



Promilleafgiftsfonden for landbrug

T6 Methane Power

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Agenda

- Background
- Distribution methane
- Engine
- Tanks and design
- LN
- Methane tractor calculator.
- Baggrund og Vision
- Distribution methan/Biomethan
- Motor
- Tanke og design
- LNG, Flydende gas
- Methane traktor calculator.
- Andre alternative brændstoffer



CNH Industrial

Segments and key features



Agriculture

Second largest manufacturer of agricultural machinery



Construction

A global player in the manufacturing of construction equipment



Financial Services

A global leader in equipment finance, supporting customers and dealers with tailor made solutions



Powertrain

Global number one in highly regulated markets, producing more than half a million engines a year and market leader in alternative fuels powertrains



A HISTORY OF SUCCESSFUL ENTREPRENEURS



1842
CASE FOUNDED
BY JEROME CASE



1985
CASE ACQUIRES
INTERNATIONAL
HARVESTER



1996
Acquisition of STEYR
Landmaschinentechnik AG



1895
NEW HOLLAND
FOUNDED BY ABE
ZIMMERMAN



1986
Ford buys
New Holland,
becoming Ford
New Holland



1899
Fiat founded by
Giovanni Agnelli



1918
Fiat starts
mass production
of tractors



1991
FiatGeotech
purchases
Ford New
Holland

1999
Case IH
and New Holland
merge to form
CNH Global



2005
Fiat, Fiat-Kobelco, O&K,
New Holland and
Fiat Allis are united under the
New Holland Construction
brand



1864
Conrad
Magirus starts
his company



1937
Lancia Veicoli Industriali
opens facility for
the production
of military trucks



1975
Fiat forms
IVECO merging
operations of
several truck
brands



1986
Acquisition
of ASTRA
by IVECO



2005
Fiat groups all automotive
and
industrial powertrain
activities together
to form FPT



2011
Fiat spins out
its non - auto
activities to
form Fiat Industrial



2013
CNH Industrial
is born with dual
listing on New York
and Milan Stock Exchanges

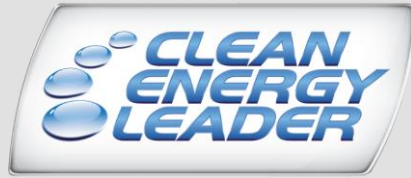
2022

IVECO • GROUP

Background


New Holland Agriculture

Farming technology of tomorrow




let's get it done.

The Clean Energy Leader® strategy



**JULY 2006 /
THE BIRTH OF A NEW ERA**
CLEAN ENERGY LEADER®
STRATEGY LAUNCHED

**NOVEMBER 2007 /
100% BIODIESEL**
ALL NEW HOLLAND ENGINES ARE
100% BIODIESEL COMPATIBLE



FEBRUARY 2009 / A ZERO EMISSION FUTURE
NH²[™] HYDROGEN TRACTOR AND ENERGY
INDEPENDENT FARMSM WIN A SIMA GOLD
INNOVATION MEDAL




**NOVEMBER 2011 /
INTELLIGENT VITICULTURE**
ECOBRAUD AND
SUSTAINABLE VITICULTURE
WIN A SILVER MEDAL AT
AGRITECHNICA



**SEPTEMBER 2012 /
A RENEWABLE
ALLIANCE**
STRATEGIC PARTNERSHIP
WITH GROWTH ENERGY
TO PROMOTE ETHANOL
PRODUCTION IN THE USA

**NOVEMBER 2013 /
THE NEW FRONTIER**
1ST GENERATION T6
METHANE POWER
TRACTOR LAUNCHED



**JUNE 2015 /
INNOVATION
THAT WORKS**
2ND GENERATION
T6 METHANE POWER
TRACTOR PRESS
RIDE AND DRIVE




**AUGUST 2016 / REDEFINING
THE AGRICULTURE
OF TOMORROW**

NH^{DRIVE}[™] CONCEPT AUTONOMOUS TRACTOR,
UNVEILED AT FARM PROGRESS, USA.
IT PROVIDES A GLIMPSE INTO THE FUTURE
OF TRULY AUTONOMOUS FARMING.



**AUGUST 2017 / METHANE POWERED
CONCEPT TRACTOR**

LAUNCHED AT FARM
PROGRESS SHOW, USA,
REIMAGINES THE DESIGN
AND REVEALS A CONNECTED
AND SUSTAINABLE FUTURE



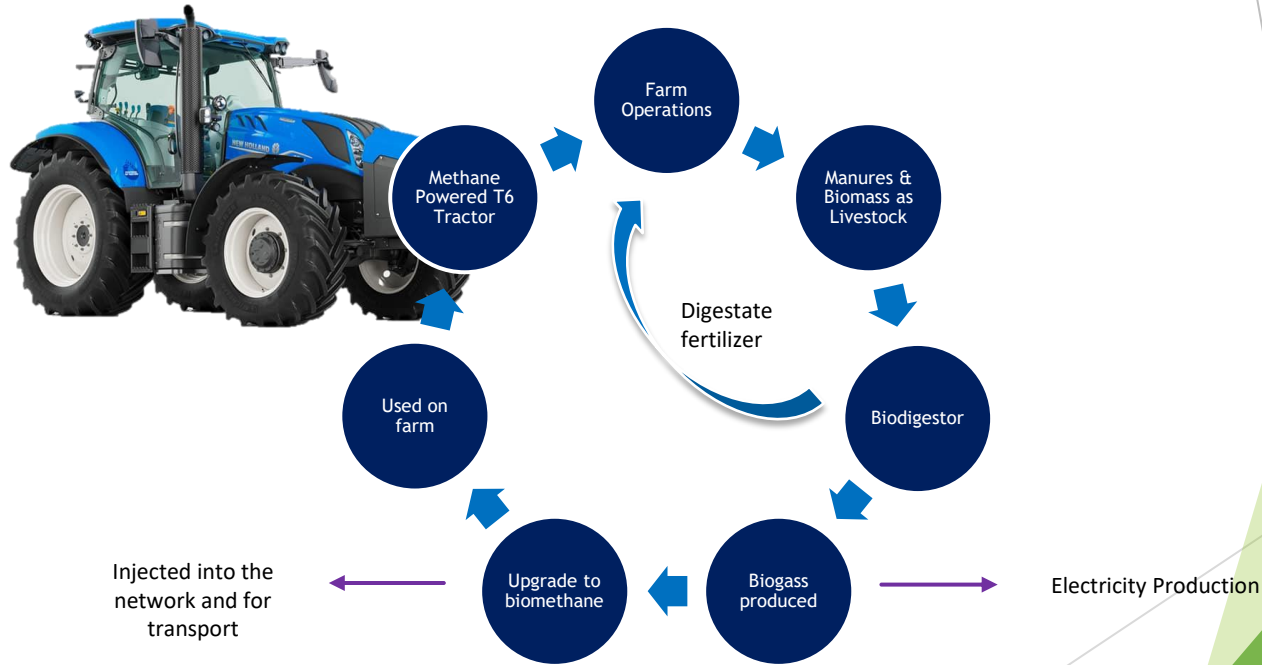
**NOVEMBER 2019 /
T6 METHANE POWER**

THE WORLD'S FIRST
PRODUCTION UNIT
UNVEILED AT THE
AGRITECHNICA
SHOW, GERMANY.



Create the farm of tomorrow - The Energy Independent FarmSM

Our mission: Helping farmers around the world to become independant regarding energy by allowing the creation of a more sustainable agricultural world.



Environmental Impact View - Well to Wheel

Green-House-Gas Emissions by Source - On-Road

Well-To-Wheel (WTW) - GHG emissions in CO₂ g/km

Fossil fuel:



Bio-Diesel*:



Natural Gas & Biomethane:



Electricity:

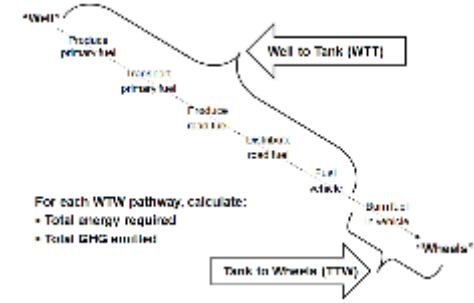


CO₂ capture from atmosphere via photosynthesis

Less Carbon Content
Reduction due to production, conditioning and transportation

CO₂ capture from atmosphere via photosynthesis

Well to Wheel



Natural Gas vs Diesel

- **Non-Renewable Natural Gas** has a significant reduction in CO₂ emissions vs Diesel (~11%)
- **Renewable sources of Gas** reduce CO₂ emissions even further vs Diesel
 - Between ~80% - 180% reduction depending on the source

