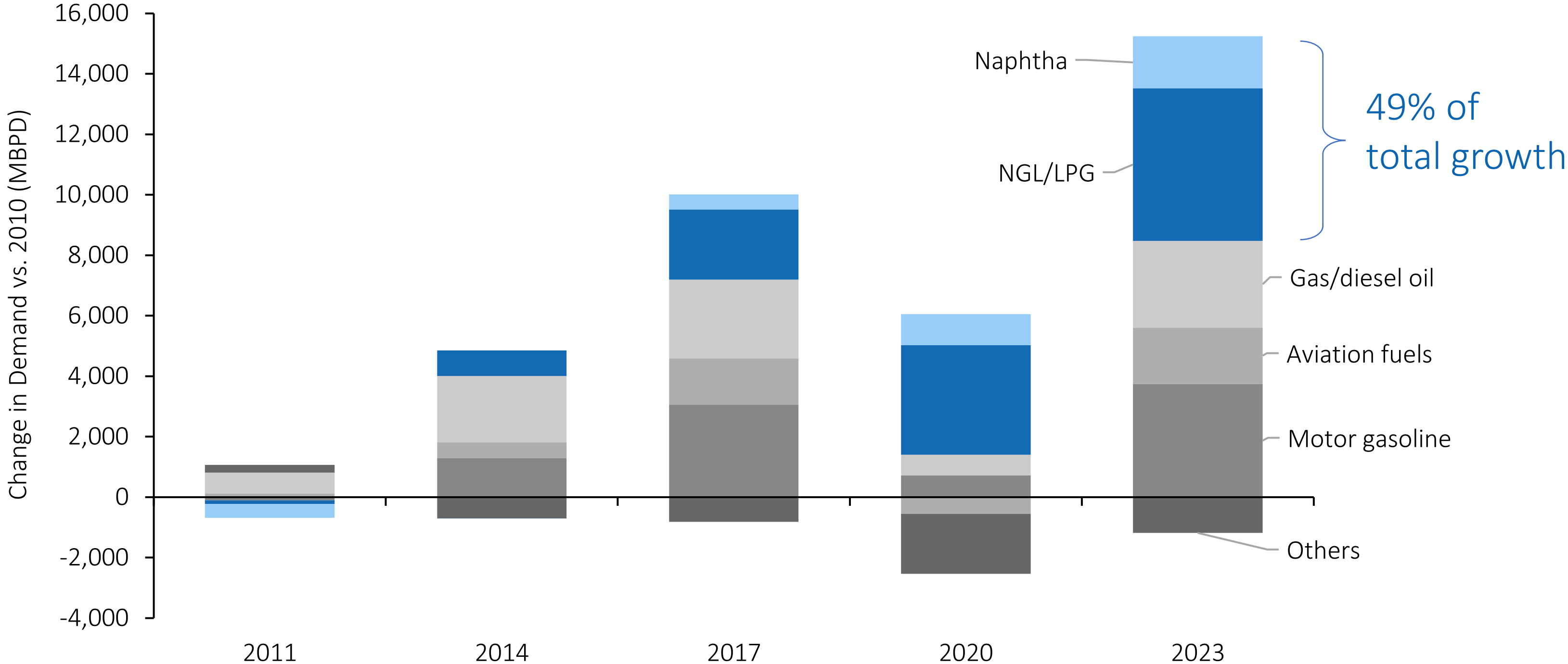


Sources: Bloomberg and S&P Global Platts Analytics

Demand Growth to be Driven By Light Products

EPD Continues to be Well Positioned for this Trend

Global Oil Demand Growth Since 2010

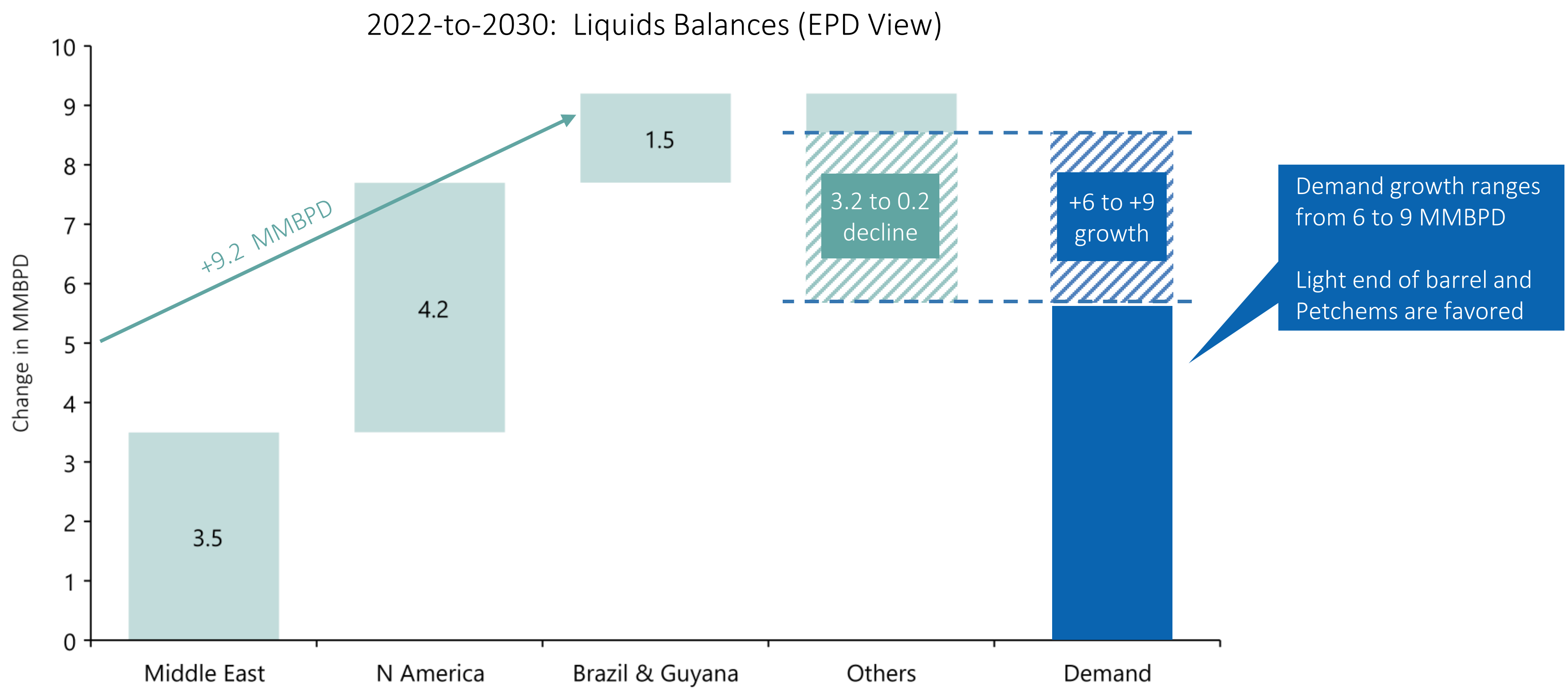


Growth in light products is driven by petchem feedstock demand and clean-burning fuels in underserved residential sector; IEA expects petchem demand to grow by ≈3 MMBPD by 2030

Source: IEA

Who Will Satisfy Future Demand?

North America, Brazil, Saudi Arabia/UAE



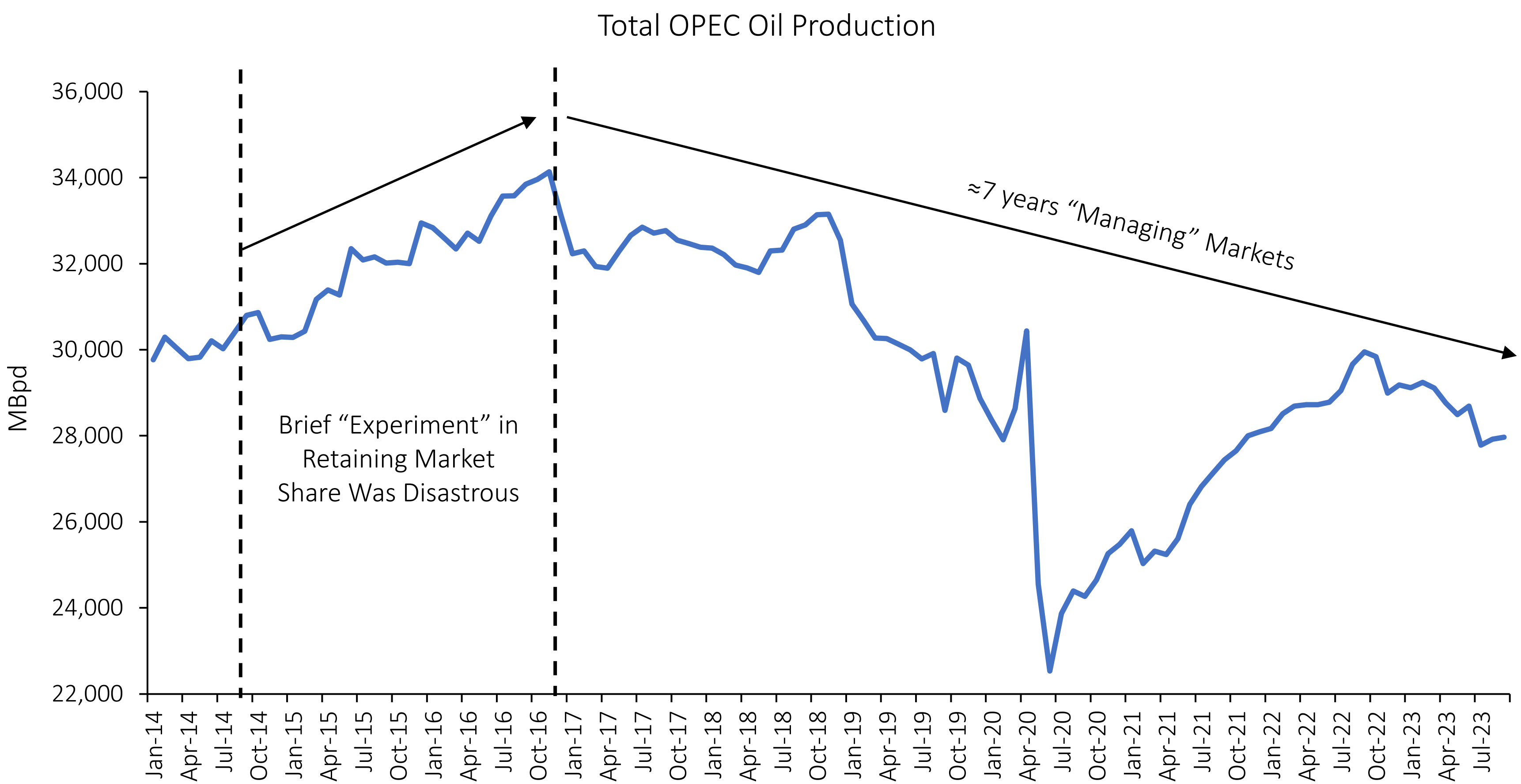
Future Demand Favors Light Materials

- Middle East: Saudi Arabia/UAE have officially announced capacity targets of 13 MMBPD (+2) and 5 MMBPD (+1.5), respectively; assumes Iraq and Iran hold their own
- North America: U.S. +2.7 MMBPD crude, +0.6 MMBPD LPG, +0.2 MMBPD ethane (conservative); Canada +0.4 MMBPD crude, +0.2 MMBPD LPG, +0.1 MMBPD others
- Brazil and Guyana: large offshore fields continue to meet expectations
- Others: Russia -2 MMBPD, UK -0.4 MMBPD, Africa -0.8 MMBPD, Mexico -0.3 MMBPD, China -0.5 MMBPD

Sources: IEA WEO 2022 STEPS scenario and EPD Fundamentals

OPEC Committed to Managing Markets

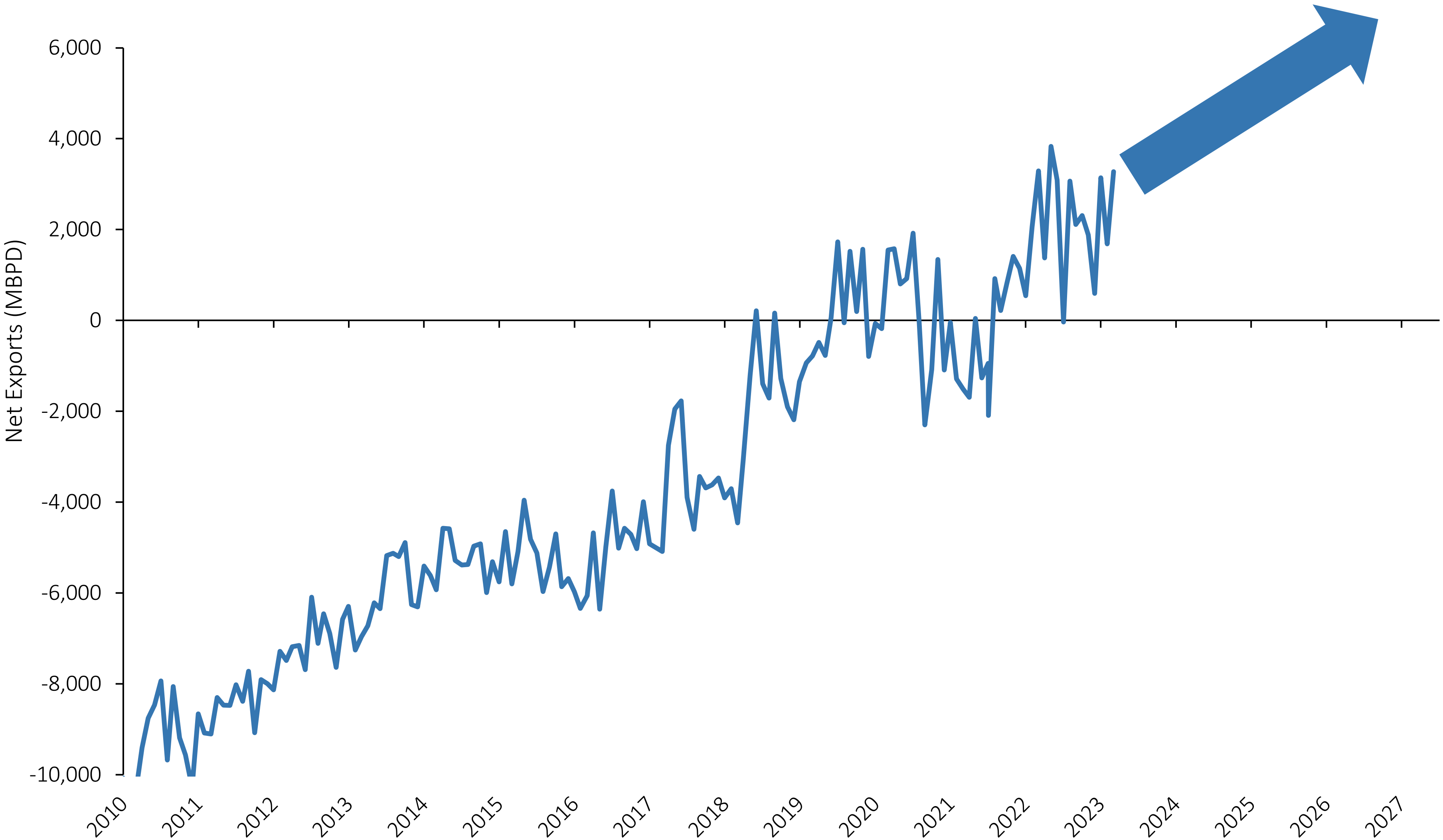
Massive Entitlements and Transforming KSA Economy Not Cheap



Source: Bloomberg

U.S. Transition Following the Shale Revolution

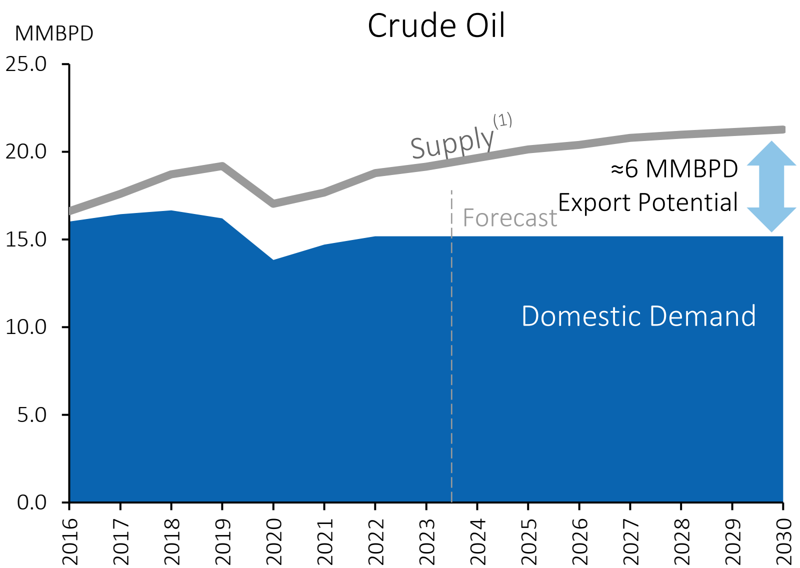
Migrated From a Net Importer to Net Exporter of Liquid Hydrocarbons

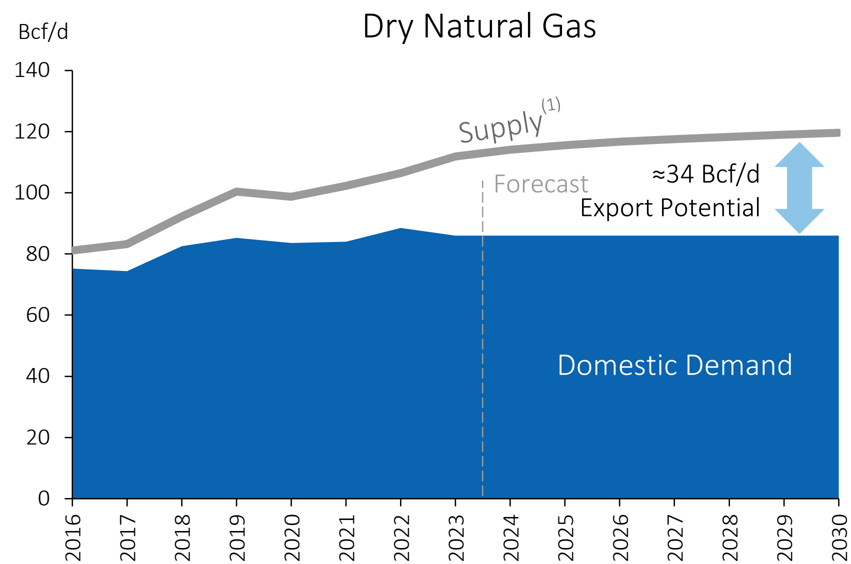


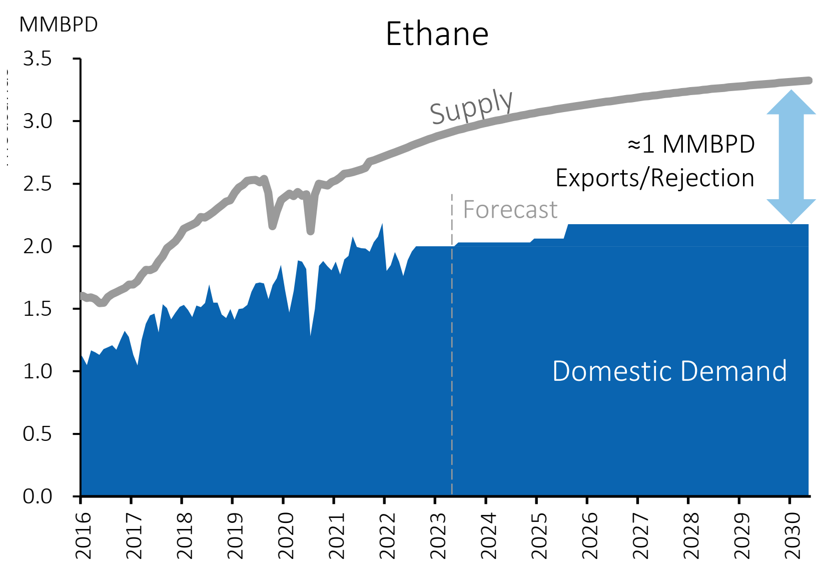
Note: Includes crude, refined products, natural gas liquids
Sources: EIA and EPD Fundamentals, as of October 2023

