

Bosch, Toyota, BMW, and Repsol launch real-world pilot of vehicles running on 100 % renewable gasoline

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Digital fuel twin enables digital documentation

- ▶ Bosch, Toyota Motor Europe, BMW Group, and Repsol are launching a pilot in Spain to demonstrate under real-world conditions how existing vehicles can operate exclusively on 100 % renewable gasoline.
- ▶ The six-month initiative, which began in July 2026, will deploy Toyota and BMW vehicles powered by Repsol's Nexa 95 100 % renewable gasoline, supported by Bosch's digital fuel tracking system.
- ▶ The pilot will provide real-world evidence that renewable fuels can be deployed at scale today using existing vehicles, refueling infrastructure and digital certification technologies.

Stuttgart – Bosch, in collaboration with Toyota Motor Europe, BMW Group and Repsol, today announces the launch of a pioneering six-month pilot project in Spain. The pilot, which started in early July, will demonstrate the real-world potential of Vehicles running Exclusively on Eligible Fuels (VEEF)*. The initiative will deploy a fleet of around 20 Toyota and BMW vehicles, powered by Repsol's 100 % renewable gasoline (Nexa 95), and supported by Bosch's advanced digital fuel tracking technology. This pilot aims to provide tangible, real-world evidence that vehicles exclusively running on eligible fuels can be effectively deployed at scale, supporting Europe's transition to decarbonize mobility through a complementary, technology-neutral approach while leaving no one behind.

Bosch's digital fuel tracking solution will collect and validate refueling data from multiple sources, including vehicle data, fuel stations and fuel card transactions, ensuring robust, transparent tracking of renewable fuel usage. "With our digital fuel twin, Bosch is bringing full digital transparency to the entire fuel value chain to reliably track and verify the renewable fuels from the moment they enter the market right down to the end consumer. By precisely monitoring fuel usage on individual vehicles in real-time, we are building the foundation of trust and regulatory compliance needed for higher acceptance of renewable fuels in the

mobility and transport sector”, says Dr. Marko Babic, head of the Bosch product area in charge of the digital fuel twin.

“Technology openness is a key pillar of the BMW Group strategy – at the same time our goal is always to have more environmentally friendly and efficient vehicles on the road. Our BMW and MINI vehicles as a part of this future oriented pilot, will help to gain valuable data helping us to offer our global customer the best and most efficient powertrain also in the future.” says Stefan Heller, Head of Development of the VEEF programme at BMW Group.

The pilot will focus on three key objectives:

- Availability of renewable gasoline in the market – leveraging Repsol’s infrastructure, currently the only provider of 100 % renewable gasoline at public fuel stations in Spain.
- Readiness of digital tracking and certification technologies – enabled by Bosch’s digital fuel twin system, which certifies renewable fuel usage across the full lifecycle.
- Operational deployment of VEEF fleets – demonstrating that existing vehicles can run today on 100 % renewable fuels using existing infrastructure.

Unlike solutions that require new vehicle technologies or infrastructure investments, the pilot uses existing Toyota and Lexus passenger cars provided by Toyota España, and BMW fleet vehicles. It highlights the immediate scalability of renewable fuels as a drop-in solution for decarbonizing road transport. Repsol’s Nexa 95 renewable gasoline is produced from RED-compliant (Renewable Energy Directive) feedstocks, offering significant greenhouse gas reductions compared to fossil fuels, while remaining fully compatible with today’s gasoline engines and infrastructure. Spain has been selected as the optimal location for this demonstration due to the availability of renewable gasoline, strong partner collaboration, and Toyota España’s operational support.

“At Repsol, we believe every emission-reduction solution has a role to play in decarbonizing transport. This project underscores how renewable fuels can expand consumer choice, offering another way to reduce carbon footprints using existing vehicles and infrastructure. As the only company currently supplying 100 % renewable gasoline at public service stations in Spain, Repsol is proud to contribute its expertise and infrastructure alongside Toyota, BMW, and Bosch. The project’s real-world data will demonstrate the value of a technology-neutral approach to Europe’s mobility transition”, says Estíbaliz Pombo, Deputy Director of Energy Products at Repsol.

Strengthening the case for technology neutrality in Europe

The pilot is designed to generate robust data and insights that will support ongoing European policy discussions on decarbonizing the automotive sector. With EU policy currently focused predominantly on electrification, the project aims to demonstrate that renewable fuels can play a complementary and scalable role in reducing CO₂ emissions. Data and intermediate findings from the pilot will be shared with EU policymakers, industry stakeholders and media audiences, contributing to discussions around technology neutrality and the potential inclusion of VEEF vehicles within future regulatory frameworks. “We believe renewable fuels can play a key role alongside electrification in reducing CO₂ emissions. As the transition progresses, it is becoming clear that there is a growing risk that 100 % zero-emission vehicles by 2035 may not be fully achieved. In such a scenario, renewable fuels can help bridge the gap to deliver carbon neutrality, especially when combined with hybrid and plug-in hybrid technologies. This pilot aims to demonstrate how renewable fuels can make a meaningful and sustainable contribution to decarbonization today, for both new and existing vehicles”, says Pascal Ruch, Vice President Corporate & Governmental Affairs, Toyota Motor Europe.

Driving measurable impact

A key success factor of the project will be promoting the effective use of renewable fuel across the fleet, supporting emissions reductions and advocacy impact. The pilot will also provide valuable insights for R&D validation and monitoring methods, the scalability of existing approaches for tracking physical fueling, and fuel operator's ability to link fuel consumption to individual vehicles.

** Eligible fuels: Refers to renewable and low-carbon fuels that comply with EU sustainability criteria under the Renewable Energy Directive (RED) and deliver significant greenhouse gas (GHG) emissions reductions on a well-to-wheel basis compared to fossil fuels. This includes sustainably produced biofuels and renewable fuels derived from waste, residues or renewable energy sources, as recognized in ACEA and FuelsEurope positions supporting the deployment of Vehicles Exclusively running on Eligible Fuels (VEEF).*

Press photos and infocharts are available on the Bosch Media Service at www.bosch-press.com.

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The Bosch Group is a leading global supplier of technology and services. It employs roughly 413,000 associates worldwide (as of December 31, 2025). The company generated sales of 91 billion euros in 2025. Its operations are divided into four business sectors: Mobility, Industrial Technology, Consumer Goods, and Energy and Building Technology. With its business activities, the company aims to use technology to help shape universal trends such as automation, digitalization, electrification, and artificial intelligence. In this context, Bosch's broad diversification across regions and industries strengthens its innovativeness and robustness. Bosch uses its proven expertise in hardware, software, and services to offer customers cross-domain solutions from a single source. It also applies its expertise in connectivity and artificial intelligence in order to develop and manufacture intelligent, user-friendly, and sustainable products. With technology that is "Invented for life," Bosch wants to help improve quality of life and conserve natural resources. The Bosch Group comprises Robert Bosch GmbH and its roughly 500 subsidiary and regional companies in over 60 countries. Including sales and service partners, Bosch's global manufacturing, engineering, and sales network covers nearly every country in the world. Bosch's innovative strength is key to the company's further development. Bosch employs some 82,000 associates in research and development.

Additional information is available online at www.bosch-press.com, www.bosch-mobility.com, www.bosch.com.