

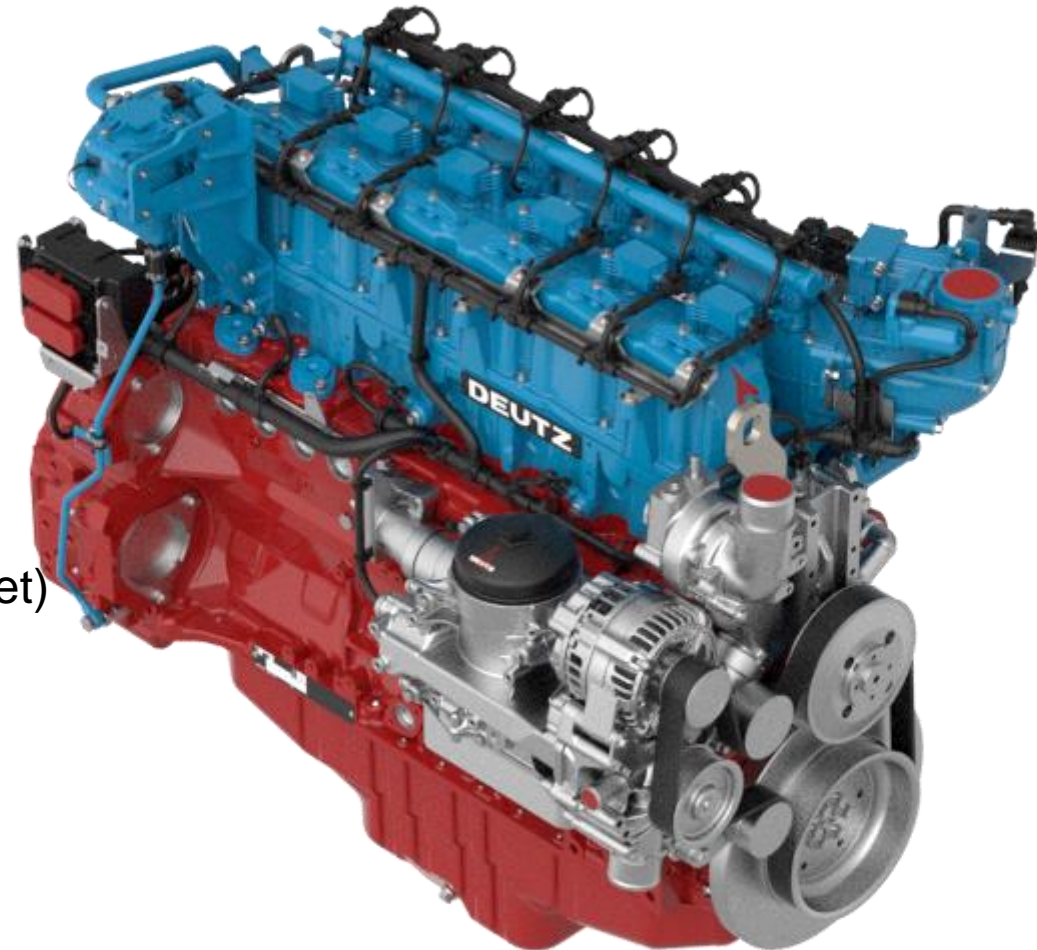
DEUTZ TCG 7.8 Hydrogen



Hydrogen-combustion engine

- 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)

