# DON'T CALL IT A COMEBACK

Fundamental Edge Report | July 2020



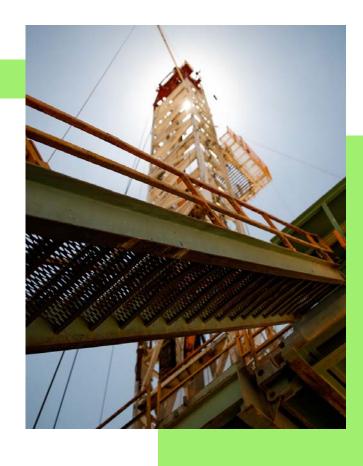


#### **Introduction and Key Takeaways**

- **Crude oil** prices staged an impressive recovery in May and June after deep production cuts and a partial recovery in demand for motor fuels. After a painful shock to the system, rebalancing is currently underway.
  - BUT .....The recovery in demand remains tenuous, though, and anemic refining margins and the recent rise in new COVID-19 cases do raise concerns.
  - We nevertheless remain cautiously optimistic that the rebalancing will continue, with much needed inventory draws coming over the second quarter of 2020, extending into 2021.
- The **natural gas** market remains very bearish, with prices averaging under \$2/MMBtu in 2020. Demand losses due to COVID-19 have been higher than the production declines so far.
  - However, current production levels are not enough to meet the upcoming peak-demand winter months.
     Therefore, Enverus expects prices to increase north of \$3.50/MMBtu as soon as this winter 2020-21 in order to incentivize drilling activity. Based on breakeven prices, production growth will come from the Marcellus/Utica, Haynesville, and Permian.
- Q2'20 earnings will begin in the back half of July. All eyes will be on curtailments, activity, costs, and liquidity. The April-through-June quarter saw a range of budget fluctuations, bankruptcies, shut-ins, and operational disruptions. With WTI eclipsing \$40 in late June, we expect optimistic but erratic results, with a continued focus on balance sheet health and hedges to suppress near-term ambiguity.



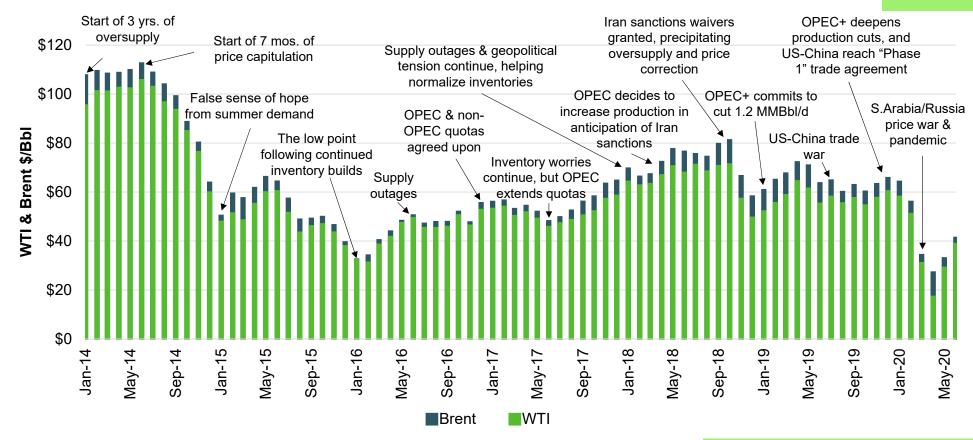
## **CRUDE OIL**





#### **Overview**

#### WTI & Brent \$/Bbl Over Time



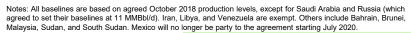


Source: Enverus Trading & Risk

## **OPEC+ Production Cuts**

Participant	Agreed Baseline	May-June Cut	July Cut	Aug-Dec Cut	Jan 21-Apr 22 Cut	
Saudi Arabia	11,000	2,508	2,508	2,012	1,515	
Iraq	4,653	1,061	1,061	851	641	
UAE	3,168	722	722	579	436	
Kuwait	2,809	641	641	514	387	
Nigeria	1,829	417	417	335	252	
Angola	1,528	348	348	279	211	
Algeria	1,057	241	241	193	146	
Congo	325	74	74	59	45	
Gabon	187	43	43	34	26	
Equatorial Guinea	127	29	29	23	17	
Total OPEC	26,683	6,084	6,084	4,880	3,676	
Russia	11,000	2,508	2,508	2,012	1,515	
Kazakhstan	1,709	390	390	313	235	
Mexico	1,753	100	0	0	0	
Oman	883	201 201		161	122	
Azerbaijan	718	164	164	131	99	
Others	1,107	252	252	202	153	
Total Non-OPEC	17,170	3,616	3,516	2,820	2,124	
Total OPEC+	43,853	9,700	9,600	7,700	5,800	





