EIA Workshop Series: Trends and Expectations Surrounding the Outlook for Energy Markets

Petroleum and Natural Gas Markets Workshop

This event will begin shortly.



www.eia.gov/outlooks/aeo/workshop/energy_markets/

Session 1:

Identifying signposts for rebalanced oil and gas markets

Panelists:

- John Kemp, Reuters
- Kevin Book, Clearview Energy Partners (Managing Director)



Oil market situation Selected indicators

JOHN KEMP REUTERS 28 September 2020 What do we mean by "oil market rebalancing"? At least five elements

Closer balance between supply & demand

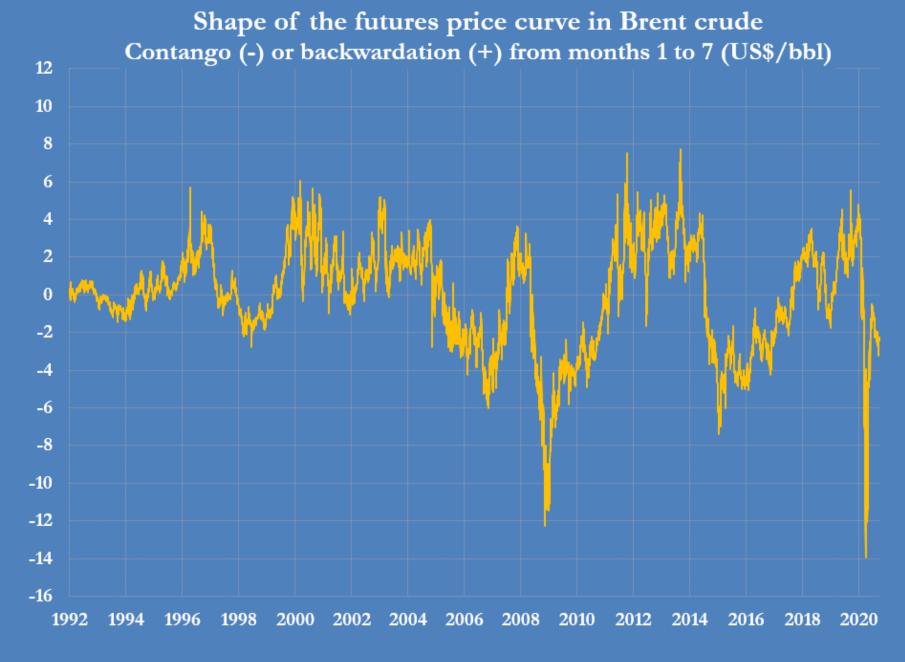
Normalisation of crude & product stocks

Forward price curve

Sustainable flat price

Sustainable investment

We will put aside for the moment the question of whether the oil market has ever been or will be "in balance"



Price difference Brent month 1 and month 7 (U.S.\$/bbl) Source: ICE Futures, @JKempEnergy Contango (-) or backwardation (+)



Source: ICE Futures Europe

@JKempEnergy

Real oil price, U.S./bbl, monthly, 1990-2020 Front month Brent futures adjusted by U.S. CPI ex food and energy



