

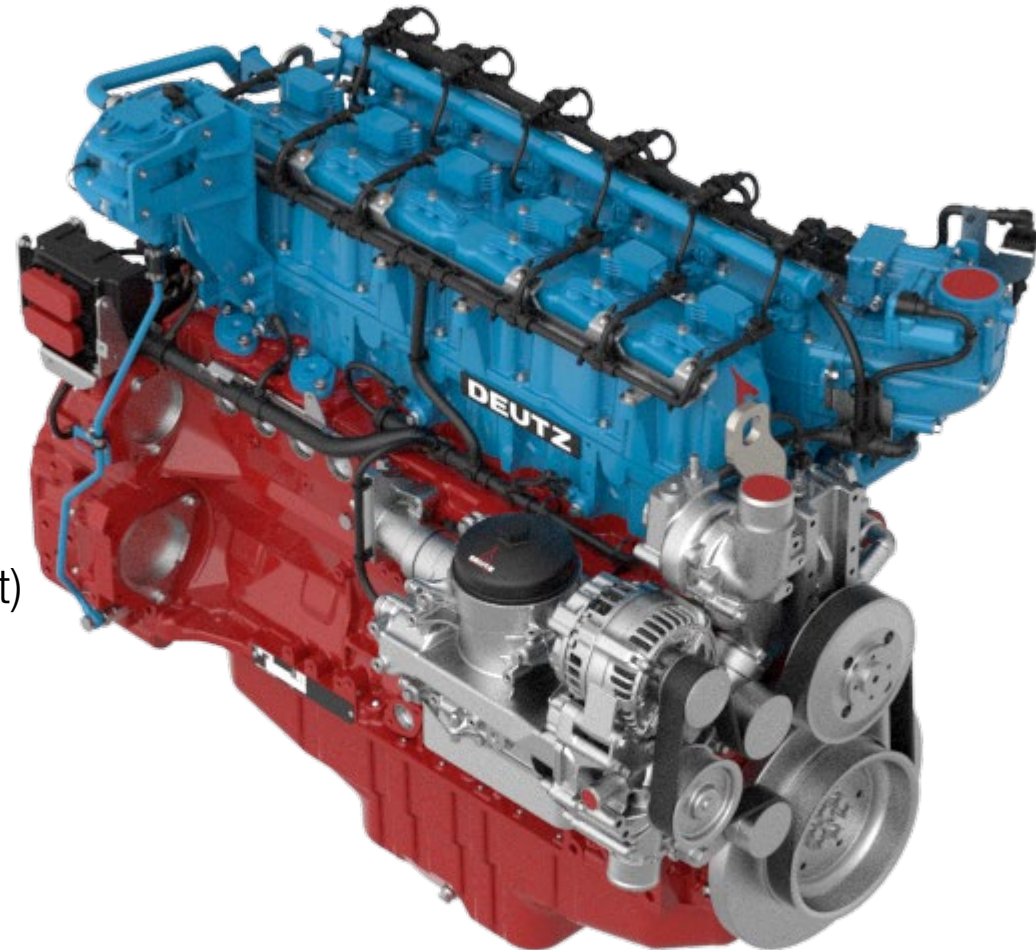
# DEUTZ TCG 7.8 Hydrogen



## CO<sub>2</sub>-free, hydrogen-combustion engine

### TCG 7.8 H2

- Max. power: 220 kW (2200 rpm)
- Max. torque: 1000 Nm (1400 - 1600 rpm)
- Hydrogen quality: min. 98% or higher ISO 14687
- H2 consumption: ~19 kg/h @max. power (~12kg/h GenSet)