Source: OPEC, IEA







Participant	Agreed Baseline	Agreed Cut	Production Target	May Production	May Compliance	
Saudi Arabia	11,000	2,508	8,492	8,500	100%	
Iraq	4,653	1,061	3,592	4,170	46%	
UAE	3,168	722	2,446	2,500	92%	
Kuwait	2,809	641	2,168	2,200	95%	
Nigeria	1,829	417	1,412	1,520	74%	
Angola	1,528	348	1,180	1,270	74%	
Algeria	1,057	241	816	810	102%	
Congo	325	74	251	250	101%	
Gabon	187	43	144	170	40%	
Equatorial Guinea	127	29	98	90	128%	
Total OPEC	26,683	6,084	20,599	21,480	86%	
Russia	11,000	2,508	8,492	8,563	97%	
Kazakhstan	1,709	390	1,319	1,423	73%	
Mexico	1,753	100	1,653	1,585	168%	
Oman	883	201	682	720	81%	
Azerbaijan	718	164	554	557	98%	
Others	1,107	252	855	919	74%	
Total Non-OPEC	17,170	3,616	13,554	13,767	94%	
Total OPEC+	43,853	9,700	34,153	35,247	89%	

#### **OPEC+ Compliance With Past and Current Supply Agreements**



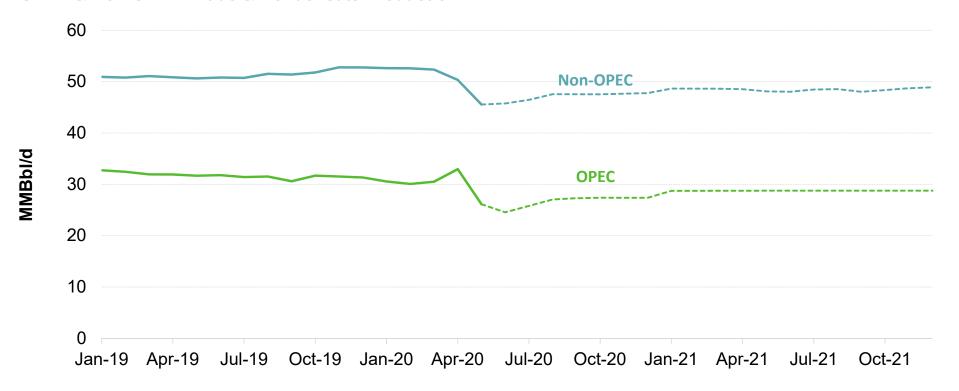






### **Global Crude and Condensate Production**

#### **OPEC & Non-OPEC Crude & Condensate Production**



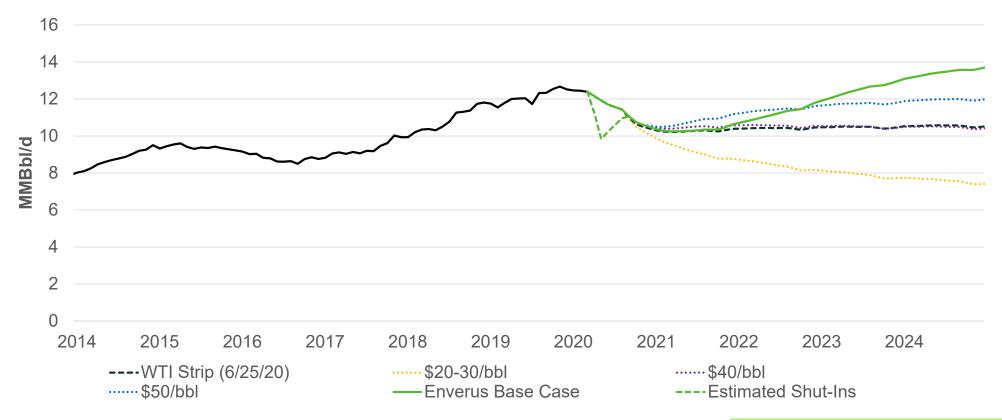
Notes: Assumes full OPEC compliance after September 2020 and a resumption in Libyan production (reaching 1.1 MMBbl/d by January 2021).





