

FUELLING INNOVATION



SEAN LENNON

HEAD OF TRACTOR LINE



10 YEARS
of Sustainable Efficient Technology



FUELLING INNOVATION





FUELLING INNOVATION





FUELLING INNOVATION



A TRUE GLOBAL LEADER



180 NATIONAL
MARKETS

12 BRANDS

64 PLANTS

49 R&D
CENTRES

FUELLING INNOVATION



R&D INVESTMENTS



US\$ 860 MILLION

US\$ 520 MILLION
AGRICULTURAL EQUIPMENT

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SUSTAINABILITY LEADER

7 CONSECUTIVE
YEARS



MEMBER OF

Dow Jones
Sustainability Indices

In Collaboration with RobecoSAM 

FUELLING INNOVATION



INNOVATION AND SUSTAINABILITY ARE IN OUR DNA



FUELLING INNOVATION



SUSTAINABLE INNOVATION

NH DRIVE AUTONOMOUS TRACTOR



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PIONEERING ALTERNATIVE FUELS

2006 SUSTAINABLE EFFICIENT
FARMING TECHNOLOGY



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PIONEERING ALTERNATIVE FUELS

2011 CARBON ID CALCULATOR



CALCULATE BY



Want to calculate and reduce your carbon footprint?

Then use the CarbonID™ Calculator Tool and choose New Holland as your sustainable farming partner.

Consumers are increasingly demanding farm produce with a reduced carbon footprint. In an effort to support you in facing this new challenge, New Holland has developed a carbon footprinting method. This provides you with a carbon calculator tool to define the current carbon footprint of your tractor fleet. The outcome shows the reduction you could achieve by replacing some of your tractors with ECOBlue™ tractors.

Carbon footprinting is a key pillar of the Clean Energy Leader strategy which aims to decrease the environmental impact of agriculture whilst improving productivity.

Calculate the carbon footprint of your fleet (max. 20 tractors) based on fuel usage or tractor hours by selecting the corresponding button on the left.

SGS has verified the tractor fleet carbon footprinting tool that calculates usage phase carbon emissions and the reduction by choosing ECOBlue™ SCR technology. Calculations exclude oil used for servicing/lubrication (ECOBlue SCR engines 600hr service interval) / Indirect GHG emissions associated with NOx have been accounted / Source data for average fuel consumption - NTTL OECD / Source data for CO2 emission from diesel - DEFRA August 2011 / Source data for CO2 emission from AdBlue - Air / Source data for NOx emission from diesel - Ademe / Source for size of hot air balloons - Carbon Trust



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PIONEERING ALTERNATIVE FUELS



2006
100%
BIODIESEL
COMPATIBLE



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PIONEERING ALTERNATIVE FUELS

2009

WORLD'S 1ST
HYDROGEN TRACTOR CONCEPT



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PIONEERING ALTERNATIVE FUELS

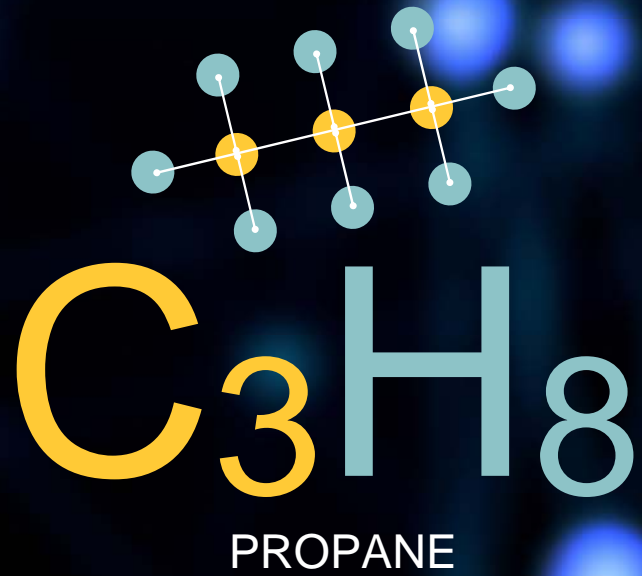
2009 THE ENERGY INDEPENDENT FARM



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PIONEERING ALTERNATIVE FUELS: PROPANE



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PIONEERING ALTERNATIVE FUELS

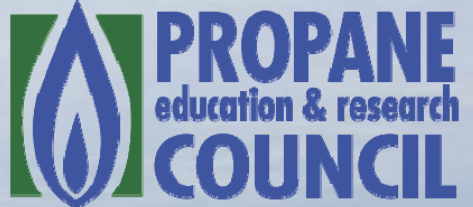
2012 1ST PROPANE
TRACTOR
PROTOTYPE



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PIONEERING ALTERNATIVE FUELS: PROPANE POWER



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EXTENSIVE FIELD TESTING: PROPANE POWER



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PIONEERING ALTERNATIVE FUELS