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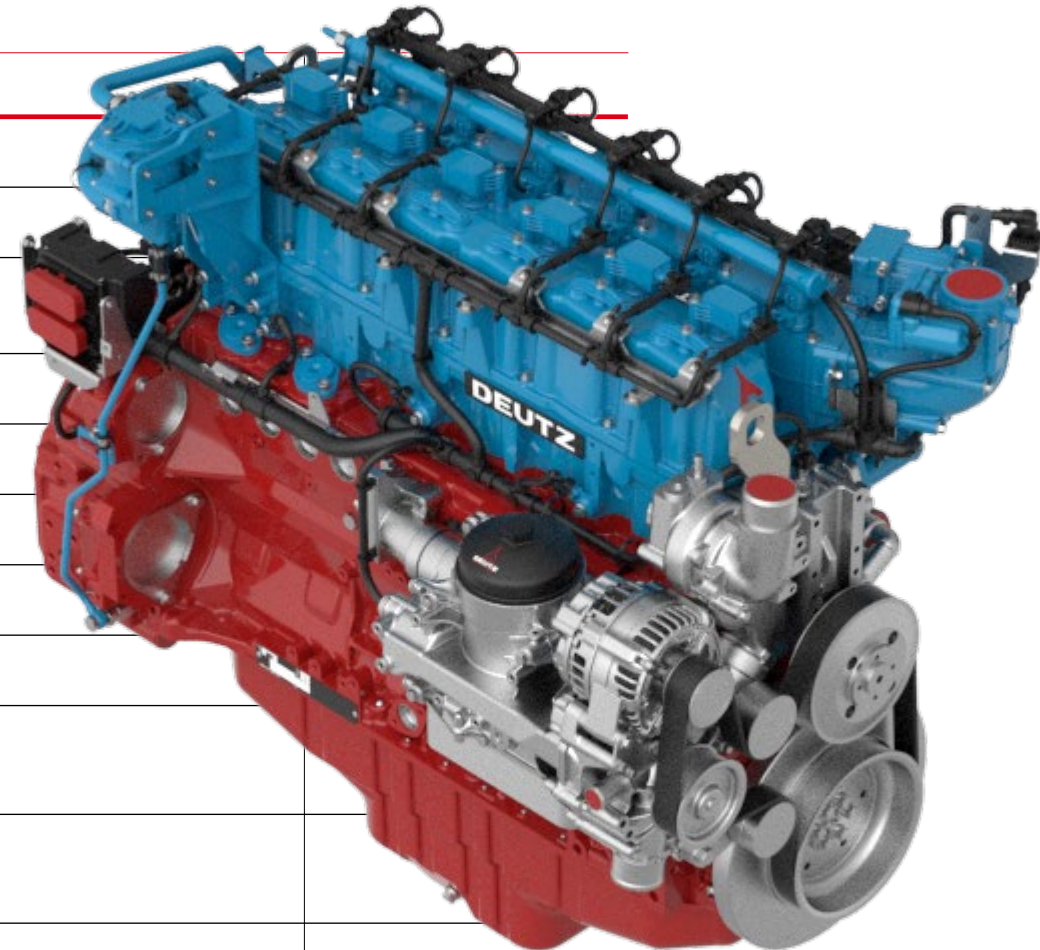
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# DEUTZ TCG 7.8 Hydrogen