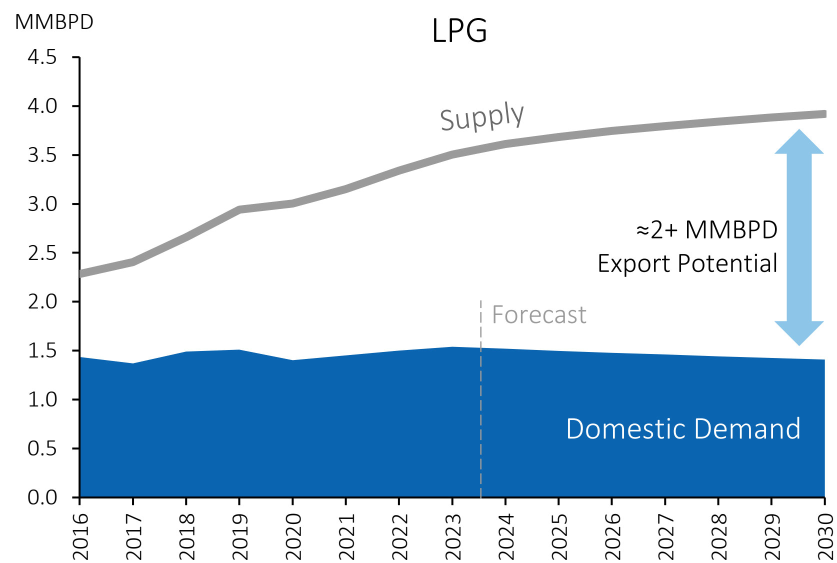
Exporting the U.S. Surplus

Simplified Crude, Natural Gas, Ethane and LPG Balances







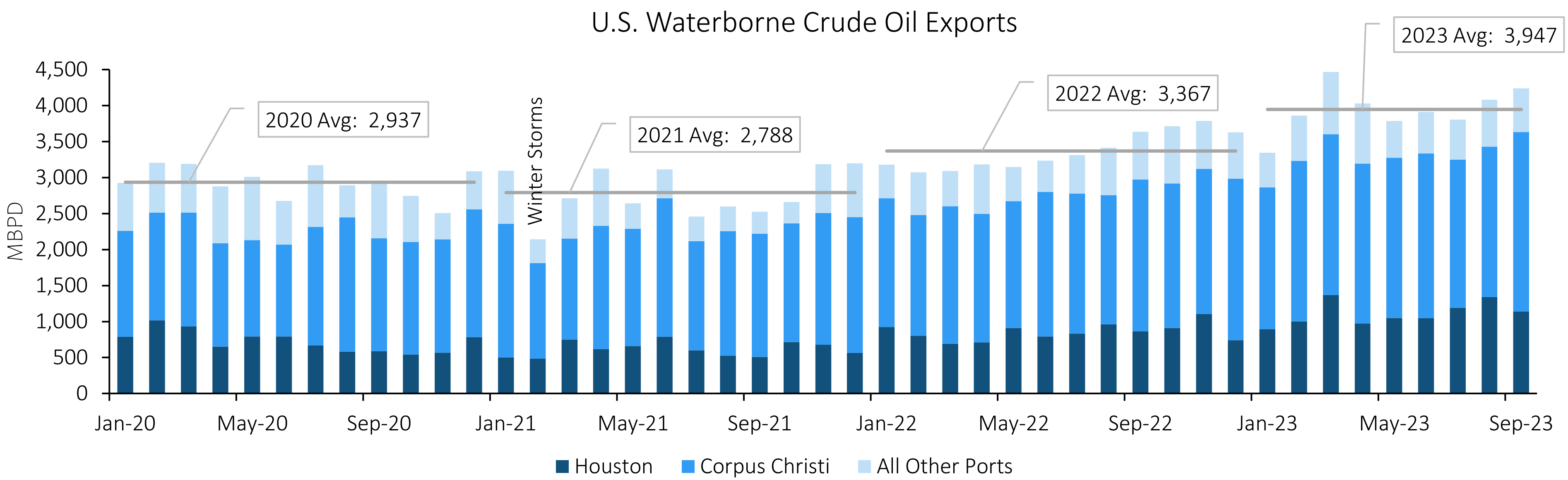


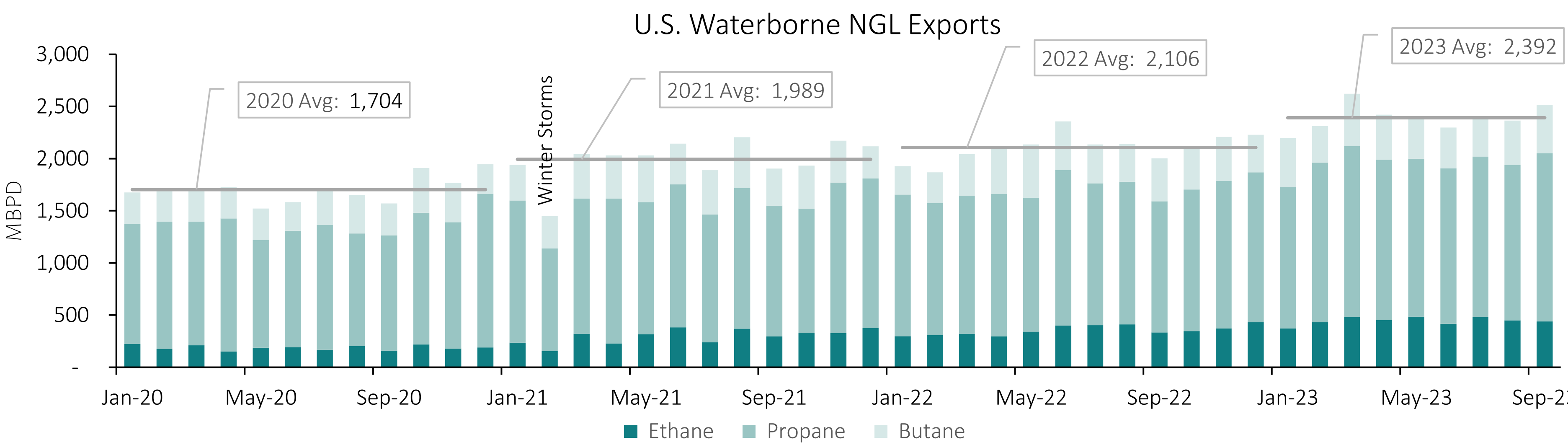
(1) Supply figures represent combined production and imports

Sources: EIA and EPD Fundamentals

U.S. Waterborne Exports

Remaining Strong





Sources: EPD Fundamentals and Kpler data as of October 2023

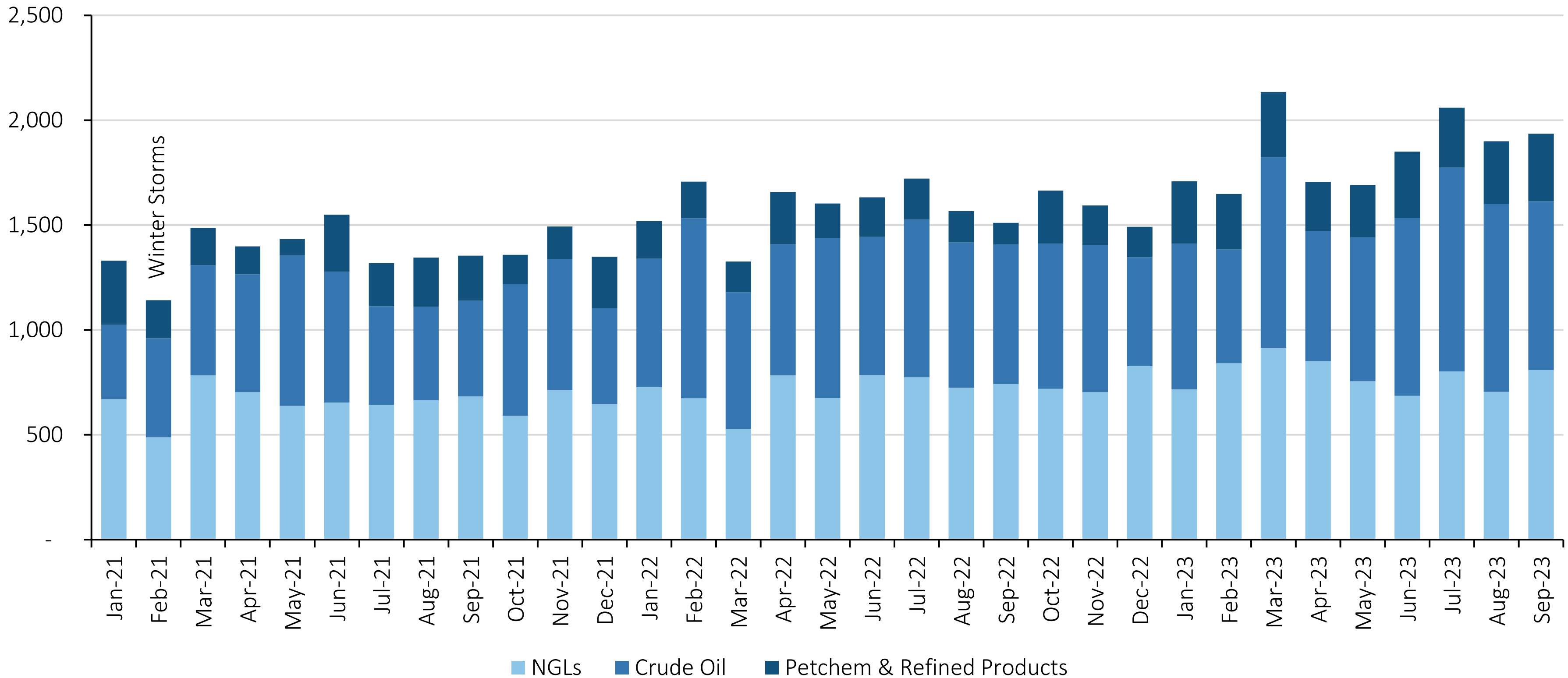
EPD Facility Exports

Volumes Remain Resilient

EPD NGL exports averaged 787 MBPD for 9-months 2023 (≈33% of U.S. waterborne exports)

EPD Crude exports averaged 777 MBPD for 9-months 2023 (≈20% of U.S. waterborne exports)

EPD Petchem & Refined Product exports averaged 287 MBPD for 9-months 2023 (≈13% of U.S. waterborne exports)



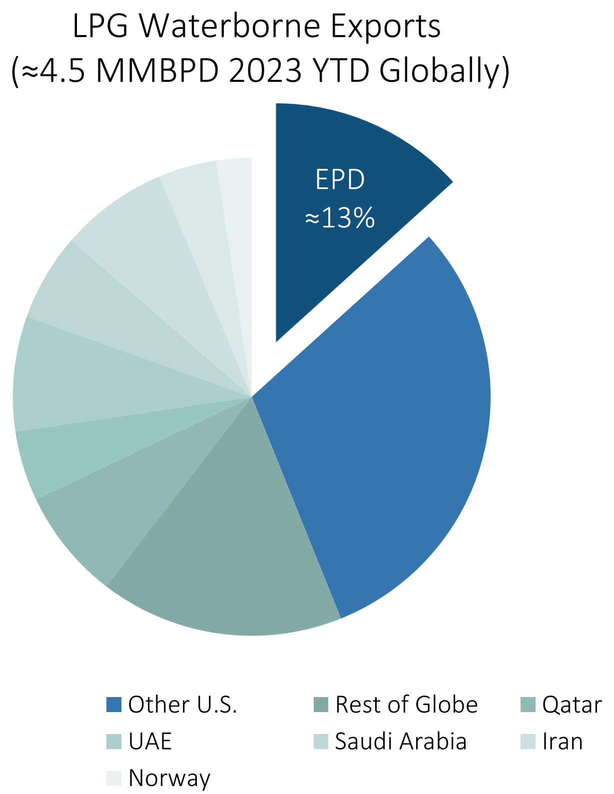
Sources: EPD Fundamentals and Kpler data as of October 2023

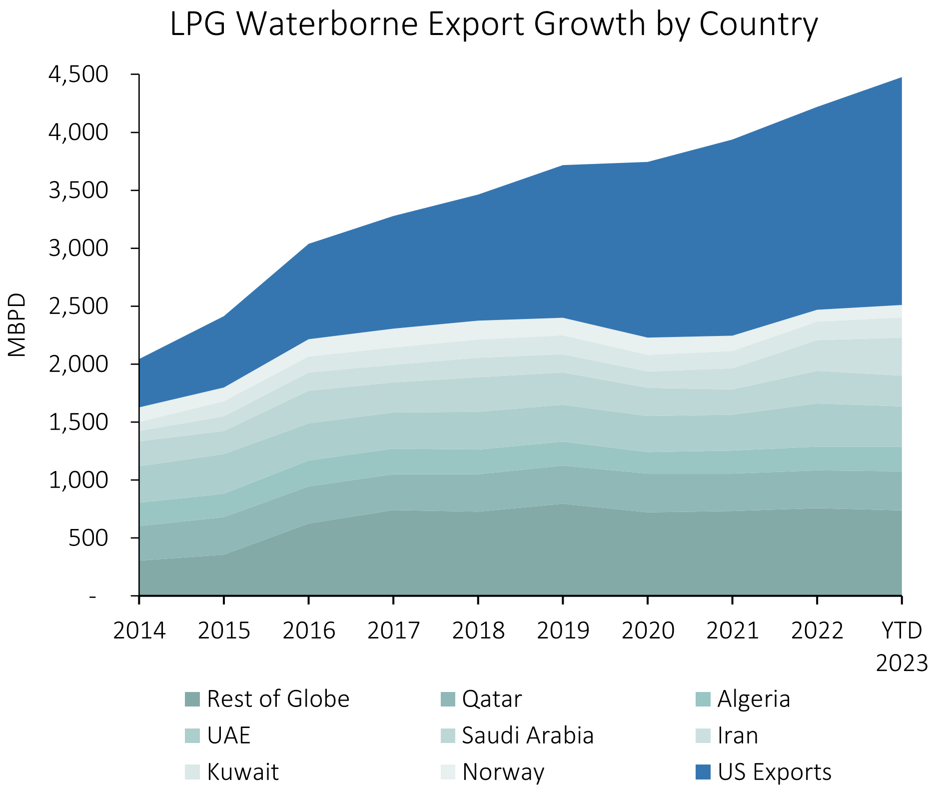
U.S. Responsible for Global LPG Export Growth

Growth Driven by Residential Market; >70% of Global LPG Demand

EPD is a larger supplier of LPG than any individual, non-U.S. country in the world, exporting ≈600 MBPD or ≈13% of total global exports and ≈30% of total U.S. LPG exports

The U.S. is the leading exporter of LPGs globally, which displaces coal and biomass. The U.S. holds ≈44% of the global market share of LPG exports YTD in 2023





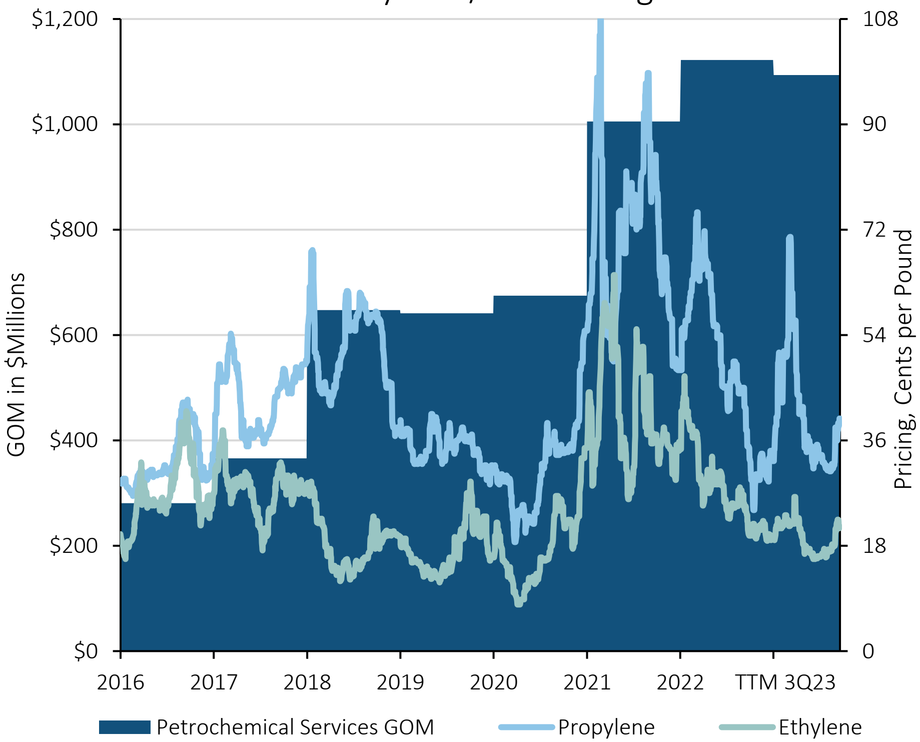
Sources: EPD Fundamentals and Kpler data as of October 2023

Applying Midstream Model to Petrochemical Services

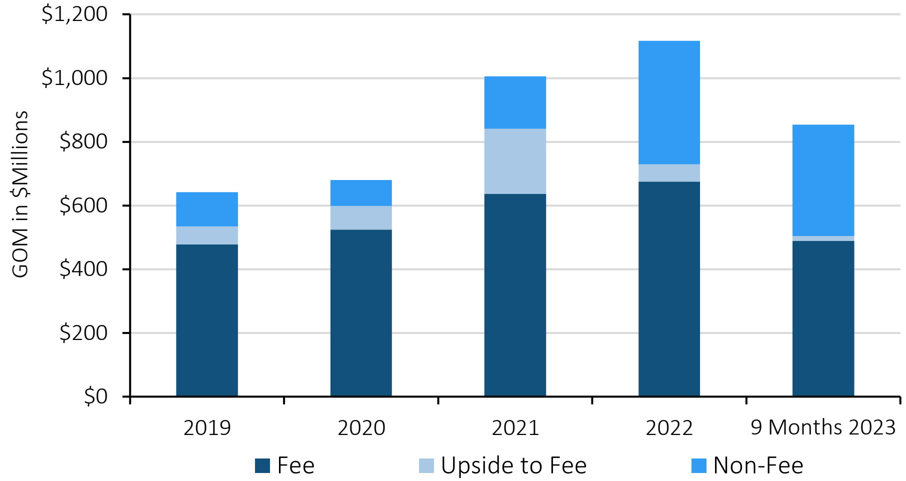
Maintaining Consistent Earnings in a Volatile Market

Enterprise's midstream model delivers consistent earnings and our contracting strategy provides stable margin with upside potential