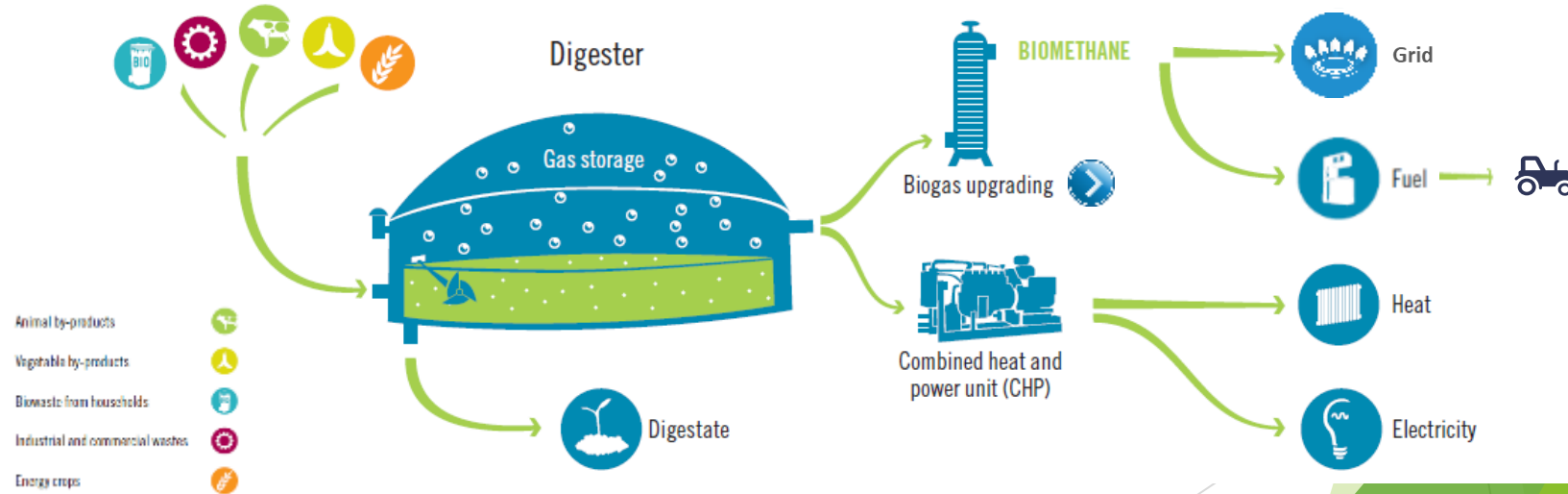
Source: Elab. Thinkstep Study 2017 and JEC WTW study v4 201

* IVO Hydrolyzed Vegetable Oils

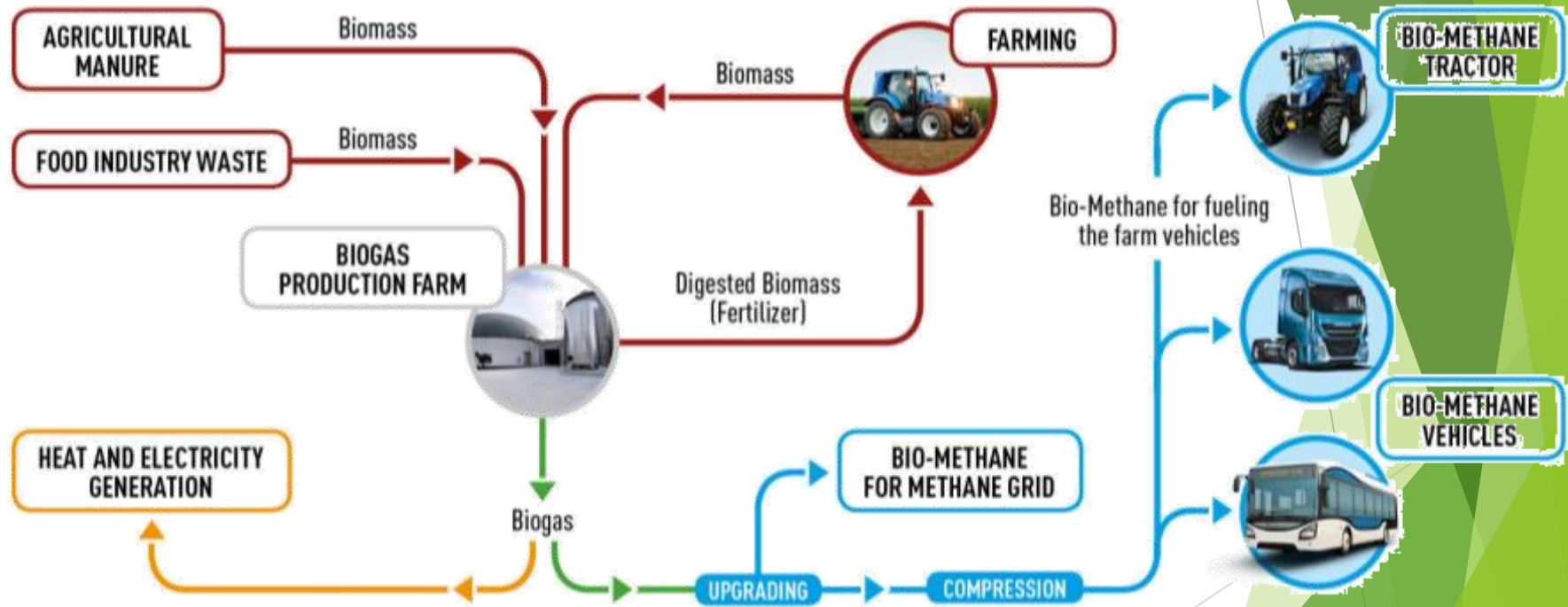
Renewable Gas

Sources & Utilization

- The raw output of an Anaerobic Digester (AD) is **Biogas**, which can either be used directly to generate **Electricity & Heat**, or upgraded to produce **Biomethane**
- **Biomethane** can then be injected into the **Grid** or used directly as **Fuel**
- The waste output of the Anaerobic Digester is known as **Digestate** which can be further recycled into various products



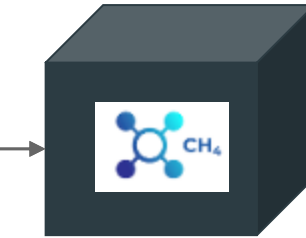
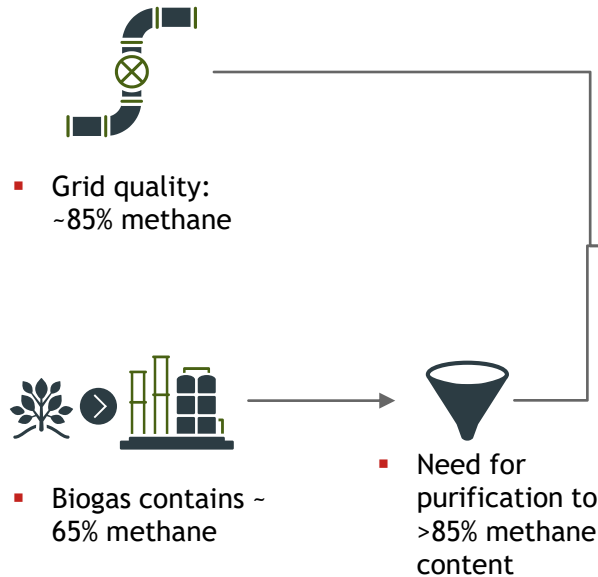
Energy Independent Farm™ system



Methane gas requires high compression or liquefaction to be usable

Overview of gas usage opportunities

Methane Sources



At outlet pressure: 1 day
tractor use¹ = 360m³
(5 shipping containers)

Processing Required for use as Fuel



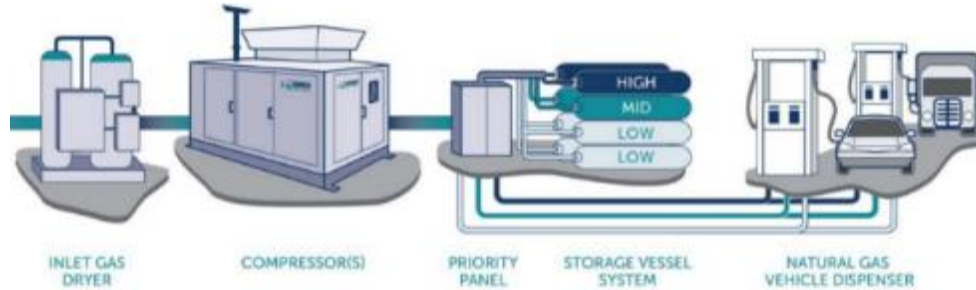
- High compression (250bar)
- 1 day = 1.4 m³ CNG*



- Extremely low temperatures
of less than -170 °C and
requirement to keep cooled
- 1 day = 0.6 m³ LNG*

