U.S. Petroleum Industry Project Overview

For

Petroleum Marketers Association of America May 18, 2016 / Washington, DC

By Adam Sieminski, Administrator



Transportation fuels market studies – key takeaways

- EIA can now provide detailed regional petroleum product analyses for the West Coast, East Coast, and Gulf Coast markets
- EIA's analyses have been expanded to cover jet fuel and retail markets
- EIA can analyze individual refinery outages by refinery unit
- Regions in PADD 1 and PADD 3 exhibit different supply vulnerabilities (PADDs 2 and 4 coming)
 - Port operations & marine deliveries New England/Florida
 - Pipelines originating in the Gulf Coast Southeast/Tx Inland/N. La/Ark
 - Refinery operations & logistics Tx/La Gulf Coast
 - Central Atlantic- concentrated infrastructure in Philadelphia & NY



Each regional market chapter of the report includes a variety of information

- Supply and demand balances
- Infrastructure logistics
- Demand centers
- Supply vulnerabilities
- Retail markets
- Future anticipated changes



This effort continues an EIA strategy of providing data and analysis on a sub-PADD level

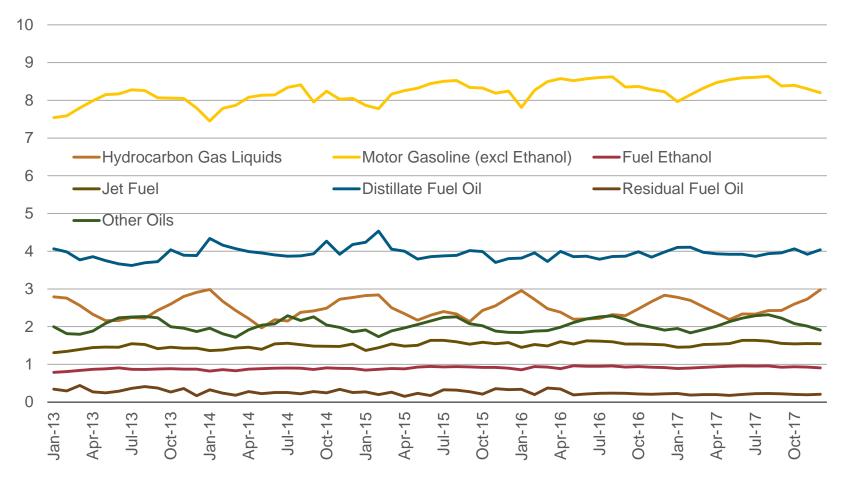
Project	Planned finish				
PADD 5 (West Coast) transportation fuels study	September 2015				
PADD 1 and 3 (East Coast and Gulf Coast) study	February 2016				
PADD 5 (West Coast) crude supply study	May 2016				
PADD 2 and 4 (Midwest and Rocky Mountains) study	4 th quarter 2016				
PRISM petroleum system model	Ongoing				
Improved Refinery Outage Report	1 st & 3 rd quarter reports				



U.S. petroleum and other liquids consumption driven by weather, disposable income, etc.

consumption

million barrels per day

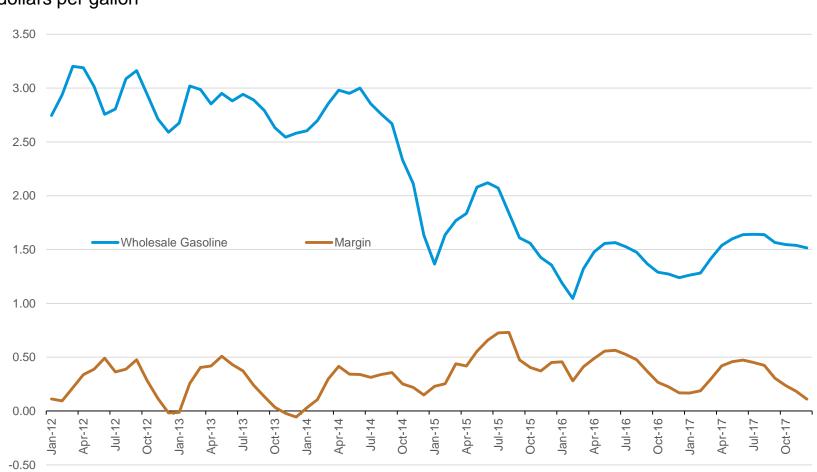


Source: EIA, Short-Term Energy Outlook, May 2016



Adam Sieminski, Petroleum Marketers Association of America May 18, 2016

Wholesale gasoline prices and margins



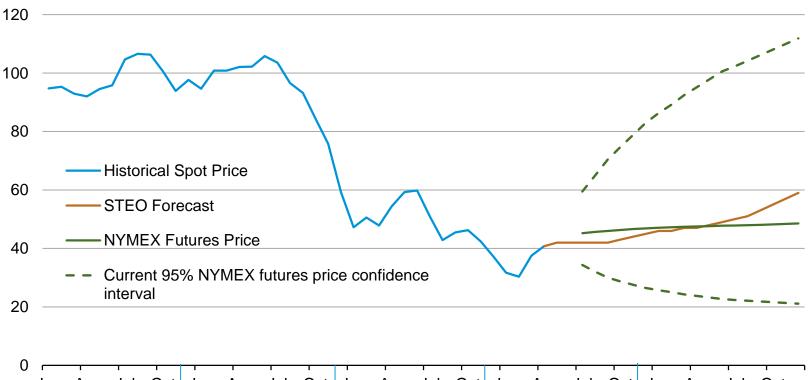
dollars per gallon

Source: EIA, Short-Term Energy Outlook, May 2016



EIA expects WTI oil prices to remain low compared to recent history, but the market-implied confidence band is very wide