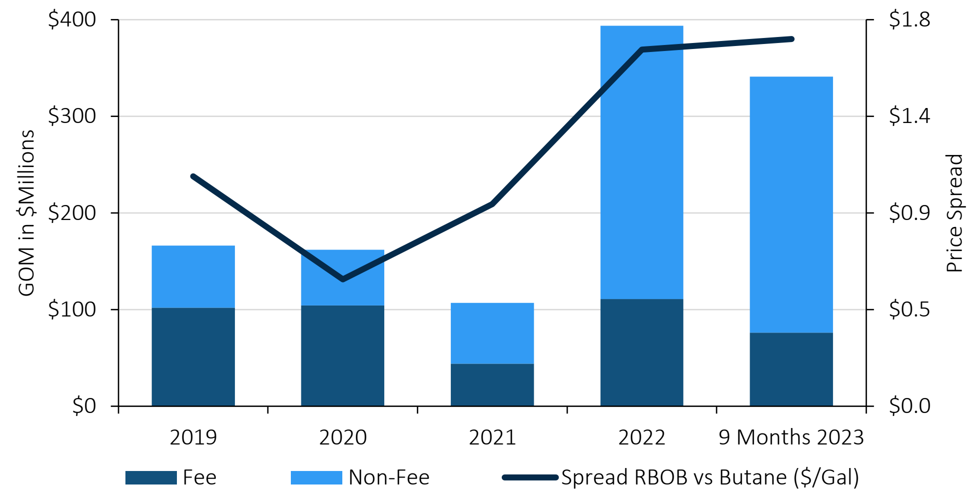
EPD Petrochemical Services GOM vs Ethylene /PGP Pricing



EPD Petrochemical Services GOM



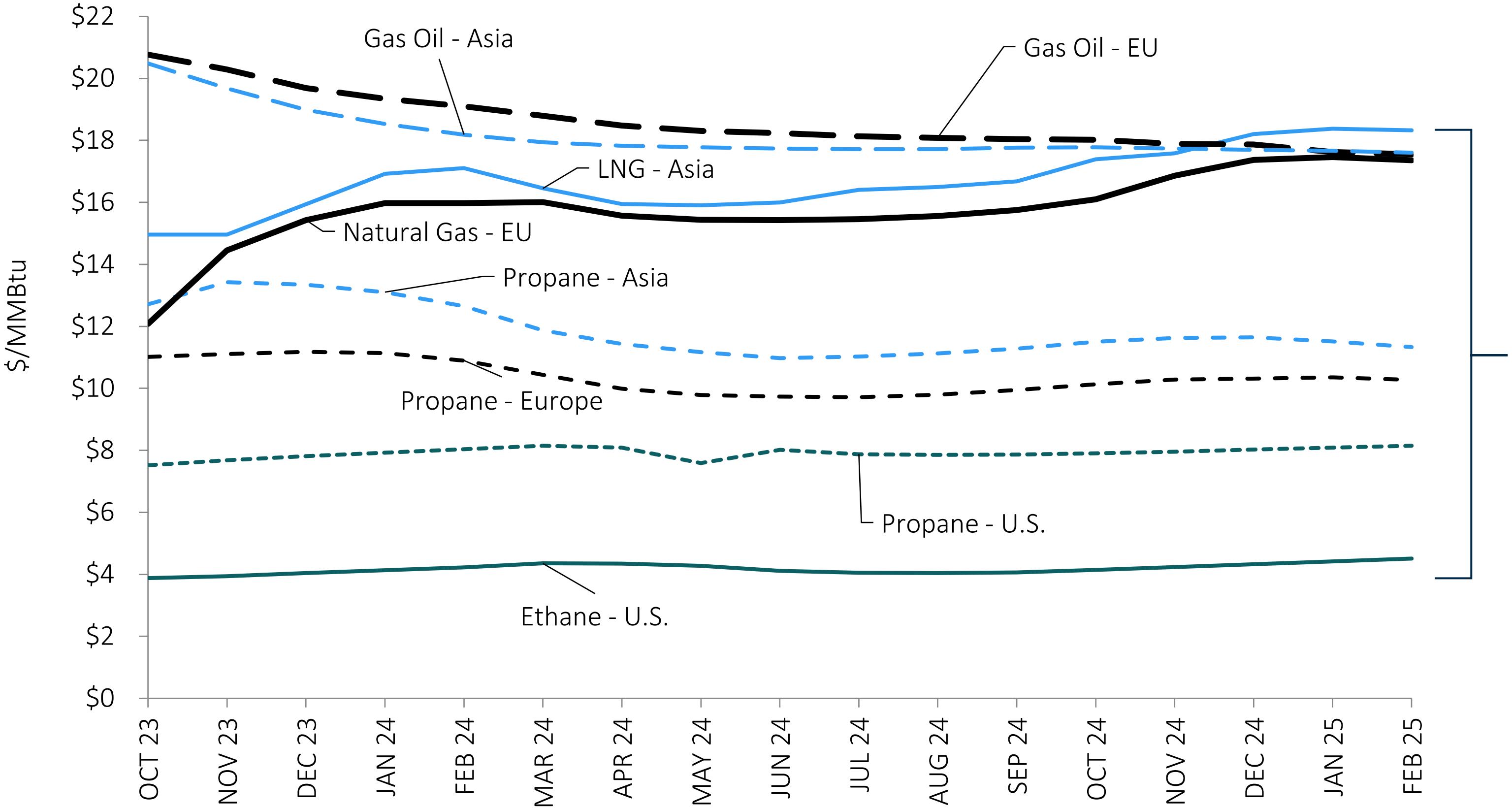
Octane Enhancement, HPIB, iBDH GOM & Related Spreads



Sources: S&P Global and EPD Fundamentals
The amounts above are adjusted to exclude non-cash MTM results for the respective periods.
"EPD Petrochemical Services GOM" represents gross operating margin, or "GOM" related to propylene services, octane enhancement services, ethylene services and does not include segment unallocated GOM.
(1) Octane Enhancement GOM was negatively impacted by plant maintenance in 2021
(2) RBOB: reformulated blend stock for oxygenate blending

Comparing U.S. BTU Values to Markets Overseas

U.S. NGLs Expected to Maintain a Material Price Advantage



U.S. BTU's hold a material advantage over E.U. and Asian alternatives

Sources: EPD Fundamentals and Bloomberg as of November 2023

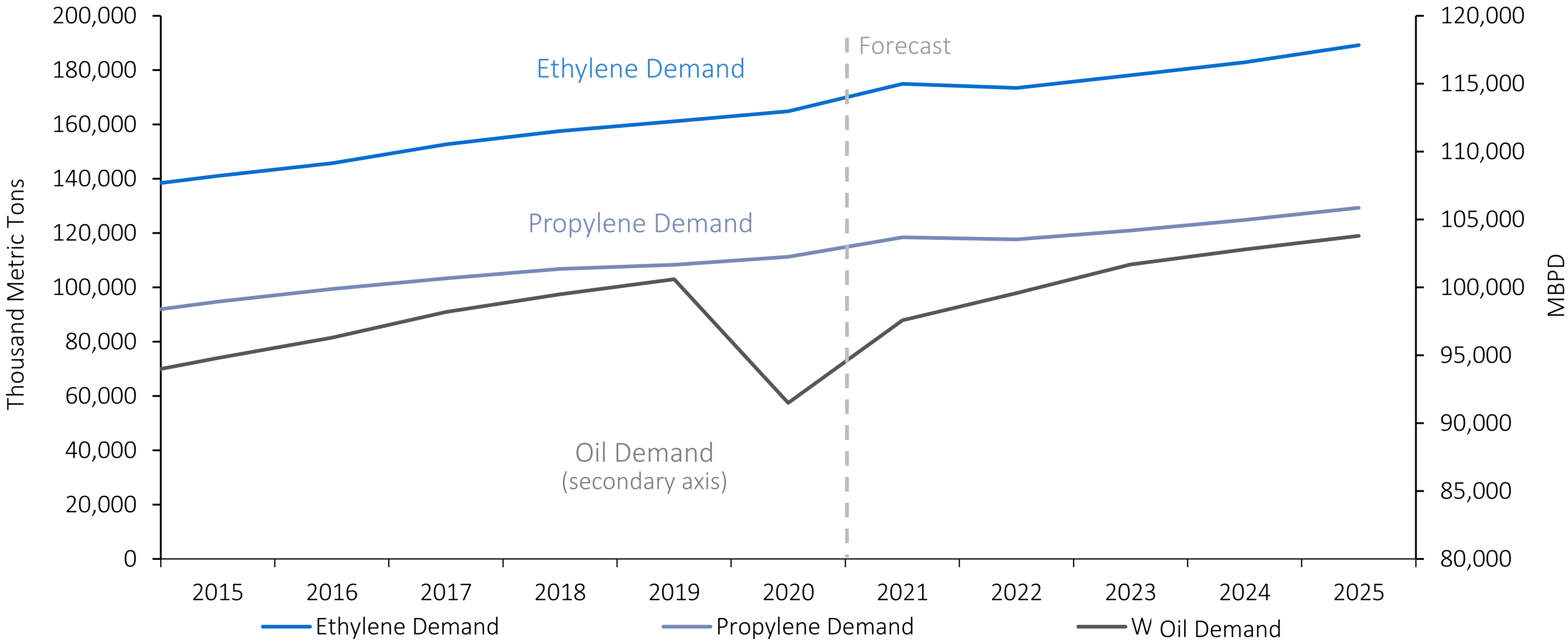
Primary Petrochemical Demand

Poised for Growth

2020 Case Study:

World GDP declined by ≈3.5%, oil demand fell by ≈9% and ethylene and propylene demand rose ≈2.5%

Global Ethylene & Propylene Demand Trends Relative to Oil



Sources: Bloomberg, IEA and EPD Fundamentals

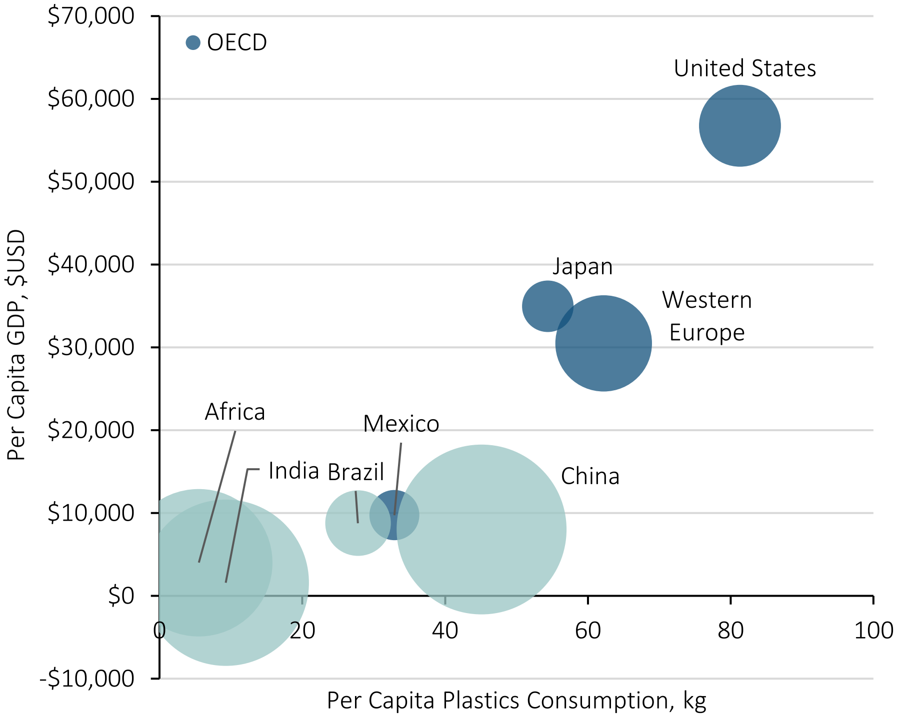
Petrochemicals Improve Modern Life

U.S.G.C. Will Continue to Supply Petrochemicals to the World

As quality of life improves, demand for petrochemicals increases

U.S. advantage is driven by abundant, low cost, efficient, and less carbon-intensive feedstocks and well-established infrastructure

Petrochemical Demand vs. Per Capita GDP(1)



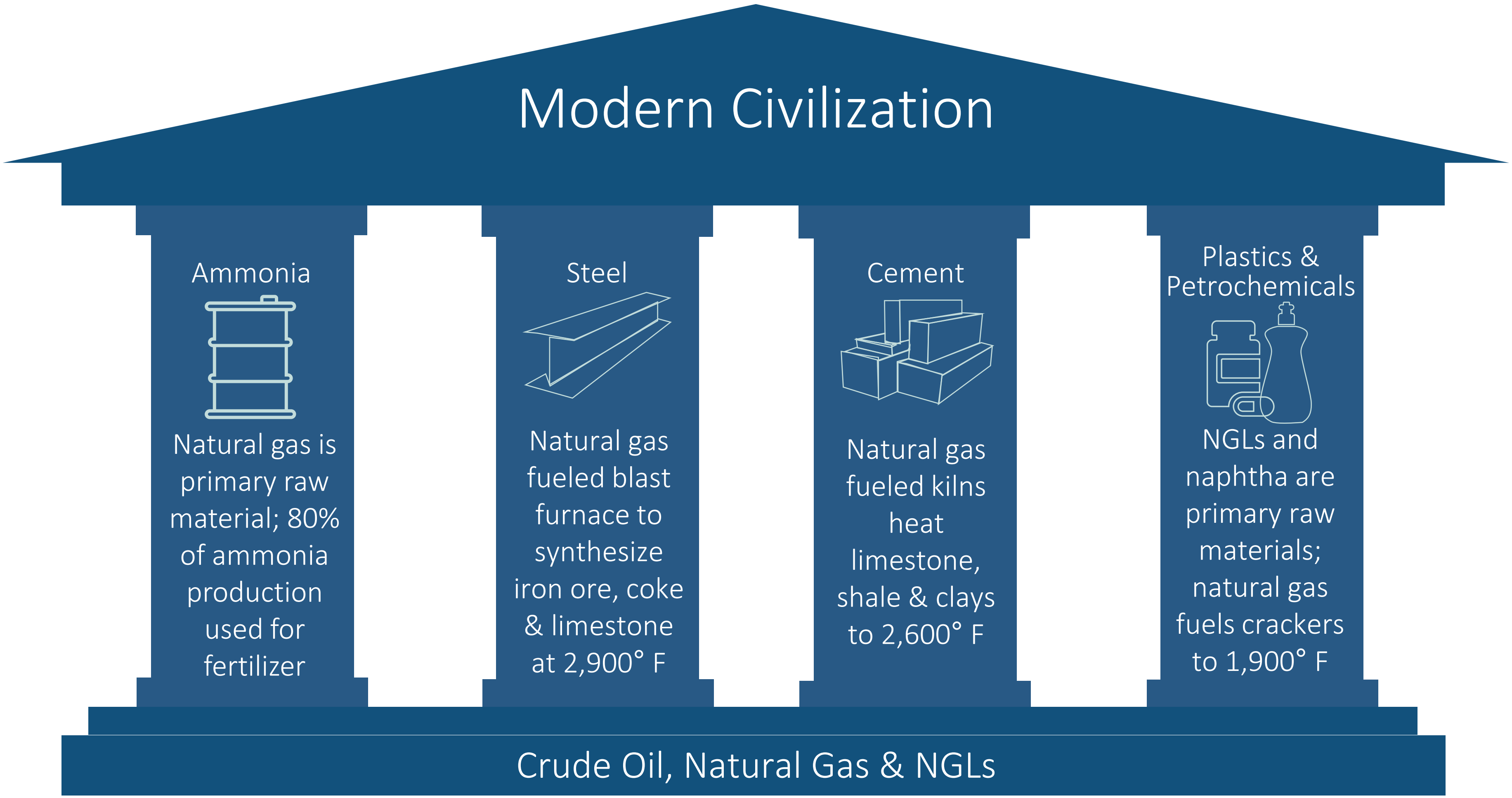
Crude – Natural Gas Price Spread

Sources: IEA, The Future of Petrochemicals; World Bank, S&P Global and EPD Fundamentals

(1) Bubble sizes are reflective of population in relation to data set

The 4 Pillars of Modern Civilization[1]

Depend on Crude Oil, Natural Gas & NGLs



(1) Excerpts from 'How the World Really Works' by Vaclav Smil

Everyday Products Made From Oil

>96% of Manufactured Goods are Touched by Oil and Gas Through Petrochemicals

Electronics

Products such as semi-conductors, monitors, cell phones and computers include petroleum-based materials

Asphalt

A building block of roads, key to keeping our growing world connected

Renewable Energy Materials

Oil is needed to create materials used to manufacture batteries, solar panels, wind turbines, and even electric cars

Medicines

99% of pharmaceutical feedstocks and/or reagents are derived from petrochemicals

Plastics

Oil and gas derivatives are needed to produce almost all plastics – including everything from water bottles to cars. In fact, plastics make up 50% of the volume of new cars and only 10% of the weight!

Cosmetics

Deodorants and makeup, among other cosmetic materials, are often produced from petrochemicals

Cleaning Products

Products needed to keep you and your family safe from exposure to illnesses and bacteria are produced from oil products

Products Include…

food packaging, clothing and footwear, textiles, carpets, furniture, detergents, diapers, sports equipment, lighter vehicle exteriors like cars, planes, and boats; synthetic rubber tires, fuel additives, engine coolants, interior car panels, car seats and carpet, coatings, insulation, paints, road paving materials, pharmaceuticals, sterile packaging (single-use) like IV bags, syringes, medicine bottles, liners; ethyl-alcohol / hand sanitizer, ventilators, heart rate monitors, suction machines, defibrillators, oxygen masks, personal protective equipment (PPE) like gloves, gowns, and face masks; wind turbine and solar panel parts, battery containers and parts, unbreakable glass, agro-chemicals, etc.

