



Taking ammonia to the field: MAN Engines is researching a new drive for agricultural machinery

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- **Project partners MAN Engines, CLAAS and WTZ Roßlau with funding from the German Federal Ministry for Economic Affairs and Energy**
- **Goal: Investigation of an ammonia-based drive concept for heavy agricultural machinery**
- **MAN Engines contributes many years of engine and development expertise to the joint project**

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How can heavy agricultural machinery meet high performance requirements in the future and at the same time use alternative energy sources? This is the question addressed by the GAMCO (Green Ammonia Multifuel Combine) research project. Together with the agricultural machinery manufacturer CLAAS and the research institute WTZ Roßlau, MAN Engines is working on an innovative drive concept for agricultural applications. The joint project, which will run until 2029, is investigating the use of ammonia as an energy source for heavy agricultural machinery under practical operating conditions. As a carbon-free energy carrier, ammonia offers an interesting approach for researching new drive concepts.

GAMCO's goal is to develop a drive concept for heavy-duty off-road applications and to investigate it under practical conditions. The focus is on the question of what contribution alternative energy sources can make to applications that require high performance requirements, long operating times and a high degree of operational flexibility. The project is intended to provide insights into how ammonia can be used technically as a possible energy carrier for such application profiles. At the same time, the potentials and challenges of ammonia in practical use will be scientifically investigated.

MAN Truck & Bus is one of Europe's leading commercial vehicle manufacturers and providers of transport solutions with an annual sales revenue of around 14.1 billion euros (2025). The company's product portfolio includes trucks, buses and coaches with diesel and zero-emission drives, vans, diesel and gas engines along with services related to passenger and cargo transport. MAN Truck & Bus is a company of TRATON GROUP and employs some 32,000 people worldwide.



For MAN Engines, the focus is on the development of future-oriented drive concepts. The company is contributing its many years of experience in the development of high-performance engines for off-road, industrial, energy and marine applications to the project. This expertise is intended to contribute to systematically investigating the potential and challenges of new fuel and drive concepts and evaluating them in a practical manner. "As a development partner to our customers, we want to open up new ways to reduce CO₂ emissions. With GAMCO, we are testing the potential of ammonia for demanding applications," says Daniel Strucks, Head of MAN Engines.

MAN Engines is supporting the project with its engine and development expertise and is helping to assess the technical feasibility of the drive concept. The knowledge gained in the project should help to better understand and technologically classify future applications of alternative energy sources for demanding application profiles.

"The decarbonization of heavy-duty off-road applications will not be solved by a single technology. It is therefore important to scientifically examine different energy sources and drive concepts and to evaluate their potential realistically," says Werner Kübler, Head of Engineering MAN Engines. "With our experience in the development and simulation of modern combustion engines, we are making a significant contribution to evaluating the technical feasibility of ammonia-based drive concepts for performance-intensive applications."

The project partners are contributing their respective competencies to the research network. CLAAS is contributing its expertise as an agricultural machinery manufacturer, while WTZ Roßlau is contributing its experience in the development and testing of new drive technologies. MAN Engines complements the network with its comprehensive engine expertise and many years of experience in the development of robust drive solutions for demanding applications.

A key goal of the project is not to limit research results to the test bench, but to investigate their relevance for real operating conditions. The knowledge gained



should contribute to a better evaluation of future drive concepts for heavy mobile machines and to show new perspectives for the use of alternative energy sources in power-intensive applications.

GAMCO is funded as part of the 8th Energy Research Programme of the Federal Government and will run until October 2029. The project partners want to jointly gain new insights for the further development of technology-open and practical drive solutions and thus contribute to the future transformation of agriculture.

MAN Engines

MAN Engines is the business unit for engines, drive solutions and system expertise within MAN Truck & Bus. With more than 100 years of engine experience, the company develops and produces high-performance drive solutions for off-road, marine, energy and rail applications. The product portfolio includes modern in-line and V-engines for demanding application profiles as well as future-oriented technologies to support decarbonization.