Sources: ICE Futures Europe, U.S. Bureau of Labor Statistics

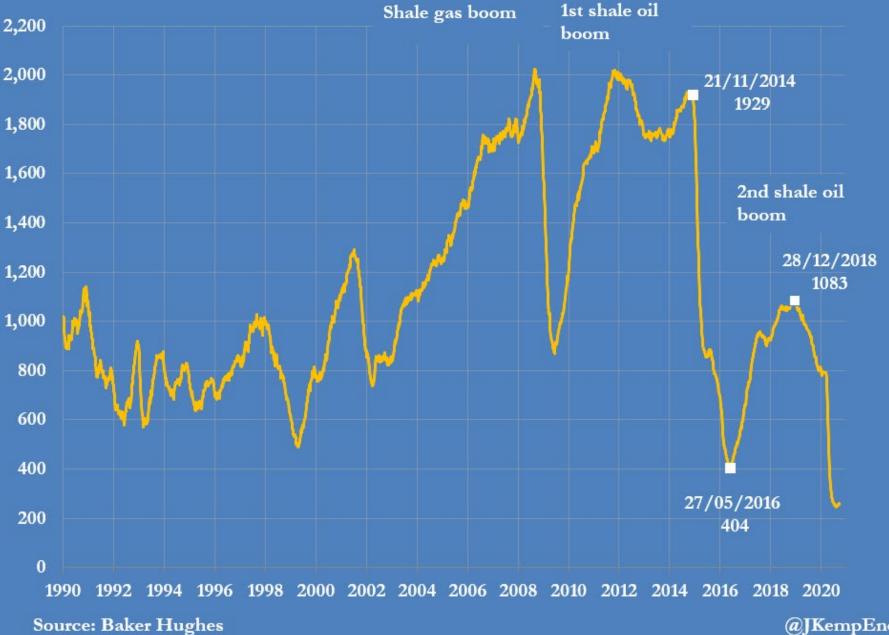
@JKempEnergy



Source: ICE Futures Europe, U.S. Bureau of Labor Statistics

@JKempEnergy

Rigs drilling for oil and gas in the United States, 1990-2020



(a) JKempEnergy

OIL MARKET QUESTIONS FOR AN "ASTERISK YEAR"

PRESENTATION TO THE U.S. ENERGY INFORMATION ADMINISTRATION

KEVIN BOOK MANAGING DIRECTOR

SEPTEMBER 29, 2020



CLEAR IEW ENERGY PARTNERS LLC

DISCLOSURES

Risks

Legislative, regulatory and diplomatic agendas are subject to change.

Analyst Certifications

I hereby certify that the views expressed in this presentation accurately reflect my personal views as of the date of this presentation. I further certify that no part of my compensation was, is or will be directly or indirectly related to the specific recommendations or views contained in this presentation.

By: Kevin Book

Disclosures

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THE ASTERISK: A SYMBOL OF OMISSION OR LIMITING FACTS



Source: ClearView Energy Partners, LLC



SEPTEMBER 29, 2020

THE ASTERISK: A SYMBOL OF OMISSION OR LIMITING FACTS



Is Demand Different, And For How Long?

- COVID-19 could change the nature of demand:
 (1) scale; (2) form; (3) timing; and (4) location.
- Examples:
 - Electrons at home vs. molecules on the road
 - Consumption effects of enhanced unemployment (and the loss of it)
 - Going local: U.S. light-duty consumption is ~10% of global liquids

Source: ClearView Energy Partners, LLC



THE ASTERISK: A SYMBOL OF OMISSION OR LIMITING FACTS



Key Uncertainties

- How governmental, institutional and individual risk perceptions might shape consumption behaviors;
- (2) The nature of COVID-19 itself, especially the existence and duration of immunity; and
- (3) The inertia and plasticity of economies wracked by stark job losses.

Source: ClearView Energy Partners, LLC



ASTERISK-YEAR DEMAND: LESS AIR TRAVEL



An Industry Conference In the 2020s?



Source: ClearView Energy Partners, LLC, using photo from blog.zoom.us



ASTERISK-YEAR DEMAND: LESS DAILY COMMUTING

The Morning Commute In the 2020s?



Source: ClearView Energy Partners, LLC, using photo from freepik.com





ASTERISK-YEAR DEMAND: LESS PUBLIC TRANSIT FOR THOSE WHO COMMUTE



Public Transportation In the 2020s?



Source: ClearView Energy Partners, LLC, using photo from vox.com credited to Kevork Djansezian/Getty Images



ASTERISK-YEAR DEMAND: LOWER LABOR INTENSITY AT WORK



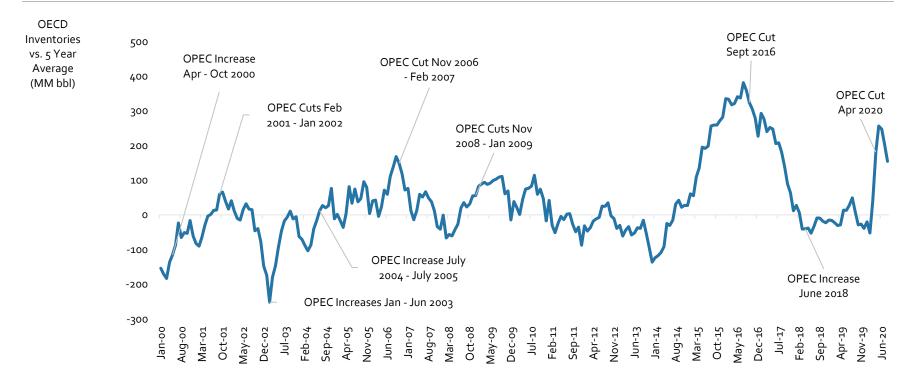
Factory Workers In the 2020s?



