

Dr. Sebastian C. Schulte

CEO, DEUTZ AG

Balancing the transition from traditional diesel to alternative power and fuel solutions

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Disclaimer

Unless stated otherwise, all the figures given in this presentation refer to continuing operations.

The details given in this document are based on the information available at the time it was prepared. This presents the risk that actual figures may differ from forward-looking statements. Such discrepancies may be caused by changes in political, economic, or business conditions, decreases in the technological lead of DEUTZ's products, changes in competition, the effects of movements in interest rates or exchange rates, the pricing of parts supplied, and other risks and uncertainties not identified at the time this document was prepared.

The forward-looking statements made in this document will not be updated.









DEUTZ at a glance



Founded in 1864: oldest engine factory in the world



Nicolaus A. Otto (1832-1891)



Engine no. 1 (1867)



Factory in Cologne (~1900)

Today: provider of drive systems for different applications



Construction machinery

Page 3



Material handling



Agricultural machinery

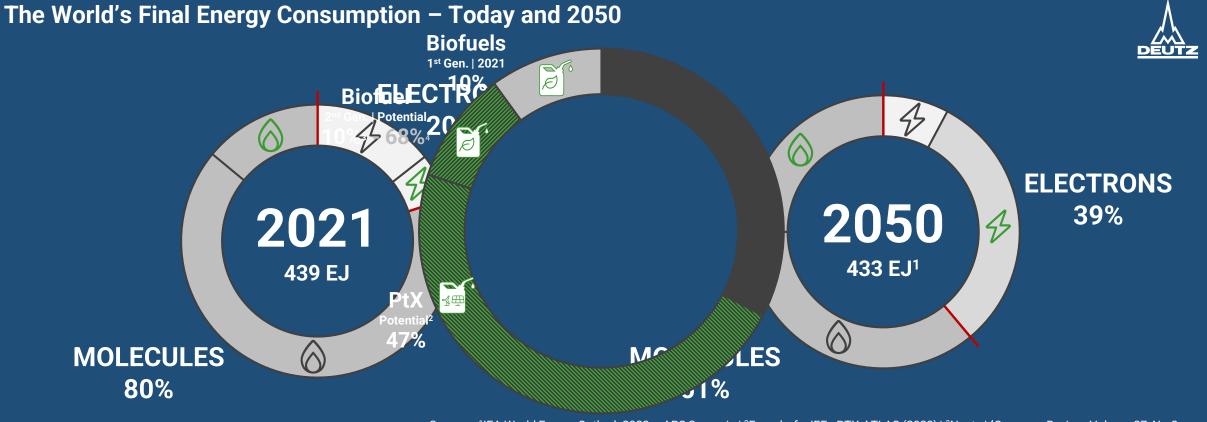


Stationary systems



Other

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Sources: ¹IEA World Energy Outlook 2022 – APS Scenario | ²Fraunhofer IEE - PTX-ATLAS (2023) | ³Neste | ⁴Concawe Review, Volume 27, No.2

TODAY'S WORLD ENERGY CONSUMTPION IS HIGHLY DEPENDEND ON

FOSSIL MOLECULES



BEYOND ELECTRIFICATION

GREEN MOLECULES

MUST PLAY DECISIVE ROLE

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Considerations on well-to-wheel efficiency