In the off-road sector, MAN Engines supplies drive solutions for agricultural machinery such as combine harvesters, forage harvesters, tractors and other mobile machines. The engines are designed for high performance requirements, long operating times and maximum reliability under demanding conditions. MAN Engines supports its customers in the further development of their machines with leading drive solutions.

CLAAS

Founded in 1913, the family-owned company CLAAS (www.claas-gruppe.com) is one of the world's leading manufacturers of agricultural machinery. The company, headquartered in Harsewinkel in Westphalia, is the world market leader in forage harvesters. CLAAS also holds European market leadership in another core segment, combine harvesters. In top positions CLAAS is also involved in global agricultural technology with tractors as well as agricultural presses and grassland harvesting machines. The product range also includes state-of-the-art agricultural information technology.

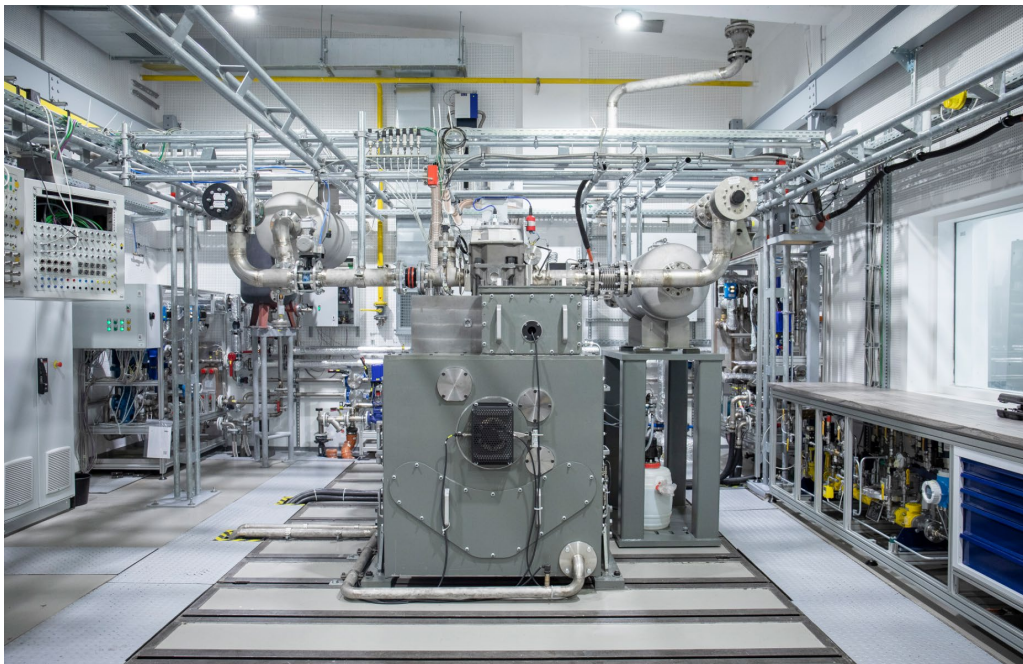
As the largest family-owned company in agricultural technology, CLAAS is one of the drivers of innovation and pulse generators in the areas of harvesting technology, tractors, chassis and drive technologies, driver assistance systems

and automation, as well as digital solutions and AI applications. CLAAS is characterised by openness to technology and long-term partnerships."

WTZ Roßlau

WTZ Roßlau gGmbH stands for application-oriented combustion process development, the independent testing of innovative drive technologies and the design of sustainable energy systems. With comprehensive test bench and system expertise, WTZ safely transforms renewable fuels into robust technical solutions. The WTZ accompanies the entire process, from the initial technological idea to validation under realistic conditions to operational application in mobile and stationary energy systems. The wide-ranging portfolio is based on more than 75 years of experience and combines grown technical competence with future-oriented research and innovation.

Image:



Picture: WTZ Roßlau | Test bench with exemplary test setup of a single-cylinder engine.