## Engine Specification

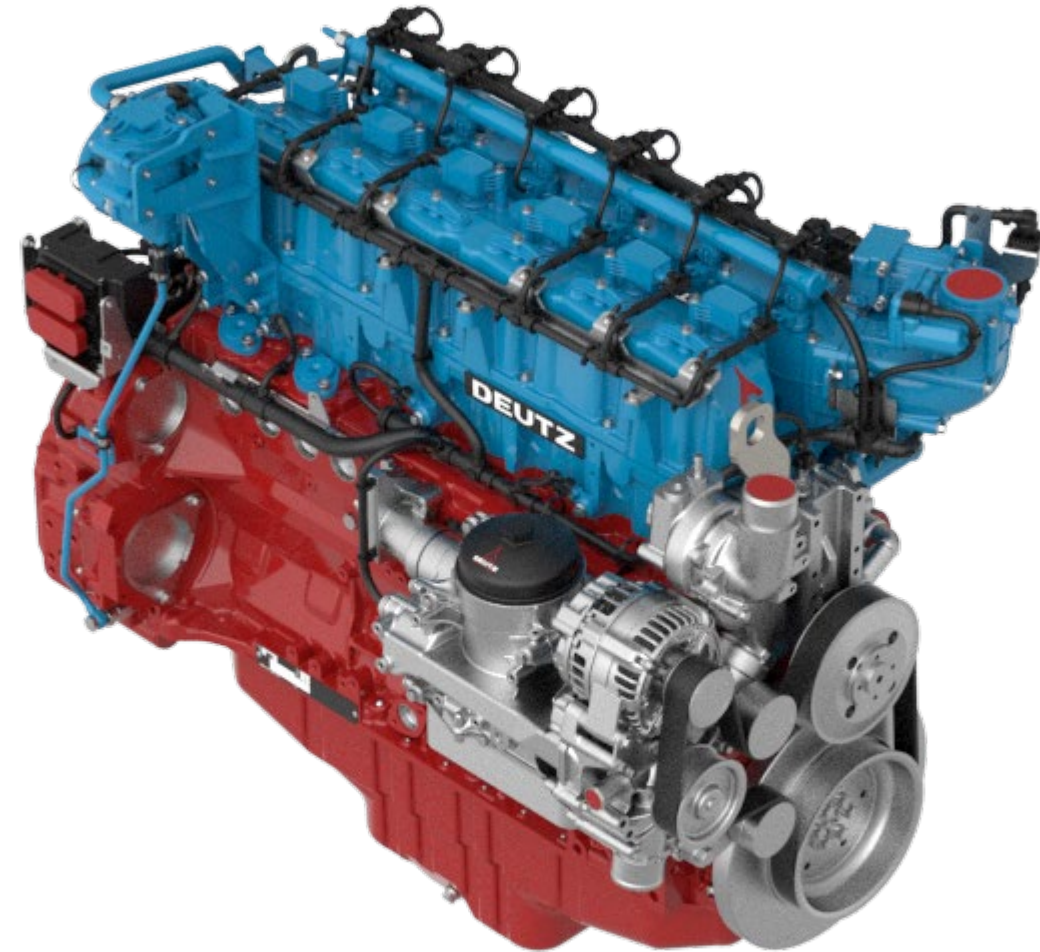
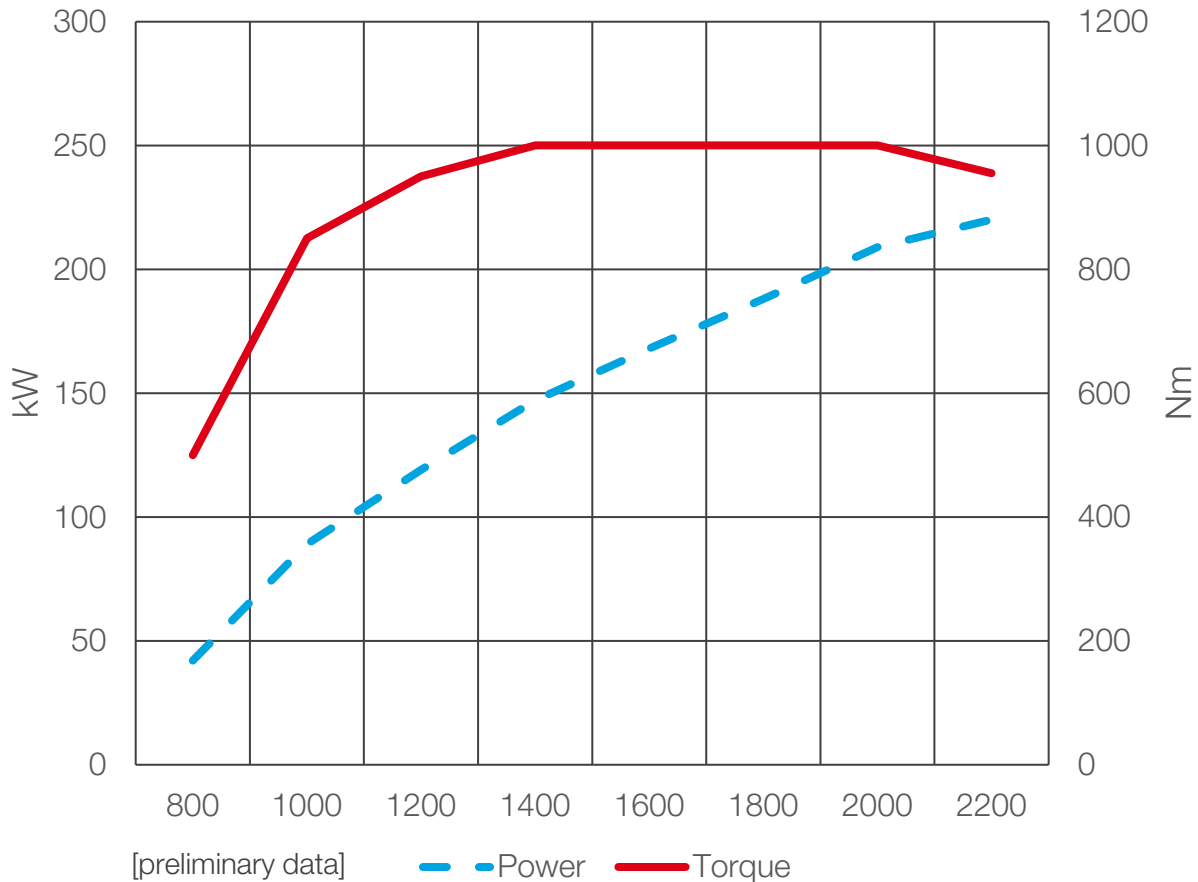
Engine Specification		TCG 7.8 H2			
No. of Cylinders		6			
Displacement	l	7,755			
Hydrogen quality	ISO 14687	min. 98 % or higher			
Pressure interface	bar	30			
Max. Power Output	kW	220			
At Speed	min <sup>-1</sup>	2200			
Max. Torque	Nm	1000			
At Speed	min <sup>-1</sup>	1400 - 1600			
H2 Consumption (12 kg/h GenSet)	kg/h	up to ~19 @max. power			
Power generating @50 Hz / 1500 rpm (GenSet)	kW	~150kW			



