ExxonMobil Introduces EMRD™, a Renewable Diesel Process Technology to Enable High Yields from Bio-Feedstocks

Houston (September 1, 2021) – ExxonMobil Catalysts and Licensing LLC ("ExxonMobil") has introduced ExxonMobil Renewable Diesel process technology ("EMRD") to help meet the evolving needs for mobility, while utilizing renewable feedstock. This new process technology converts feedstocks including, but not limited to, vegetable oils, unconverted cooking oil and animal fats, into renewable diesel.

- Meets advanced cold-flow specifications, while enabling high yields through use of the BIDW™ dewaxing catalyst technology
- Offers superior performance through a two-stage process versus a one-stage process

The EMRD process is a two-stage process in which hydrotreating and dewaxing are controlled separately. Compared to a single-stage process, this approach provides higher diesel yields and superior control. Additionally, the EMRD process provides the potential to produce jet fuel as a secondary product with added fractionation.

The EMRD process is an integrated solution that leverages ExxonMobil's Bio-Isomerization Dewaxing (BIDW™) catalyst. This provides refiners and biofuel producers with powerful dewaxing in both winter and summer modes. Improved yields were demonstrated during testing of BIDW catalyst versus other internally formulated zeolite-based alternatives.

"Choosing the right process technology is critical to producing both renewable diesel and jet fuel from bio-feedstocks. The EMRD process provides an advanced solution that enables high yields while meeting stringent seasonal product specifications," said James Ritchie, president of ExxonMobil Catalysts and Licensing LLC.

Due to significant interest in producing renewable jet fuel as a primary product, ExxonMobil is also developing advanced catalyst and process technology solutions that will offer EMRD process licensees flexibility to tailor the amount of jet fuel versus diesel produced.

About ExxonMobil Catalysts and Licensing LLC

ExxonMobil's cutting-edge proprietary catalysts, gas treating solvents and advantaged process technologies help refineries, petrochemical manufacturers and gas processors increase capacity, lower costs, improve margins, reduce emissions and operate safe, reliable and efficient facilities. Ready for better results across your refining, gas and chemical needs?

About ExxonMobil Chemical

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over others; the outcome of commercial negotiations; and other factors discussed under Item 1A Risk Factors in ExxonMobil's most recent annual report on Form 10-K and set forth under the heading "Factors Affecting Future Results" on the Investors page of our website at exxonmobil.com.

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