



Systems & Components 2025: Fuels for the future

9–15 November 2025 — Hanover, Germany — Part of Agritechnica — Reducing greenhouse gas emissions remains a top priority for the off-highway sector.

(DLG). At Systems & Components 2025, exhibitors are showcasing future-ready drive technologies, ranging from optimized diesel engines to hydrogen and e-fuels, under a technology-neutral approach. The event, organized by DLG (German Agricultural Society) and held alongside Agritechnica, 9-15 November, 2025, serves as a B2B marketplace for innovation in powertrain systems. Held biennially, Agritechnica is the world's largest agricultural machinery trade fair.

Diesel remains relevant—But not alone

Despite growing alternatives, diesel engines still power over 80 percent of off-highway mobile machinery. Durability, low operating costs, and fast refueling are factors that keep them in demand. Experts predict that by 2035, most machines over 56 kW will still rely on diesel. However, the role of diesel is evolving. Manufacturers are optimizing combustion engines for cleaner performance, including lean-burn operation and advanced exhaust aftertreatment.

Hybrid Approaches and Fuel Flexibility

Exhibitors at Systems & Components are embracing a “both-and” strategy: engine platforms compatible with a wide range of low- and zero-carbon fuels—natural gas, e-fuels, hydrogen—will be on display. Innovations like Liebherr's hydraulic air booster enhance engine responsiveness, even in lean-burn or hydrogen-powered systems.

Toward climate-neutral powertrains

Hydrogen combustion engines are gaining traction as a fast-track solution for decarbonizing off-road applications. Their compatibility with existing infrastructure and production lines makes them attractive for small-series deployment. Multi- and dual-fuel engines are also emerging as flexible, low-carbon interim solutions.

Ready for the transition

Manufacturers are also targeting existing fleets with renewable fuels like Hydrotreated Vegetable Oil (HVO) and ethanol, which can cut CO₂ emissions by up to 90 percent. Meanwhile, Bosch and others are developing injectors and components that support a wide range of alternative fuels, ensuring adaptability for the road ahead.

“It is evident that discussions around low-emission drive alternatives are not leaving manufacturers of mobile working machines indifferent. Even heavy-duty engines are increasingly coming into focus for engineers, aiming to meet required emission standards across all performance classes while also reducing fuel consumption,” says Petra Kaiser, Brand Manager of Systems & Components.

Systems & Components 2025 highlights the industry's commitment to innovation, flexibility, and climate responsibility—driving the future of off-highway mobility.

Full article available [here](#).

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About DLG

With more than 31,000 members, DLG is a politically independent and non-profit organisation. DLG draws on an international network of some 3,000 food and agricultural experts. DLG operates with subsidiaries in 10 countries and also organizes over 30 regional agricultural and livestock exhibitions worldwide. DLG's leading international exhibitions, EuroTier for livestock farming and Agritechnica for agricultural machinery, which are held every two years in Hanover, Germany, provide international impetus for the local trade fairs. Headquartered in Frankfurt, Germany, DLG conducts practical trials and tests to keep its members informed of the latest developments. DLG's sites include DLG's International Crop Production Centre, a 600-hectare test site in Bernburg-Strenzfeld, Germany and the DLG Test Centre, Europe's largest agricultural machinery test centre for Technology and Farm Inputs, located in Gross-Umstadt, Germany. DLG bridges the gap between theory and practice, as evidenced by more than 40 working groups of farmers, academics, agricultural equipment companies and organisations that continually compare advances in knowledge in specific areas such as irrigation and precision farming.

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