Infrastructure investment for CNG filling technology

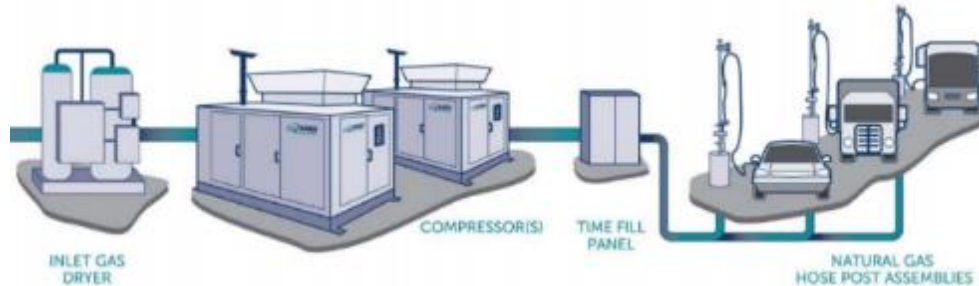
**Fast-fill
station
configuration
(3-4 minutes)**



\$45-75k

Initial
investment

**Time-fill
station
configuration
(~6 hours)**



\$35-50k

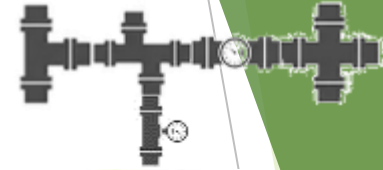
Initial
investment

Source: Clean cities project; ANGI Engineering, Phoenix Energy, US Deptment of Energy

Infrastructure

\$65k system example

- \$65k will buy a compressor and one bank of 15 tanks
 - Additional tanks ~\$15k per bank of 15 cylinders
- Compressor (example)
 - Coltri MCH-24 Compressor (250 Bar)
 - 13kg/hr (24 m³/hr)
- Fast Fill Storage
 - SM15 Bank (1x from image)
 - 140kg of usable gas at 200bar
- Usage of 140kg
 - 4x APH with out range extender
 - Tractor fill time 5 minutes
 - Storage bank refill time ~11hrs
- Notes
 - Additional banks can be added as it is a modular system
 - Additional vehicles can refuel a lower pressure



France Suppliers CNG fuelling stations

On farms : N° 1 is Prodeval

- CN'Green = solution for AD plant with injection
- 75 k€ (60k€ for the station / 15 k€ installation)
- 18 Nm³/h (= 13,5 kg/h)
- Simulation with a gas price of 28€/MWh (up to 90€/MWh end of 2021)



Volume de GNC distribué = 39 tonnes / an soit l'équivalent de 150 kg/jour, 5 jr/semaine, 52 semaines/an

| | Années 1 à 8 | Années 8 à 15 |
|-------------------------------------------------|-------------------------------|-------------------------------|
| Achat gaz naturel | 0,398 €/HT/kg de CNG | 0,398 €/HT/kg de CNG |
| Achat Garanties Origines | 0,000 €/HT/kg de CNG | 0,000 €/HT/kg de CNG |
| Electricité | 0,032 €/HT/kg de CNG | 0,032 €/HT/kg de CNG |
| Exploitation de l'installation | 0,077 €/HT/kg de CNG | 0,077 €/HT/kg de CNG |
| Maintenance préventive | 0,066 €/HT/kg de CNG | 0,066 €/HT/kg de CNG |
| Maintenance curative | 0,000 €/HT/kg de CNG | 0,000 €/HT/kg de CNG |
| Abonnement internet | 0,000 €/HT/kg de CNG | 0,000 €/HT/kg de CNG |
| Assurances équipement et responsabilité civile | 0,051 €/HT/kg de CNG | 0,051 €/HT/kg de CNG |
| Taxe foncière / Redevance occupation du terrain | 0,000 €/HT/kg de CNG | 0,000 €/HT/kg de CNG |
| Entretien site | 0,000 €/HT/kg de CNG | 0,000 €/HT/kg de CNG |
| Gardiennage site | 0,000 €/HT/kg de CNG | 0,000 €/HT/kg de CNG |
| TICPE | 0,076 €/HT/kg de CNG | 0,076 €/HT/kg de CNG |
| Dotation aux amortissements | 0,240 €/HT/kg de CNG | 0,000 €/HT/kg de CNG |
| Coût de l'endettement | 0,017 €/HT/kg de CNG | 0,000 €/HT/kg de CNG |
| Coût de revient du CNG | 0,957 €/HTVA/kg de CNG | 0,700 €/HTVA/kg de CNG |

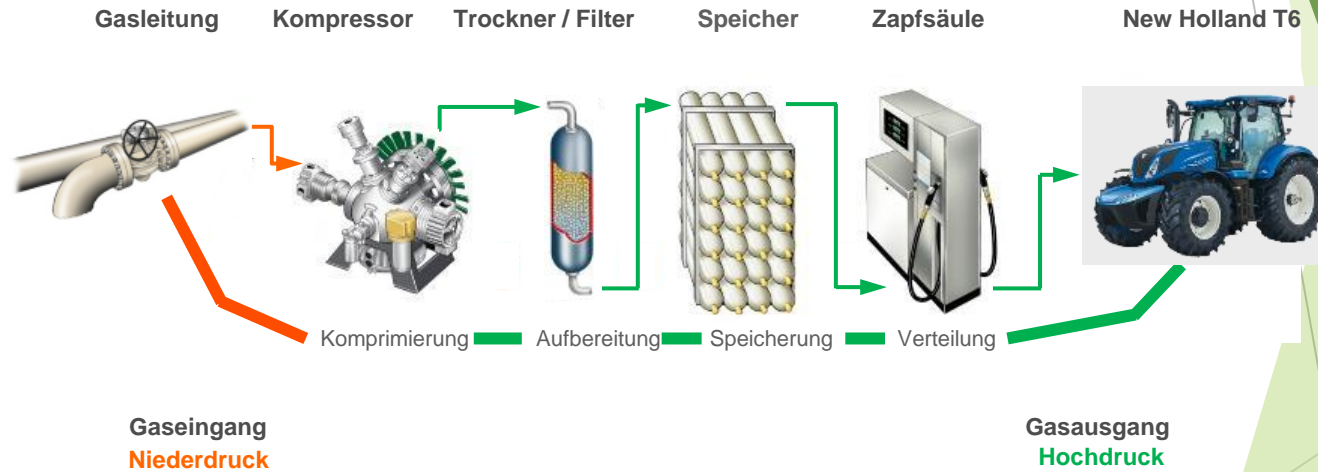
Composantes prix de revient du GNC (scénario à 39 tonnes/an)

PRODEVAL
INGÉNIERIE DES SOLUTIONS GAZ

Scenario 39 t / year
= 150 kg/day over 260 days

2. WAS MACHT BAUER KOMPRESSOREN ?

kompressoren ?



Bulk fuel transport comparison

Transport capacity & cost has a significant variation by fuel type

44 Ton Bulk Haulage



- **Diesel**

- 38,000 litres
(31,616 kg)
- 1,500 hours tractor usage



- **CNG (250-300 Bar compressed)**

- 5,000 kg
- 262 hours tractor usage
- 5.7x to match Diesel



- **LNG (insulated cryogenic tank -163 °C)**

- 21,000 kg
- 1,100 hours tractor usage
- 1.4x to match Diesel

Increasing complexity and cost of storage



Technical criteria for natural gas of an FPT engine

Natural Gas must meet the expectations of Law EN 16732-2 "Natural gas and biomethane for use in transport and biomethane for injection in the natural gas network – Part 2: Automotive fuels specification"

Natural gas used in FPT engines must meet the following technical criteria:

- CH₄ > 85% v/v
- NMHC < 13% v/v
- Inert (CO₂, N₂) < 14% v/v
- H₂ < 5% v/v
- Water < 55mg/Nm³ - MN (Methane Number) > 70 (AVL method)
- H₂S < 10ppm
- Total sulphur < 10mg/Nm³ (ISO 6326-5)
- Siloxanes < 5mg/Nm³

Prototypes and development in methane supply

Methane powered Tractor Prototype

- Prototype 1, F1C engine from the Iveco Daily
- Proof of concept



Main specifications

Name: **T6.140 Methane Power**
Engine family: **139hp 4-cylinder F1C**
100% **Methane Powered**
10L Petrol Back-up



Methane powered Tractor Prototype

- The methane prototype has been extensively tested in Europe and Brazil (Germany, France, Italy, UK, Spain, Denmark, Czech Republic, Belgium, Netherlands, Luxembourg)
- Engine derived from the Iveco Eurocargo

METHANE POWER TRACTOR



Main specifications

Name: **T6.180 Methane Power**
Engine family: **179hp 6-cylinder NEF**
100% **Methane Powered**

Prototypes at work

Methane Power



Prototypes at work

Methane Power



Methane Concept



The Methane Concept has been all around the world, multiple fairs and events in Europe including Agritechnica, SIMA and EIMA. It has been to Agrishow in Brazil and to the Farm Progress show in the USA. It also went to the Obihiro show in Japan.