# DEUTZ TCG 7.8 Hydrogen



## Performance (Power + Torque)

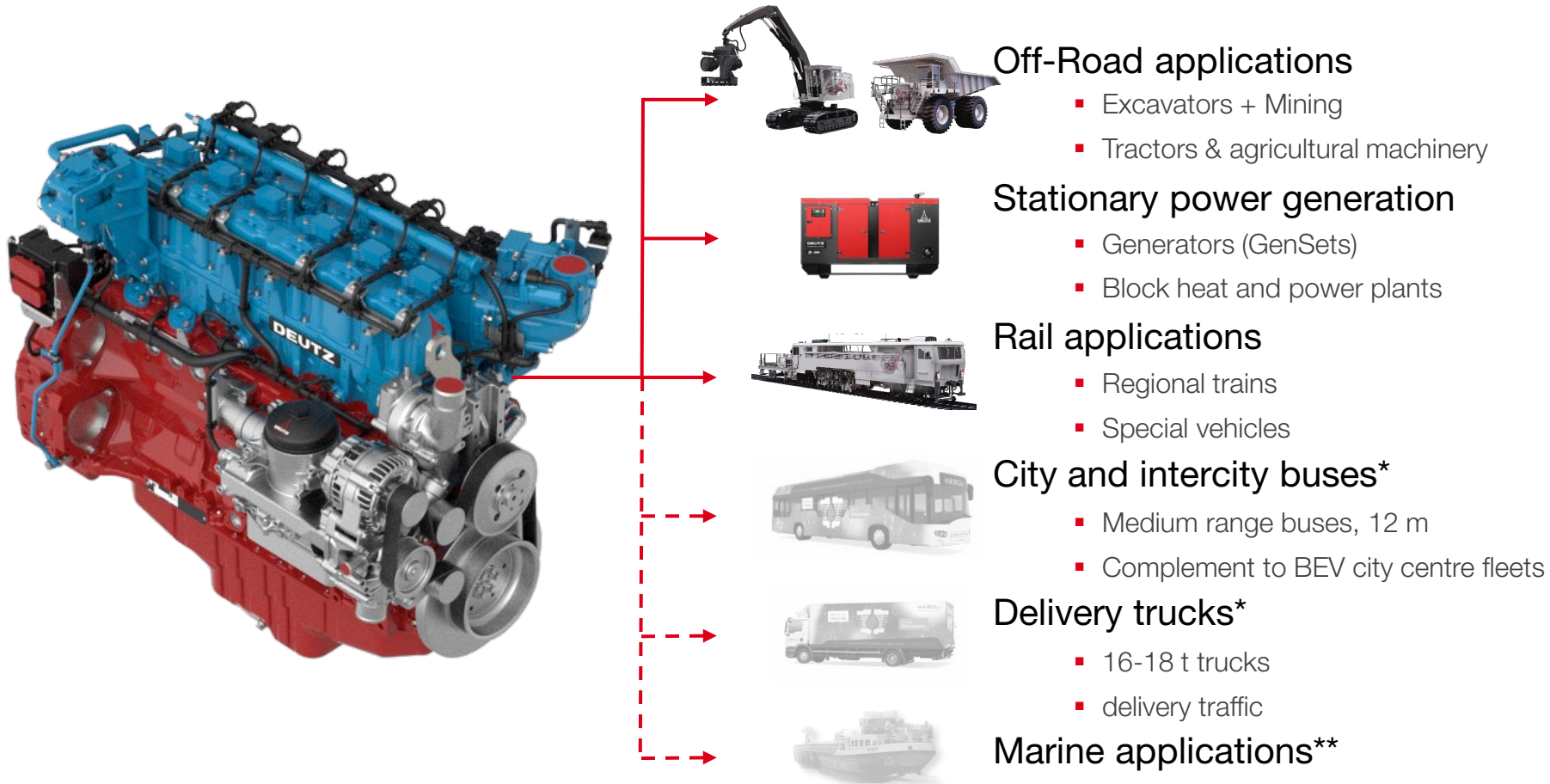




# DEUTZ TCG 7.8 Hydrogen



## Wide Range of Applications

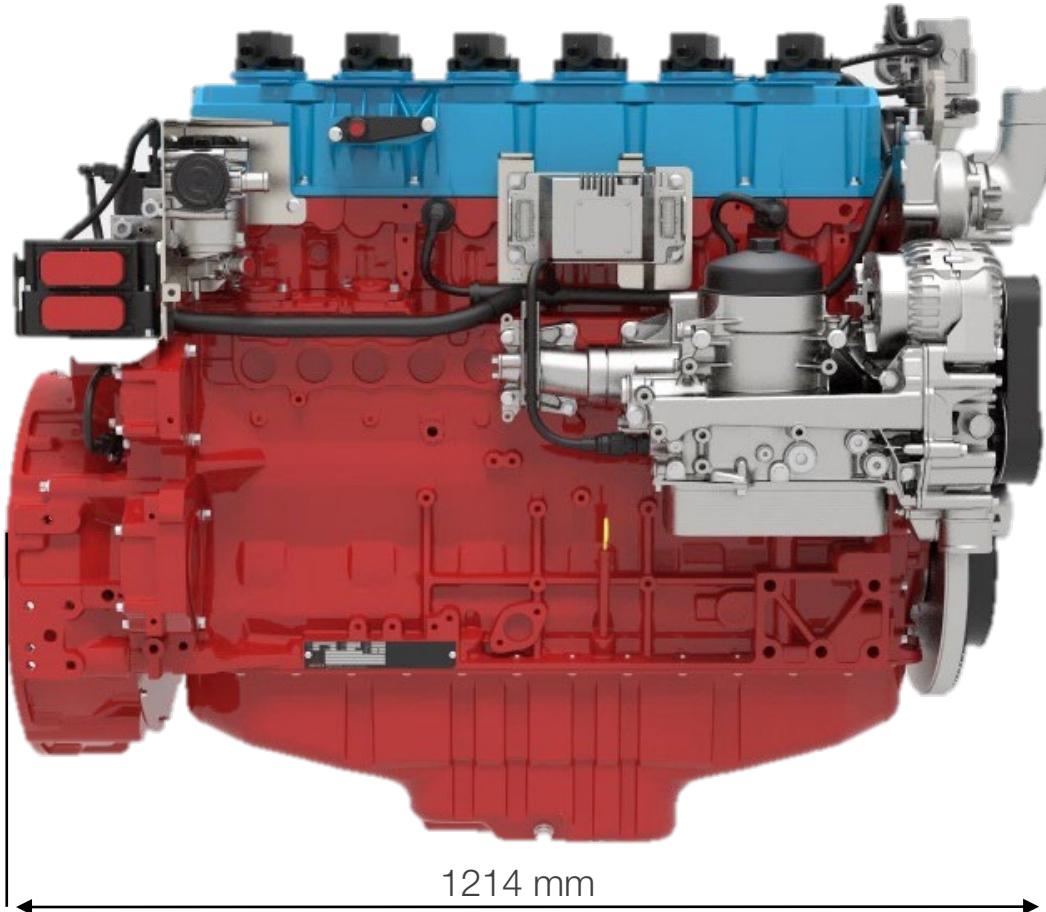
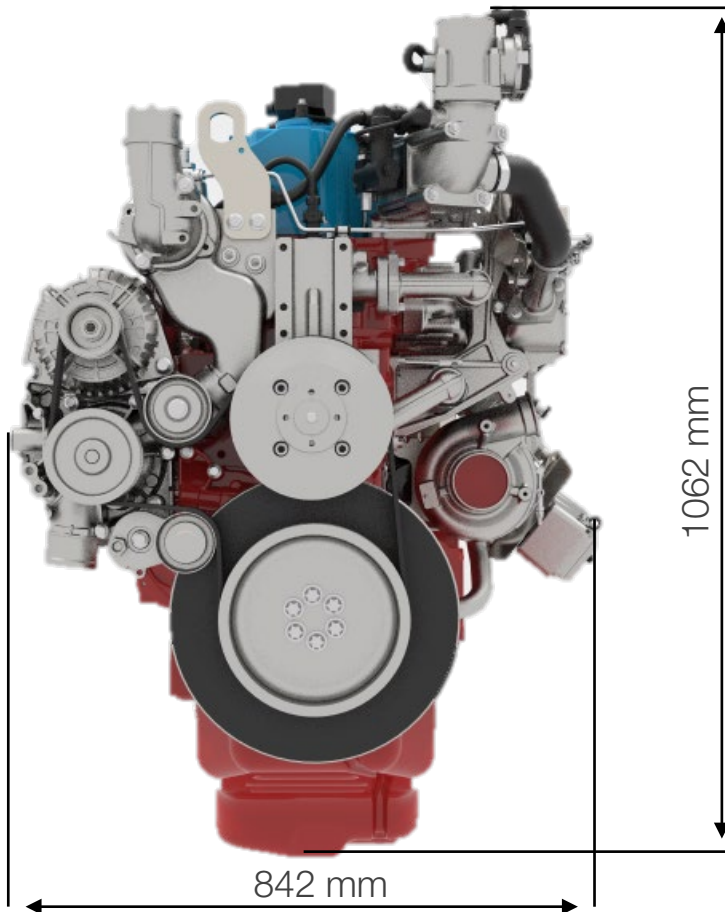


\* Development on request  
\*\* not foreseen yet

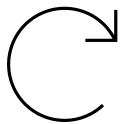
# DEUTZ TCG 7.8 Hydrogen



## Dimensions



220 kW  
2200 rpm



1000 Nm



~740 kg  
~90 kg EAT

# DEUTZ TCG 7.8 Hydrogen



## Cost-Efficient Low Emission Alternative to Fuel-Cells & Batteries

- CO<sub>2</sub>-free\* technology
- NO<sub>x</sub>-emissions fulfil EU standards
- Economic alternative to other zero-emission technologies
  - Overall cost comparable to Diesel
  - Initial invest substantially lower than Fuel-Cell & Batteries
  - Retro-Fit to existing fleets possible
- Available as of 2024 for selected applications
- High reliability due to proven base engine technology
- Growing H<sub>2</sub>-infrastructure
- Existing service network for combustion engine

\*according to *forthcoming* UN Regulation No. 49-07 series referenced by Euro VI Regulation (EC) 595/2009 and its amending regulations