Source: ClearView Energy Partners, LLC, using photo from airbus.com



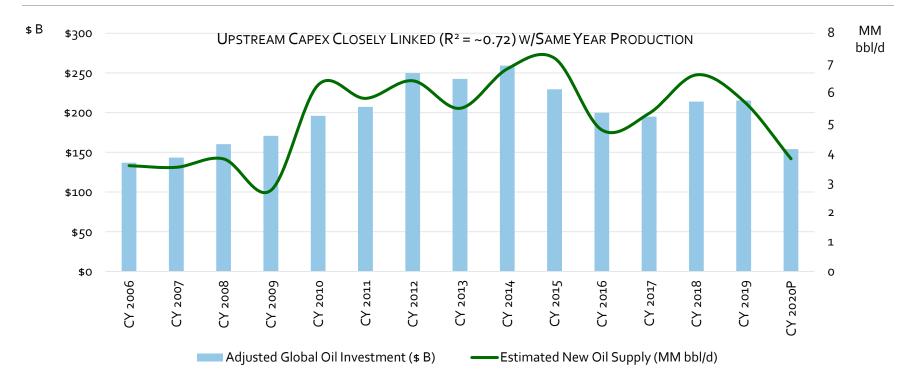
ASTERISK YEAR SUPPLY QUESTION #1: OPEC+ (OR OPEC*)?



Source: ClearView Energy Partners, LLC, using EIA data (thru September 2020 STEO)