### **US Crude and Condensate Production**

#### **US Crude & Condensate Production Under Different Price Scenarios**

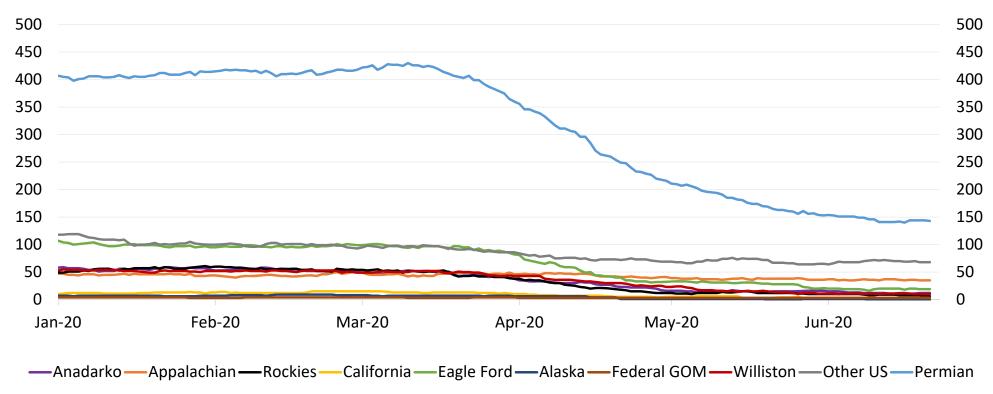




Source: Enverus ProdCast

## **US Rig Count**

#### **Daily Rig Count by Major Supply Area**

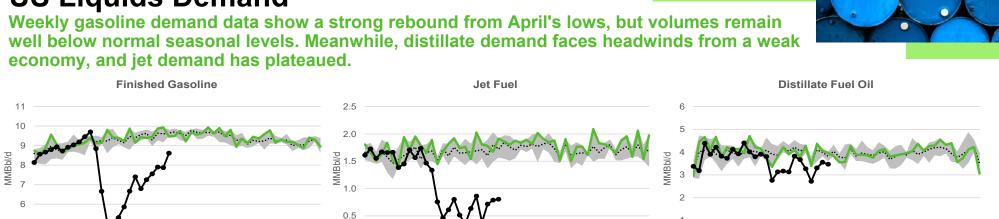


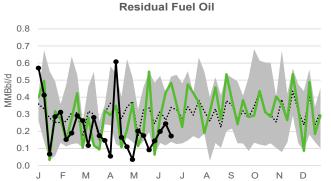


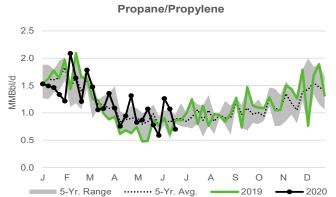
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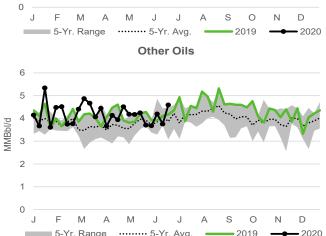
Source: Enverus Rig Analytics

## **US Liquids Demand**







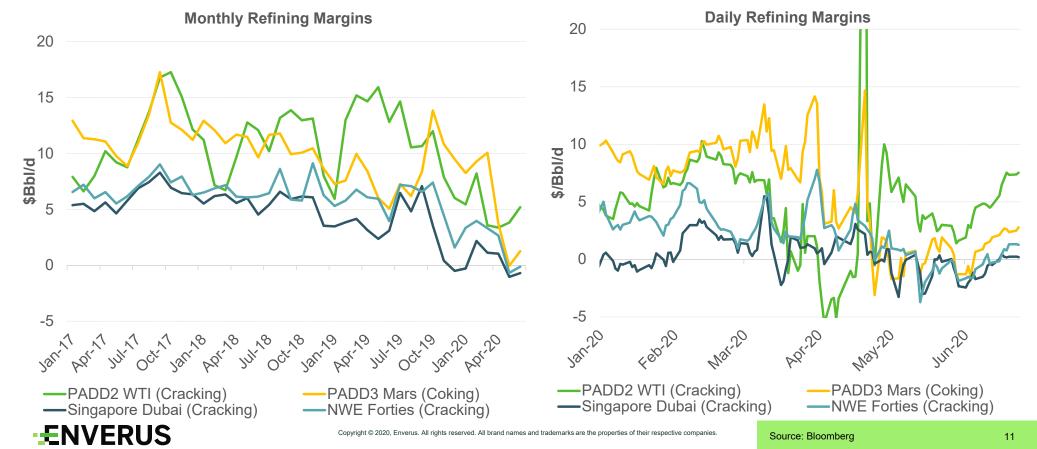




## **Refining Margins**

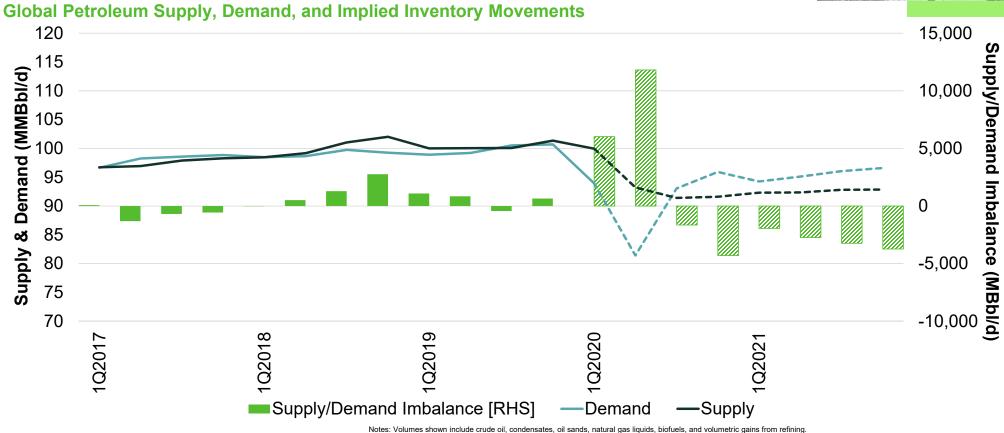
Although refiners in PADD 2 have seen their margins strengthen in May-June, margins in major coastal markets remain tight. This may limit upside potential for crude prices in the immediate future.