POWER GRID

INTERMITTENCY STORAGE

CHARGING

UTILISATION

18%

BATTERY-ELECTRIC











COMPRESSION +TRANSPORT

FUELLING

UTILISATION

16%

HYDROGEN

Sources: Umweltbundesamt | Frontier Economics | FVV | DEUTZ AG

IF HYDROGEN AND eFUELS ARE PRODUCED IN "SWEET SPOTS", THEY WILL BECOME

COMPETITIVE



DIFFERENT TECHNOLOGIES

WE ARE OPEN TO

WHEN MASTERING OUR INNOVATIVE STRENGTH

With growing demand, we will ensure that the world keeps moving



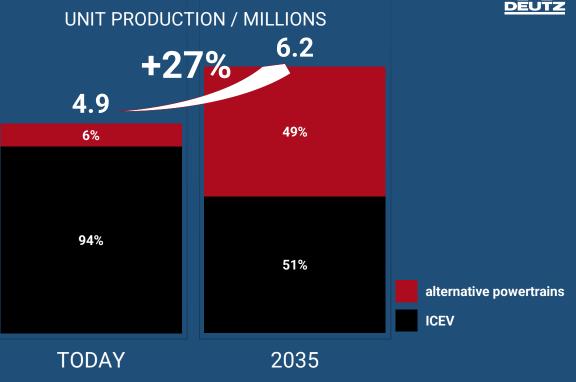






CONSTRUCTION
MATERIAL HANDLING
AGRICULTURE

19 – 560 kW



COMPLACENCY

IS NOT AN OPTION – MANKIND IS GROWING AND SO ITS DESIRE FOR FOOD, HOUSING AND INFRASTRUCTURE



POWERTRAINS
TO KEEP THE WORLD MOVING

The diverse range of off road mobile machinery applications



MOBILITY



TODAY'S ROLE OF ELECTRONS IN MEETING STATIONARY POWER DEMAND