FPT NEF NG 67 Engine

FPT the best of the best



The Cursor 16 for agriculture and construction applications



The 460 hp Cursor 13, the most powerful natural gas engine on the market



The Cursor X engine concept: Multi-power, Modular, Multi-application and Mindful

CLEAN DIESEL

Best in class advanced solutions in almost all segments:

- 13 registered in-house patents on Stage V and Selective Catalytic Reduction (SCR) technologies
- SCR, a highly efficient system that can achieve a reduction of up to 98%
- Currently meeting Stage V and Euro VI Step D requirements
- Ongoing research to further increase efficiency and reduce CO₂ emissions
- Featuring improved Total Cost of Ownership (TCO) with longer maintenance intervals

NATURAL GAS

— Natural Gas is a key step towards future zero CO₂ emission propulsions

- Biomethane solutions for all the segments
- Research on alternative fuels/ biofuels for the lowest possible CO₂ emissions

ELECTRIFICATION

Dedicated e-powertrain organization focused on the execution of projects:

- New e-axes, diesel-hybrid and gas-hybrid powertrains
- Fully electric propulsions as long-term solutions for zero-emission vehicles, mainly for urban missions
- Hydrogen fuel-cell propulsion as a solution for long distance missions



Methane power Tractor Range & Main Specifications

New Holland T6.180 Methane Power

| | |
|-------------------------------|----------------|
| Name: | Methane Power |
| Engine: | FPT 6-Cylinder |
| Model: | T6.180 |
| Engine power: | 179hp / 132 KW |
| Torque: | 740 Nm |
| Methane tank capacity: | 190 l |
| Transmission: | ElectroCommand |



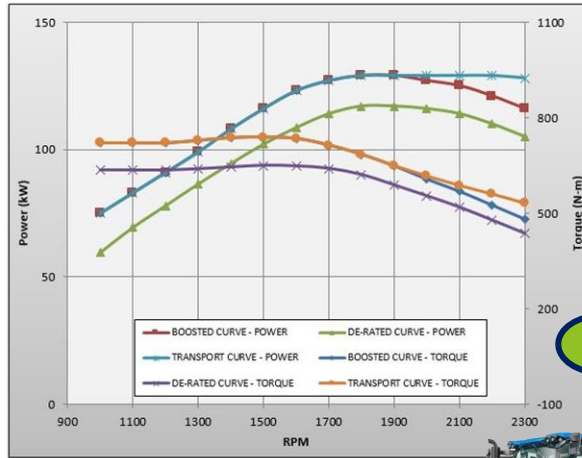
Methane Power tractor Vs Diesel Key Elements

Standard Diesel tractor vs Methane Power

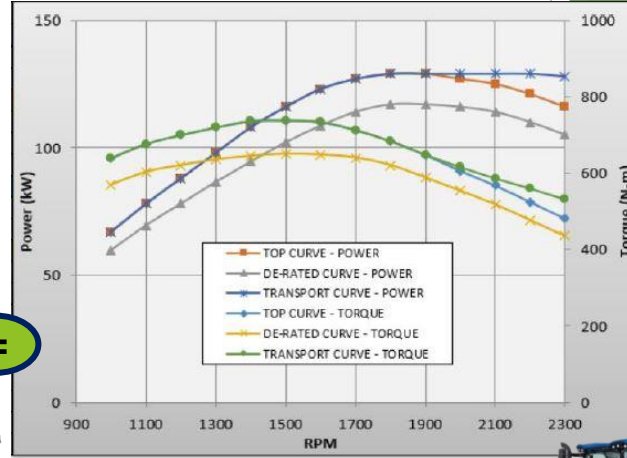


| | |
|---------------|-------------------|
| Same | Power 180 hp |
| Same | Torque 740 Nm |
| Same | Durability |
| Same | Service intervals |
| Same | Productivity |
| Same | Performance |
| Running costs | Saving 30% |

Same power and performances as a diesel tractor



*T6.180 Methane Power



*T6.180 Diesel



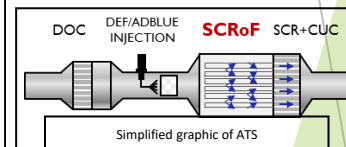
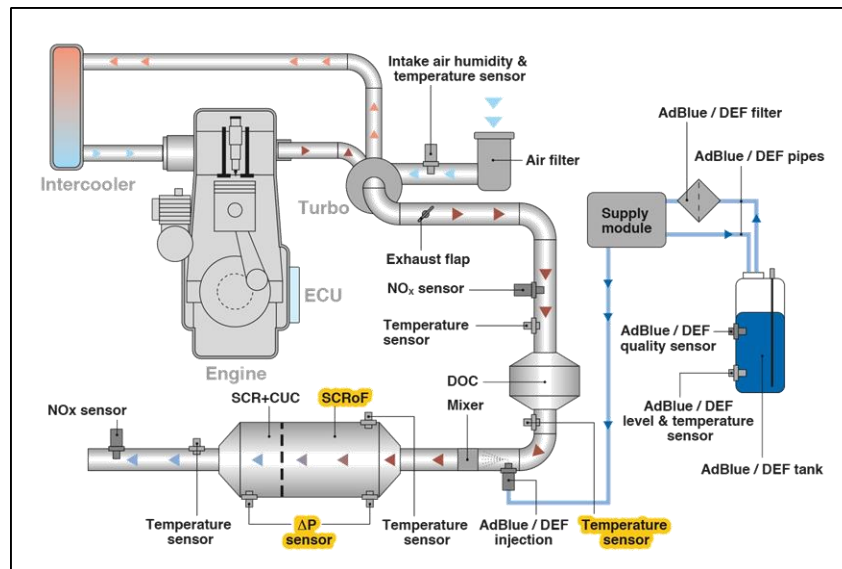
We were really looking for creating a more **sustainable** tractor without impacting farmers **performance**.

Structural comparison between a gas engine and a diesel engine

Tracteur à gaz



Tracteur Diesel (stage V)

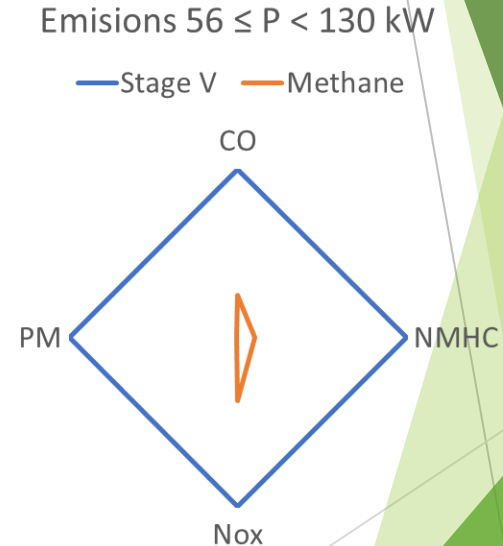


Comparison of emissions between a Diesel engine / Gas engine

By developing a methane engine, we have the opportunity to develop agricultural production more in line with current environmental issues.

Comparison of emissions with a traditional engine:

- **CO**
✓ Reduction of 75%
- **NMHC**
✓ Reduction of 90%
- **PM**
✓ Reduction of 98%
- **NOx**
✓ Reduction of 62%
- **CO₂**
✓ Reduction of 10%-15% (not in the Phase 5 legislation)



Methane Power tractor

Standard Diesel tractor vs Methane Power



WITH METHANE

-10% CO₂ **-80%** overall emissions **-99%** particulate matter

WITH BIOMETHANE

From waste and energy crops = near zero CO₂ emissions
From manure = carbon-negative footprint