OVER **30,000**
PRODUCED

FUELLING INNOVATION



PIONEERING ALTERNATIVE FUELS



OVER **22,000**
IVECO TRUCKS -
BUSES
POWERED
BY NATURAL GAS

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PIONEERING ALTERNATIVE FUELS: METHANE POWER

2013

1ST METHANE POWER PROTOTYPE



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PIONEERING ALTERNATIVE FUELS: METHANE POWER



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EXTENSIVE FIELD TESTING: METHANE POWER



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LoCT-LOW CARBON TRACTOR PROJECT



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LoCT-LOW CARBON TRACTOR PROJECT

- SIGNIFICANT ANNUAL CO₂ SAVINGS
- CREATION OF 45 JOBS
- SUPPLY OPPORTUNITIES IN UK GAS STORAGE
- LOWER CO₂ EMISSIONS OF TRACTORS
- PRODUCTION OF BIO-METHANE FROM WASTE



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EXTENSIVE FIELD TESTING: METHANE POWER



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FUELLING INNOVATION TODAY



FUELLING INNOVATION



METHANE POWERED CONCEPT TRACTOR

V

FUELLING INNOVATION

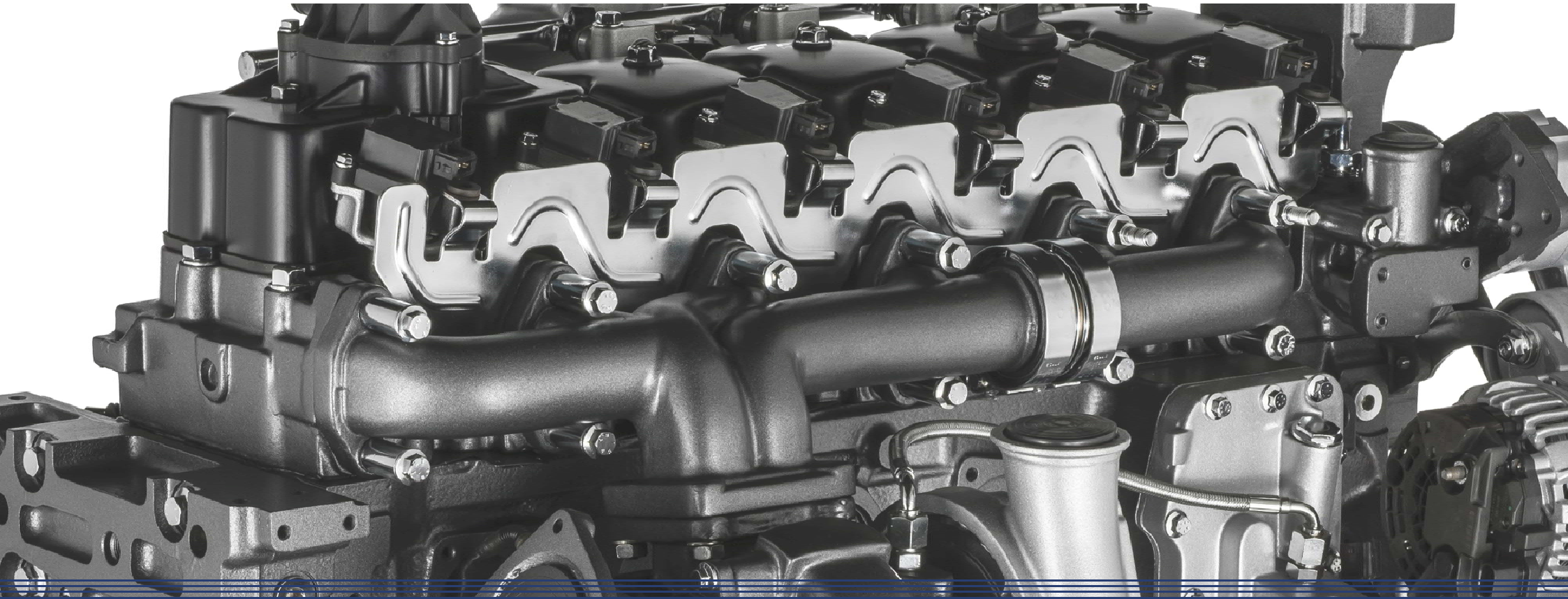


METHANE POWERED CONCEPT TRACTOR

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PIONEERING IN HOUSE DEVELOPED EFFICIENT COMBUSTION



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STANDARD DIESEL TRACTOR VS METHANE POWERED CONCEPT TRACTOR

SAME

SAME

POWER 180 hp

TORQUE 740 Nm



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STANDARD DIESEL TRACTOR VS METHANE POWERED CONCEPT TRACTOR

SAME

SAME

RUNNING
COSTS

DURABILITY

SERVICE INTERVALS

SAVING

30%



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METHANE POWERED CONCEPT TRACTOR: FULL DAY AUTONOMY