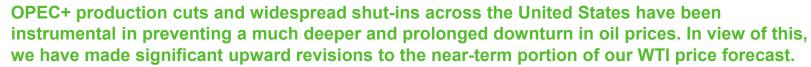


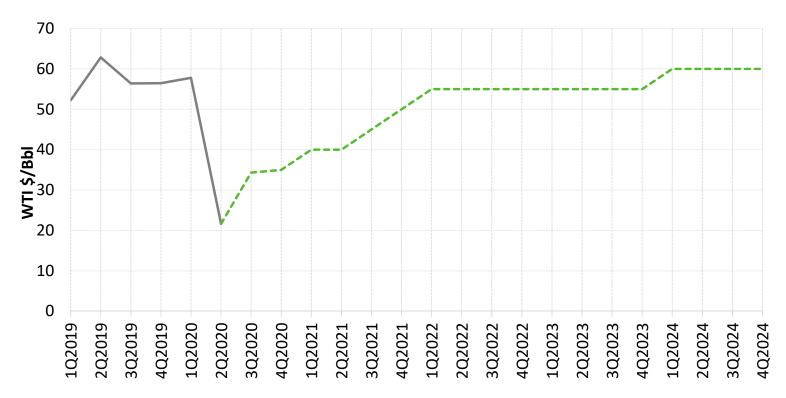




**ENVERUS** 

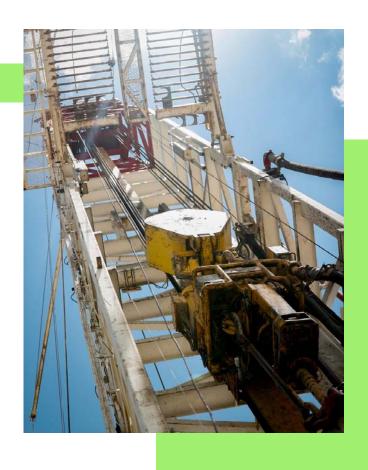








## **Natural Gas**

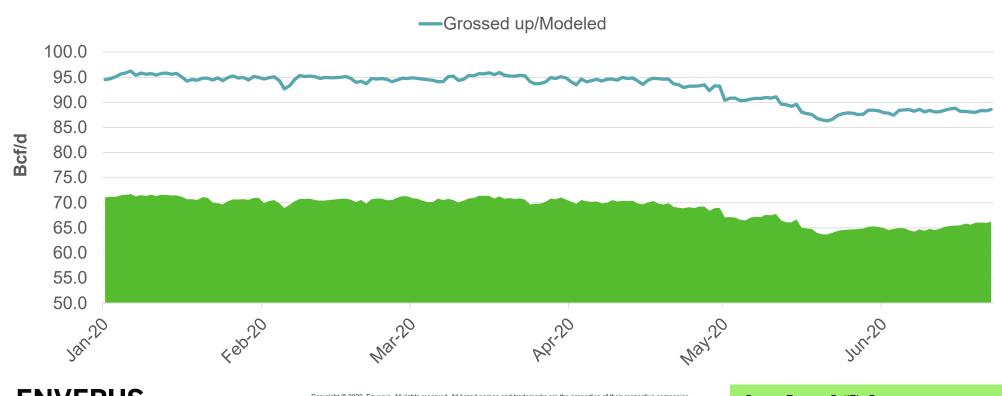






## Dry Gas Production Losses Slow Significantly in June

2020 Daily US Dry Gas Production: Sample vs. Modeled



# Production Gains Are Being Reported in Some Key Plays

**Dry Gas Production in Bcf/d** 



Basin/Play	Sample Size <sup>1</sup>	Jan-20	Feb-20	Mar-20	Apr-20	May-20	Jun-20	June vs May (Bcf/d)	June vs Jan (Bcf/d)
Appalachia (OH,PA,WV)	100%	33.15	32.85	32.85	32.56	31.42	31.51	0.09	(1.64)
Permian	45%	6.11	5.99	6.01	5.77	5.30	5.38	0.07	(0.73)
Haynesville	62%	6.86	6.9	7.06	7.13	7.42	7.07	(0.35)	0.21
Anadarko (OK)	49%	3.66	3.52	3.53	3.44	3.09	3.26	0.17	(0.40)
DJ	89%	2.77	2.80	2.80	2.77	2.48	2.48	0.00	(0.29)
PRB	73%	0.67	0.62	0.65	0.56	0.36	0.41	0.05	(0.26)
Other Rockies	100%	5.51	5.38	5.40	5.43	5.20	5.12	(80.0)	(0.39)
FO Gulf	63%	2.95	2.99	3.03	2.91	2.3	2.18	(0.12)	(0.77)
Williston (ND)	94%	1.89	1.98	2.03	1.88	1.33	1.34	0.01	(0.55)
Other	50%	7.44	7.47	7.3	7.31	6.83	6.36	(0.47)	(1.08)
Total US Sample	74%	71.00	70.50	70.66	69.75	65.73	65.11	(0.62)	(5.90)
Grossed up/Modeled	-	95.13	94.60	94.90	94.03	88.93	88.25	(0.68)	(6.88)

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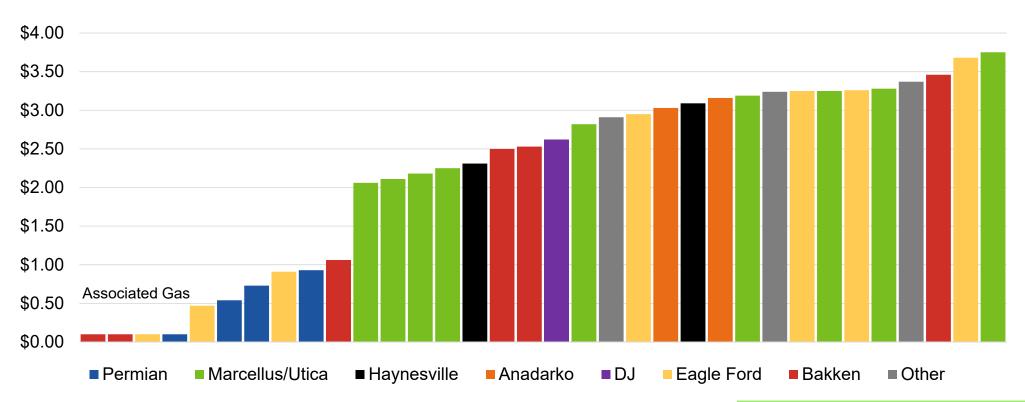
¹ Calculated based on February 2020. Other Rockies include the following basins from ProdCast: Big Horn, GR-O, Paradox, Raton, Uinta. Appalachian = Appalachian, PA North, South and West, Utica and West Virginia.