Sources: IEA, American Chemistry Council and National Institute of Health

Petrochemical's Role in Pharmaceuticals

From Prescription Drugs to Over-the-Counter Medicines

Top Prescription Drugs[1]

1. Lipitor (105.4 MM); statin; treats high cholesterol
   - Active ingredient: Atorvastatin calcium
   - Derived from: Benzene, propylene
2. Synthroid (99.7 MM); thyroid hormone, treats hypothyroidism
   - Active ingredient: Levothryoxine sodium
   - Derived from: Benzene, ethylene
3. Zestril (98.8 MM); ACE inhibitor; treats high blood pressure
   - Active ingredient: Lisinopril
   - Derived from: Benzene, propylene
4. Glucophage (78.6 MM); Antidiabetic; treats type 2 diabetes
   - Active ingredient: Metformin hydrochloride
   - Derived from: Benzene
5. Lopressor (68.1 MM); beta blocker; treats high blood pressure
   - Active ingredient: Metoprolol succinate
   - Derived from: Benzene, propylene

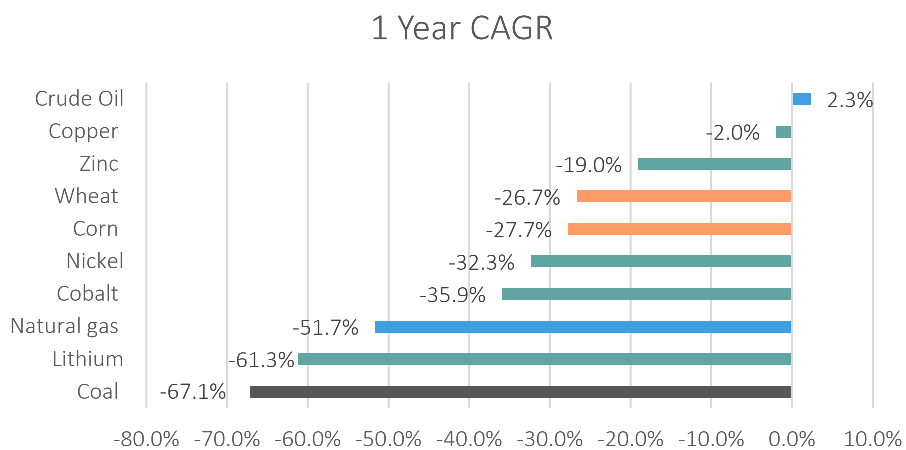
Top Over-the-Counter Drugs[2]

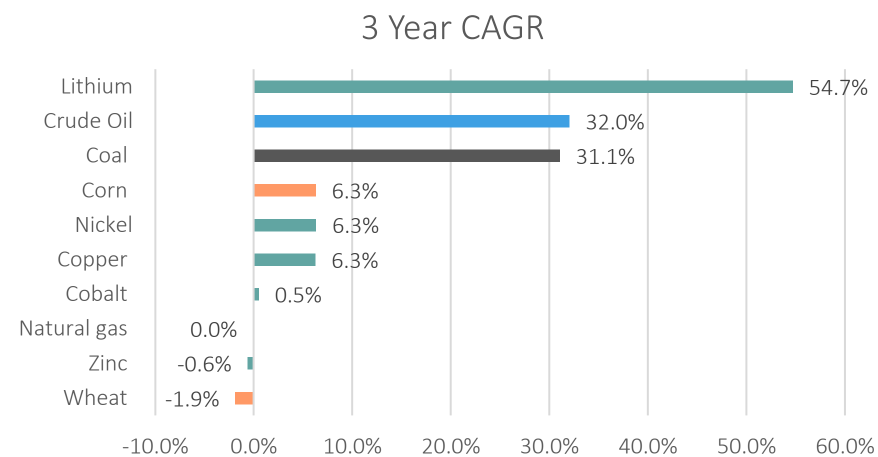
1. Tylenol ($328 MM); pain reliever, fever reducer
   - Active ingredient: Acetaminophen / paracetamol
   - Derived from: Benzene
2. Advil ($229 MM); anti-inflammatory, pain reliever
   - Active ingredient: Ibuprofen
   - Derived from: Propylene
3. Zyrtec ($215 MM); Antihistamine; treats allergies
   - Active ingredient: Cetirizine dihydrochloride
   - Derived from: Ethylene
4. Nexium OTC ($205 MM); Proton pump inhibitor; acid reflux, ulcers
   - Active ingredient: Esomeprazole magnesium
   - Derived from: Propylene
5. Aspirin ($197 MM); pain reliever, anti-inflammatory, blood thinner
   - Active ingredient: Acetylsalicylic acid
   - Derived from: Phenol (via cumene; alkylation of benzene & propylene)

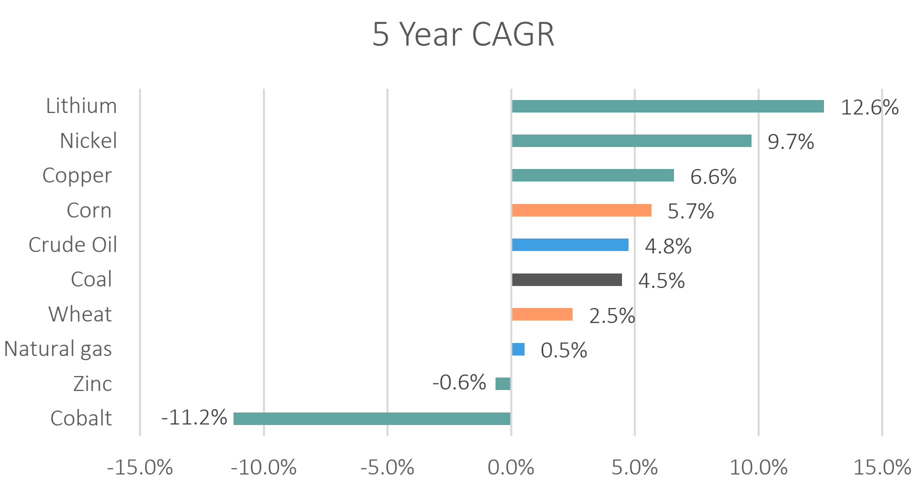
(1) Ranked by number of prescriptions in 2020
(2) Ranked by 2019 revenue
Sources: CDC, U.S. Agency for Healthcare Research and Quality, The Merck Index, patent filings and various research reports and industry experts.

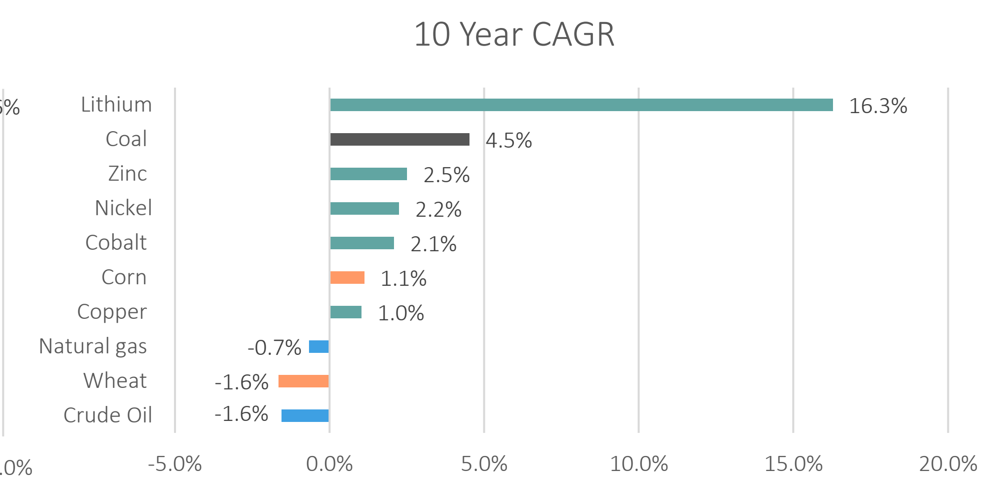
Commodity Inflation

Green Metals, Food and Energy





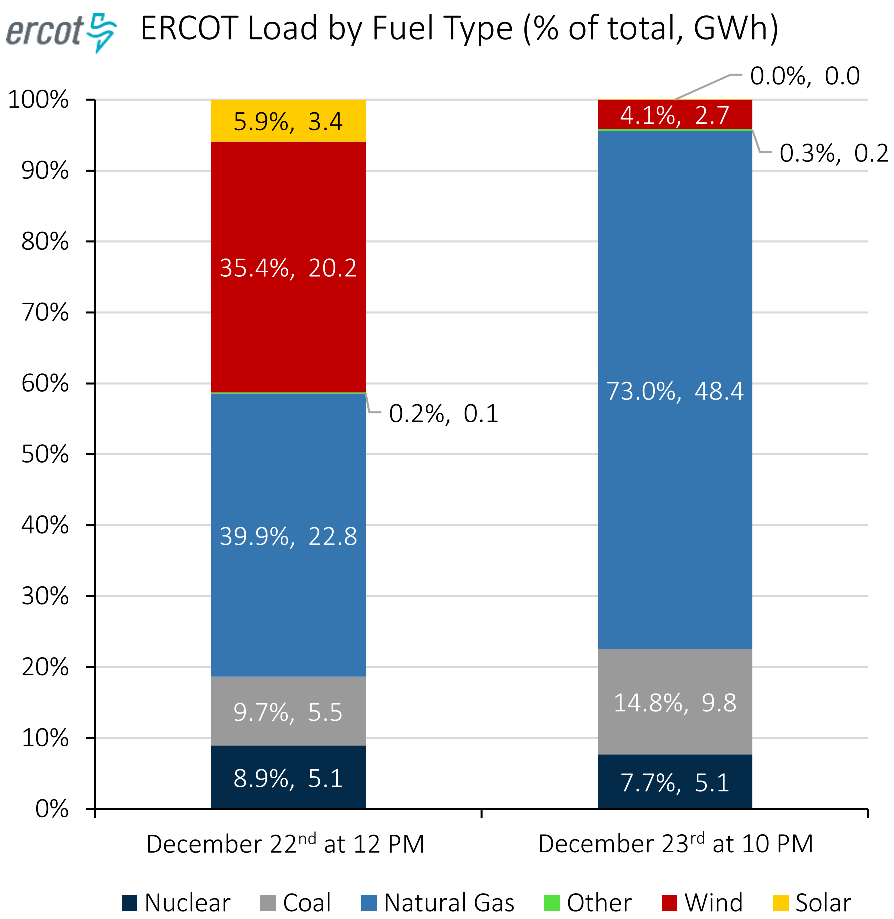




Source: Bloomberg (LTBMPRIN Index, LMCODY Comdty, LN1 Comdty, HG1 Comdty, LX1 Comdty, CL1 Comdty, NG1 Comdty, W1 Comdty, C1 Comdty, XW1 Comdty)
Note: Compound Annual Growth Rates ("CAGR") for periods ending October 31, 2023

More Wind & Solar? We Will Still Need Natural Gas

ERCOT Case Study – December 2022



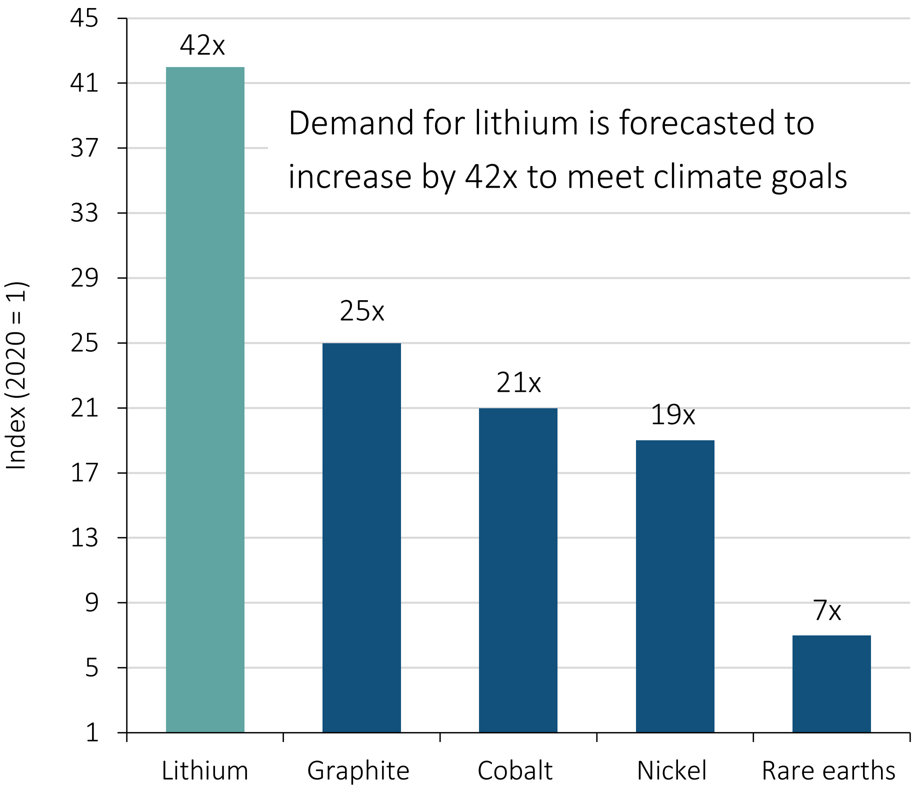
- As of June 2023, Texas has an installed wind and solar capacity of ≈37 MW and ≈17 MW, respectively; ≈44% of its installed total power generation base
- While Texas wind utilization had an average capacity factor of 31% for December 2022, capacity utilization ranged from nearly 70% to 7% within 24 hours during Winter Storm Elliott. Actual wind power generation ranged from ≈20 GWh to under 3 GWh with low wind conditions lasting for 3 days
- Natural gas generation more than doubles to over 48 GWh (or 73% of total supply) and coal generation increases 78% to fill the *intermittent* void
- "Only 10–30 MW of natural gas could be disconnected for every 100 MW of new wind and solar capacity" *—JP Morgan 2023 Annual Energy Paper*

Source: ERCOT; December 2022. Loads are extrapolated from 15-minute intervals to achieve an instantaneous GWh load. "Natural Gas" includes both traditional gas and combined cycle gas as power sources

"Clean" Energy Requires Substantial Minerals

Substantial Growth in Mineral Mining Required for "Clean" Energy

Growth of Selected Minerals in the SDS[(1)], 2040 Relative to 2020 Analysis[(2)]



The IEA estimates that it has taken on average over 16 years to move mining projects from discovery to first production

- These long lead times raise questions about the ability of suppliers to ramp up output if demand were to pick up rapidly[(3)]
- Security, reliability, affordability, and sustainability of increased mineral mining as well as declining mineral resource quality raises questions if these materials are a key to the clean energy transition or a bottleneck[(3)]

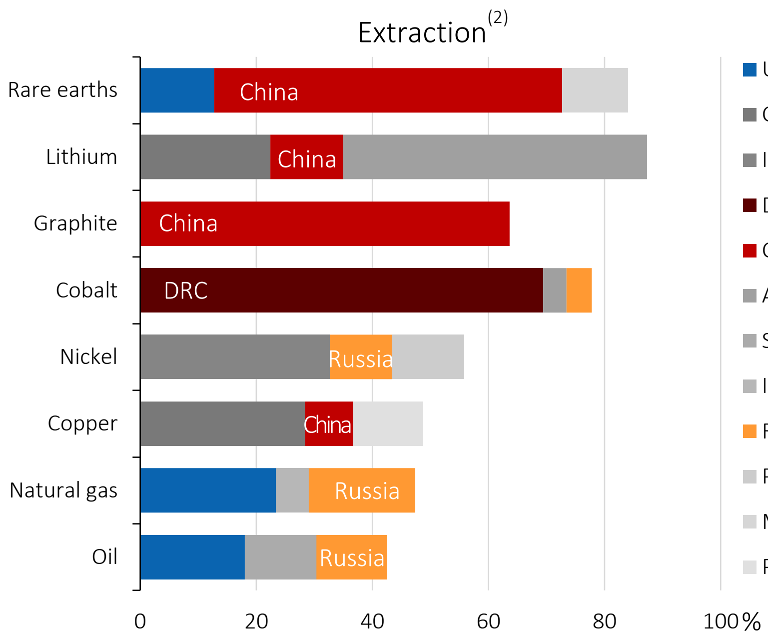
(1) "SDS" means Sustainable Development Scenario
(2) IEA, Total mineral demand for clean energy technologies by scenario, 2020 compared to 2040, IEA, Paris
(3) The Role of Critical World Energy Outlook Special Report Minerals in Clean Energy Transitions, IEA, Paris

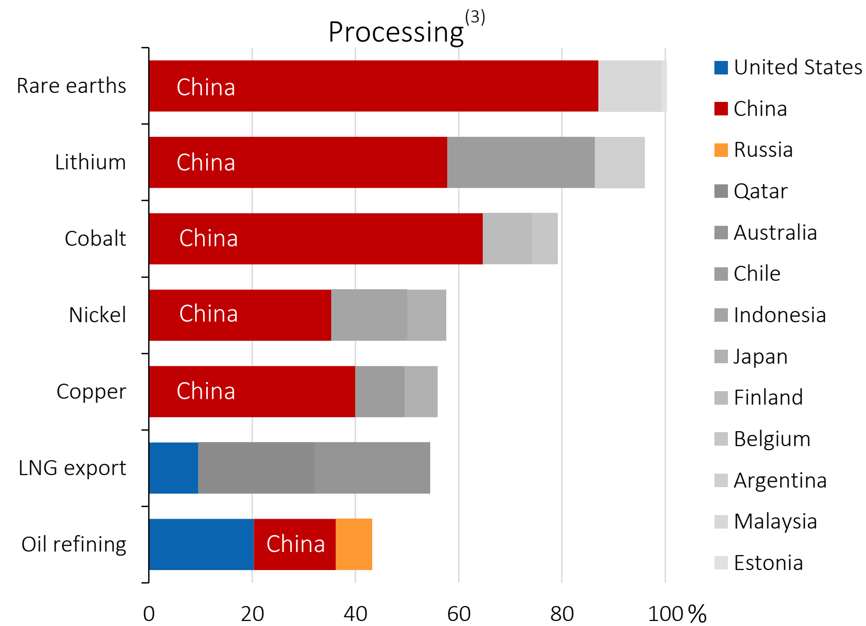
Critical Minerals Extraction and Processing

Concentrated in Politically and Socially Sensitive Regions

- Mineral demand to facilitate "clean" energy tech would need to increase by 4–6x by 2040 to meet Sustainable Development Scenario ("SDS") and net-zero climate goals[(1)]
- Production of many energy transition minerals is more geographically concentrated than that of oil and natural gas, with potential growth concentrated in politically and socially sensitive areas

Share of Top Countries in Extraction and Processing of Selected Minerals and Fossil Fuels





Sources:
(1) IEA, Total mineral demand for clean energy technologies by scenario, 2020 compared to 2040, IEA, Paris https://www.iea.org/data-and-statistics/charts/total-mineral-demand-for-clean-energy-technologies-by-scenario-2020-compared-to-2040
(2) IEA, Share of top three producing countries in extraction of selected minerals and fossil fuels, 2019, IEA, Paris https://www.iea.org/data-and-statistics/charts/share-of-top-three-producing-countries-in-extraction-of-selected-minerals-and-fossil-fuels-2019
(3) IEA, Share of top three producing countries in total processing of selected minerals and fossil fuels, 2019, IEA, Paris https://www.iea.org/data-and-statistics/charts/share-of-top-three-producing-countries-in-total-processing-of-selected-minerals-and-fossil-fuels-2019

Energy Poverty

LPG is a Critical Transition Fuel to Improve Quality of Life

Transforming Lives

- +700 million people have gained access to clean cooking since 2010
- 70% of those who gained access in the last decade did so through LPG

Global Crisis

- 1/3rd of earth's population lacks access to clean cooking today
- ≈2.0 billion people will still lack access to clean cooking in 2030(1)

Health Implications

- 4 million deaths per year attributed to indoor air pollution from unclean cooking fuels
- 28% and 45% of pneumonia deaths in adults and children under 5 years old, respectively, are attributable to household air pollution

Breakout	Population Without Access to Clean Cooking	
	2010	2022
World	42%	29%
China	38%	13%
India	44%	32%
Indonesia	59%	15%
Sub-Saharan Africa	88%	82%

(1) Under International Energy Agency (IEA) 2022 Stated Policies Scenario projections
Sources: IEA, World Bank, and Tracking SDG 7 The Energy Progress Report 2022

EPD Sustainability Highlights

A Leader in Sustainability

Recognized as one of America's Most Trustworthy Companies from Newsweek Magazine in 2023

Recognized as one of America's Most Responsible Companies from Newsweek Magazine in 2022

Upgraded from a BBB to an "A" ESG Rating from MSCI in 2023[(1)]

Recognized by Institutional Investor magazine in 2023 for ESG and Board Governance

Modified PDH 2 design to reduce the plant's absolute carbon emissions by almost 90%

Rated A-, A- and A3, by S&P, Fitch and Moody's respectively

Diverse & collaborative workforce ≈32% minority[(1)]

26% improvement in CO_2e emission per BOE since 2011[(2)]

Commercial teams pursuing carbon capture, H_2, other opportunities

ESG metrics incorporated into management compensation

More information on EPD's ESG efforts can be found in our latest Sustainability Report, available on our website www.enterpriseproducts.com

(1) Based on 2022 metrics
(2) Represents total Scope 1 emissions, as reported to the EPA for 2022 and includes the Navitas Midstream acquisition, which closed in February 2022

Commercial

Enterprise Products
Partners L.P.