Methane Power tractor

Standard Diesel tractor vs Methane Power



50% REDUCTION
drive-by-noise

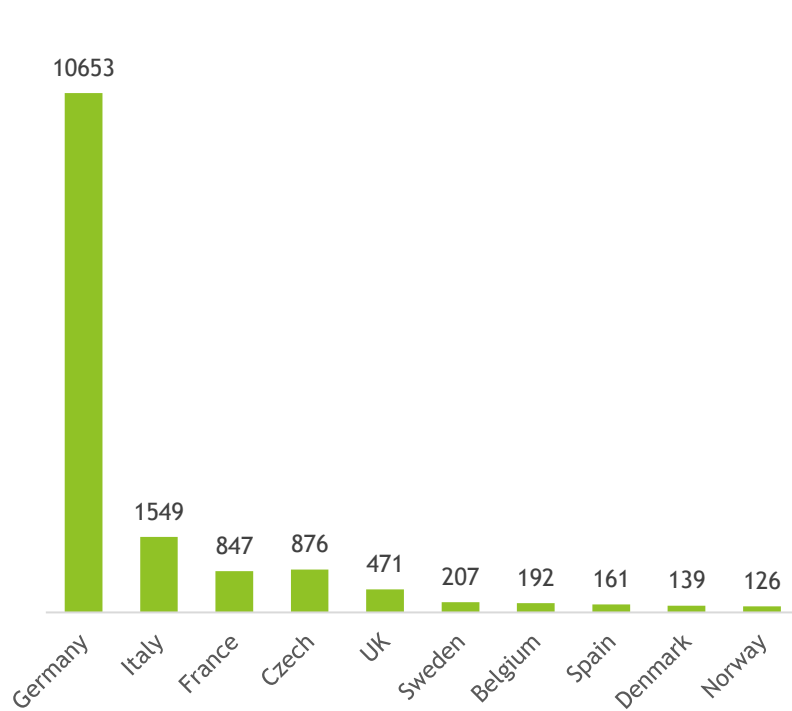
With methane
-10% CO₂

-80% overall
emissions

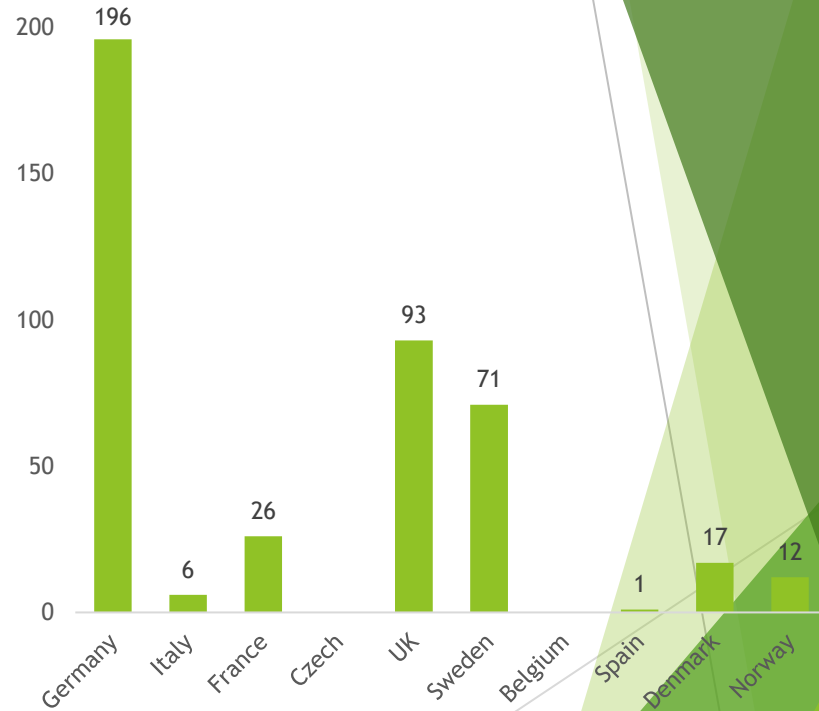
With bio-methane
Virtually Zero CO₂ profile

On-Farm BioGas & Biomethane Plants

Europe 2017

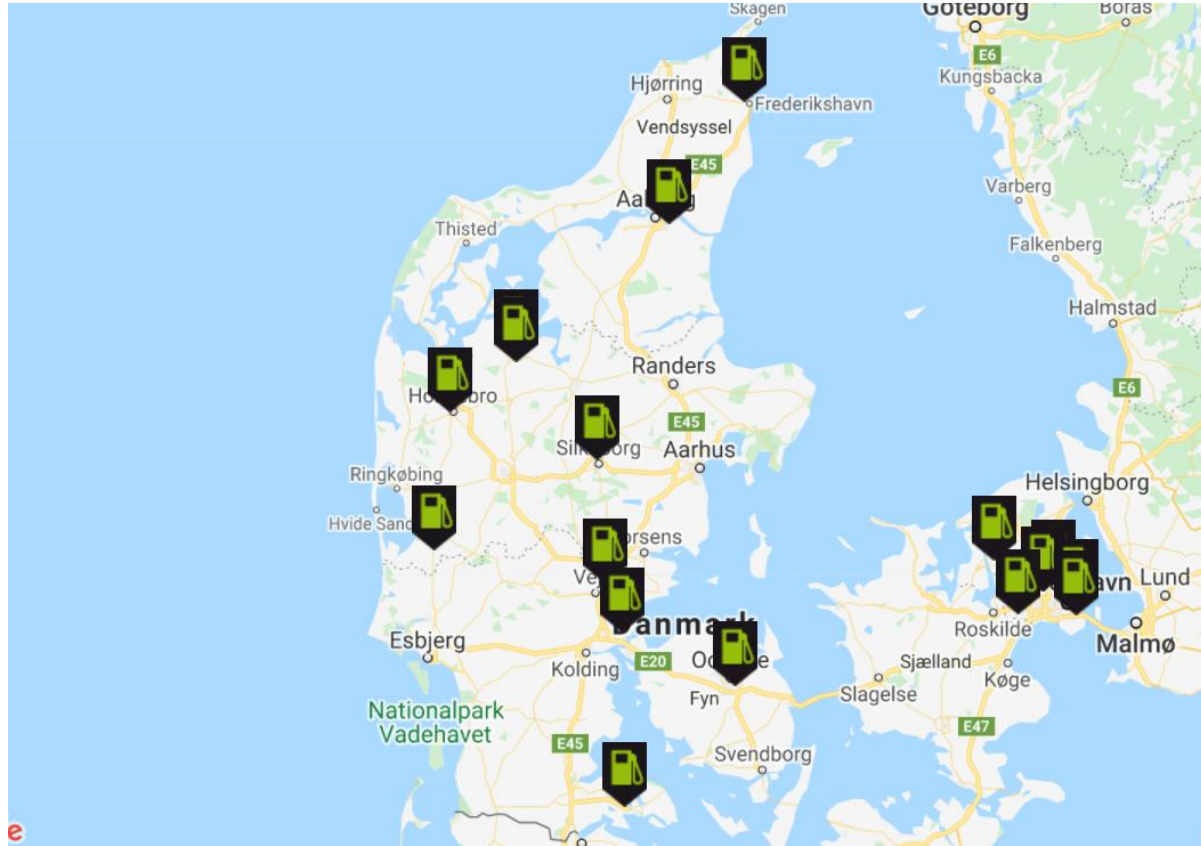


Number of biogas plants by Country



Number of biomethane plants by Country

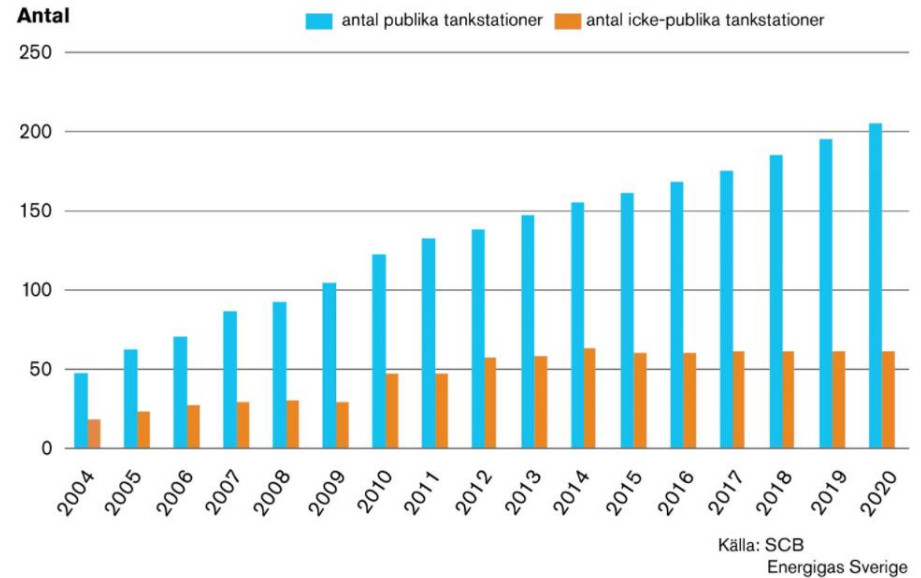
CNG Tank stations in DK.