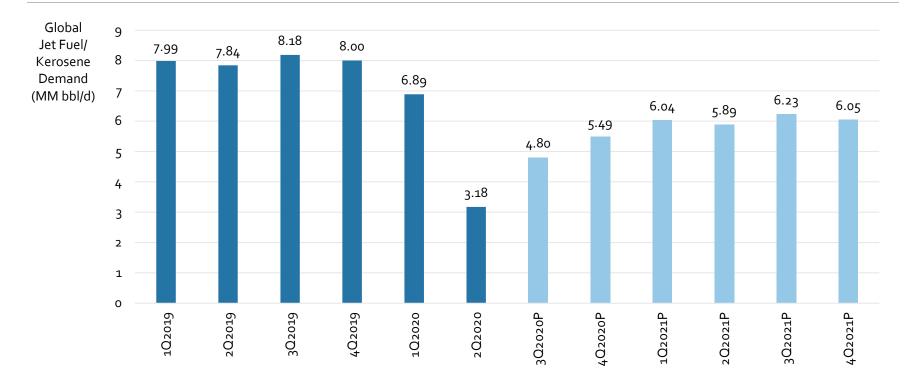
ASTERISK YEAR SUPPLY QUESTION #2: UPSTREAM CAPEX AND SUPPLY



Source: ClearView Energy Partners, LLC, using BP, EIA and IEA data



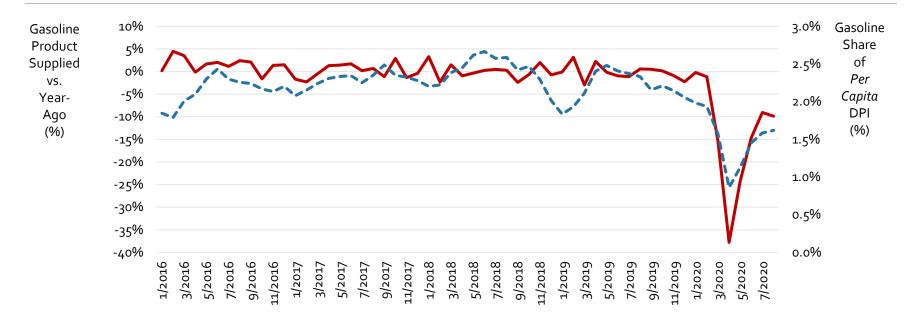
MORE LIKELY A BIRD (OR SUPERMAN) THAN A PLANE



Source: ClearView Energy Partners, LLC, using IATA and IEA data



LOCKDOWN DEMAND DESTRUCTION VS. INCOME-DRIVEN DEMAND EFFECTS

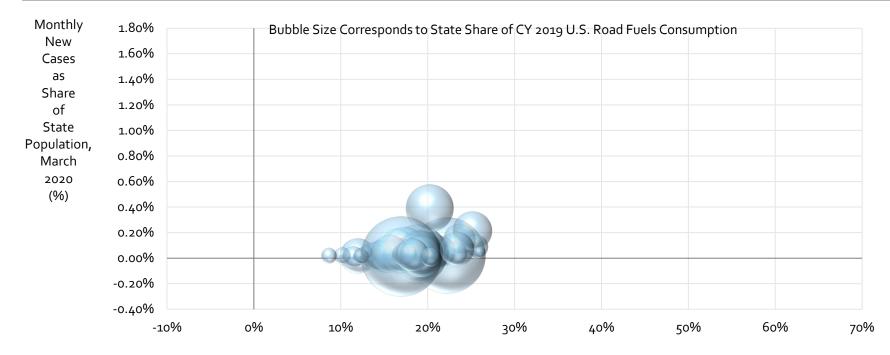


- Gasoline Product Supplied vs. Year-Ago (%) - - - Annualized U.S. Gasoline Spending as a Share of Real, Per Capita DPI (%)

Source: ClearView Energy Partners, LLC, using BEA, Census Bureau, EIA, FHWA and St. Louis Fed data



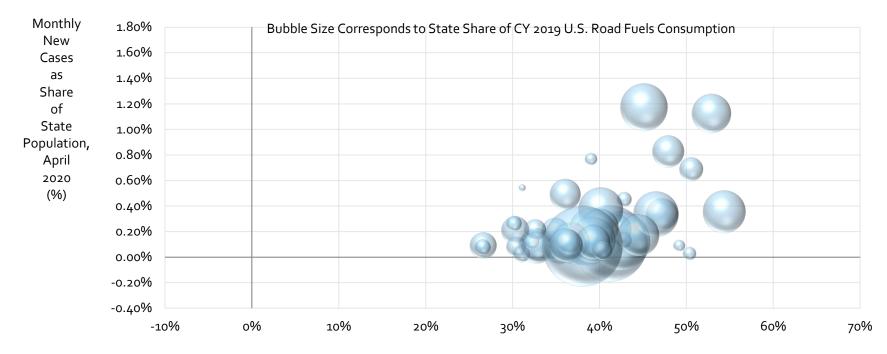
M/M Δ U.S. Cases vs. Y/Y Δ VMT By State: March 2020



Change in State VMT vs. Year-Ago, March 2020 (%)



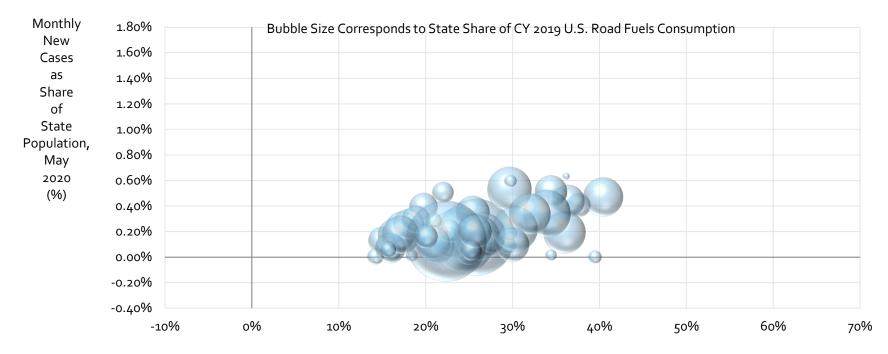
M/M Δ U.S. Cases vs. Y/Y Δ VMT By State: April 2020



Change in State VMT vs. Year-Ago, April 2020 (%)



