



PORSCHE

Joint Press Release

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Press Release of ExxonMobil and Porsche

ExxonMobil and Porsche Test Lower-Carbon Fuel in Race Conditions

- Esso Renewable Racing Fuel to be tested in Porsche's high-performance motorsports engines in the Porsche Mobil 1 Supercup 2021 and 2022
- Companies to advance eFuel development with potential for greenhouse gas reduction
- eFuels to be produced using hydrogen and captured carbon dioxide
- New agreement builds on 25-year relationship of developing and testing high-performance products

Irving, Texas/Stuttgart. ExxonMobil and Porsche are testing advanced biofuels and renewable, lower-carbon eFuels, as part of a new agreement to find pathways toward potential future consumer adoption. The first iteration of Esso Renewable Racing Fuel is a blend of primarily advanced biofuels and is specially formulated by ExxonMobil's in-house team of scientists and engineers. Analysis indicates the potential to significantly reduce greenhouse gas emissions with a liquid fuel. The fuel will be tested in race conditions with Porsche's high-performance motorsports engines during the 2021 and 2022 Porsche Mobil 1 Supercup race series.

Porsche and ExxonMobil's collaboration will also focus on eFuels, which are synthetic fuels made from hydrogen and captured carbon dioxide. As early as 2022, the companies plan to test the second iteration of Esso Renewable Racing Fuel, which will con-

tain eFuel components. The eFuel is anticipated to achieve a greenhouse gas emissions reduction of up to 85 percent, when blended to current market fuel standards for today's passenger vehicles.ⁱ

“The electrification of our vehicles is of highest priority to us,” says Michael Steiner, Member of the Executive Board, Research and Development of Porsche. “eFuels are a good complement to our powertrain strategy. They allow our customers to drive cars with conventional combustion engines as well as plug-in hybrids with significantly lower greenhouse gas emissions. The collaboration with ExxonMobil enables us to test the eFuels under demanding conditions on the racing track. This is a further step towards making eFuels an affordable and lower greenhouse gas emission substitute to conventional fuels.”

The eFuel will be sourced from the [Haru Oni pilot plant](#) based in Chile that generates hydrogen, which is then combined with captured carbon dioxide drawn from the atmosphere to produce methanol. ExxonMobil is providing a license and support for the proprietary technology to convert the methanol to gasoline, which will result in a lower-carbon fuel. In the pilot phase, around 130,000 liters of eFuels will be produced in 2022. As the fuel's primary user, Porsche will use the eFuels from Chile among others in the Porsche Mobil 1 Supercup starting in the season of 2022.

“Over the past quarter century, we have worked together with Porsche to develop high-performance products that support Porsche's vehicle performance on the racetrack and on the road,” said Andy Madden, vice president of strategy and planning for ExxonMobil Fuels & Lubricants. “Our continued collaboration on renewable and eFuels is a critical step in assessing the technical capability and commercial viability of fuels that can significantly reduce emissions.”

The first on-track testing of Esso Renewable Racing Fuel is scheduled for March 30, 2021 in Zandvoort, Netherlands, and will continue throughout the 2021 and 2022 Porsche Mobil 1 Supercup race series. The collaboration with Porsche builds on

ExxonMobil's continuing efforts to develop and deploy lower-emission energy solutions, including high-efficiency fuels and lubricants, advanced plastics and other products that can enable cars and trucks to use less fuel. For example, the two companies have collaborated on a line of specially formulated lubricants for the electric vehicles market, [Mobil EV™range](#).

In January, ExxonMobil announced the creation of a new business, [ExxonMobil Low Carbon Solutions](#), to commercialize its extensive low-carbon technology portfolio and plans to invest \$3 billion on lower emission energy solutions through 2025. Last year, ExxonMobil announced plans to [distribute renewable diesel](#) within California and potentially other domestic and international markets as soon as 2022.

Over the past two decades, ExxonMobil has invested more than \$10 billion to research, develop and deploy lower-emission energy solutions, resulting in highly efficient operations that have eliminated or avoided approximately 480 million tonnes of CO₂ emissions - the equivalent of taking more than 100 million passenger vehicles off the road for a year.ⁱⁱ

Porsche is committed to invest 15 billion euros in electromobility and digitalization by 2025. In 2030 the sports car manufacturer will offer more than 80 percent of its vehicles with electric engines. The company seeks carbon neutrality in its products and operations by 2030, investing around 1 billion euros in sustainable mobility.

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ExxonMobil, one of the largest publicly traded international energy companies, uses technology and innovation to help meet the world's growing energy needs. ExxonMobil holds an industry-leading inventory of resources, is one of the largest refiners and marketers of petroleum products, and its chemical company is one of the largest in the world. To learn more, visit exxonmobil.com and the [Energy Factor](#).

Dr. Ing. h.c. F. Porsche AG, with headquarters in Stuttgart-Zuffenhausen, is one of the most profitable car makers in the world. In 2020, Porsche delivered 272,000 vehicles of the 911, 718 Boxster, 718 Cayman, Cayenne, Macan, Panamera and Taycan models to customers worldwide. That was three per cent less than the year before. Thereby, the sports car manufacturer's operating profit before special items amounted to 4.2 billion euros. Porsche operates plants in Stuttgart and Leipzig as well as a development centre in Weissach. The sports car manufacturer employs 36,000 people. Porsche is committed to innovation, many of the technologies have their origins in motorsport. Porsche is aware of every aspect of its corporate responsibility: economic, environmental and social.

To learn more, visit <https://newsroom.porsche.com/en.html>.

Cautionary Statement

Statements of future events, plans or product offerings in this release are forward-looking statements. Actual future results, including product offerings, timing, production capacity, and the impact and results of new technologies on product efficiency and life-cycle emission reductions could vary depending on the outcome of general business conditions; further research and testing; the development and competitiveness of alternative technologies; the ability to scale pilot projects on a cost-effective basis; political and regulatory developments; and other factors discussed in this release and under the heading "Factors Affecting Future Results" on the Investors page of ExxonMobil's website at exxonmobil.com.

ⁱ The GHG emissions reduction stated here, relates to the comparison of the calculated carbon footprint of product (CFP) for the renewable components in the PMSC race fuel versus a 94 grams CO₂e/MJ of EU Renewable Energy Directive II baseline comparator. Emissions reduction of up to 85% from renewable components vs. conventional are based on carbon footprint of product calculations conducted under ISO 14067 methodology, effectively referenced as a well-to-wheels boundary, taking into account the feedstock, production, transportation, and combustion related emissions to manufacture the blend of renewable components mentioned here. A functional unit of 1 MJ of fuels was used for the comparison.

ⁱⁱ 480 million tonnes of CO₂ emissions is equivalent to approximately 104 million passenger vehicles driven for one year according to the U.S. EPA greenhouse gas equivalences calculator. <https://www.epa.gov/energy/greenhouse-gas-equivalencies-calculator>