

Bioenergy Markets and Policies

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Topics

- Biofuels
- Biochemicals
- Markets and trends

Biofuels

- Policy is defining the market and global commodity flows are in the spotlight:
 - RFS and Set 2.0
 - 45Z and OB3 changes
 - Trade and tariff policy (China, Brazil)
 - Bumper corn and soybean harvests
 - At the state level:
 - Tax incentive programs
 - Low Carbon Fuel Standards (LCFS programs) have been market transformative

LCFS Status Update

- **Implementation Date:**

- California (2011)
- Oregon (2016)
- Washington State (2023)
- New Mexico (in program design)

- **Legislation Pending:**

- New York
- New Jersey
- Massachusetts
- Pennsylvania
- Illinois
- Michigan
- Hawaii

Biochemicals

- Limited policy intervention in the biochemicals markets
- Market driver is primarily voluntary led by sustainability goals or consumer demand
- USDA 9003 Biorefinery, Renewable Chemical, and Biobased Product Manufacturing Assistance Program – many companies have evaluated it and are appreciative of the program design and flexibility
- DOE Loan Program Office – new Energy Dominance Financing Authority
- Trade and tariff policy is meaningful
- Manufacturing policy can matter – but lack of proactive incentives

Markets and Trends

- Mature Biofuels Markets and Technologies:
 - Ethanol
 - Biodiesel
 - Renewable diesel
 - RNG
- Developing Biofuels Markets:
 - SAF
 - Marine fuels (renewable/bio/low-carbon methanol, LNG, ammonia)
 - Liquid gases (renewable/bio/low-carbon propane, dimethyl ether)
- Developing Feedstocks
 - Waste streams
 - Woody biomass
- Developing Technologies
 - Fermentation
 - E-Fuels

Policy Takeaways

- Core Principles That Work
 - Technology neutrality
 - Feedstock neutrality
- Avoid Prescriptive Approaches
 - Set your performance goal
 - Leave everything else flexible