CNG Tanks stations in SE



Tankstationer för fordonsgas



Fuelling satiations in Europe

STATIONS OVERVIEW

CNG Stations in
Europe

Change view: **CNG** **LNG** Bio share: **all stations**

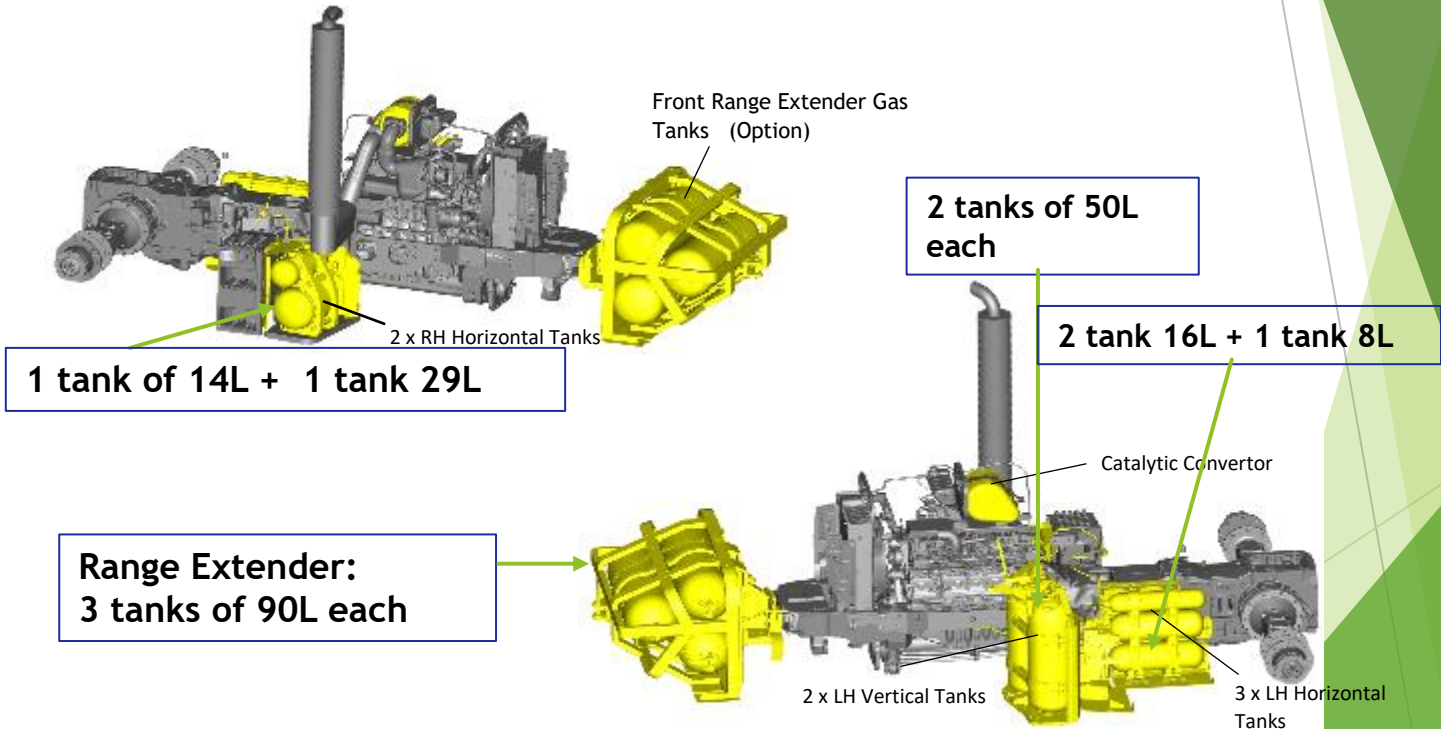


<https://www.ngva.eu/stations-map/>

T6 Methane Tanks & Refueling Process

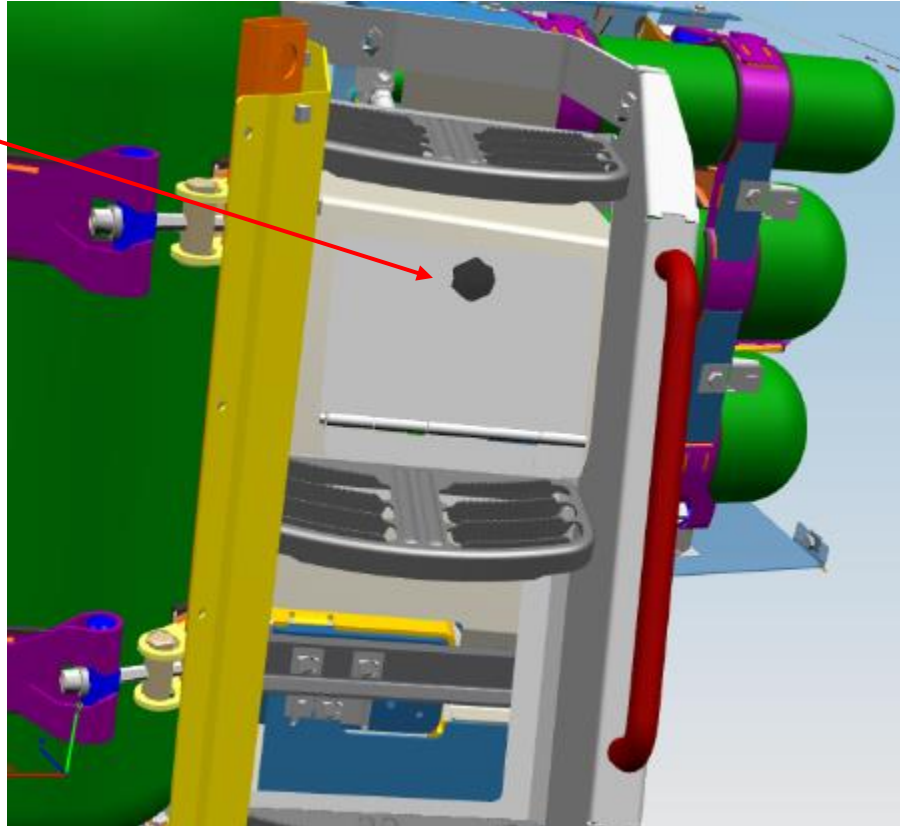
T6 Methane Tanks Available

Total capacity: 190L Standard Laterals tanks + 270L Range Extender

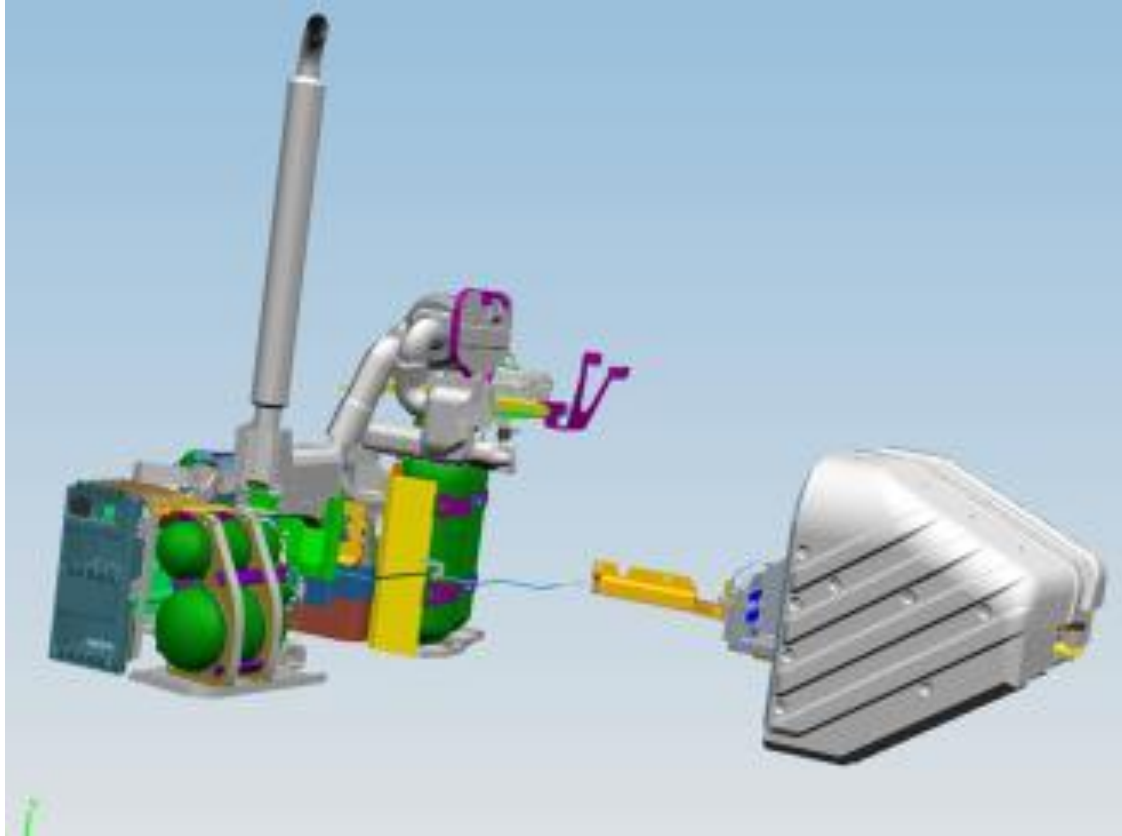


Controls and Refueling Point

New position for
fill point and
fuel pressure
gauge.