→ ENERGY DEMAND

OFF-ROAD APPLICATIONS FACE

VERSATILE LOAD PROFILES



THERE IS NO NIE-EITC-ALL COLLITIO

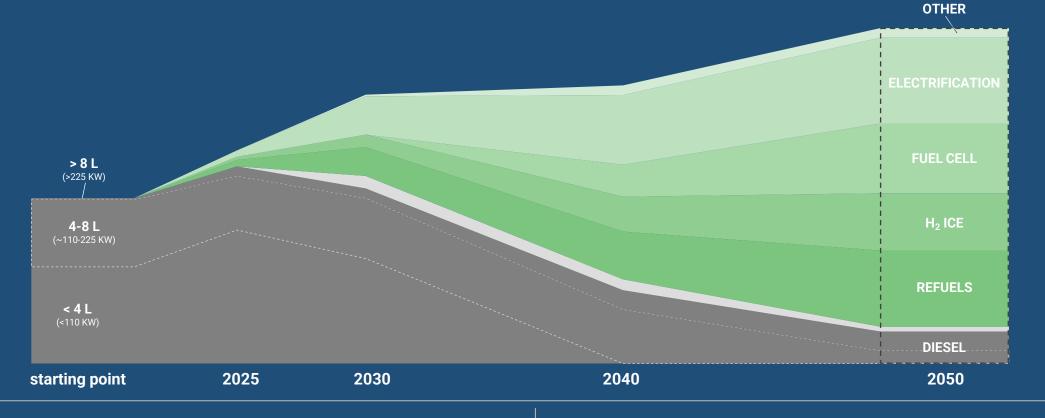


Moving from a pure engine company to a solution provider



Outlook: technology allocation of DEUTZ powertrains until 2050





DIESEL

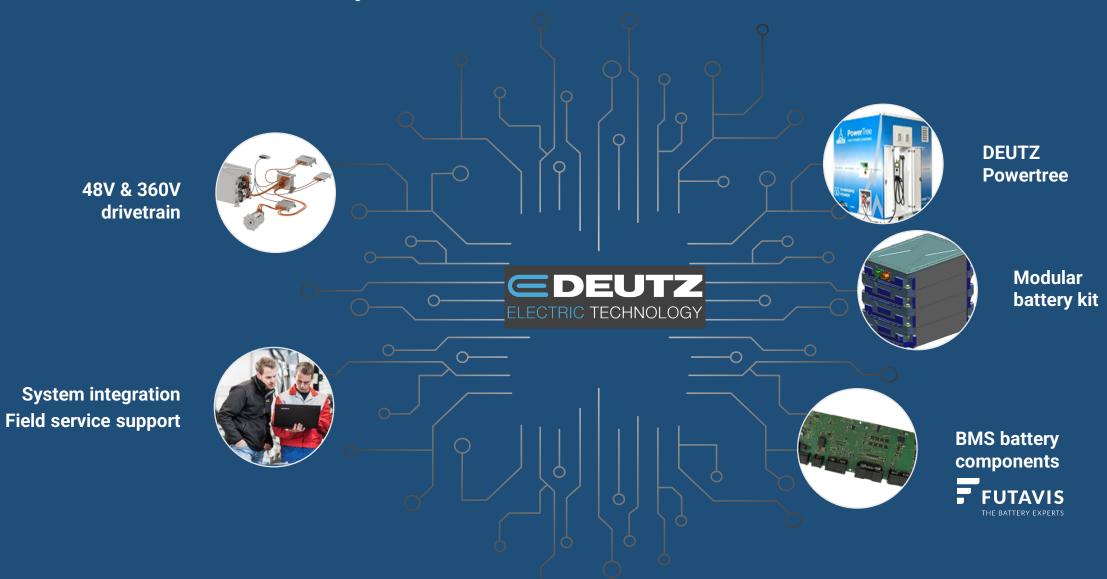
STILL DOMINANT UNTIL 2030

TECHNOLOGY TRANSITION

FOR ABOUT 90% OF THE PORTFOLIO BY 2050

Electrification: E-DEUTZ ecosystem



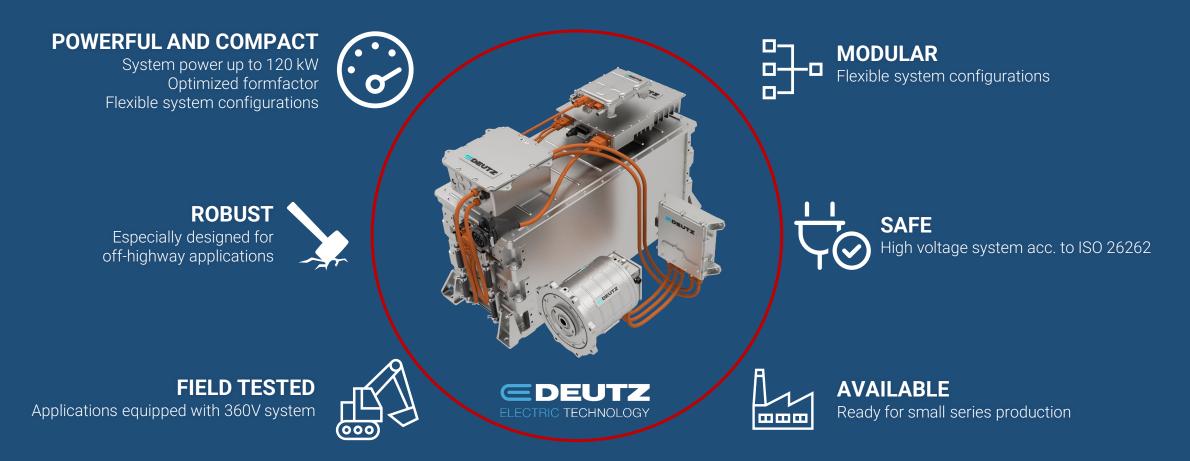


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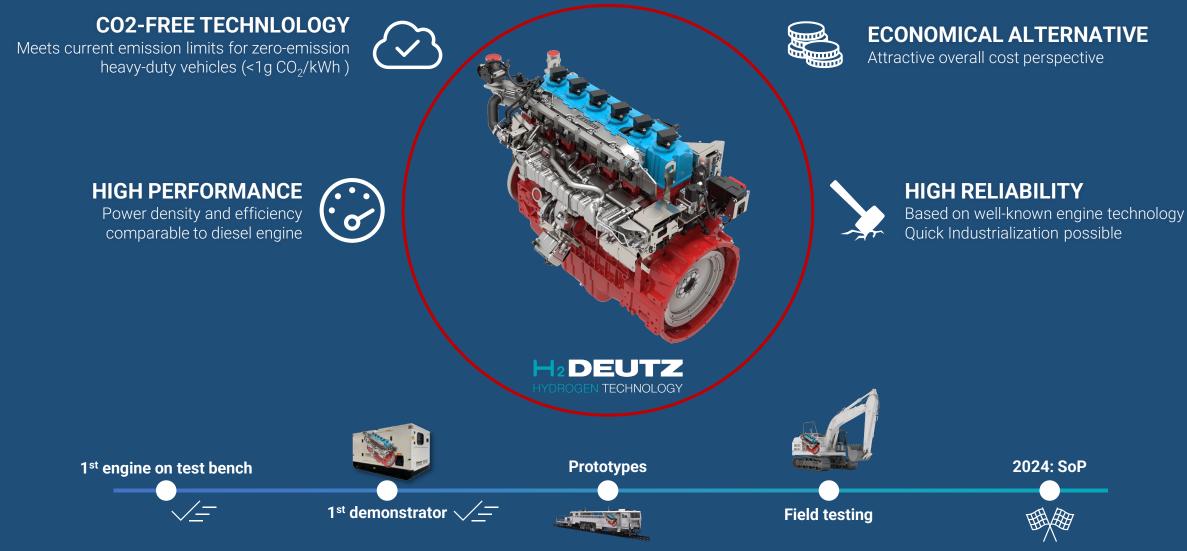
Electrification: DEUTZ 360V powertrains for the CO₂-free use case





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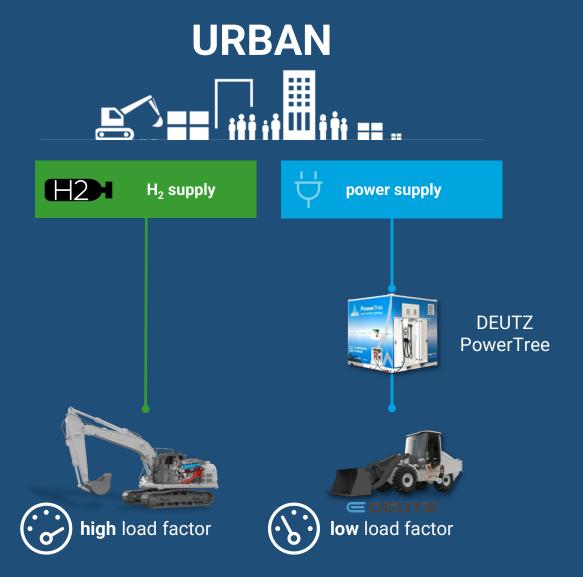
H₂ ICE: DEUTZ 'TCG 7.8 H2' hydrogen engine for the CO₂-free use case