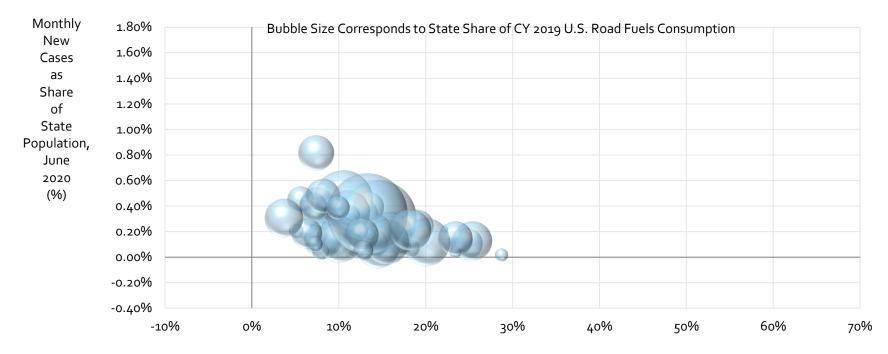
M/M Δ U.S. Cases vs. Y/Y Δ VMT By State: May 2020



Change in State VMT vs. Year-Ago, May 2020 (%)



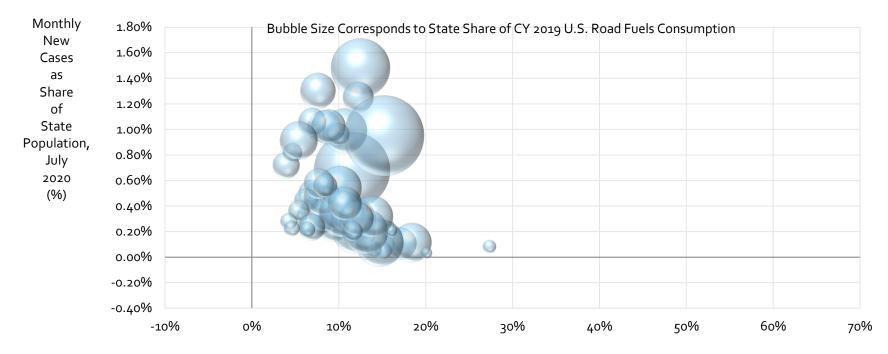
M/M Δ U.S. Cases vs. Y/Y Δ VMT By State: June 2020



Change in State VMT vs. Year-Ago, June 2020 (%)



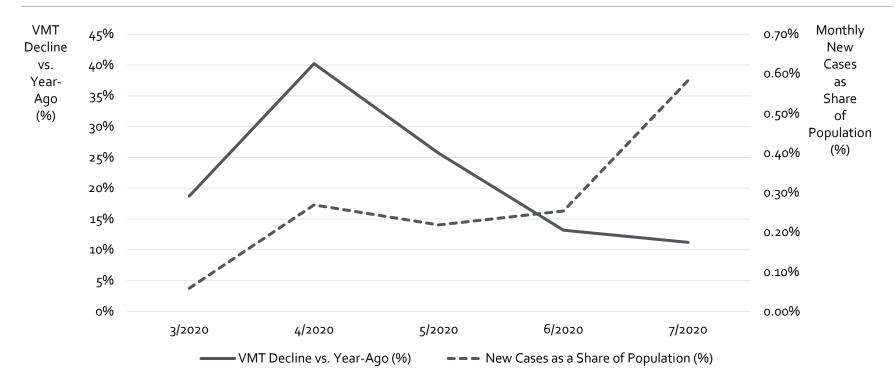
M/M Δ U.S. Cases vs. Y/Y Δ VMT by State: July 2020P



Change in State VMT vs. Year-Ago, July 2020 (%)

