2020 State of the Ethanol Industry

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2020 National Ethanol Conference
Houston, Texas
U.S. Ethanol Production

Source: Energy Information Administration (2019 estimate based on Jan.-Nov.)
Small Refinery Exemptions

Small Refiner Exemption Petition Decisions

Decided by Obama Administration

Decided by Trump Administration

Source: U.S. Environmental Protection Agency
Ethanol Exports and Imports

U.S. Ethanol Exports to Brazil, Canada, China, and Rest of World

- Rest of World
- Canada
- Brazil
- China

Million Gallons


U.S. Ethanol Imports

Million Gallons

Source: U.S. Census Bureau, U.S. Department of Commerce, U.S. Department of Agriculture
2019 Economic Impacts

- 68,684 direct jobs
- 280,327 indirect and induced jobs
- $43 billion contribution to gross domestic product (GDP)
- $23 billion in household income
- $8 billion in tax revenues
- Displaced 559 million barrels of imported crude oil, keeping more than $30 billion in U.S. economy
Record E15 Sales

Nationwide E15 sales were approximately 500 million gallons in 2019.
Seven Days in December

- “Phase One” trade deal reached with China
- EPA publishes final 2020 RVO with (some) SRE reallocation
- EPA withdraws problematic RFS “reset” proposal
- EPA announces it will revisit 500 MG remand volume
- USDA commits to biofuel infrastructure program and EPA promises to streamline E15 regulatory burdens
- House passes USMCA
- President signs spending bill with biofuel tax extenders
“The only thing worse than being blind is having sight but no vision.”

—Helen Keller
The “Three Es”

- Energy Security
- Economic Development
- Environmental Benefits

The “Three Cs”

- Clean Octane
- Carbon Reduction
- Choice & Competition
Ethanol’s Octane Advantage

Blending Octane Number (AKI) of Various Gasoline Octane Sources

- Octane Number (AKI) of Various Gasoline Octane Sources:
  - Gasoline Blendstock: 84
  - n-Butane: 93
  - Alkylate: 94
  - Reformate: 95
  - Benzene: 101
  - Toluene: 104
  - Xylene: 107
  - MTBE: 110
  - Ethanol: 114 (Not approved by automakers)
  - Methanol: 117

Sources: RFA; DOE; Chevron; MathPro, Inc.
Ethanol Carbon Intensity in California

Carbon Intensity of Gasoline and Ethanol Under California LCFS

- Ethanol
- Gasoline

- 41%
- 8%

Carbon Intensity (g CO2e/MJ)

“While the law of competition may be sometimes hard for the individual, it is best for the race...”

—Andrew Carnegie
Low Carbon Octane Standard

- Nationwide minimum octane requirement (preferably 98 RON)
- Source of octane boost must reduce GHG emissions
- RVP regulatory parity for all ethanol blends
- Streamlining EPA’s fuel certification process
- Substantially revising EPA emissions models (e.g., MOVES)
- Retail infrastructure compatibility with higher blends
- CAFE/GHG credits for FFVs and HOLC optimized vehicles