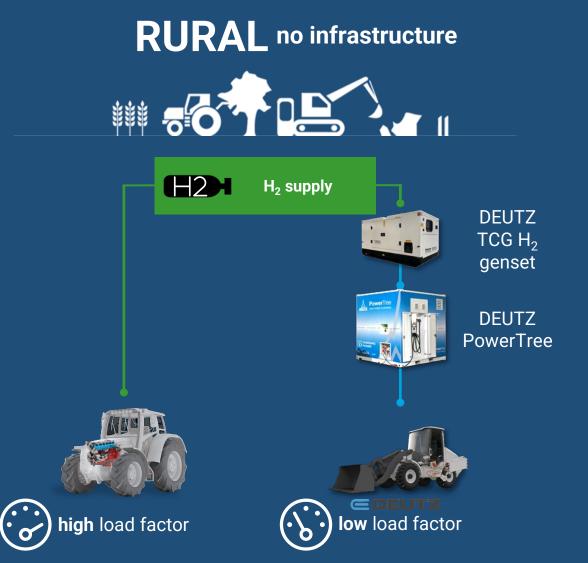


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DEUTZ guarantees zero emission and full power





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Assessment: technology allocation of DEUTZ powertrains until 2050 OTHER DEUTZ ELECTRIC TECHNOLOGY FUEL CELL > 8 L (>225 KW) **DEUTZ** HYDROGEN TECHNOLOGY H₂ ICE 4-8 L (~110-225 KW) **REFUELS ØDEUTZ** < 4 L **HVO CERTIFIED** DIESEL

TRANSITION

2030

2025

IS INEVITABLE



2040

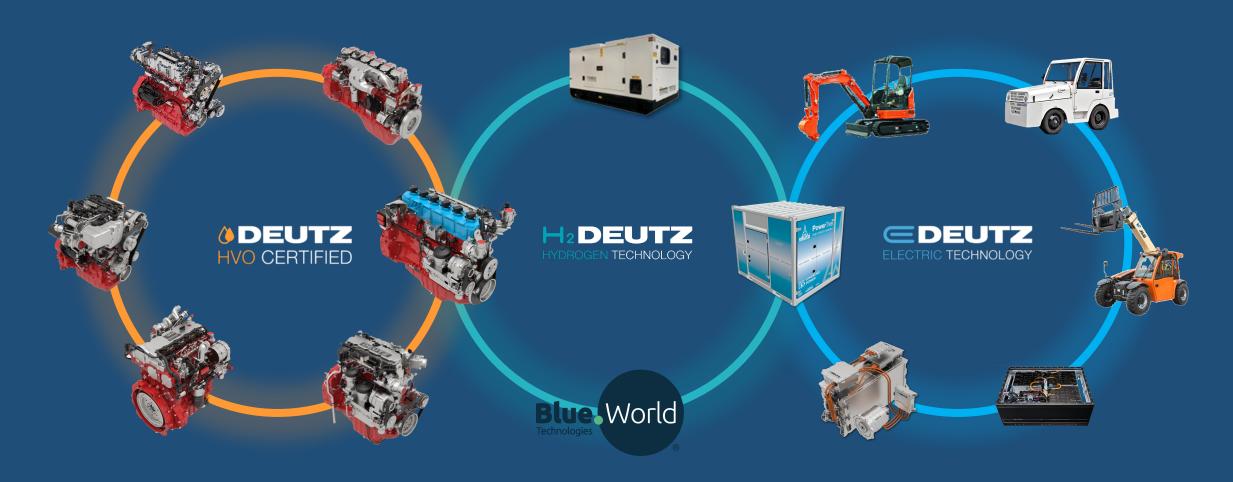
DEUTZ IS PREPARED

2050

starting point

DEUTZ Solutions – making our product ecosystem climate-neutral





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DEUTZ service in the US – we have the network to keep you moving





Page 17

SERVICE

- 9th DEUTZ Power Center (DPC) opened in Howell, MI in April
- DPC Mid-America (Mansfield, TX) is a finalist for North American Distributor of the year.
- Overall network includes strong partners.



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THANK YOU!

Dr. Sebastian C. Schulte CEO DEUTZ AG







