

August 29, 2017

New Holland presents its Concept Tractor powered by methane and its vision for a sustainable future of agriculture at Farm Progress Show

- Pushing the boundaries of innovation to pioneer alternative fuels solutions
- Methane powered Concept Tractor: the performance and durability of its diesel equivalent with up to 30% running cost savings
- The vital link in the Energy Independent Farm™'s virtuous cycle
- The new concept reimagines tractor design



PRESS RELEASE

New Holland Agriculture presented today at the Farm Progress Show the latest development in its vision for the sustainable future of farming: a methane powered concept tractor that reimagines the design of this machine and reveals a connected future. The brand imagines the farm of the future as being completely energy independent: a farm that produces not only food, but also the biomass it needs to generate the energy it uses to run its operations and power its tractors and other machinery. Such a self-sufficient future is achievable today, with New Holland's advanced technology and vision.

Carlo Lambro, New Holland Agriculture Brand President, commented: "The new methane powered concept tractor is the latest development in New Holland's pursuit of sustainable and efficient technology through innovation. Its groundbreaking engine delivers the same performance and has the same durability as its standard equivalent, but with much lower running costs. It combines alternative fuels and advanced agricultural technology to create a vital link that closes the loop in the Energy Independent Farm™'s virtuous cycle by running on the energy produced from the land and waste products."

Pushing the boundaries of innovation to pioneer alternative fuels solutions

New Holland has been pushing the boundaries of innovation in clean energy solutions for more than a decade through its Clean Energy Leader strategy. It was the first manufacturer to offer 100% compatibility with Biodiesel back in 2006. In 2009 it developed the world's first hydrogen tractor concept, NH²™ proving the feasibility of this zero-emission technology for the future. This was a key element of the brand's Energy Independent Farm™ concept, launched at the same time.

New Holland continued to explore alternative fuels that would deliver reduced emissions and lower running costs. In 2012, it created its first propane fuelled tractor prototype and is now developing the T6 Propane Power tractor in partnership with the Propane Education & Research Council (PERC). In 2013, New Holland presented its first T6 Methane Power tractor prototype, which it has been developed further and tested with customers

The new Methane powered Concept Tractor: the performance and durability of its diesel equivalent, with up to 30% running cost savings

The new methane powered concept tractor builds on the foundations of the previous T6 Methane Power prototypes to achieve a significant technological advance. It features a powertrain that uses a groundbreaking efficient combustion technology specifically developed for agriculture applications by FPT Industrial, a brand of CNH Industrial that has pioneered natural gas traction for more than 20 years. The 6-cylinder NEF methane engine delivers 180 hp and 740 Nm: the same power and torque as its standard diesel equivalent. It has the same durability and service intervals, and generates up to 30% running cost savings. The innovative tank design, using a composite layered tubular structure, enables a full day's autonomy in line with an equivalent diesel model.

The powertrain of the methane powered concept tractor has the added benefit of quiet operation, with engine noise level reduced by up to 3 dBA. This translates to around 50% reduction in drive-by-noise, which makes it ideal for municipality, yard and transport operations.

In real field conditions, the methane powered concept tractor produces at least 10% lower CO₂ emissions and reduces overall emissions by 80% compared to a standard diesel tractor. Its environmental performance further improves when fuelled by biomethane produced from crop residues and waste from farm-grown energy crops, which results in virtually zero CO₂ emissions.

The methane powered concept tractor, vital link in the Energy Independent Farm™'s virtuous cycle

The methane powered concept tractor, forms a vital link in the virtuous cycle that delivers CO₂ neutral production, where the Energy Independent Farm™ produces the energy it needs to power its operations, heat farm buildings, and run its equipment. Biomethane as a sustainable fuel is particularly well suited to farms, as they have the raw materials and the space to house a biodigester to produce the gas.

The biodigester is fed with specifically grown energy crops, animal waste, food waste or crop residues. It can use waste collected from food factories, supermarkets and restaurants in addition to the materials gathered at the farm. The biogas produced in the biodigester is transferred to a refining station where it is transformed into fuel-grade methane to power the farm's vehicles and machinery. The methane can also be used to fuel a generator to produce electricity that can be used on the farm with any extra fed into the electricity grid to power local communities. The by-products of biodigestion can be used as natural fertilisers on the farm's fields.

The new concept reimagines tractor design

CNH Industrial's design team reimagined tractor styling, taking inspiration from automotive design, to create a fully integrated body look while accentuating iconic New Holland style elements such as the aggressive hood air intake gills and lights. They also created strong brand designs such as the unique leaf-shaped seat and signature lights.

The wrap-around bodywork is a perfect illustration of a fully integrated design approach with the hood, front and rear fenders, and the fuel tank creating a flowing, stylish look. Wrap-around glazing provides 360-degree visibility, with a 20% increase in the glazed area compared to a standard tractor. The floating glass domed roof with fully integrated Precision Land Management receiver provides a completely panoramic design – an agricultural first – and offers an unobstructed view of the loader at all times, facilitating operations, from loading digestate to feeding cattle.

The interior of the cab offers a clutter-free operating environment, with all essential controls on the integrated armrest and additional parameters controlled through the interactive headliner display. The fixed hub steering wheel-mounted display cluster moves with the steering wheel when it is raised or lowered to accommodate for the size of the operator, ensuring optimum visibility on the display information in all positions.

The New Holland methane powered concept tractor closes the virtuous cycle of the Energy Independent Farm™. It combines visionary design concepts with advanced technologies, extended connectivity and reliable powertrain technology that are already available, fuelling innovation to offer a glimpse into a sustainable future of efficient and productive farming.

Link to the video on youtube: <https://youtu.be/ftMIRzjXz8>

[END]

New Holland Agriculture's reputation is built on the success of our customers, cash crop producers, livestock farmers, contractors, vineyards, or grounds care professionals. They can count on the widest offering of innovative products and services: a full line of equipment, from tractors to harvesting, material handling equipment, complemented by tailored financial services from a specialist in agriculture. A highly professional global dealer network and New Holland's commitment to excellence guarantees the ultimate customer experience for every customer. For more information on New Holland visit www.newholland.com

New Holland Agriculture is a brand of CNH Industrial N.V. (NYSE: CNHI /MI: CNHI) a global leader in the capital goods sector with established industrial experience, a wide range of products and a worldwide presence. More information about CNH Industrial can be found online at www.cnhindustrial.com

Press Contacts:

Francesca Mazza
New Holland Agriculture Press Relations, APAC
Email: francesca.mazza@cnhind.com
Phone: +39 3371 153723