## Gas Breakevens Under \$4.00/MMBtu

HH Breakeven (\$/MMBtu) @ 20% MARR & \$40.00/MMBtu





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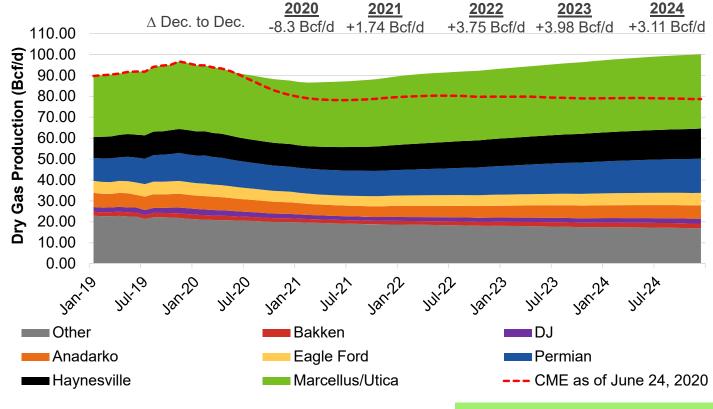
Source: Enverus ProdCast



## **US Dry Gas Production: 5-Year Outlook**

#### **Dry Natural Gas Production**

Year	НН	WTI		
	(\$/MMBtu)	(\$/BbI)		
2021	\$3.90	\$43.75		
2022	\$3.00	\$55.00		
2023	\$3.00	\$55.00		
2024+	\$3.00	\$60.00		



