Zeroing in on
New Opportunities

2022 State of the Ethanol Industry

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“The world of great opportunity is available now, as it has always been, only for those with great vision.”

—Andrew Carnegie
U.S. Ethanol Production, 1981-2021

- **Ethanol Production**: 15.0 Billion Gallons
- **Animal Feed Output**: 35 Million Metric Tons
- **Distillers Oil Output**: 3.8 Billion Pounds
- **Ethanol Inclusion Rate**: 10.4%
- **Ethanol Exports**: 1.24 Billion Gallons
Ethanol’s Economic Impact in 2021

- Generated $52 Billion in Gross Domestic Product (GDP)
- Supported 73,000 Direct Jobs
- Supported 334,000 Indirect and Induced Jobs
- Boosted Household Income by $28.7 Billion
- Contributed $10.4 Billion in Tax Revenue
After Careful Consideration, EPA Supports Tenth Circuit’s Renewable Fuels Association Decision

February 22, 2021

Contact Information
EPA Press Office (epa.gov)

WASHINGTON (February 22, 2021) -- EPA is today announcing that, after careful consideration of the 2020 decision of the U.S. Court of Appeals for the Tenth Circuit in Renewable Fuels Association et al. v. EPA, 948 F.3d 1206 ("Decision"), EPA supports that court’s interpretation of the renewable fuel standard (RFS) small-refinery provisions. This conclusion, prompted by a detailed review following the Supreme Court’s grant of certiorari in the case, represents a change from EPA’s position before the Tenth Circuit. The change reflects the Agency’s considered assessment that the Tenth Circuit’s reasoning better reflects the statutory text and structure, as well as Congress’s intent in establishing the RFS program.
Daily Crude Oil Spot Price (WTI - Cushing FOB)

Feb. 14, 2022: $95.52
Jan. 4, 2021: $47.47

Source: U.S. EIA
“I’m going to work like the devil to bring gas prices down.”

—President Joe Biden, Feb. 10, 2022

- Calling on OPEC to increase crude oil output
- Probing anti-consumer behavior by oil companies
- Releasing crude oil from SPR
- Suspending Federal gas tax?
- Allow year-round E15 in existing equipment
FUEL PRICES

Regular: $3.75
Mid Grade: $4.05
Premium: $4.35
Auto Diesel: $4.25
E85: $3.10

Fuel prices current as of 02/17/2022 1:30 PM.

STORE FEATURES

Beer And Wine

Open 24/7

UNLEADED

E-15

UNLEADED

DIESEL

2.94
3.09
3.29

2.845
2.649

Contains up to 10% Ethanol
Contains up to 15% Ethanol

Price per gallon, all taxes included

RFA
U.S. Transportation Fuels Use and GHG Emissions

Annual GHG Emissions (Million MT)
- Light Duty: 1,088 MT
- Heavy Duty: 450 MT
- Marine: 38 MT
- Aviation: 188 MT
- Rail: 35 MT
- Other: 94 MT

Annual Fuel Consumption (Billion Gals.)
- Light Duty: 140 Billion Gals.
- Heavy Duty: 55 Billion Gals.
- Marine: 5 Billion Gals.
- Aviation: 27 Billion Gals.
- Rail: 4 Billion Gals.
- Other: 8 Billion Gals.

Source: U.S. EPA (2019 emissions)
Ethanol’s Low Carbon Credentials

- Argonne National Laboratory: 44-52% GHG reduction
- Harvard, MIT, Tufts (EH&E): 46% GHG reduction
- California Air Resources Board: 41% GHG reduction
- Oregon Dept. of Environ. Quality: 45% GHG reduction
- Life Cycle Assoc.: 980 MMT GHG reduction since 2008
U.S. Transportation Fuels Use and GHG Emissions

Share of Annual Transportation GHG Emissions

- 57%
- 24%
- 2.5%
- 10%
- 2%
- 4.5%

Annual Fuel Consumption (Billion Gals.)

- Light Duty: 140
- Medium & Heavy Duty: 55
- Marine: 5
- Aviation: 27
- Rail: 4
- Other: 8

Source: U.S. EPA (2019 emissions)