TCG 7.8 H2



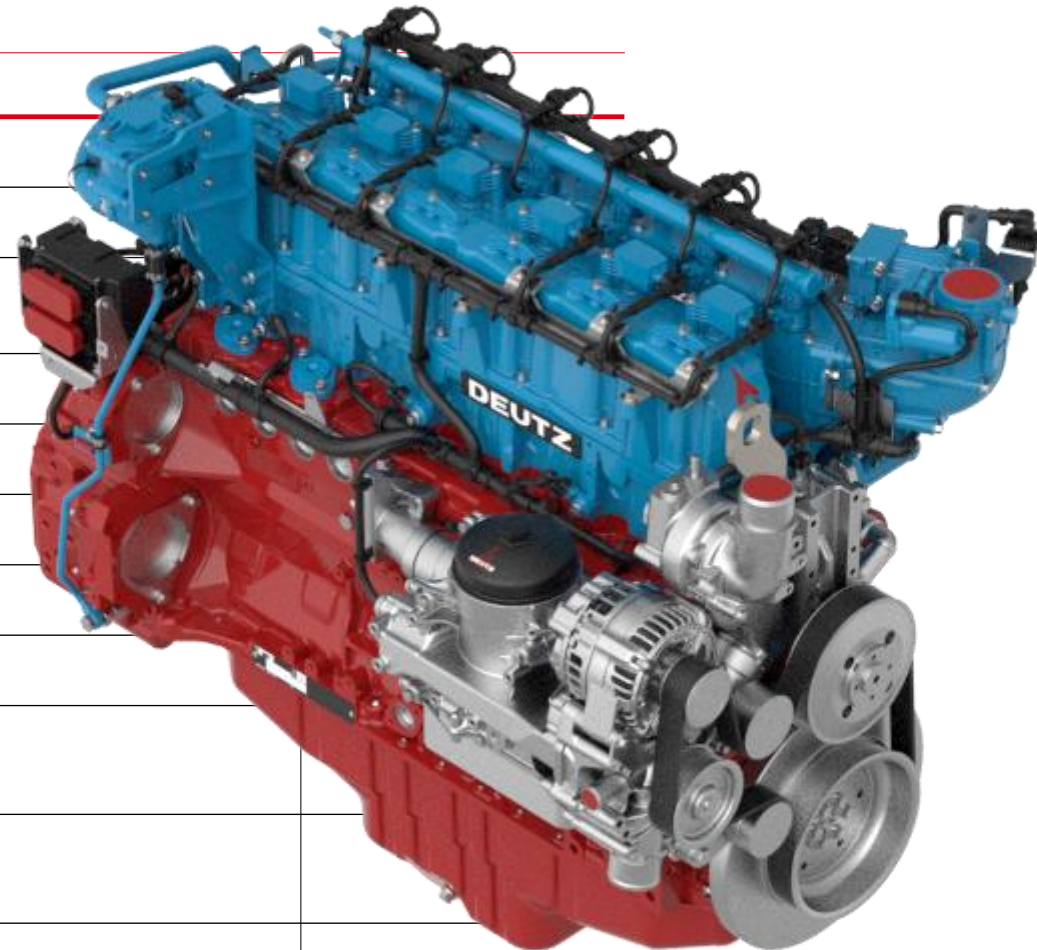
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Engine Specification