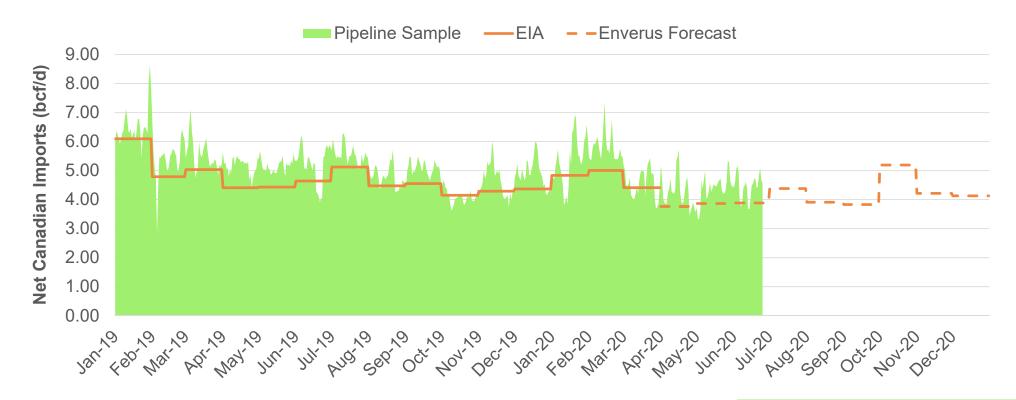


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Source: Enverus ProdCast

## **Supply – Canadian Imports**

#### **US Net Imports From Canada**

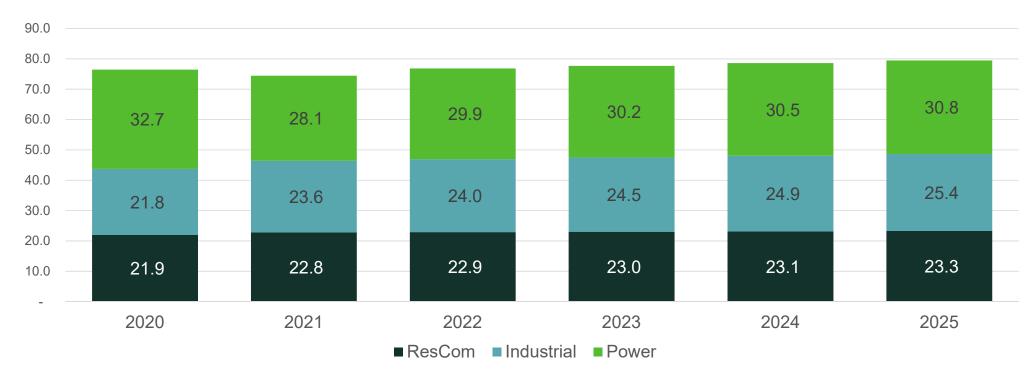






#### **Domestic Natural Gas Demand**

#### **Base Case 5-Year Forecast**

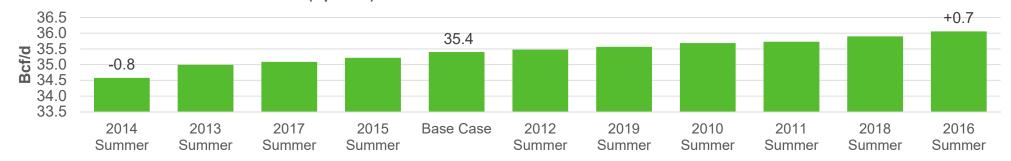






#### **Gas Demand Summer 2020 Scenarios**

#### 2020 Summer (Apr-Oct) Power Demand With Historical Summer Weather Scenarios



#### 2020 Summer (Apr-Oct) Power Demand With Price Scenarios

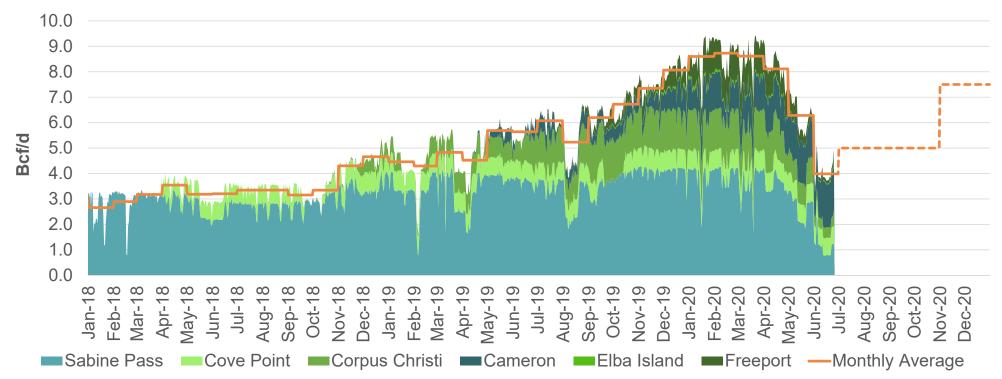






### **LNG Exports Down to Levels Not Seen Since 2018**

#### **LNG Exports**

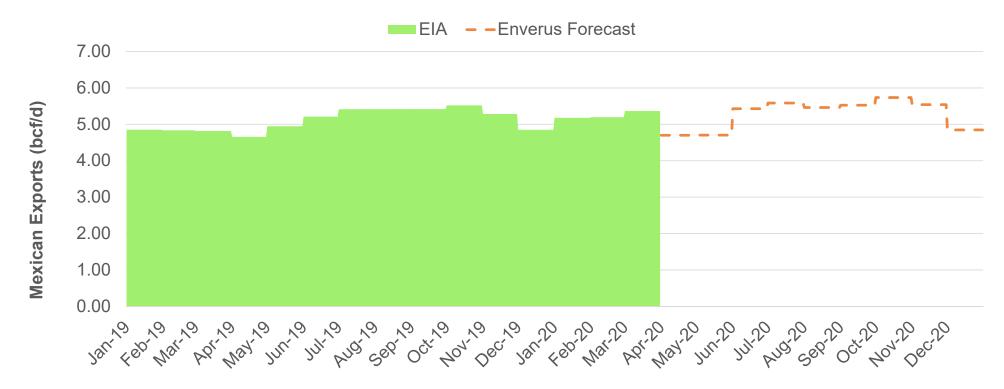






## **Demand – Mexican Exports**

#### **US Exports to Mexico**

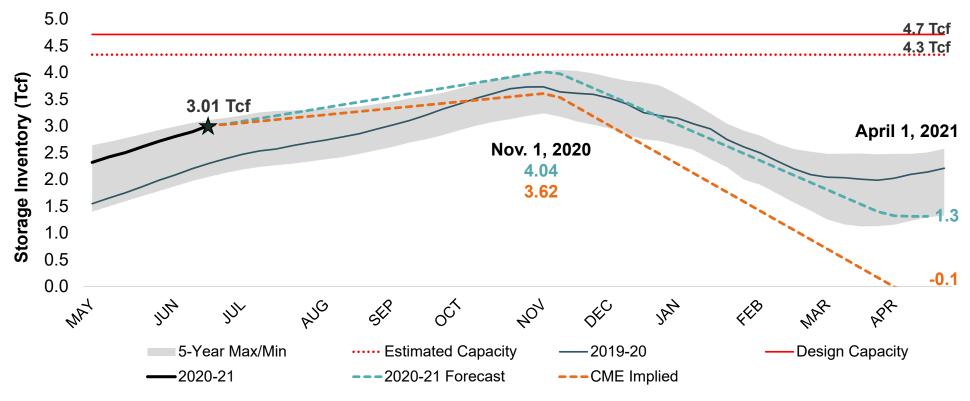






## **Projected Storage Inventory**

#### **End-of-Season Inventory Projections**





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Source: EIA, Enverus analysis