WTI price dollars per barrel



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Source: EIA, Short-Term Energy Outlook, May 2016



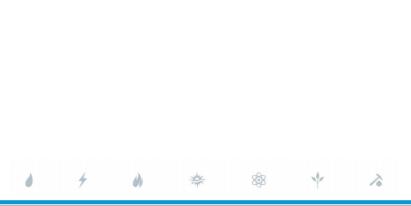
Refinery outages report

eia

Independent Statistics & Analysis U.S. Energy Information Administration

Refinery Outages: First-Half 2016

March 2016



Source: http://www.eia.gov/petroleum/refinery/outage/



- Examines planned U.S. refinery outages and the implications for available refinery production capacity, petroleum product markets, and the supply of gasoline, diesel fuel, and jet fuel
- Considers the supply of petroleum products on regional (both PADD and sub-PADD) levels, rather than at a national level

Energy disruptions map with real-time weather data



Tracks and reports on selected significant storms that impact or could potentially impact energy infrastructure

 Includes past historical events and real-time storm tracking with energy infrastructure maps

Source: <u>http://www.eia.gov/special/disruptions/</u>



Refining capacity report

ei	Independent Statistics & Analysis U.S. Energy Information Administration Sources & Uses	- Topics -	Tools ~ Learn About Energy ~ News Geography * Search eia.gov A.Z. index					
PE	TROLEUM & OTHER LIQUII	DS						
OVER	MEW DATA * ANALYSIS & PROJECTIONS *		GLOSSARY > FAQS >					
Ref	all petroleums other liquids reports finery Capacity Report	Previous Issues Year: 2015						
With D	ata as of January 1, 2015 Release Date: June 19, 2015 Next Release Date:	June 24, 2016						
receip distilla operat shut d the Vir The R now b Refine	eries include fuel, electricity, and steam purchased for consumption at the re ts of crude oil by method of transportation; and current and projected atmosp tion, downstream charge, and production capacities. Respondents are oper ting and lide petroleum refineries (including new refineries under construction own during the provious year, located in the 50 States, the District of Columb gin Islands, Guam, and other U.S. possessions. effnery Capacity Report does not contain working and shell storage capacity eing collected twice a year as of March 31 and September 30 on the Form E yr Report", and is now released as a separate report Working and Net Availi ge Capacity.	heric crude oil ators of all n) and refineries ia, Puerto Rico, data. This data is IA-810, "Monthly	Related Links • Genealogy Of Major U.S. Refiners A schematic showing mergers and acquisitions of major U.S. refiners. • Working Storage Capacity at Operable Refineries Historical Data 1982 - 2010 • Shell Storage Capacity at Operable Refineries Historical Data 1982 - 2010					
∎)×	LS Refinery Capacity Data by individual refinery as of January 1, 2015		0					
Sou	rce Energy Information Administration (EIA), Form EIA-820, "Annual Refin	ery Report".	Q: When was the last refinery built in the United States? >					
Tabl	es	🔁 Full Report	Read all crude oil FAQs >					
1	Number and Capacity of Operable Petroleum Refineries by PAD District and State as of January 1, 2015	🔁 PDF						
2	Production Capacity of Operable Petroleum Refineries by PAD District and State as of January 1, 2015	DF						
3	Capacity of Operable Petroleum Refineries by State and Individual Refinery as of January 1, 2015	DF	Note: The EIA-820 refinery capacity survey was not conducted for January 1, 1996 or January 1, 1998,					
4	Production Capacity of Operable Petroleum Refineries by State and Individual Refinery as of January 1, 2015	DF	The Refinery Capacity Report became a separate					
5	Refiners' Total Operable Atmospheric Crude Oil Distillation Capacity by Individual Refinery as of January 1, 2015	product in 2006, which includes tables in PDF format and an individual refinery XLS file.						
6	Operable Crude Oil and Downstream Charge Capacity of Petroleum Refineries, DPDF Individual refinery XLS files from 1944 January 1, 1966 to January 1, 2015							
7	Operable Production Capacity of Petroleum Refineries, January 1, 1986 to DPF available from the drop down menu above.							
8	Capacity and Fresh Feed Input to Selected Downstream Units at U.S. Refineries, 2013 - 2015	DF	available on the Petroleum Supply Annual, Volume 1 Historical page.					
9	Refinery Receipts of Crude Oil by Method of Transportation by PAD District,	🔁 PDF						

- Includes fuel, electricity, and steam purchased for consumption at the refinery; refinery receipts of crude oil by method of transportation; and current and projected atmospheric crude oil distillation, downstream charge, and production capacities
- Accounts for operators of all operating and idle petroleum refineries (including new refineries under construction) and refineries shut down during the previous year, located in the 50 States, the District of Columbia, Puerto Rico, the Virgin Islands, Guam, and other U.S. possessions

Source: <u>http://www.eia.gov/petroleum/refinerycapacity/</u>



Adam Sieminski, Petroleum Marketers Association of America May 18, 2016

For more information

U.S. Energy Information Administration home page | <u>www.eia.gov</u>

Short-Term Energy Outlook | www.eia.gov/steo

Annual Energy Outlook | <u>www.eia.gov/aeo</u>

International Energy Outlook | www.eia.gov/ieo

Monthly Energy Review | <u>www.eia.gov/mer</u>

Today in Energy | www.eia.gov/todayinenergy