Enterprise Products Partners L.P.

A Fully Integrated Midstream Energy Company

Our Platform

NGLs, Crude Oil, Natural Gas, Petrochemicals and Refined Products

>50,000
Miles of Pipeline

>260
MMBbls of Liquids Storage

20
Deepwater Docks

31
Natural Gas Processing Plants

26
Fractionators

2
PDH(1)

2
iBDH(1)

A full interactive map of our assets is available on our website, enterpriseproducts.com.

(1) PDH means propane dehydrogenation. iBDH means isobutane dehydrogenation

ENTERPRISE

Value Chain Model

EPD Earns Fees Delivering Raw Materials Essential to Everyday Life

product & volume	Nat. Gas	Ethane	Propane	Butanes	C_5+	Crude Oil
direct uses	electric generation heating cooking vehicle fuel industrial fuel	petchem feedstock	heating cooking crop drying vehicle fuel petchem feedstock	bottled fuels gasoline blending propellant refrigerants petchem feedstock	diluent gasoline blending petchem feedstock	refinery feedstock
downstream activity	manufacture	cracker	PDH & splitters	iBDH, HPIB & Octane Enhancement	cracker	refining
		Ethylene	Propylene	Isobutylene & Octane Additives		Refined Products
end uses	fertilizer paints coatings glue	food packaging prosthetics water pipes medical tubing insulation material textiles hygiene products & tools detergents antifreeze	durable products consumer electronics strong packaging PPE & pharmaceuticals molded parts carpets upholstery films helmets diapers	fuel additives lubricants specialty additives	tires synthetic rubber paints textiles sporting goods specialty chemicals	gasoline heating oil kerosene jet fuel asphalt lubricants synthetic rubber plastics rayon nylon resins

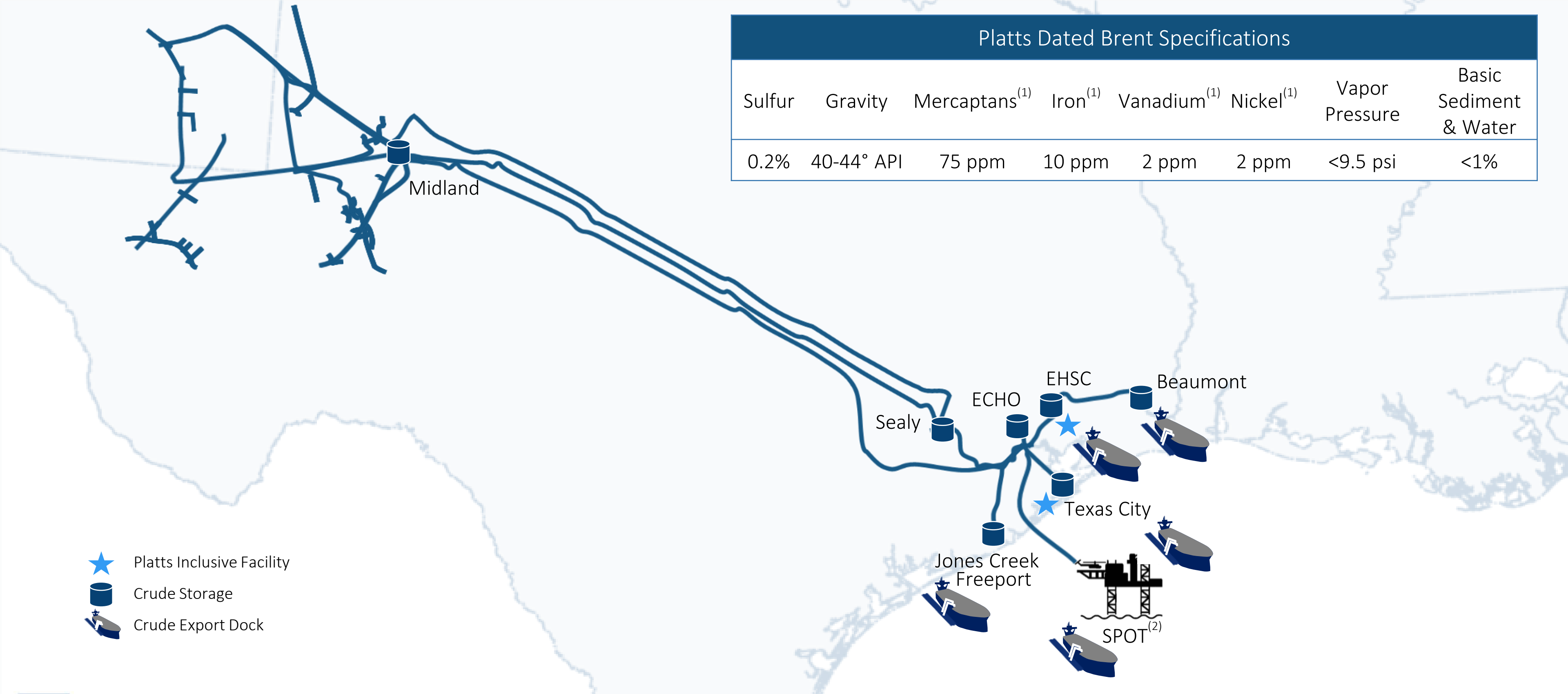
WTI Inclusion into Dated Brent Specifications

Integrated Assets Drive Superior Quality

With the inclusion of WTI Midland crude oil into Platts Dated Brent, we have updated both tariff specifications across our integrated assets and crude quality sampling procedures to enforce the new specifications and monitor crude oil quality.

Since implementing these quality specifications, EPD has seen a **≈48% increase in loaded WTI volumes** at Platts inclusive facilities, along with total crude export volumes nearing record highs at nearly 1 MMBPD.

Platts Dated Brent Specifications							
Sulfur	Gravity	Mercaptans[1]	Iron[1]	Vanadium[1]	Nickel[1]	Vapor Pressure	Basic Sediment & Water
0.2%	40-44° API	75 ppm	10 ppm	2 ppm	2 ppm	<9.5 psi	<1%



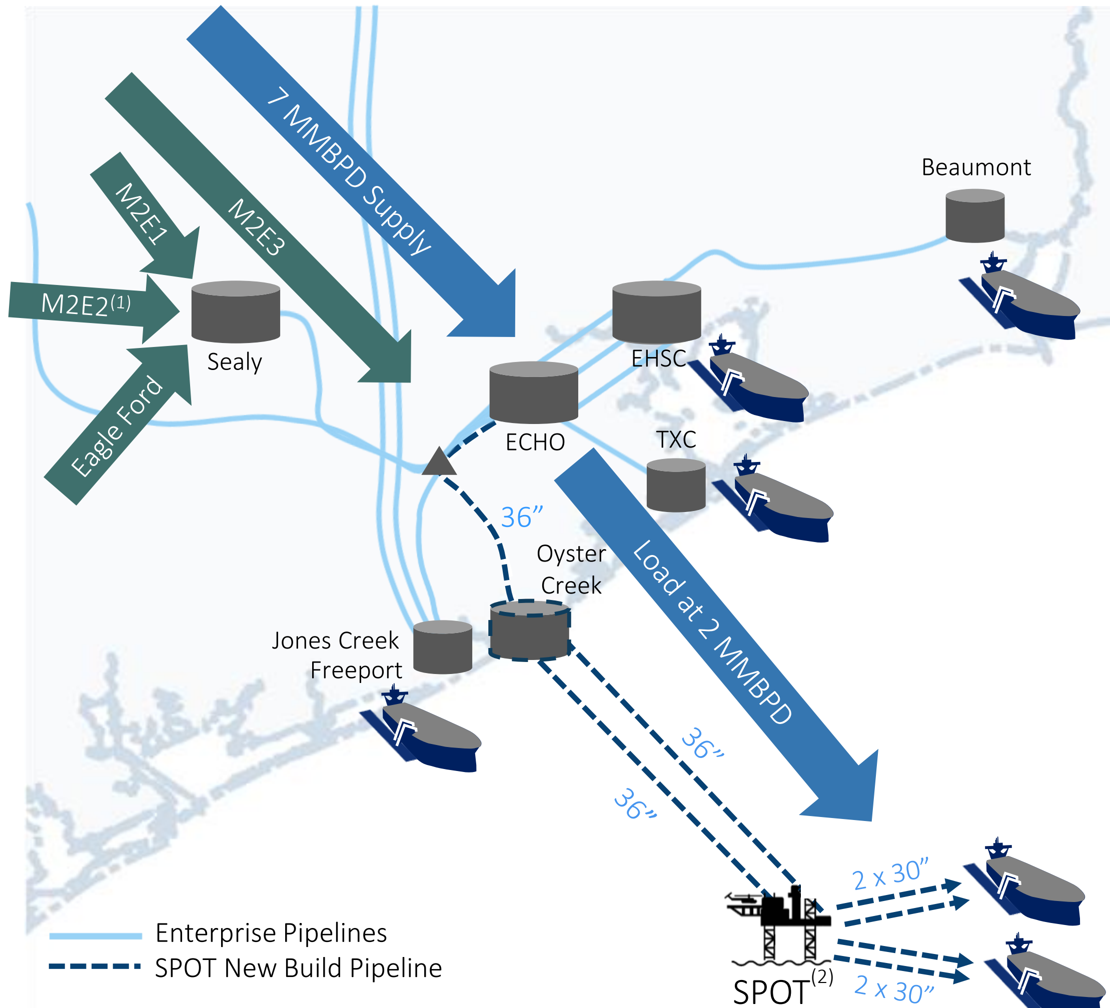
(1) Enterprise updated its tariff specifications for inclusion of mercaptans and metals in May 2023
(2) Proposed SPOT export terminal, which is pending receipt of license and FID

Sea Port Oil Terminal "SPOT"

A Cost-Effective Solution for Fully Loading VLCCs

SPOT creates a cost-effective, efficient, more environmentally friendly, and safer way to export crude. The project offers the market:

- Direct access to ECHO with over 7 MMBPD of 40+ distinct grades of crude oil supply; including Midland WTI (HOU)
- A 95% reduction in crude vapor emissions when compared to reverse lightering
- A 65% reduction in total annual GHG (CO_2e) emissions compared to current reverse lightering alternatives
- Avoids reverse lightering costs and delays
- Fully load 2 million barrels in 1 day
- Load multiple grades onto a VLCC through dual offshore pipelines
- Avoids congestion and lowers operational risks (e.g., weather delays, reverse lightering)
- Currently expect to receive remaining license by the end of 2023

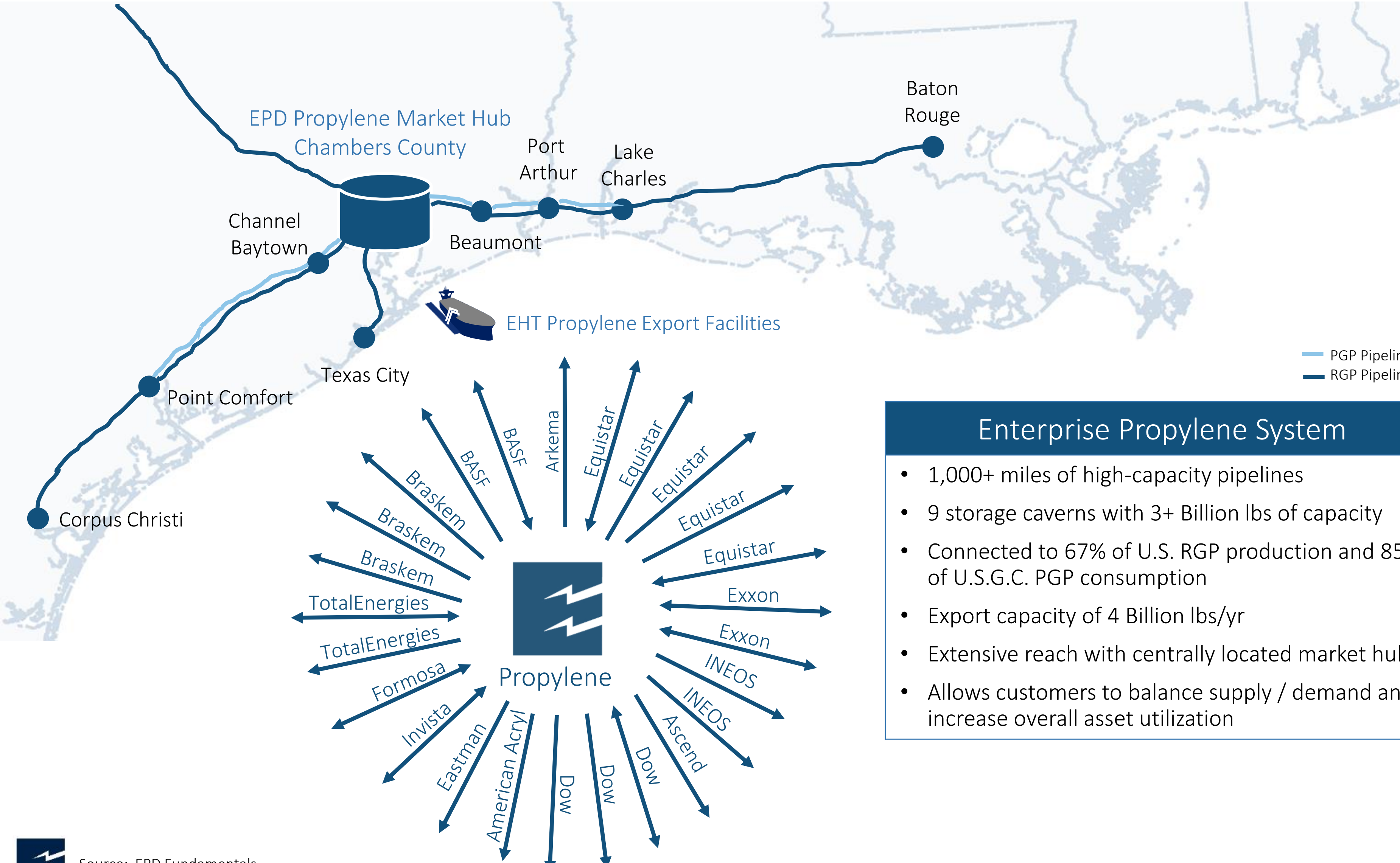


Source: EPD Fundamentals

(1) As of October 2023, Enterprise had begun converting the Seminole Red Pipeline (serving as M2E2 since 2Q 2019) from crude service to NGL service, with an expected completion in December 2023. The pipeline, which was in NGL service prior to 2019, will retain the flexibility to convert back to crude oil service.

(2) Proposed SPOT export terminal, which is pending receipt of license and FID

EPD Propylene System

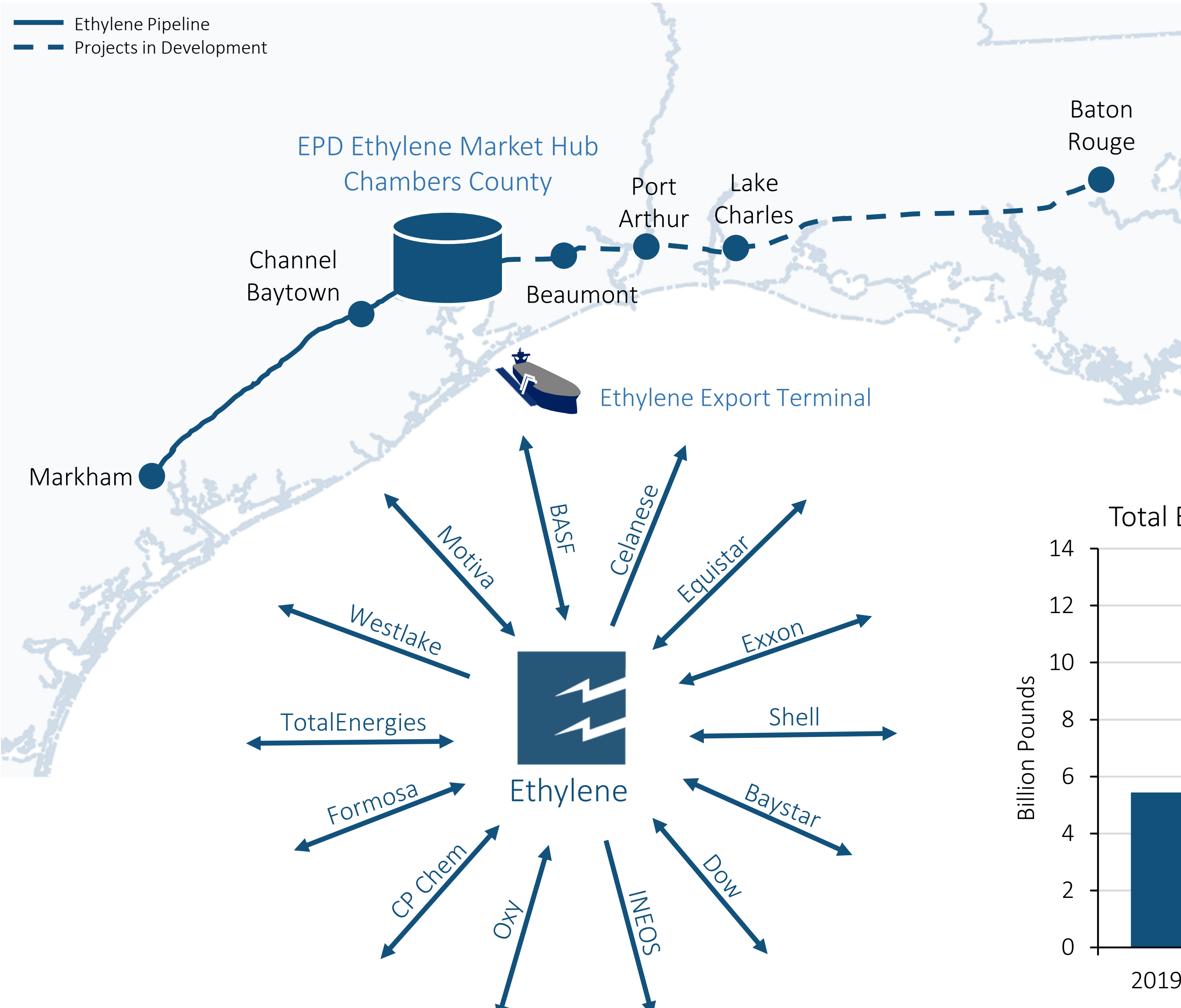


Enterprise Propylene System

- 1,000+ miles of high-capacity pipelines
- 9 storage caverns with 3+ Billion lbs of capacity
- Connected to 67% of U.S. RGP production and 85% of U.S.G.C. PGP consumption
- Export capacity of 4 Billion lbs/yr
- Extensive reach with centrally located market hubs
- Allows customers to balance supply / demand and increase overall asset utilization

