

“NEW POWER FOR FARMERS”: NEW NEF 6 CYLINDERS NATURAL POWER FOR FUTURE SUSTAINABLE FARMING

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FPT Industrial is displaying for the first time in Europe its **new NEF 6 cylinders Natural Gas engine** at Agritechnica (Hannover, 12-18 November - Hall 16 - Stand C35). The new NG prototype from FPT Industrial is "**Naturally powerful**" and represents the **ultimate clean energy solution** specifically designed for agricultural applications.



PRESS RELEASE



Leveraging **more than 20 years' experience in Natural Gas engine development**, and proven with **over 30,000 units sold globally**, FPT Industrial is also a pioneer in the introduction of Natural Gas technology in the off-road segment, with customized engine performance and design for tractor installations.

This NG engine delivers the same performance as Diesel engines, in terms of power, torque, durability and maintenance intervals, therefore delivering the same in-field performance and operations to end-users. In real agricultural working conditions **CO₂ emissions are reduced by a minimum of 10% when compared to a standard Diesel tractor**, and become nearly zero when using biomethane. Moreover, **polluting emissions are reduced by 80%** on average when compared to a standard Diesel engine.

Stoichiometric combustion technology, which has been implemented by FPT Industrial since 1995, ensures the correct chemical balance between air and methane in all working conditions, and supports **clean combustion and low emissions**. The technology is enabled

by FPT Industrial's proprietary control strategy, specific piston design and multi-point injection (e.g., methane is injected in the intake manifold through a set of dedicated methane injectors and then air-gas mix is ignited by the spark plug in the combustion chamber).

Optimized combustion **improves engine efficiency and leads to 10-30% operating cost savings** when compared to Diesel. Efficient and highly stable spark-ignited combustion reduces vibration and engine noise, up to -5 dB compared to conventional Diesel engines. Emission compliance is reached with a maintenance-free three-way catalytic converter, a simple and smaller solution than the ATS required by diesel engines, **not requiring DPF or SCR systems**. The engine structure maintains a robust design for tractor installation, with diesel-based design, **high resistance structural block** and oil sump integrated in the tractor chassis. A specific water-cooled turbocharger ensures reliability coping with higher exhaust gas temperatures.

NEF 6 CYLINDERS NG engine Specifications - Tier4B / Stage IV

Architecture:	In-Line 6 Cylinder Engine
Injection System:	Electronic Stoichiometric Multi Point Injection System
Air Handling:	Water cooled Wastegate Turbocharger
Peak Power (kW/hp):	132/180
Max Torque (Nm):	740
Aftertreatment:	3-Way Catalyst

FPT Industrial is a brand of CNH Industrial, dedicated to the design, production and sale of powertrains for on and off-road vehicles, marine and power generation applications. The company employs more than 8,000 people worldwide, in ten manufacturing plants and seven R&D Centres. The FPT Industrial sales network consists of 93 dealers and over 900 service centres in almost 100 countries. A wide product offering, including six engine ranges from 42 hp up to 1,006 hp, transmissions with maximum torque of 200 Nm up to 500 Nm, front and rear axles from 2 to 32 ton GAW (Gross Axle Weight) and a close focus on R&D activities make FPT Industrial a world leader in industrial powertrains. For further information, visit www.fptindustrial.com.

Media contacts:

Fabio Lepore
FPT Industrial Press Office
Tel.: +39 011 007 6720
E-mail: press@fptindustrial.com