#### **Enverus Natural Gas 5-Year Price Forecast**

#### Henry Hub (\$/MMBtu)



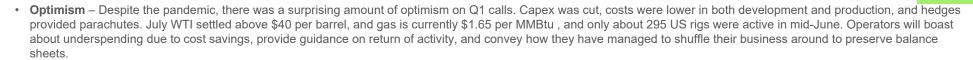
# **Q1 2020 OPERATOR UPDATE**







#### Here is what to look out for in Q2 Earnings

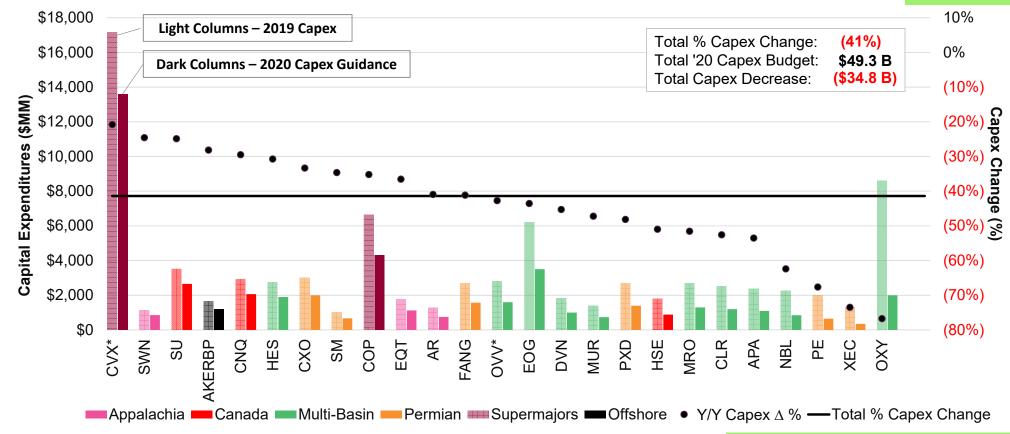


- Curtailments Actual volumes shut-in will be a wild card until disclosed, with mixed results varying from company to company. Higher rate horizontal wells should be returning to production, while vertical wells or lower-rate horizontal production may still be competing with variable costs in addition to the cost to turn production back on. There will be emphasis on economics rather than volumes for the sake of volumes. CLR, PE, and EOG are the only operators with hints as of late June. CLR will shift from 70% to 50% curtailed, PE plans to restore the vast majority of 26 MBoe/d cut, and EOG has stated their intentions to not only turn production back on in the third and fourth quarters but also to start completing DUCs.
- Activity Last quarter, many questions asked of management prodded them about breakevens. What prices do we need to see which activity returns? Several companies like
  Devon or QEP threw out guidance to return in Q4, last quarter. Now that volatility has somewhat subsided, expect more hedges to promote clearer plans of action, but higher
  risk will likely keep activity lower.
- Costs Drilling and completion costs have been reduced in order to generate interest for operators to bring back activity. Operating expenses will be lower due to the shut-in of higher-cost producing wells and G&A will be lower due to decreased headcounts and renegotiations of contracts. The big question will be how much operators will be able to sustain these low costs going forward.
- Liquidity Borrowing bases have been slashed, and credit card capacity for many operators is limited. Look for plans on potential monetization of assets, halting of buybacks or dividends, or refinances to kick debt maturities down the road and to reduce interest expenses.
- Hedges Will operators favor predictability over the upside price scenario? The former rather than the latter will be preferred by operators if liquidity is running dry.
- ESG Expect continued discussions on sustainability and corporate social responsibility as more energy industry investments are trickling into the low-carbon sector.



## Capex Revisions (Large Independents and Majors)

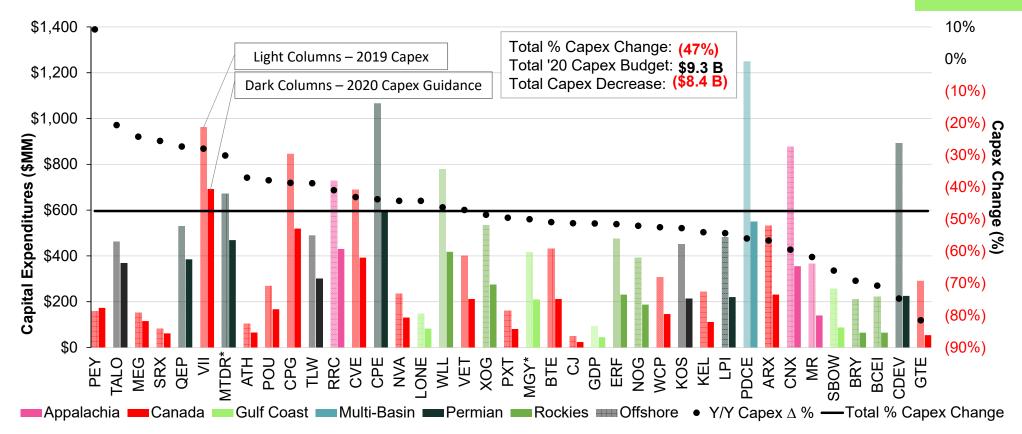
Large-cap operators make up almost \$50B of 2020 capex budgets, which is down \$34.8B from 2019.