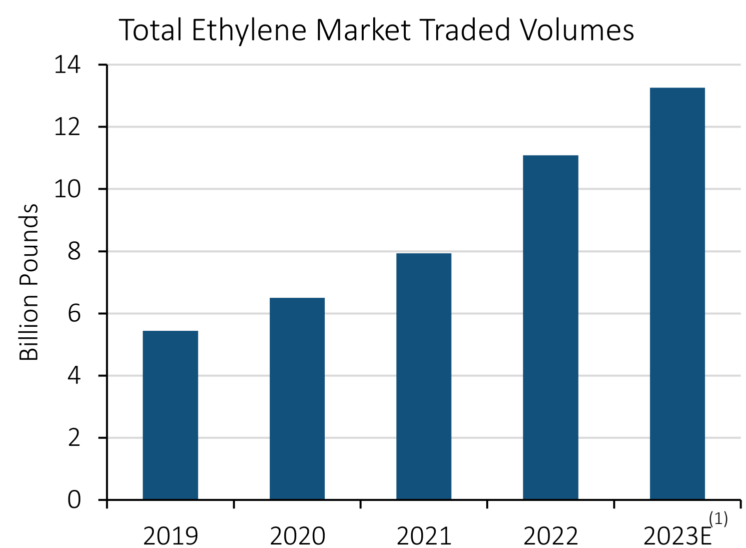
Source: EPD Fundamentals

EPD Ethylene System



Enterprise Ethylene System

- 150 miles of pipelines
- 4 storage caverns with 1+ billion lbs of capacity
- Export capacity of 2.2 billion lbs/yr
- Extending pipeline connectivity in Houston, Markham and Louisiana

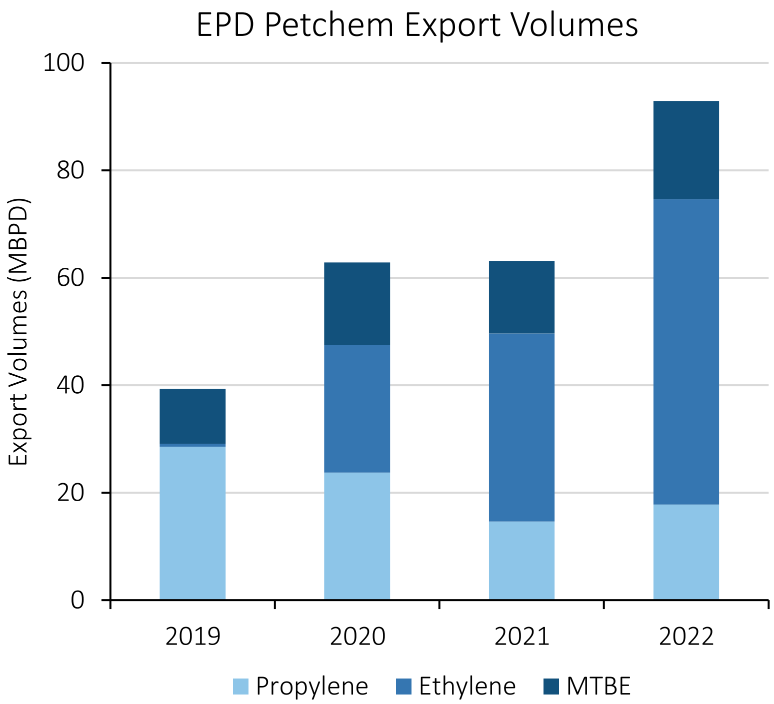


Source: OPIS PCW
(1) 2023 is an annualized forecast using January to October 2023 actuals

Petrochemical Exports

Delivering Cost Advantaged Olefins to the World

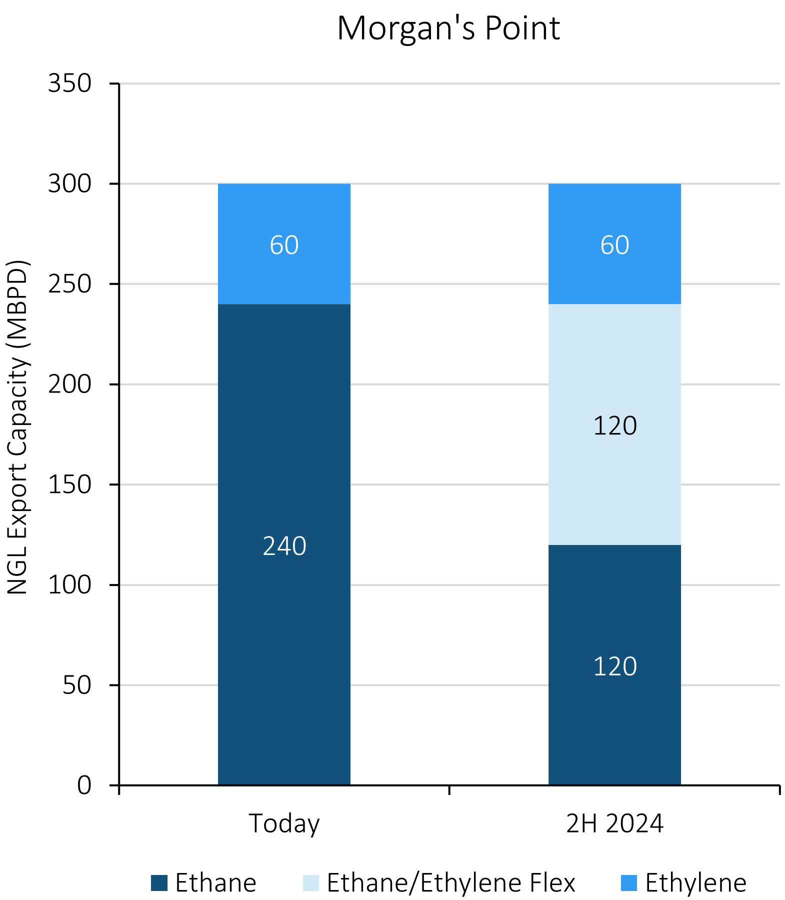
- Enterprise operates the world's largest ethylene export terminal at Morgan's Point; expansion project will provide product flexibility and increased export capacity
  - Flex modifications will add 120 MBPD of incremental ethylene capacity
- Expansion at the Houston Ship Channel Upgrade includes upgrades for fully refrigerated propylene loading (expanding vessel compatibility & further enhancing co-loading potential), increased instantaneous butane loading rates and facility upgrades for increased product flexibility and potentially higher terminal utilization



Source: EPD Fundamentals

Morgan’s Point Terminal Expansion

Adding Flex Capacity to Load Ethane and/or Ethylene



Ethane Loading (Today)

- Fully refrigerated ethane loading (two 120 MBPD nameplate capacity trains)
- 10,000 BPH (240 MBPD) loading rates

Ethylene Loading (Today)

- 1 million MT per year (60 MBPD) nameplate ethylene loading capacity
- 66 MMlbs (600 MBbls) refrigerated ethylene tank facilitates loading rates of over 2 MMlbs/hr

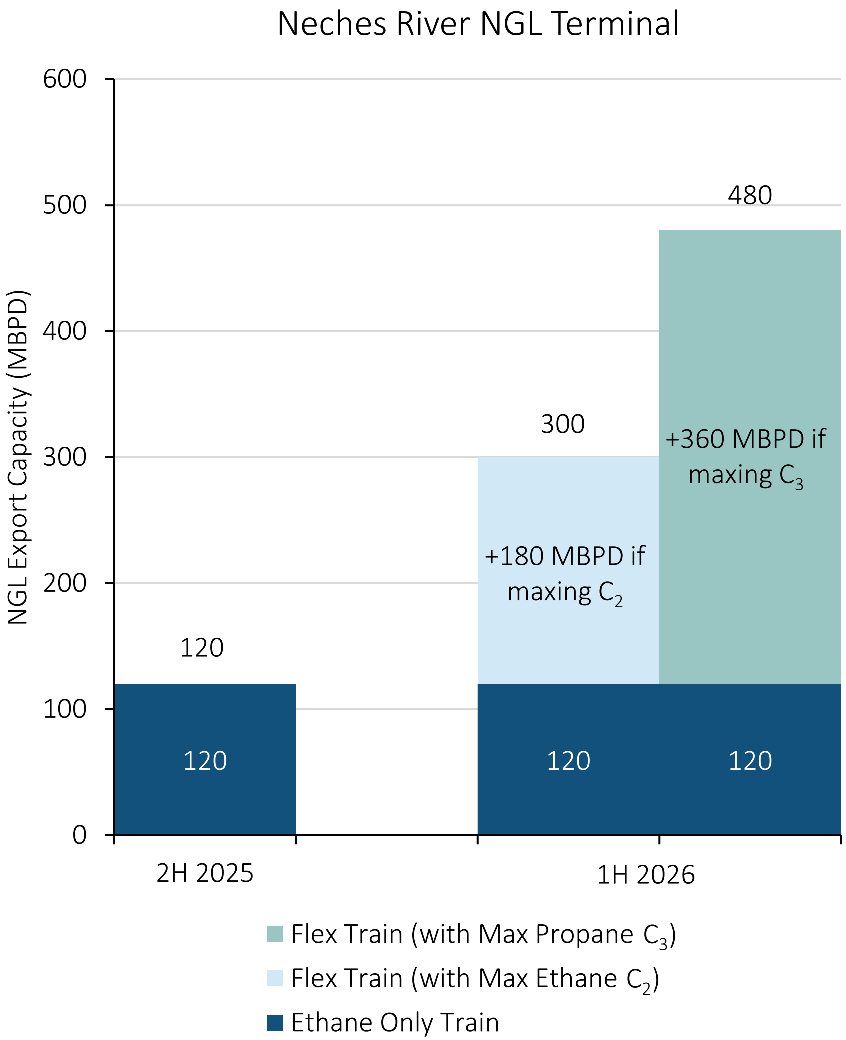
Flex Ethane / Ethylene Capacity Project (2024 & 2025)

- Converting one 120 MBPD ethane train to a flex ethane / ethylene unit (2H 2024)(1)
- 900 MBbl refrigerated ethane tank (2H 2025)(1), tank enables loading rates of up to 45 MBPH onto a vessel

(1) Estimated in-service date

Neches River NGL Export Facility Expansion

Building Flexible NGL Export Capability



Neches River NGL Export Facility

- New build facility with 2 phase buildout
- Located on the Neches River in Orange County, Texas, adjacent to Enterprise Beaumont East Refined Products Terminal

Phase 1 (2H 2025)[1]

- Ethane only refrigeration train: 120 MBPD nameplate capacity
- New loading dock
- 900 MBbl refrigerated ethane tank, tank enables loading rates of up to 45 MBPH onto a vessel

Phase 2 Expansion (1H 2026)[1]

- Flex ethane / propane refrigeration train[2]:
  - Either 180 MBPD ethane train *or* 360 MBPD of propane, *or* a combination of the two

Note: The Neches River NGL Terminal is located in Orange County, Texas.
(1) Estimated in-service date
(2) The refrigeration temperatures for C_2 and C_3 are ≈-130°F and ≈-40°F, respectively

Enterprise Hydrocarbons Terminal (“EHT”)

Crude, NGLs, Propylene

EHT Capabilities (Today):

Located on the Houston Ship Channel, EHT has 8 deep-water ship docks and 1 barge dock with multi-product dock flexibility and the ability to co-load propane & propylene

Crude Oil

- 2 MMBPD loading capacity

LPG (Propane / Butane)

- Fully refrigerated propane & butane
- 835 MBPD max loading capacity on typical product mix[(2)]
- Instantaneous butane loading rates up to 6 MBPH
- Capability to load up to six VLGCs simultaneously, while maintaining product flexibility
- Capability to load a single VLGC in less than 24 hours

Propylene

- Semi-refrigerated propylene loading, up to 3 MBPH
- Max capacity dependent on LPG activity

Facility Upgrades (1H 2025)[(1)]

- Upgrade to fully refrigerated propylene loading, expanding vessel compatibility & further enhancing co-loading potential
- Upgrade instantaneous butane loading rates up to 14 MBPH
- Facility upgrades will allow for increased product flexibility and potentially higher terminal utilization

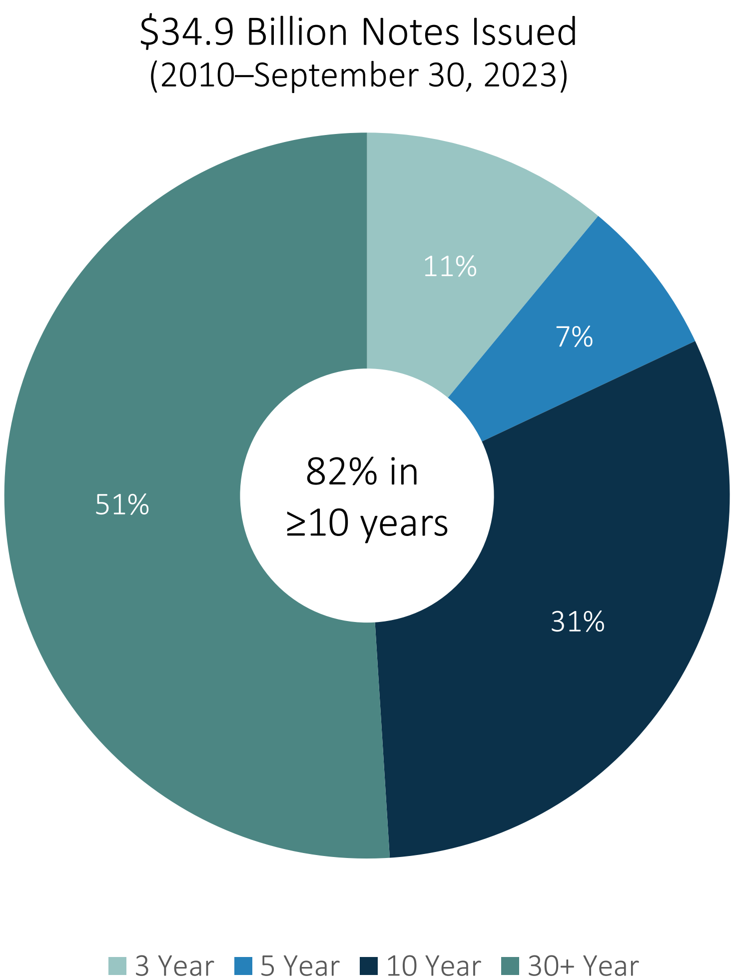
(1) Estimated in-service date
(2) Loading capacity can fluctuate based upon seasonality, operational efficiencies and other factors

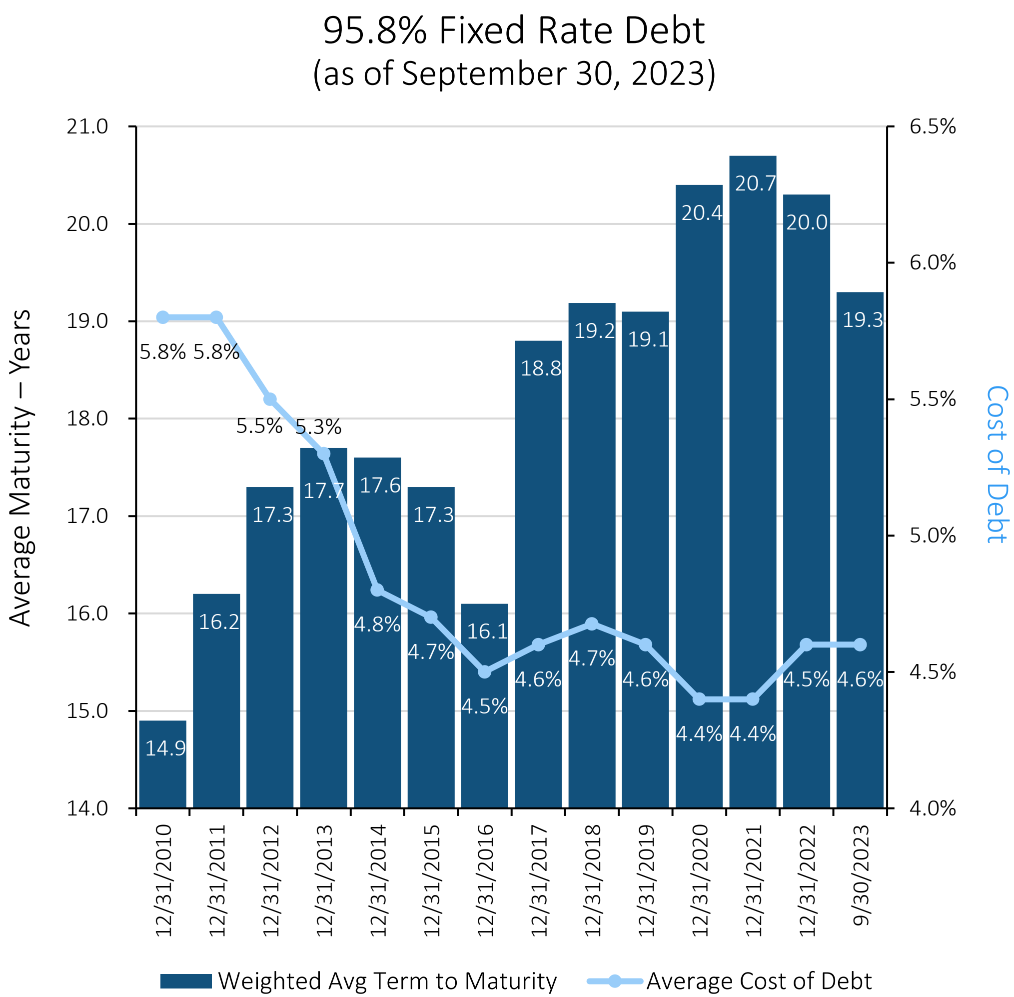
Financials

Enterprise Products Partners L.P.

Strengthening Debt Portfolio

Extending Maturities Without Increasing Costs





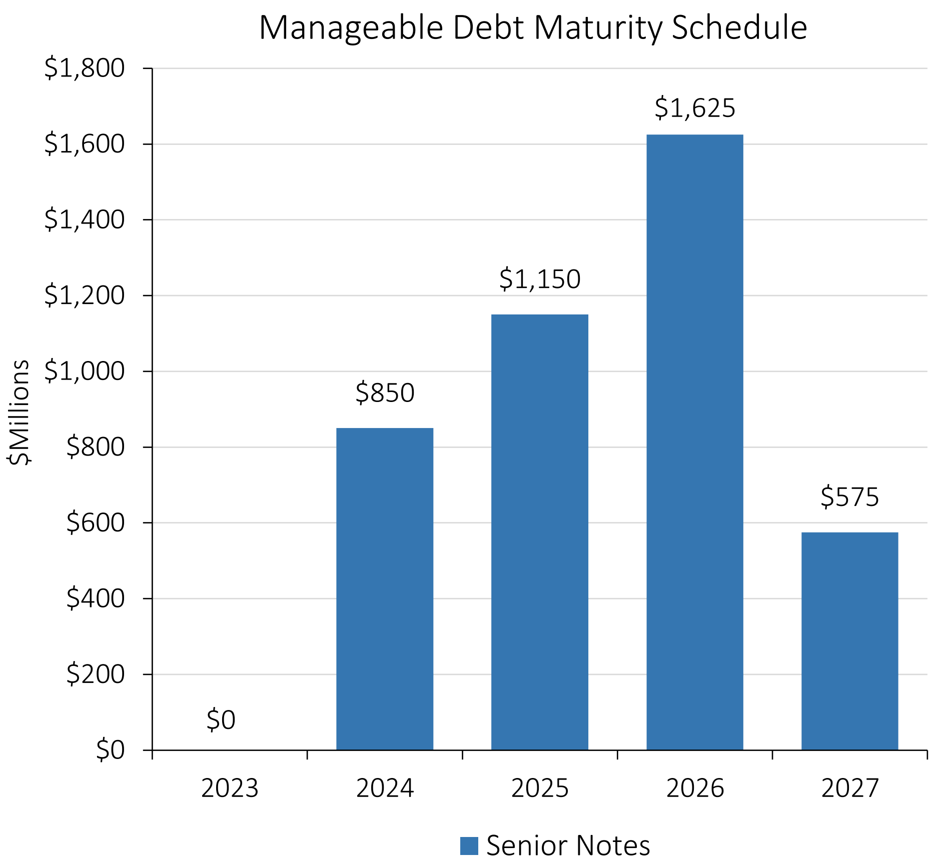
Setting the Standard for Balance Sheet Strength

A- / A- / A3
Highest credit rating in the midstream space[1]

≈$3.8B of liquidity
Ample amount of liquidity, allowing for flexibility and opportunity

4.6% weighted average cost of debt
2023 maturities retired with no need to return to capital markets in 2023

Leverage of 3.0x, with a 2.75–3.25x target range
Low leverage range reflects our robust balance sheet as we pass 25 years of consecutive distribution growth



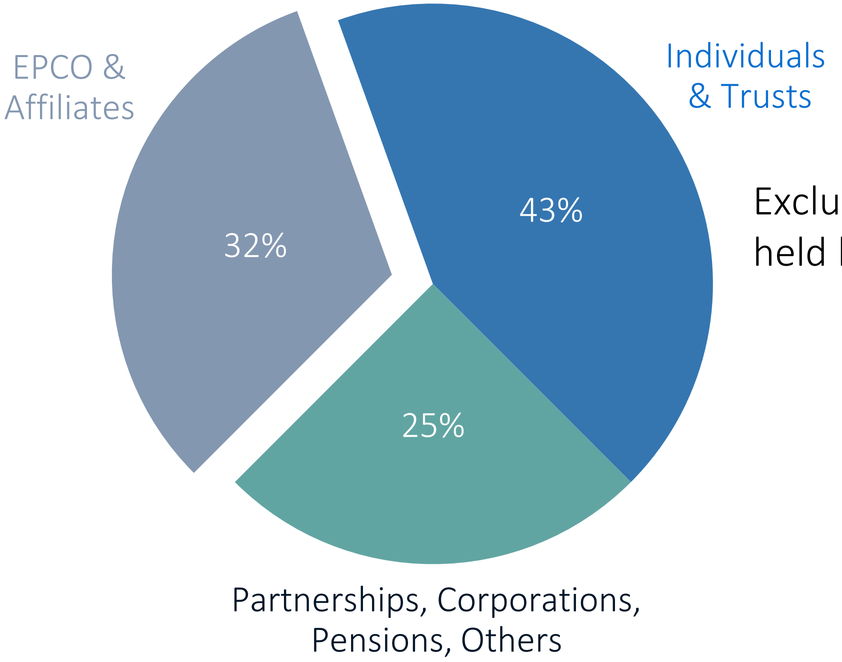
For a definition of Leverage Ratio, see Appendix.
Unless otherwise noted, all figures are as of September 30, 2023
(1) S&P, Fitch, and Moody's upgraded Enterprise to "A-" in March 2023, "A-" in September 2023, and "A3" in November 2023, respectively.