ATS Reviewed System

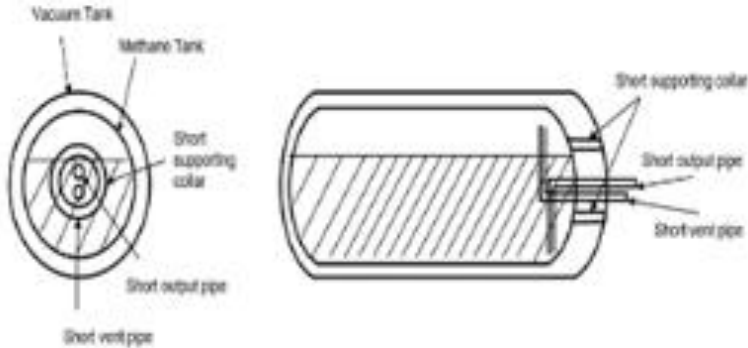


LNG – Liquified Natural Gas

LNG Tank option comparison

Key Challenges to using LNG as a vehicle fuel

- Tank design needs to minimise heat gain to fuel - Current designs are all “thermos flask” based



- Heat transfer path through thermal bridges limits storage time to **5 days**
- Fuel kept below **-163°C**

Conventional “Chart” type



Iveco part no.
5802217070



103Kg LNG

Dimensions of tank (660mmX 1220mm) do not fit within tractor envelope.

Potential customers and solutions

Fuel consumption

- The fuel consumption estimation is based on simulations from Field test, Modena Engineering and bench testing from FPT.
- The Modena simulation is based on the duty cycles from the DLG testing

| | | DLG simulation | 66% | 75% | Fuel/hr |
|----------------------|---------|-------------------|------|------|---------|
| Usage - Farm | Diesel | 25 | 0.66 | | 16.50 |
| | Methane | 19 | 0.66 | | 12.54 |
| Usage - Municipality | Diesel | 25 | 0.66 | 0.75 | 12.38 |
| | Methane | 19 | 0.66 | 0.75 | 9.41 |

Vehicle autonomy

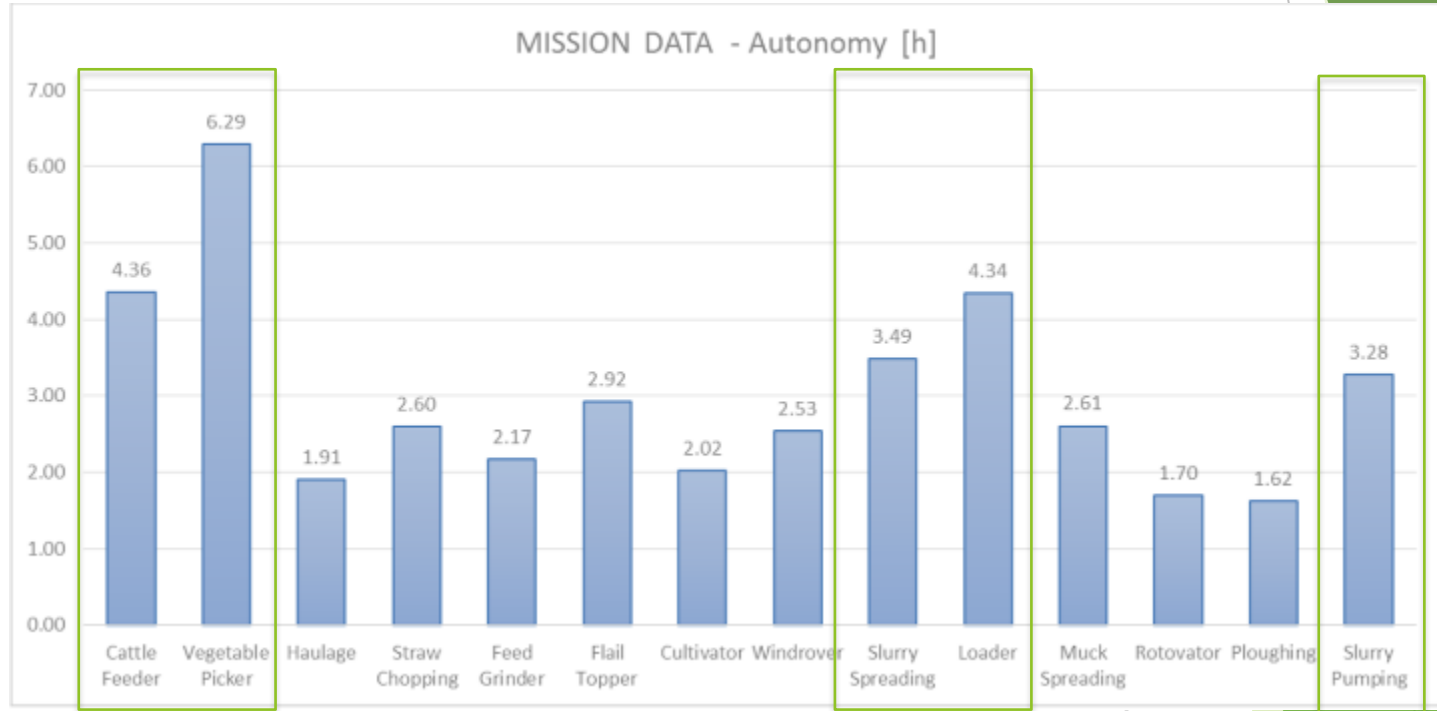
| | | DLG simulation | 66% | 75% | Fuel/h r |
|----------------------|---------|-------------------|-----|-----|-------------|
| Usage - Farm | Diesel | 25 | 66% | | 16.50 |
| | Methane | 19 | 66% | | 12.50 |
| Usage - Municipality | Diesel | 25 | 66% | 75% | 12.40 |
| | Methane | 19 | 66% | 75% | 9.40 |

| Autonomy | 185 | 185+270 | Fuel Litres |
|----------------------|-----|---------|-------------|
| | 32 | 79 | Fuel KG's |
| Usage - Farm | 2.6 | 6.3 | Hrs |
| Usage - Municipality | 3.4 | 8.4 | Hrs |

Virtual analysis autonomy simulations

Based on measured Diesel values

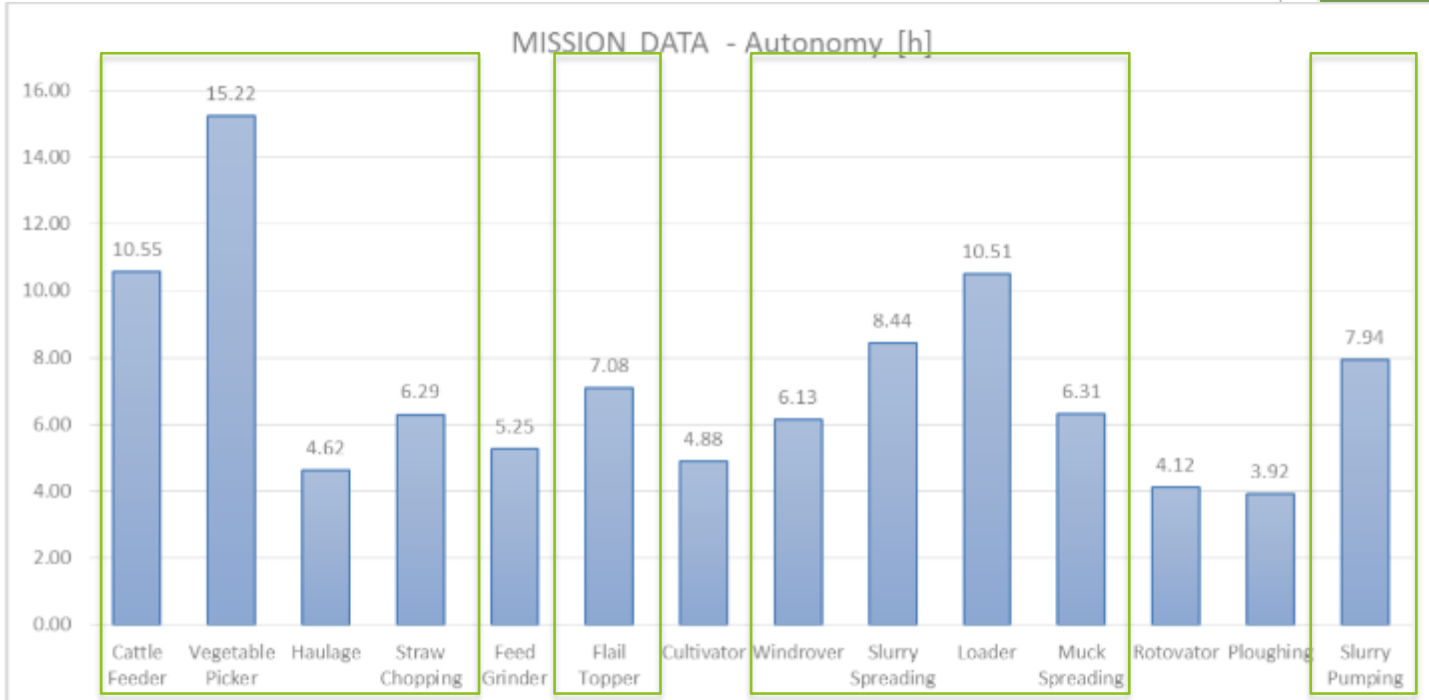
EUROPE STANDARD = **190 L**; MaxPressure = **200 bar**; MinPressure = **22 bar**