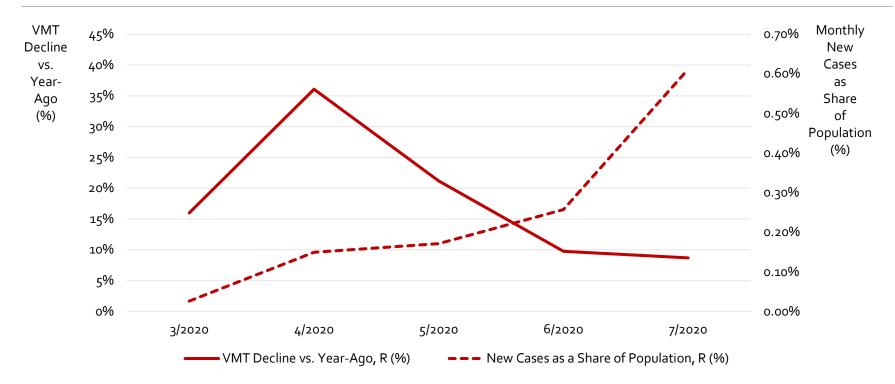


M/M Δ U.S. Cases vs. Y/Y Δ VMT: All U.S. States + DC



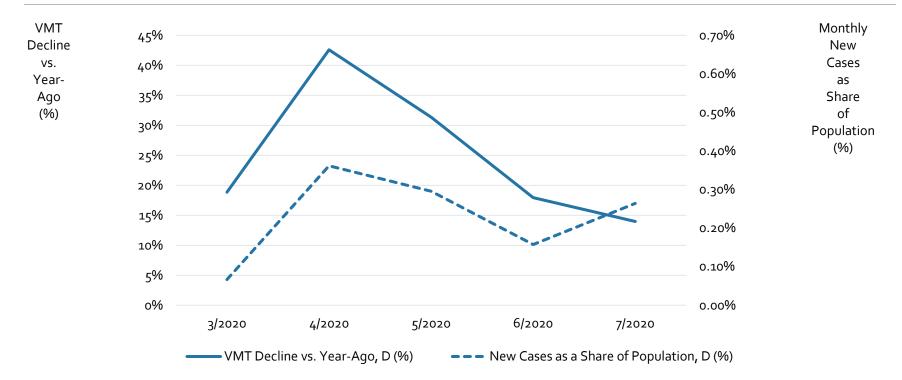


M/M Δ U.S. Cases vs. Y/Y Δ VMT: 2016 "Red" (Trump) States





M/M Δ U.S. Cases vs. Y/Y Δ VMT: 2016 "Blue" (Clinton) States





Session 2:

Supply competition in oil and gas markets

Panelists:

- Mark Finley, Rice University's Baker Institute (Fellow)
- Sara Vakhshouri, SVB International (Founder)
- Ross Wyeno, S&P Global Platts (Lead Analyst, LNG Analytics)