Long-Term, Distribution-Focused Unitholders

Over 50% of Units Held for 5+ Years

EPD Common Unit Ownership by Type

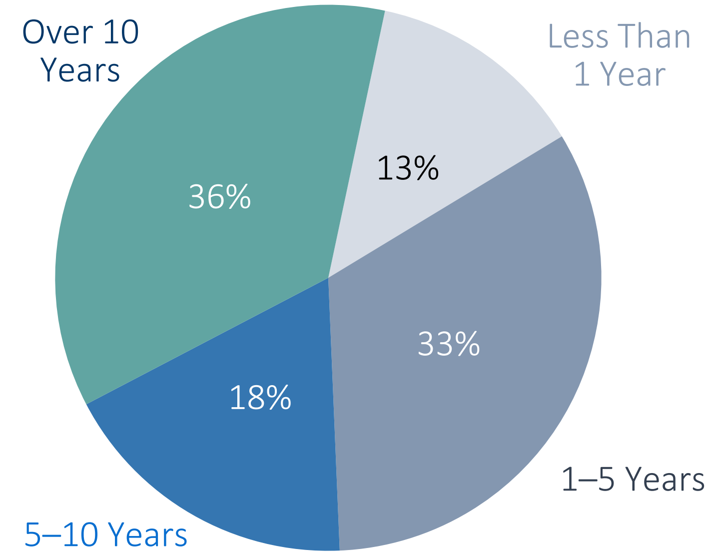
2.2 Billion Common Units Outstanding



Excluding EPCO & Affiliates, ≈63% of remaining units are held by Individuals & Trusts[1]

Length of Common Unit Ownership[2]

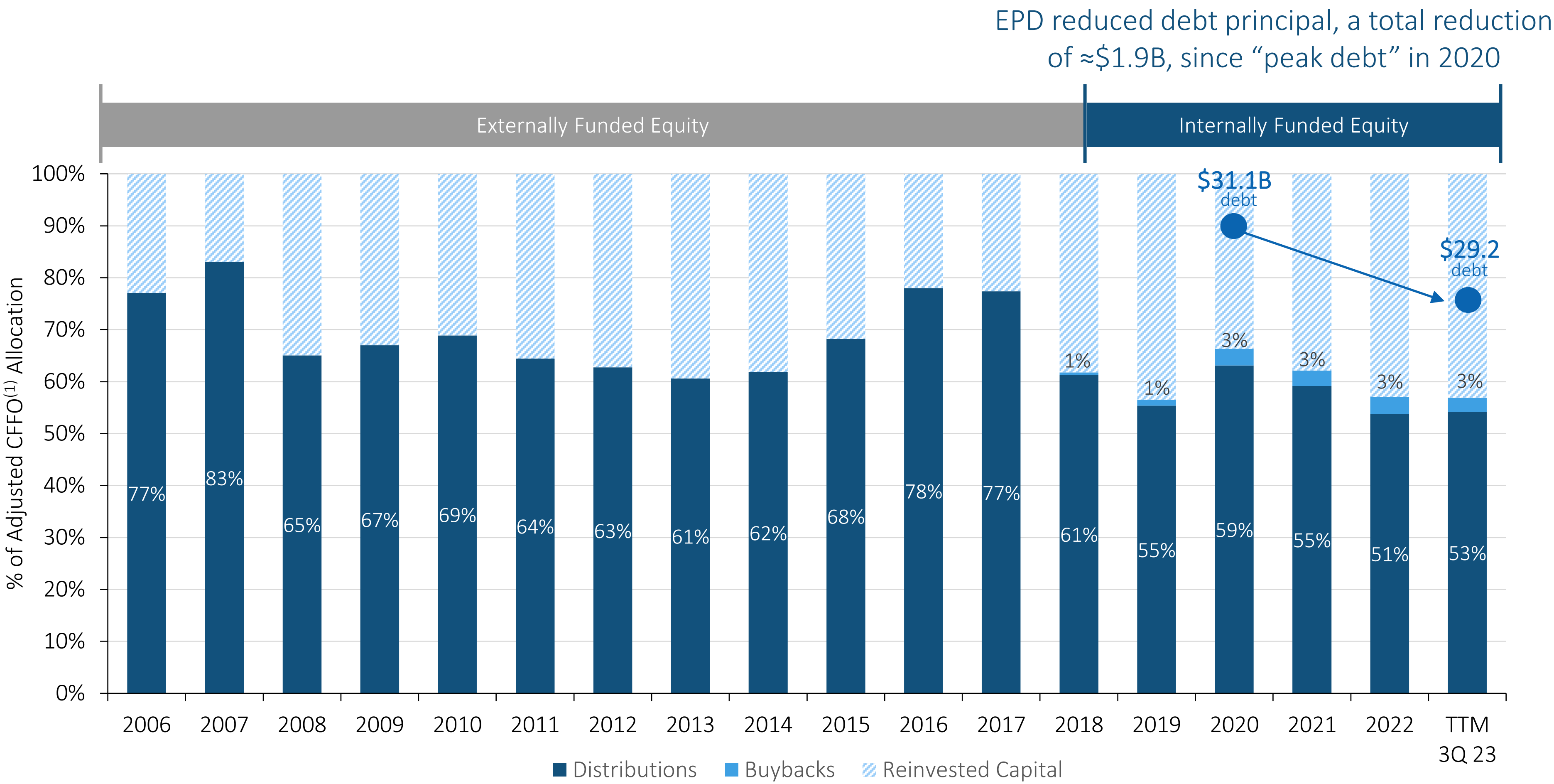
≈54% of units have been held for 5+ years



Sources: Estimates based on EPD 2022 10-K and PwC 2022 K-1 database
(1) Per PwC 2022 K-1 database
(2) Includes units owned by EPCO affiliates

History of Returning Capital to Partners

Adjusted CFFO[1]



- Distributions include: GP & LP distributions paid and distribution equivalent rights
- Excess cash flow from operations goes towards funding distributions, repayments of debt and growth capital projects

(1) For a definition, please see Appendix.

Financial Objectives

Invest in midstream energy infrastructure with attractive, long-term returns on investment

Support and grow cash distributions to partners

Buybacks

Support strong balance sheet and financial flexibility

ALL

OF

THE

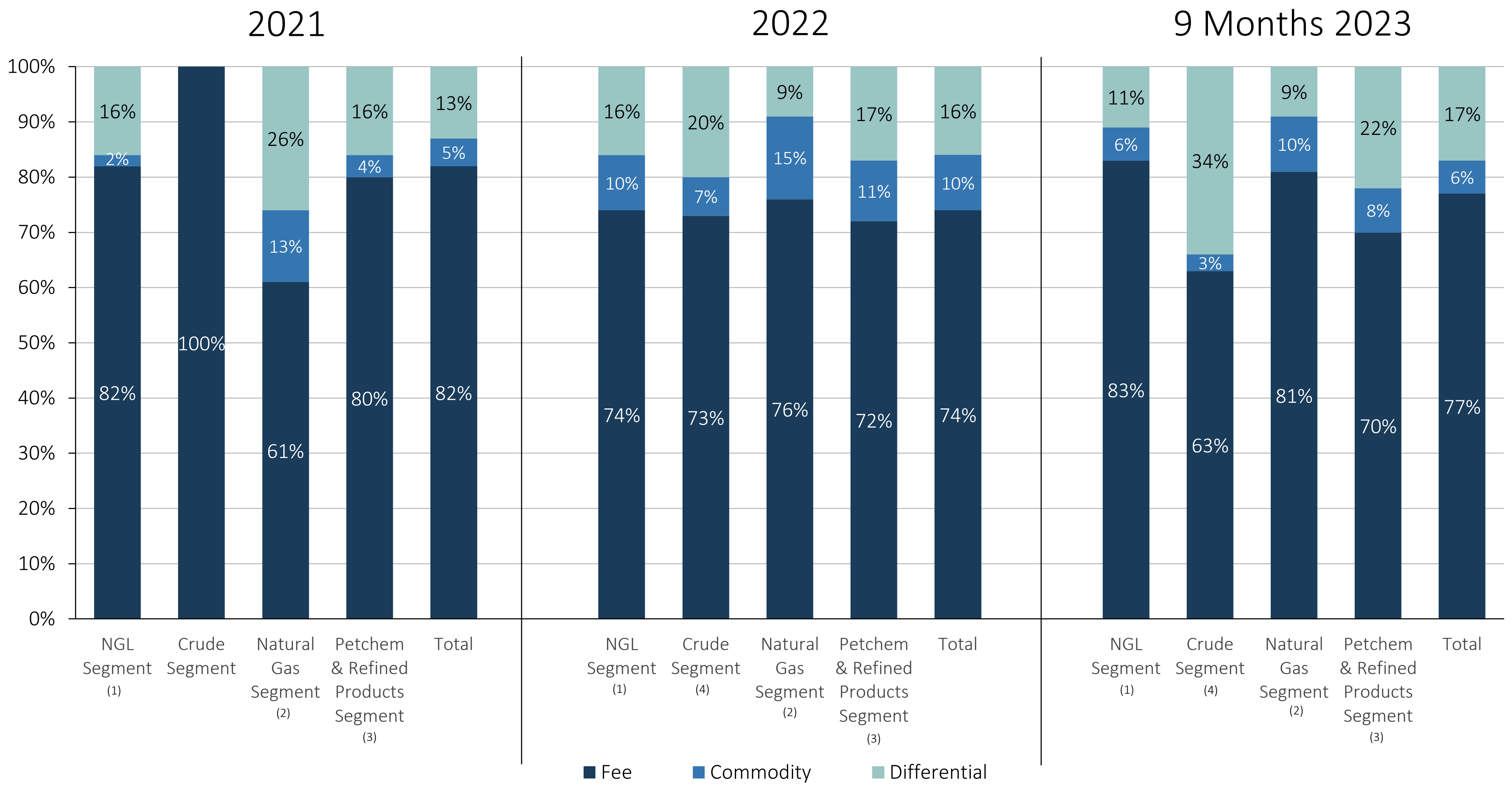
ABOVE

Appendix
Financials & Non-GAAP Reconciliations

Enterprise Products Partners L.P.

Indicative Attribution of Segment GOM

As of 3Q 2023



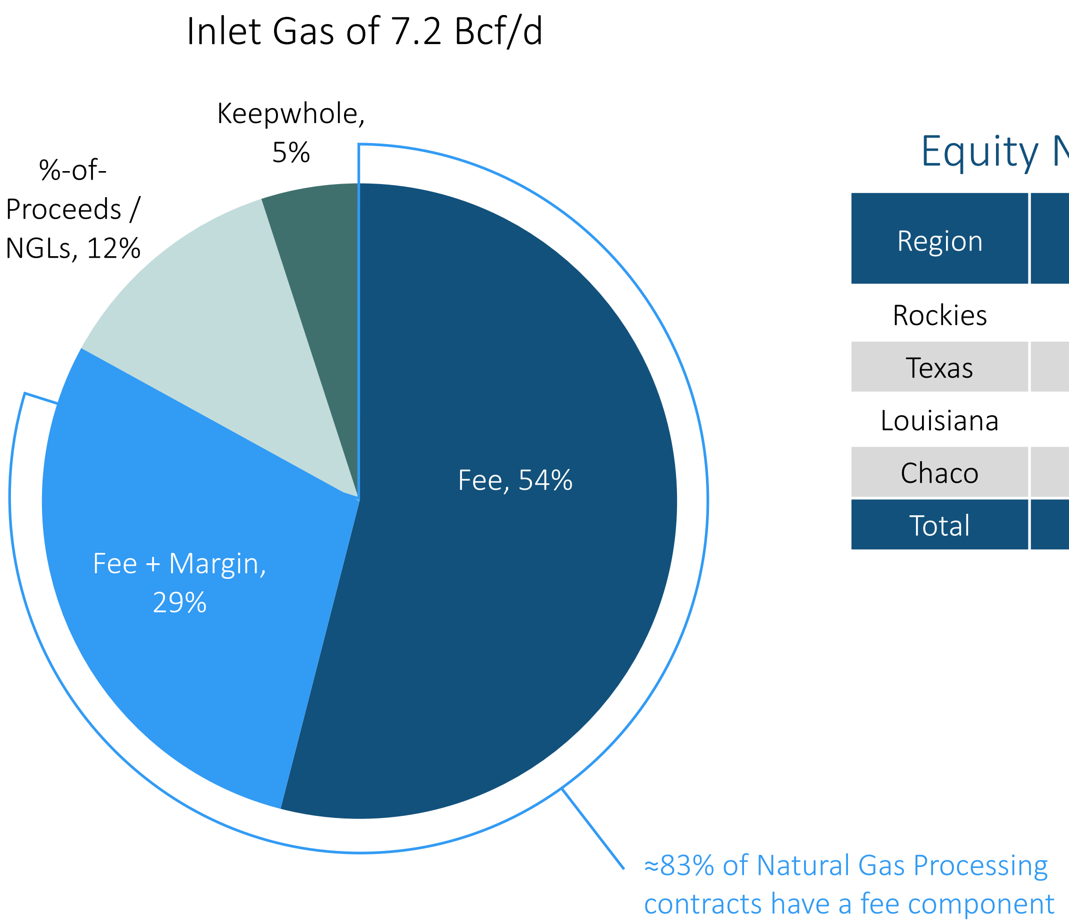
Based on Gross Operating Margin

(1) Differential-based includes: marketing transactions (including implicit fee-based activities), location or commodity differentials and keepwhole gas processing agreements. Commodity-based includes: percent of liquids and percentage of proceeds gas processing agreements.
(2) San Juan and Jonah gathering both generate commodity sensitive earnings. The largest net differential contribution was from natural gas marketing.
(3) Largest differential contributions were from propylene and octane enhancement marketing.
(4) Decrease in fee-based margin is due, in part, to the expiration of certain minimum volume commitments, including those on our EFS Midstream system.

Total gross operating margin is a Non-GAAP measure. For a reconciliation of these amounts to their nearest GAAP counterparts, see "Non-GAAP Financial Measures" on our website. The amounts above are adjusted to exclude non-cash MTM results for the respective periods.

Natural Gas Processing Contract Mix

As of 3Q 2023



Equity NGL Production (MBPD)

Region	EPD Elects to Extract Ethane	Producer Elects to Extract Ethane
Rockies	54	37
Texas	115	53
Louisiana	43	43
Chaco	8	4
Total	220	137

Note: Data reflects 9-months trailing 2023

Indicative Attribution of GOM

Slide 77 attributes gross operating margin ("GOM") among fee-based, commodity-based and differential-based business activities. Most activities fit easily into one category; however, the classification of certain activities involves an element of subjectivity. The classifications reflected in the following slides represent what we currently believe is the most logical fit of our business activities into the categories described below, based on the underlying fee or pricing characteristics applicable thereto.

These classifications may be subject to change in the event that management's estimates or assumptions underlying such classifications are revised or updated. In addition, our attribution of GOM into the categories described below may not be comparable to similar classifications by other companies because such companies may use different estimates and assumptions than we do in defining such categories or otherwise calculating such attributions.

Three categories of GOM:

- Fee-based: Pipeline transportation fees and tariffs, NGL and propylene fractionation fees, storage capacity reservation and throughput fees, export terminal fees, marine and trucking fees, fee-based natural gas processing arrangements, isomerization and dehydrogenation fees, demand and deficiency fees, and similar activities that are predominantly fee-oriented.
- Commodity-based: Percentage-of-liquids and percentage-of-proceeds natural gas processing arrangements, certain condensate sales, gathering revenues on our San Juan natural gas pipeline system, and similar activities that have commodity price exposure.
- Differential-based: Certain business activities where earnings are generated based on price differentials or spreads between locations, time periods and products in excess of any related fees, tariffs and other expenses.

Definitions

Operational DCF per Unit represents Distributable Cash Flow ("DCF") excluding proceeds from asset sales and property damage insurance claims and net receipts / payments from the monetization of interest rate derivative instruments for a period divided by the average number of fully diluted common units outstanding for that period.

Net Cash Flows Provided by Operating Activities ("**CFFO**") represents the GAAP financial measure "Net cash flows provided by operating activities".

Adjusted CFFO is CFFO before the net effect of changes in operating accounts (working capital).

Adjusted CFFO per Unit is Adjusted CFFO divided by the average number of fully diluted common units outstanding for that period.

Free Cash Flow ("FCF") is CFFO less investing activities less net cash flow to non-controlling interests.

Adjusted Free Cash Flow is CFFO before the net effect of changes in operating accounts less investing activities less net cash flow to non-controlling interests.

Adjusted Free Cash Flow per Unit is Adjusted Free Cash Flow divided by the average number of fully diluted common units outstanding for that period.

Adjusted CFFO Payout Ratio is calculated as trailing 12 months distributions + distribution equivalent rights + buybacks divided by the trailing 12 months Adjusted CFFO.