Virtual analysis autonomy simulations

Based on measured Diesel values

EUROPE RANGE EXTENDER = **460 L**; MaxPressure = **200 bar**; MinPressure = **22 bar**



Fuel cost

| | Wholesale Gas kwh | Per KG | Electricity cost per KG to compress | Methane Fuel Cost | "Farm Diesel" | Road Diesel, less VAT |
|----------------|-------------------|--------|-------------------------------------|-------------------|---------------|-----------------------|
| Belgium | €0.02 | €0.17 | €0.05 | €0.22 | €0.59 | €1.19 |
| United Kingdom | €0.03 | €0.20 | €0.06 | €0.26 | €0.57 | €1.23 |
| Germany | €0.03 | €0.22 | €0.05 | €0.28 | €0.59 | €1.06 |
| Italy | €0.03 | €0.24 | €0.06 | €0.30 | €0.60 | €1.22 |
| France | €0.04 | €0.27 | €0.05 | €0.32 | €0.61 | €1.22 |
| Netherlands | €0.04 | €0.27 | €0.04 | €0.32 | €0.62 | €1.13 |
| Average | €0.03 | €0.23 | €0.05 | €0.28 | €0.60 | €1.17 |

| Market | Wholesale gas prices in (fossil gas from the grid) | | | | "Farm Diesel" | Road Diesel, less VAT | Farm Diesel vs Gas | Farm Diesel vs Gas rank | Road Diesel vs Gas | Road Diesel vs Gas rank |
|------------------------|----------------------------------------------------|---------|-------------------------------------|-------------------|---------------|-----------------------|--------------------|-------------------------|--------------------|-------------------------|
| | Wholesale Gas kwh | Per KG | Electricity cost per KG to compress | Methane Fuel Cost | | | | | | |
| Turkey | 0.021 | 0.15 | 0.044 | 0.193 | | | | | | |
| Georgia | 0.023 | 0.16 | 0.038 | 0.200 | | | | | | |
| Bulgaria | 0.024 | 0.17 | 0.052 | 0.220 | 0.59 | 1.19 | 0.37 | 6 | 0.37 | 1 |
| Ukraine | 0.026 | 0.18 | 0.042 | 0.224 | | | | | | |
| Moldova | 0.027 | 0.19 | 0.049 | 0.236 | | | | | | |
| United Kingdom | 0.028 | 0.20 | 0.054 | 0.243 | 0.57 | 1.23 | 0.31 | 19 | 0.57 | 2 |
| Hungary | 0.029 | 0.20 | 0.055 | 0.255 | 0.62 | 1.30 | 0.37 | 5 | 0.73 | 19 |
| Czechia | 0.029 | 0.21 | 0.043 | 0.255 | | | | | | |
| Croatia | 0.030 | 0.21 | 0.057 | 0.268 | 0.65 | 1.06 | 0.36 | 4 | 0.80 | 11 |
| Greece | 0.030 | 0.21 | 0.051 | 0.262 | 0.63 | 1.11 | 0.43 | 3 | 0.85 | 7 |
| Bulgaria | 0.031 | 0.22 | 0.056 | 0.273 | 0.60 | 0.93 | 0.53 | 11 | 0.66 | 23 |
| Spain | 0.031 | 0.22 | 0.070 | 0.287 | 0.63 | 1.01 | 0.35 | 9 | 0.73 | 17 |
| Romania | 0.032 | 0.22 | 0.053 | 0.276 | 0.62 | 1.02 | 0.35 | 10 | 0.75 | 14 |
| Germany | 0.032 | 0.22 | 0.055 | 0.279 | 0.59 | 1.06 | 0.31 | 18 | 0.78 | 12 |
| Latvia | 0.032 | 0.22 | 0.054 | 0.278 | 0.61 | 0.93 | 0.53 | 12 | 0.71 | 19 |
| North Macedonia | 0.032 | 0.23 | 0.044 | 0.272 | | | | | | |
| Portugal | 0.033 | 0.23 | 0.056 | 0.285 | 0.65 | 1.13 | 0.36 | 7 | 0.85 | 8 |
| Austria | 0.033 | 0.23 | 0.052 | 0.281 | 0.60 | 1.01 | 0.32 | 13 | 0.73 | 16 |
| EU-28 | 0.033 | 0.23 | 0.056 | 0.287 | | | | | | |
| Lithuania | 0.033 | 0.23 | 0.053 | 0.284 | 0.60 | 0.93 | 0.52 | 16 | 0.66 | 22 |
| Luxembourg | 0.033 | 0.24 | 0.052 | 0.288 | 0.61 | 0.94 | 0.52 | 15 | 0.65 | 24 |
| Euro area | 0.034 | 0.24 | 0.056 | 0.293 | | | | | | |
| Denmark | 0.034 | 0.24 | 0.041 | 0.278 | 0.71 | 1.14 | 0.43 | 2 | 0.86 | 6 |
| Slovenia | 0.034 | 0.24 | 0.051 | 0.290 | 0.55 | 1.02 | 0.26 | 23 | 0.73 | 15 |
| Italy | 0.034 | 0.24 | 0.061 | 0.302 | 0.60 | 1.22 | 0.30 | 21 | 0.92 | 3 |
| Slovakia | 0.034 | 0.24 | 0.053 | 0.300 | 0.65 | 1.05 | 0.35 | 8 | 0.75 | 13 |
| Ireland | 0.034 | 0.24 | 0.085 | 0.326 | 0.58 | 0.99 | 0.25 | 24 | 0.67 | 21 |
| Estonia | 0.034 | 0.24 | 0.049 | 0.291 | 0.61 | 1.10 | 0.32 | 14 | 0.81 | 9 |
| Poland | 0.035 | 0.24 | 0.051 | 0.296 | 0.61 | 0.95 | 0.31 | 17 | 0.65 | 25 |
| Bosnia and Herzegovina | 0.037 | 0.26 | 0.042 | 0.300 | | | | | | |
| France | 0.038 | 0.27 | 0.052 | 0.319 | 0.61 | 1.22 | 0.29 | 22 | 0.90 | 4 |
| Netherlands | 0.039 | 0.27 | 0.044 | 0.316 | 0.62 | 1.13 | 0.30 | 20 | 0.81 | 10 |
| Serbia | 0.039 | 0.27 | 0.043 | 0.324 | | | | | | |
| Sweden | 0.040 | 0.28 | 0.047 | 0.327 | 0.77 | 1.22 | 0.44 | 1 | 0.89 | 5 |
| Finland | 0.063 | 0.44 | 0.041 | 0.453 | 0.70 | 1.16 | 0.22 | 25 | 0.68 | 20 |
| Liechtenstein | #VALUE! | #VALUE! | #VALUE! | #VALUE! | | | 0 | 0 | 0 | 0 |

Target customers

- Vegetable producers
 - Emissions reduction targets
 - Supermarket/consumer influence
 - Large fleets
 - High hour usage
- Biogas producers
 - Fuel availability
 - Emissions reduction targets
- Municipal contractors
 - Emissions reduction targets
 - Grid gas availability
 - Access to public fuel stations



Biogastraktorn nu i verkligheten



Han blir först med biogas i traktortanken



What is next?

Alternative fuels

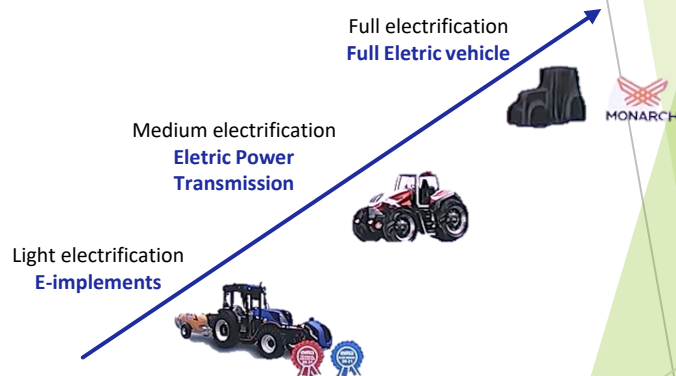
New T6 Methane tractor already
launched



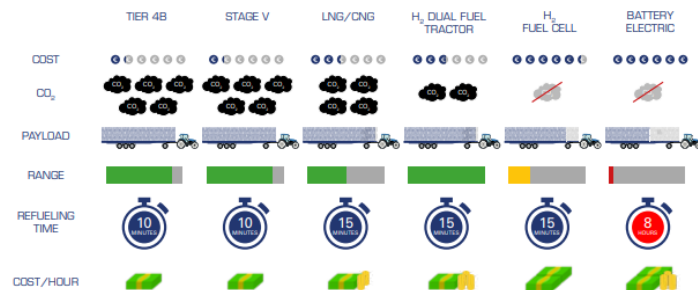
Technology applied to other product
platforms

Electrification

Committed to bringing our customers
electric technologies within the plan
horizon



Hydrogen today



Thank you for listening



Backup