FUELLING INNOVATION



METHANE POWERED CONCEPT TRACTOR



WITH METHANE / CNG

-99% PM **-10%** CO₂ **-80%** OVERALL EMISSIONS

FUELLING INNOVATION



METHANE POWERED CONCEPT TRACTOR

WITH BIO-METHANE
ZERO CO₂ PROFILE



FUELLING INNOVATION



METHANE POWERED CONCEPT TRACTOR

50%
REDUCTION
DRIVE-BY-NOISE

FUELLING INNOVATION



METHANE POWERED CONCEPT TRACTOR

50%
REDUCTION
DRIVE-BY-NOISE



FUELLING INNOVATION



STANDARD DIESEL TRACTOR VS METHANE POWERED CONCEPT TRACTOR

SAME

PERFORMANCE

SUPERIOR
SUSTAINABILITY



FUELLING INNOVATION



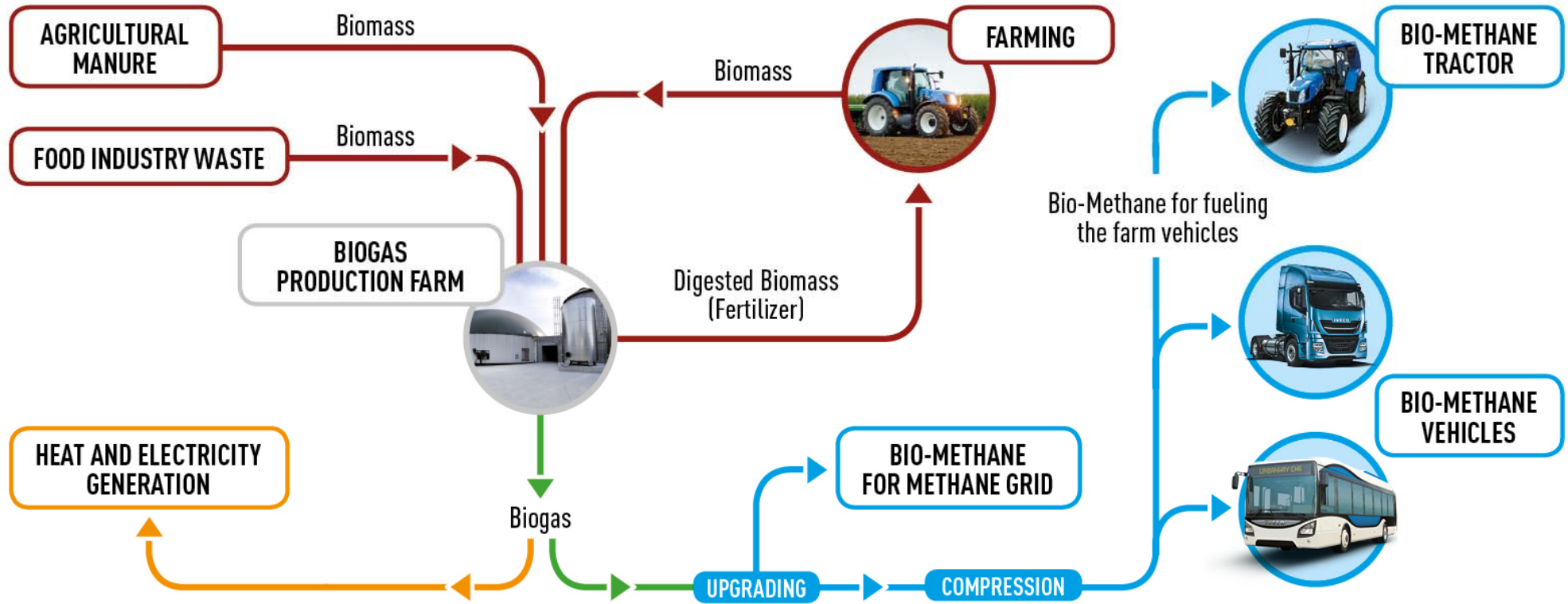
ENERGY INDEPENDENT FARM - A VIRTUOUS CO₂ NEUTRAL CYCLE



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ENERGY INDEPENDENT FARM - A VIRTUOUS CO₂ NEUTRAL CYCLE



ENERGY INDEPENDENT FARM - A VIRTUOUS CO₂ NEUTRAL CYCLE

SELF-SUFFICIENT FARM

- ENERGY
- FUEL
- FERTILISER

NEW REVENUE STREAM

- BIOMETHANE SALE
- ENERGY GRID

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ENERGY INDEPENDENT FARM - A REALITY TODAY



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ENERGY INDEPENDENT FARM - A REALITY TODAY



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ENERGY INDEPENDENT FARM - A REALITY TODAY



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ENERGY INDEPENDENT FARM - A REALITY TODAY



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ENERGY INDEPENDENT FARM - A REALITY TODAY



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A REAL BUSINESS MODEL FOR SUSTAINABLE FARMING



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A REAL BUSINESS MODEL FOR SUSTAINABLE FARMING



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Q&A