Adjusted FCF Payout Ratio is calculated as trailing 12 months distributions + distribution equivalent rights + buybacks divided by the trailing 12 months Adjusted FCF **excluding net cash used for business combinations.**

Discretionary FCF per Unit is Adjusted FCF excluding cash used for business combinations, net of cash received, less distributions and distribution equivalent right payments with respect to the applicable period divided by average number of distribution-bearing common units and phantom unit awards outstanding as of each record date during the applicable period

Leverage Ratio is defined as net debt adjusted for equity credit in junior subordinated notes (hybrids) divided by Adjusted EBITDA.

Adjusted EBITDA is earnings before interest, taxes, depreciation and amortization ("**EBITDA**") adjusted for cash distributions received from unconsolidated affiliates, equity in income of unconsolidated affiliates, non-cash impairment charges, changes in the fair market value of commodity derivative instruments and net gains/losses attributable to asset sales and related matters. Additionally, amortization of major maintenance costs for reaction-based plants is excluded as this is a component of Adjusted EBITDA.

Return on Invested Capital ("ROIC") is calculated by dividing non-GAAP gross operating margin for the assets (the numerator) by the average historical cost of the underlying assets (the denominator). The average historical cost includes fixed assets, investments in unconsolidated affiliates, intangible assets and goodwill. Like gross operating margin, the historical cost amounts used in determining ROIC are before depreciation and amortization and reflect the original purchase or construction cost.

Distributable Cash Flow

We measure available cash by reference to DCF, which is a non-GAAP cash flow measure. DCF is an important financial measure for our limited partners since it serves as an indicator of our success in providing a cash return on investment. Specifically, this financial measure indicates to investors whether or not we are generating cash flows at a level that can sustain our declared quarterly cash distributions. DCF is also a quantitative standard used by the investment community with respect to publicly traded partnerships since the value of a partnership unit is, in part, measured by its yield, which is based on the amount of cash distributions a partnership can pay to a unitholder. Our management compares the DCF we generate to the cash distributions we expect to pay our partners. Using this metric, management computes our distribution coverage ratio.

Our calculation of DCF may or may not be comparable to similarly titled measures used by other companies. The GAAP financial measure most directly comparable to DCF is net cash flows provided by operating activities. For additional information regarding DCF, see "Non-GAAP Cash Flow Measures" included under Item 7 of our annual report on Form 10-K for the most recent year.

See *"Investors – Financials"* on our website (www.enterpriseproducts.com) for more information regarding DCF, including additional reconciliation detail. The following table presents our calculation of DCF for the years 2017–2022 (each ended December 31) or periods presented below (dollars in millions):

	Total 2017	Total 2018	Total 2019	Total 2020	Total 2021	Total 2022	1Q 2023	2Q 2023	3Q 2023	Total 2023	TTM 3Q 2023
Net income attributable to common unitholders (GAAP)	$ 2,799.3	$ 4,172.4	$ 4,591.3	$ 3,775	$ 4,634	$ 5,487	$ 1,390	$ 1,253	$ 1,318	$ 3,961	$ 5,381
Adjustments to GAAP net income attributable to common unitholders to derive DCF (addition or subtraction indicated by sign):											
Depreciation, amortization and accretion expenses	1,644.0	1,791.6	1,949.3	2,072	2,140	2,245	567	576	599	1,742	2,312
Cash distributions received from unconsolidated affiliates	483.0	529.4	631.3	615	590	544	119	128	120	367	500
Equity in income of unconsolidated affiliates	(426.0)	(480.0)	(563.0)	(426)	(583)	(464)	(104)	(121)	(122)	(347)	(476)
Asset impairment charges	49.8	50.5	132.8	890	233	53	13	3	12	28	33
Change in fair market value of derivative instruments	22.8	16.4	27.2	(79)	(27)	78	3	7	38	48	80
Change in fair value of Liquidity Option Agreement	64.3	56.1	119.6	2	-	-	-	-	-	-	-
Gain on step acquisition of unconsolidated affiliate	-	(39.4)	-	-	-	-	-	-	-	-	-
Sustaining capital expenditures	(243.9)	(320.9)	(325.2)	(294)	(430)	(372)	(84)	(101)	(99)	(284)	(422)
Other, net	38.3	30.0	40.0	(128)	(88)	58	11	(14)	2	(1)	32
Subtotal DCF, before proceeds from assets sales and monetization of interest rate derivative instruments accounted for as cash flow hedges	4,431.6	5,806.1	6,603.3	6,427	6,469	7,629	1,915	1,731	1,868	5,514	7,440
Proceeds from asset sales and other matters	40.1	161.2	20.6	13	64	122	2	4	1	7	109
Monetization of interest rate derivative instruments accounted for as cash flow hedges	30.6	22.1	-	(33)	75	-	21	-	-	21	21
Distributable cash flow (non-GAAP)	4,502.3	5,989.4	6,623.9	6,407	6,608	7,751	1,938	1,735	1,869	5,542	7,570
Adjustments to non-GAAP DCF to derive GAAP net cash flows provided by operating activities (addition or subtraction indicated by sign):											
Net effect of changes in operating accounts, as applicable	32.2	16.2	(457.4)	(768)	1,366	(54)	(439)	36	(303)	(706)	(78)
Sustaining capital expenditures	243.9	320.9	325.2	294	430	372	84	101	99	284	422
Other, net	(112.1)	(200.2)	28.8	(42)	109	(30)	-	30	53	83	14
Net cash flows provided by operating activities (GAAP)	$ 4,666.3	$ 6,126.3	$ 6,520.5	$ 5,891	$ 8,513	$ 8,039	$ 1,583	$ 1,902	$ 1,718	$ 5,203	$ 7,928

Gross Operating Margin

We evaluate segment performance based on our financial measure of gross operating margin. Gross operating margin is an important performance measure of the core profitability of our operations and forms the basis of our internal financial reporting. We believe that investors benefit from having access to the same financial measures that our management uses in evaluating segment results.

Total gross operating margin represents GAAP operating income exclusive of (i) depreciation, amortization and accretion expenses (excluding amortization of major maintenance costs for reaction-based plants), (ii) impairment charges, (iii) gains and losses attributable to asset sales and related matters, and (iv) general and administrative costs. Total gross operating margin includes equity in the earnings of unconsolidated affiliates, but is exclusive of other income and expense transactions, income taxes, the cumulative effect of changes in accounting principles and extraordinary charges. Total gross operating margin is presented on a 100 percent basis before any allocation of earnings to noncontrolling interests.

Gross operating margin by segment for NGL Pipelines & Services and Crude Oil Pipelines & Services reflects adjustments for non-refundable deferred transportation revenues relating to the make-up rights of committed shippers on certain major pipeline projects. These adjustments are included in managements' evaluation of segment results. However, these adjustments are excluded from non-GAAP total gross operating margin in compliance with guidance from the SEC.

Our calculation of total gross operating margin may or may not be comparable to similarly titled measures used by other companies. The GAAP financial measure most directly comparable to total gross operating margin is operating income. For additional information regarding total gross operating margin, see Note 10 of the Notes to Consolidated Financial Statements included under Item 8 of our annual report on Form 10-K for the most recent year.

See ***"Investors – Financials"*** on our website (www.enterpriseproducts.com) for more information regarding GOM, including additional reconciliation detail. The following table presents our calculation of GOM for the years 2017–2022 (each ended December 31) or periods presented below (dollars in millions):

	Total 2017	Total 2018	Total 2019	Total 2020	Total 2021	Total 2022	1Q 2023	2Q 2023	3Q 2023	Total 2023	TTM Q3 2023
Gross operating margin by segment:											
NGL Pipelines & Services	$ 3,258.3	$ 3,830.7	$ 4,069.8	$ 4,182	$ 4,316	$ 5,142	$ 1,212	$ 1,110	$ 1,196	$ 3,518	$ 4,812
Crude Oil Pipelines & Services	987.2	1,511.3	2,087.8	1,997	1,680	1,655	397	422	432	1,251	1,669
Natural Gas Pipelines & Services	714.5	891.2	1,062.6	927	1,155	1,042	314	238	239	791	1,106
Petrochemical & Refined Products Services	714.6	1,057.8	1,069.6	1,082	1,357	1,517	419	383	453	1,255	1,594
Offshore Pipelines & Services	-	-	-	-	-	-	-	-	-	-	-
Other Investments	-	-	-	-	-	-	-	-	-	-	-
Total segment gross operating margin (a)	5,674.6	7,291.0	8,289.8	8,188	8,508	9,356	2,342	2,153	2,320	6,815	9,181
Net adjustment for shipper make-up rights (b)	5.8	34.7	(24.1)	(85)	53	(47)	(7)	28	11	32	34
Total gross operating margin (non-GAAP)	5,680.4	7,325.7	8,265.7	8,103	8,561	9,309	2,335	2,181	2,331	6,847	9,215
Adjustments to reconcile non-GAAP gross operating margin to GAAP operating income (addition or subtraction indicated by sign):											
Depreciation, amortization and accretion expense in operating costs and expenses (c)	(1,531.3)	(1,687.0)	(1,848.3)	(1,962)	(2,011)	(2,107)	(533)	(545)	(566)	(1,644)	(2,182)
Asset impairment charges in operating costs and expenses	(49.8)	(50.5)	(132.7)	(890)	(233)	(53)	(13)	(3)	(11)	(27)	(32)
Operating lease expenses paid by EPCO	-	-	-	-	-	-	-	-	-	-	-
Net gains or losses attributable to asset sales and related matters in operating costs and expenses	10.7	28.7	5.7	4	(5)	(1)	2	2	-	4	6
General and administrative costs	(181.1)	(208.3)	(211.7)	(220)	(209)	(241)	(57)	(56)	(59)	(172)	(234)
Operating income (GAAP)	$ 3,928.9	$ 5,408.6	$ 6,078.7	$ 5,035	$ 6,103	$ 6,907	$ 1,734	$ 1,579	$ 1,695	$ 5,008	$ 6,773

(a) Within the context of this table, total segment gross operating margin represents a subtotal and corresponds to measures similarly titled and presented with the business segment footnote found in our consolidated financials statements.
(b) Gross operating margin by segment for NGL Pipelines & Services and Crude Oil Pipelines & Services reflect adjustments for shipper make-up rights that are included in management's evaluation of segment results. However, these adjustments are excluded from non-GAAP total gross operating margin in compliance with guidance from the SEC.
(c) Excludes amortization of major maintenance costs for reaction-based plants, which are a component of gross operating margin.

Free Cash Flow (“FCF”) and Adjusted FCF

FCF is a non-GAAP cash flow metric that is widely used by a variety of investors and other participants in the financial community, reflects how much cash flow a business generates during a period after accounting for all capital investments, including expenditures for growth and sustaining capital projects. By comparison, only sustaining capital expenditures are reflected in Distributable Cash Flow ("DCF").

We believe that FCF is important to traditional investors since it reflects the amount of cash available for reducing debt, investing in additional capital projects, paying distributions, common unit repurchases and similar matters. Since business partners fund certain capital projects of our consolidated subsidiaries, our determination of FCF reflects the amount of cash we receive from noncontrolling interests, net of any distributions paid to such interests.

Our calculation of FCF may or may not be comparable to similarly titled measures used by other companies. The GAAP financial measure most directly comparable to FCF is net cash flows provided by operating activities.

Adjusted FCF is a non-GAAP measure of how much cash a business generates, excluding the net effect of changes in operating accounts, after accounting for capital expenditures. Like FCF, we believe that Adjusted FCF is important to traditional investors since it reflects the amount of cash available for reducing debt, investing in additional capital projects and/or paying distributions, without regard for fluctuations caused by timing of when amounts earned or incurred were collected, received or paid from period to period. Since we partner with other companies to fund certain capital projects of our consolidated subsidiaries, our determination of Adjusted FCF appropriately reflects the amount of cash contributed from and distributed to noncontrolling interests.

Our calculation of Adjusted FCF may or may not be comparable to similarly titled measures used by other companies. The GAAP financial measure most directly comparable to Adjusted FCF is net cash flows provided by operating activities.

See ***“Investors – Financials”*** on our website (www.enterpriseproducts.com) for more information regarding FCF and Adjusted FCF, including additional reconciliation detail. The following table presents our calculation of FCF and Adjusted FCF for the years 2017–2022 (each ended December 31) or periods presented below (dollars in millions):

	Total 2017	Total 2018	Total 2019	Total 2020	Total 2021	Total 2022	1Q 2023	2Q 2023	3Q 2023	Total 2023	TTM 3Q 2023
Net cash flow provided by operating activities (GAAP)	$ 4,666.3	$ 6,126.3	$ 6,520.5	$ 5,891	$ 8,513	$ 8,039	$ 1,583	$ 1,902	$ 1,718	$ 5,203	$ 7,928
Adjustments to reconcile GAAP net cash flow provided by operating activities to non-GAAP free cash flow and Adjusted free cash flow (addition or subtraction by sign):											
Cash used in investing activities	(3,286.1)	(4,281.6)	(4,575.5)	(3,121)	(2,135)	(4,954)	(637)	(765)	(818)	(2,220)	(2,865)
Cash contributions from noncontrolling interests	0.4	238.1	632.8	31	72	7	4	11	10	25	28
Cash distributions paid to noncontrolling interests	(49.2)	(81.6)	(106.2)	(131)	(154)	(163)	(42)	(39)	(40)	(121)	(169)
Free Cash Flow (non-GAAP)	1,331.4	2,001.2	2,471.6	2,670	6,296	2,929	908	1,109	870	2,887	4,922
Net effect of changes in operating accounts, as applicable	(32.2)	(16.2)	457.4	768	(1,366)	54	439	(36)	303	706	78
Adjusted Free Cash Flow (non-GAAP)	$ 1,299.2	$ 1,985.0	$ 2,929.0	$ 3,438	$ 4,930	$ 2,983	$ 1,347	$ 1,073	$ 1,173	$ 3,593	$ 5,000

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Adjusted EBITDA

Adjusted EBITDA is earnings before interest, taxes, depreciation and amortization ("EBITDA") adjusted for cash distributions received from unconsolidated affiliates, equity in income of unconsolidated affiliates, non-cash impairment charges, changes in the fair market value of commodity derivative instruments and net gains/losses attributable to asset sales and related matters. Additionally, amortization of major maintenance costs for reaction-based plants is excluded as this is a component of Adjusted EBITDA.

Adjusted EBITDA is commonly used as a supplemental financial measure by our management and external users of our financial statements, such as investors, commercial banks, research analysts and rating agencies, to assess the financial performance of our assets without regard to financing methods, capital structures or historical cost basis; the ability of our assets to generate cash sufficient to pay interest and support our indebtedness; and the viability of projects and the overall rates of return on alternative investment opportunities.

Since Adjusted EBITDA excludes some, but not all, items that affect net income or loss and because these measures may vary among other companies, our calculation of Adjusted EBITDA may not be comparable to similarly titled measures of other companies. The GAAP financial measure most directly comparable to Adjusted EBITDA is net cash flow provided by operating activities.

See ***"Investors – Financials"*** on our website (www.enterpriseproducts.com) for more information regarding Adjusted EBITDA, including additional reconciliation detail. The following table presents our calculation of Adjusted EBITDA for the years 2017–2022 (each ended December 31) or periods presented below (dollars in millions):

	Total 2017	Total 2018	Total 2019	Total 2020	Total 2021	Total 2022	1Q 2023	2Q 2023	3Q 2023	Total 2023	TTM 3Q 2023
Net income (GAAP)	$ 2,855.6	$ 4,238.5	$ 4,687.1	$ 3,886	$ 4,755	$ 5,615	$ 1,422	$ 1,283	$ 1,350	$ 4,055	$ 5,507
Adjustments to GAAP net income to derive non-GAAP Adjusted EBITDA (addition or subtraction indicated by sign):											
Depreciation, amortization and accretion in costs and expenses (a)	1,565.9	1,723.3	1,894.3	2,010	2,055	2,156	546	558	579	1,683	2,233
Interest expense, including related amortization	984.6	1,096.7	1,243.0	1,287	1,283	1,244	314	302	328	944	1,251
Cash distributions received from unconsolidated affiliates	483.0	529.4	631.3	615	590	544	119	128	120	367	500
Equity in income of unconsolidated affiliates	(426.0)	(480.0)	(563.0)	(426)	(583)	(464)	(104)	(121)	(122)	(347)	(476)
Asset impairment charges	49.8	50.5	132.8	890	233	53	13	3	12	28	33
Provision for or benefit from income taxes	25.7	60.3	45.6	(124)	70	82	10	13	22	45	73
Change in fair market value of commodity derivative instruments	23.1	16.2	(67.7)	(79)	(27)	78	3	7	38	48	80
Change in fair value of Liquidity Option Agreement	64.3	56.1	119.6	2	-	-	-	-	-	-	-
Gain on step acquisition of unconsolidated affiliate	-	(39.4)	-	-	-	-	-	-	-	-	-
Other, net	(10.7)	(28.7)	(5.7)	(4)	5	1	(2)	(2)	-	(4)	(6)
Adjusted EBITDA (non-GAAP)	5,615.3	7,222.9	8,117.3	8,057	8,381	9,309	2,321	2,171	2,327	6,819	9,195
Adjustments to non-GAAP Adjusted EBITDA to derive GAAP net cash flows provided by operating activities (addition or subtraction by sign):											
Interest expense, including related amortization	(984.6)	(1,096.7)	(1,243.0)	(1,287)	(1,283)	(1,244)	(314)	(302)	(328)	(944)	(1,251)
Net effect of changes in operating accounts, as applicable	32.2	16.2	(457.4)	(768)	1,366	(54)	(439)	36	(303)	(706)	(78)
Other, net	3.4	(16.1)	103.6	(111)	49	28	15	(3)	22	34	62
Net cash flows provided by operating activities (GAAP)	$ 4,666.3	$ 6,126.3	$ 6,520.5	$ 5,891	$ 8,513	$ 8,039	$ 1,583	$ 1,902	$ 1,718	$ 5,203	$ 7,928

(a) Excludes amortization of major maintenance costs for reaction-based plants, which are a component of Adjusted EBITDA.

Adjusted CFFO

Adjusted CFFO is a non-GAAP measure that represents net cash flow provided by operating activities ("CFFO") before the net effect of changes in operating accounts. We believe that it is important to consider this non-GAAP measure as it can often be a better way to measure the amount of cash generated from our operations that can be used to fund our capital investments or return value to our investors through cash distributions and buybacks, without regard for fluctuations caused by timing of when amounts earned or incurred were collected, received or paid from period to period.

Our calculation of Adjusted CFFO may or may not be comparable to similarly titled measures used by other companies. The GAAP financial measure most directly comparable to Adjusted CFFO is net cash flows provided by operating activities.

See ***"Investors – Financials"*** on our website (www.enterpriseproducts.com) for more information regarding Adjusted CFFO, including additional reconciliation detail. The following table presents our calculation of Adjusted CFFO for the years 2017–2022 (each ended December 31) or periods presented below (dollars in millions):

	Total 2017	Total 2018	Total 2019	Total 2020	Total 2021	Total 2022	1Q 2023	2Q 2023	3Q 2023	Total 2023	TTM 3Q 2023
Net cash flow provided by operating activities (GAAP)	$ 4,666.3	$ 6,126.3	$ 6,520.5	$ 5,891	$ 8,513	$ 8,039	$ 1,583	$ 1,902	$ 1,718	$ 5,203	$ 7,928
Adjustments to reconcile net cash flow provided by operating activities to Adjusted Cash Flow from operations											
Net effect of changes in operating accounts, as applicable	(32.2)	(16.2)	457.4	768	(1,366)	54	439	(36)	303	706	78
Adjusted CFFO (non-GAAP)	$ 4,634.1	$ 6,110.1	$ 6,977.9	$ 6,659	$ 7,147	$ 8,093	$ 2,022	$ 1,866	$ 2,021	$ 5,909	$ 8,006

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