## Capex Revisions (Small- to Mid-Cap Operators)

Small-cap operators averaged a 47% reduction from 2019 capex budgets, which are down \$8.4B from 2019

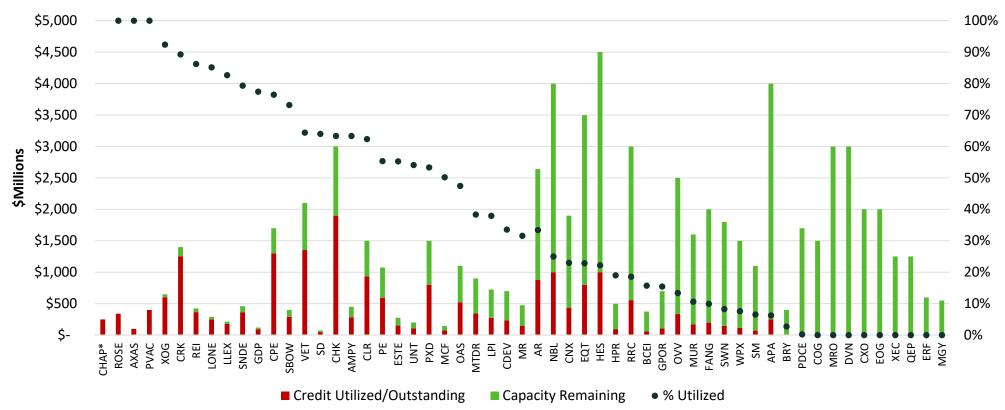






## **Credit Line Capacity**

Of these operators, 42% have borrowed more than half of their credit facility capacity, and less than 10% have not tapped in yet.

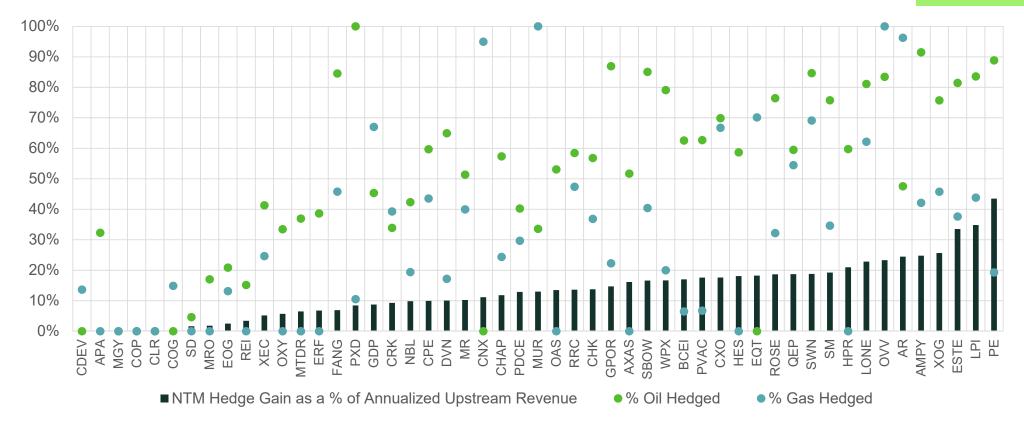


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## **Hedges**

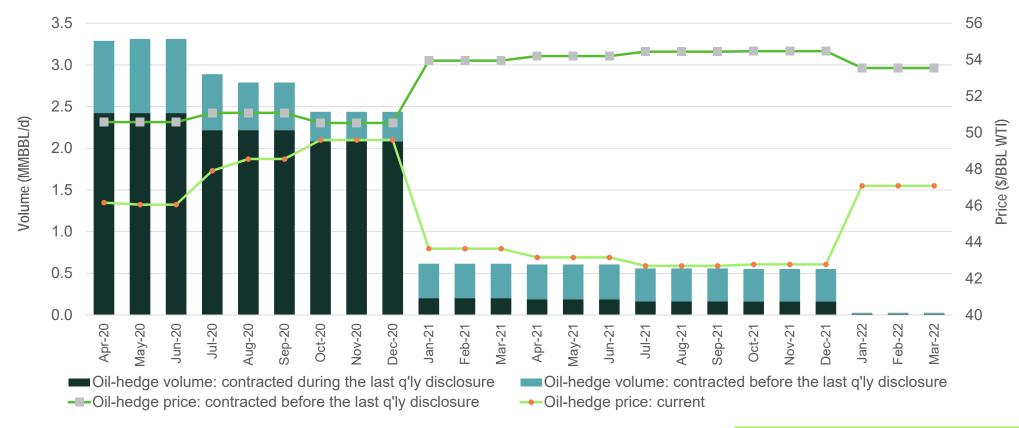
Most operators' hedges will provide a net benefit at the current strip, but adding hedges at low prices could disadvantage some





## Before and After the Crash: Oil Hedge Volumes and Price

The price crash forced this sample of operators to triple their 2020 hedge positions on an aggregate basis





Source: Public Filings. Based on hedges in place as of 3/31/2020 and forward strip in late May. Operator list on prior 32 slide

#### **Key Takeaways**

- **Crude oil** prices staged an impressive recovery in May and June after deep production cuts and a partial recovery in demand for motor fuels. After a painful shock to the system, rebalancing is currently underway.
  - BUT .....The recovery in demand remains tenuous, though, and anemic refining margins and the recent rise in new COVID-19 cases do raise concerns.
  - We nevertheless remain cautiously optimistic that the rebalancing will continue, with much needed inventory draws coming over the second quarter of 2020, extending into 2021.
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  - However, current production levels are not enough to meet the upcoming peak-demand winter months.
     Therefore, Enverus expects prices to increase north of \$3.50/MMBtu as soon as this winter 2020-21 in order to incentivize drilling activity. Based on breakeven prices, production growth will come from the Marcellus/Utica, Haynesville, and Permian.
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