Global Gas and LNG Market

Ross Wyeno Lead Analyst, Americas LNG Analytics S&P Global Platts

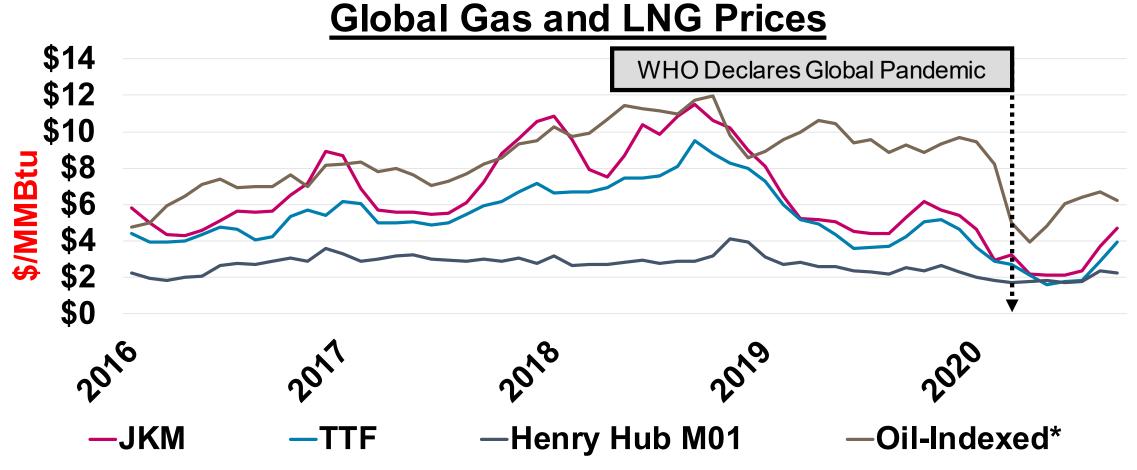
September 29, 2020



S&P Global Platts



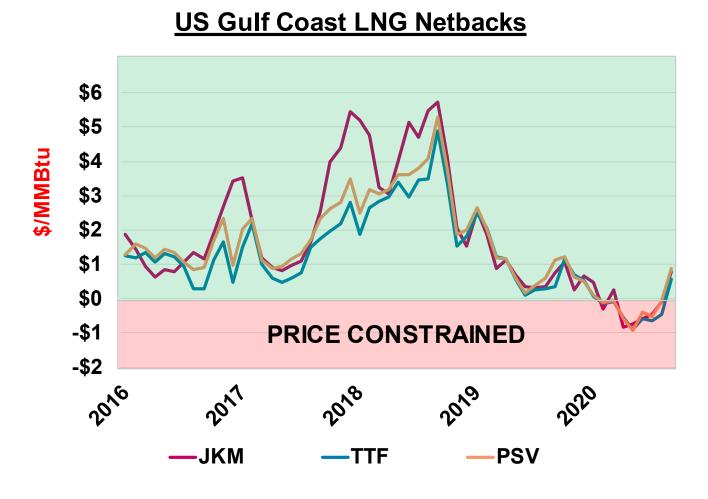
Global LNG prices have been down trending since 2018, but the pandemic caused outright prices to invert below the Henry Hub



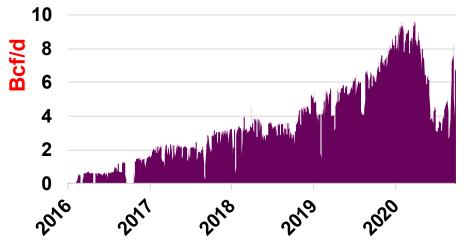
^{*}Estimate based on 14.85% Brent Crude Oil



US LNG exports became constrained this summer as global prices fell below the variable costs of delivered LNG



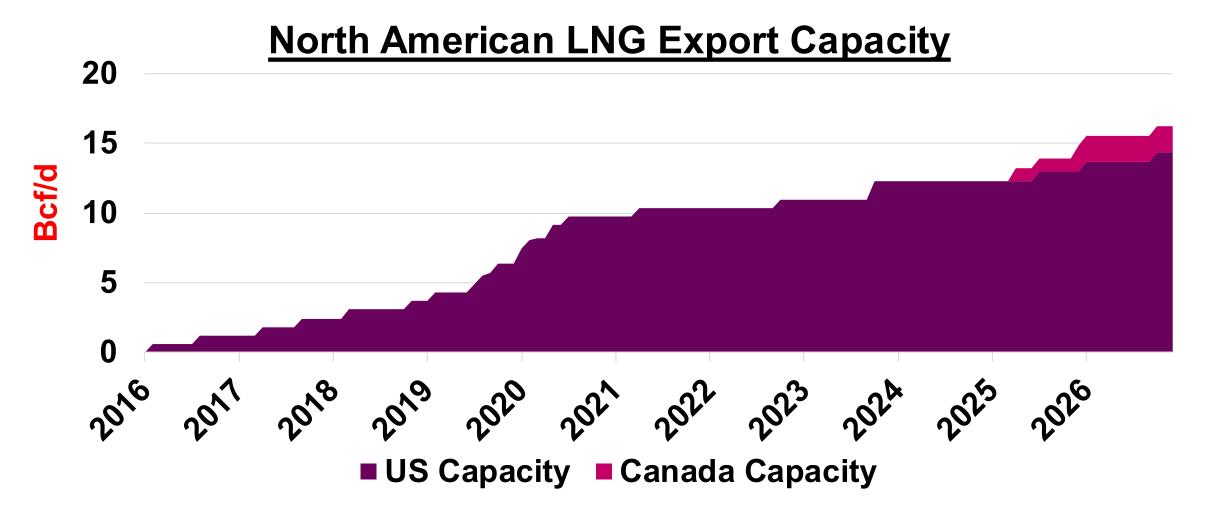
<u>US LNG Feedgas Deliveries</u>



US LNG feedgas deliveries collapsed when netback spreads turned negative

Exports expected to recover this winter, but price risks persist into 2021

US is expected to become the worlds largest LNG exporter by 2022; North American capacity to breach 16 Bcf/d by 2026





EIA Workshop Series: Trends and Expectations Surrounding the Outlook for Energy Markets

Upcoming:

Electric Power Markets Workshop

Thursday, October 1, 2020 (1:00 p.m.–2:30 p.m.)

Follow up questions: AnnualEnergyOutlook@eia.gov

