

AN MTI KNOWLEDGE ROUNDTABLE

RENEWABLE HYDROCARBON BIOFUELS

Processing, Materials and Corrosion Challenges
for an Unfamiliar Feedstock

June 21, 2022
Kansas City, Missouri

In conjunction with MTI AmeriTAC 138





RENEWABLE HYDROCARBON BIOFUELS

Renewable Hydrocarbon Biofuels, such as renewable diesel, sustainable aviation fuel and renewable gasoline, are some of the fastest-growing “new” additions to the suite of energy sources. Suppliers, fabricators, and engineers will be tasked to select materials, predict damage mechanisms, and establish mechanical integrity programs for renewables units as companies build equipment and start processing renewable feeds. This Knowledge Roundtable addresses the motivation for the recent push into renewables. It provides an overview of the major processes used in conversion of renewable feeds to products, including hydrotreating and pretreatment processes. Finally, it gives attendees an understanding of applicable damage mechanisms and the role of corrosion control documents and integrity operating windows for renewables units. The roundtable will share information we currently have about the challenges in renewables units and will identify areas for MTI projects to help fill the knowledge gaps.



PROGRAM OUTLINE

- Renewable Hydrocarbon Biofuels – Overview, Laws/Regulations, and U.S. Government Perspective
- Renewable Diesel in Europe – Regulatory Considerations, Market Development and Outlook
- Hydrotreating Bio-Oils – Renewable Diesel Unit Process, Catalyst, and Layout Considerations
- Pretreatment of Renewable Feedstocks – Objectives, Types of Pretreatment Units and Downstream Implications
- Damage Mechanisms in Pretreatment Biofuels Processing Units
- Leveraging Integrity Operating Windows (IOWs) to Enhance Renewable Diesel Unit Reliability and Profitability
- Transportation, Storage and Handling of Renewable Feeds

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