## 2021 Biodiesel Sustainability Series -- California

## Report



On Friday, June 11, the National Biodiesel Foundation (NBF) hosted its second virtual event in the Congressional Biodiesel Sustainability Series. This session focused on California and the benefits of biodiesel and renewable diesel to carbon reductions, air quality and environmental justice. The program offered Congressional staff and government officials insight on California's reliance on biodiesel and renewable diesel to meet its low-carbon fuel goals. California is the top market for biodiesel and renewable diesel, which generate about 45% of the state's carbon credits each year. Hosted by NBF's Executive Director Tom Verry, speakers included Rebecca Baskins, Executive Director California Advanced Biofuels Alliance (CABA), Floyd Vergara, NBB Director of State Governmental Affairs, and Harry Simpson, President/ CEO Crimson Renewable Energy and SeQuential.

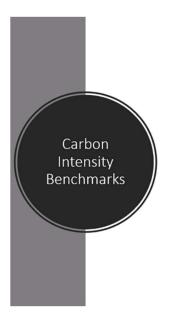
Prior to the official start of the event, videos played to provide background on biodiesel:

- NBF video from 2020 Biodiesel Conference: <a href="https://www.youtube.com/watch?v=ylfdeOdjARc&f">https://www.youtube.com/watch?v=ylfdeOdjARc&f</a> eature=youtu.be (2:23 min)
- Biodiesel for Influencers: https://www.youtube.com/watch?v=C3yOcqTaVEM
- Eye on California Biodiesel: https://www.youtube.com/watch?v=CVUGmKcKP94

A summary of presentations is below:

Tom Verry, Executive Director, NBF opened the meeting with introductions and a welcome.

Leading off the presentations was **Rebecca Baskins, Executive Director CABA** discussing the Low-Carbon Fuel Standard (LCFS). LCFS was designed to encourage the production and use of cleaner low-carbon transportation fuels in California, and therefore, reduce GHG emissions and decrease petroleum dependence in the transportation sector. The LCFS standards are expressed in terms of the "carbon intensity" (CI) of gasoline and diesel fuel and their respective substitutes. The program is based on the principle that each fuel has "life cycle" greenhouse gas emissions that include CO<sub>2</sub>, CH<sub>4</sub>, N<sub>2</sub>O, and other GHG contributors. The life cycle assessment includes direct emissions associated with producing, transporting and using the fuels, as well as significant indirect effects on GHG emissions, such as changes in land use for some biofuels. The carbon intensity scores assessed for each fuel are compared to a declining CI benchmark for each year. Providers of transportation fuels must demonstrate that the mix of fuels they supply for use in California meets the LCFS carbon intensity standards, or benchmarks, for each annual compliance period. California's goal is to reduce transportation emissions by 20% in 2030.



#### Carbon Intensity Benchmarks for Gasoline and Diesel Fuel and their Substitutes

Year	Gasoline Average CI (gCO <sub>2</sub> e/MJ)	Diesel Average CI (gCO <sub>2</sub> e/MJ)
2019	93.23	94.17
2020	91.98	92.92
2021	90.74	91.66
2022	89.50	90.41
2023	88.25	89.15
2024	87.01	87.89
2025	85.77	86.64
2026	84.52	85.38
2027	83.28	84.13
2028	82.04	82.87
2029	80.80	81.62
2030 onwards	79.55	80.36

Floyd Vergara, NBB Director of State Governmental Affairs discussed the Trinity Study: Quantifying How Biodiesel Supports Healthier Communities and the health benefits of switching to biodiesel, including reductions in asthma incidents, cancer, and mortality rates. Floyd explained the study's significance for Environmental Justice communities and why achieving clean air benefits today is vital. The biodiesel industry has the ability to make an immediate positive impact on public health through a switch to using B100. Communities that are disproportionately affected by diesel pollution need to act now; they cannot wait for electric vehicles. Fueling with B100 achieves GHG benefits and reduces pollutants in heavy-duty transportation and residential heating -- today. The summary slide for the research stated:

Researchers found that switching to 100% biodiesel in the home heating oil and transportation sectors would annually:

- Prevent 340 premature deaths
- Result in 46,000 fewer sick days
- Avoid \$3.0 billion in health costs

In transportation sectors, benefits include a potential 45% reduction in cancer risk when heavy-duty trucks such as semis use B100 and 203,000 fewer or lessened asthma attacks each year

When Bioheat® fuel made from 100% biodiesel is used, the study found an 86% reduced cancer risk and 17,000 fewer lung problems each year

These results for only 13 sites evaluated are the tip of the iceberg

Biodiesel is a drop in fuel = benefits accrue immediately upon use

The trinity study found the following substantial public health effects:

# SUBSTANTIAL PUBLIC HEALTH BENEFITS

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  - o Prevent 340 premature deaths
  - Result in 46,000 fewer sick days
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- In transportation sectors, benefits include a potential 45% reduction in cancer risk when heavy-duty trucks such as semis use B100 and 203,000 fewer or lessened asthma attacks each year
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- These results for only 13 sites evaluated are the tip of the iceberg



Harry Simpson, President/CEO Crimson Renewable Energy and SeQuential discussed the importance of stable federal and state policies necessary to continue the development and growth for clean fuels market. California has been the trailblazer for regulating carbon. As other states follow its lead, more states will adopt or model policies to be like California's LCFS. Businesses need Federal programs like biodiesel tax credits & incentives for the LCFS to succeed. To plan and increase fuel production, the industry, like all industries, need predictable and long-term policies.





In summary, Paul Winters, Director of Public Affairs and Federal Communications with NBB facilitated a closing question-and-answer session between congressional staff and speakers. Paul shared the dates for the in -person lowa Renewable Fuels Tour scheduled for August 16-19, 2021.

### IOWA BIODIESEL TOUR - UP CLOSE AND HANDS ON EXPERIENCE

- Dates: August 16-19, 2021
- Organized by the Iowa Renewable Fuels Association
- Engage in the biofuels journey with visits to a biodiesel plant, family farm, blending facilities, retailers and more..
- Contact Monte Shaw if you would like to attend (mshaw@iowarfa.org)





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