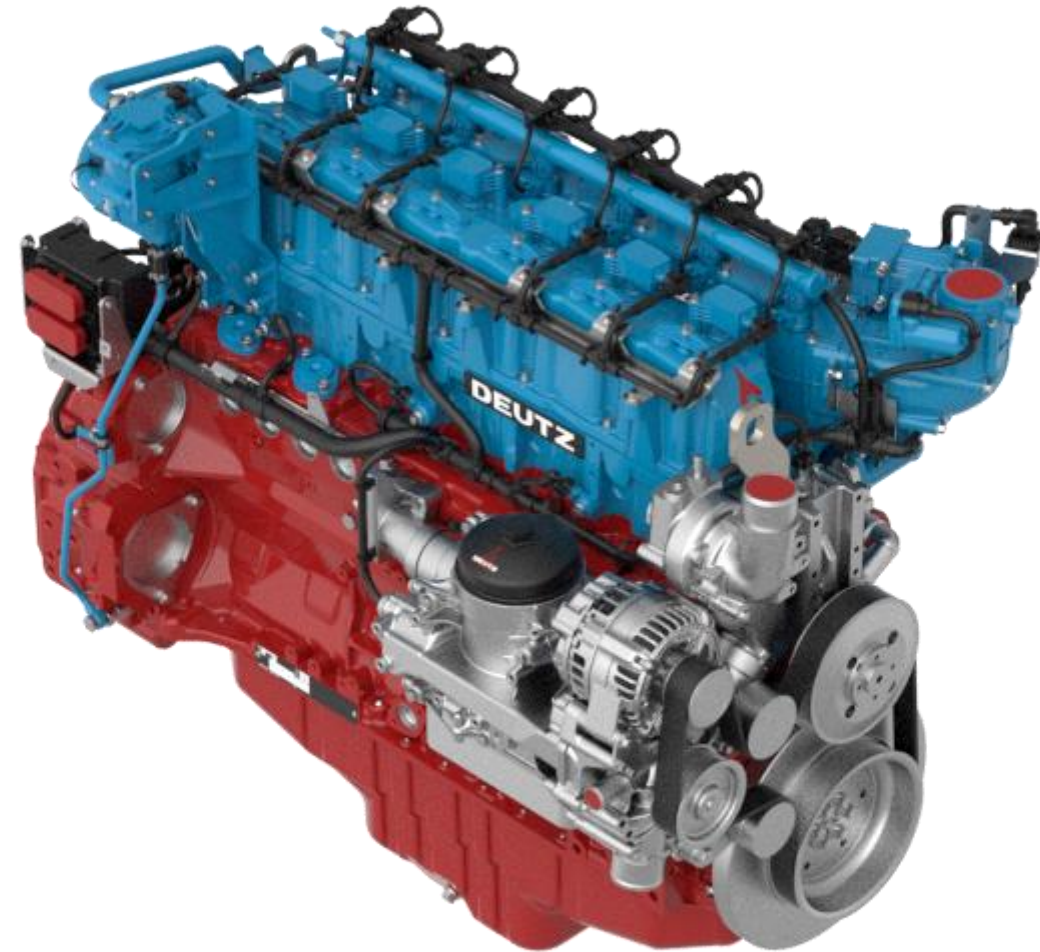
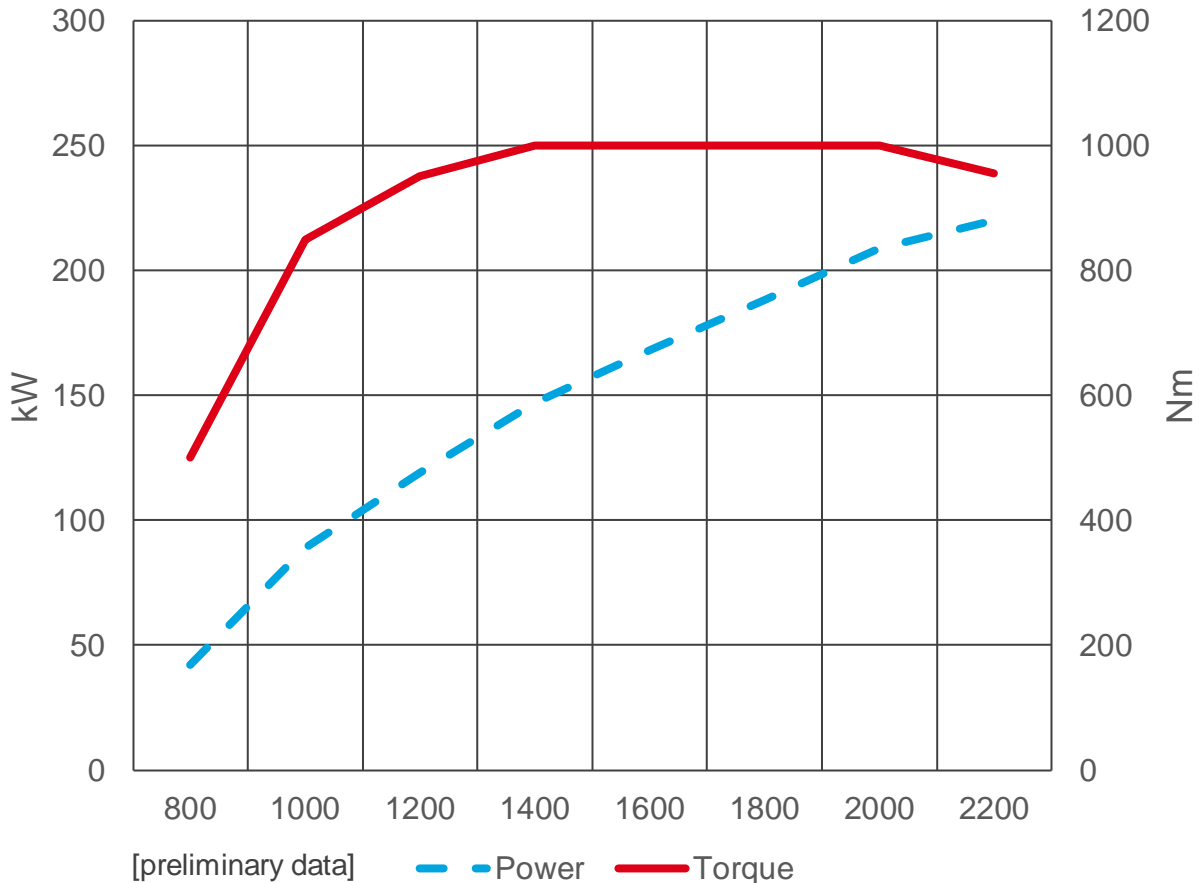
Engine Specification		TCG 7.8 H2			
No. of Cylinders		6			
Displacement	l	7,755			
Hydrogen quality	ISO 14687	min. 98 % or higher			
Pressure interface	bar	25			
Max. Power Output	kW	220			
At Speed	min ⁻¹	2200			
Max. Torque	Nm	1000			
At Speed	min ⁻¹	1400 - 1600			
H2 Consumption (12 kg/h GenSet)	kg/h	up to ~19 @max. power			
Power generating @50 Hz / 1500 rpm (GenSet)	kW	~150kW			



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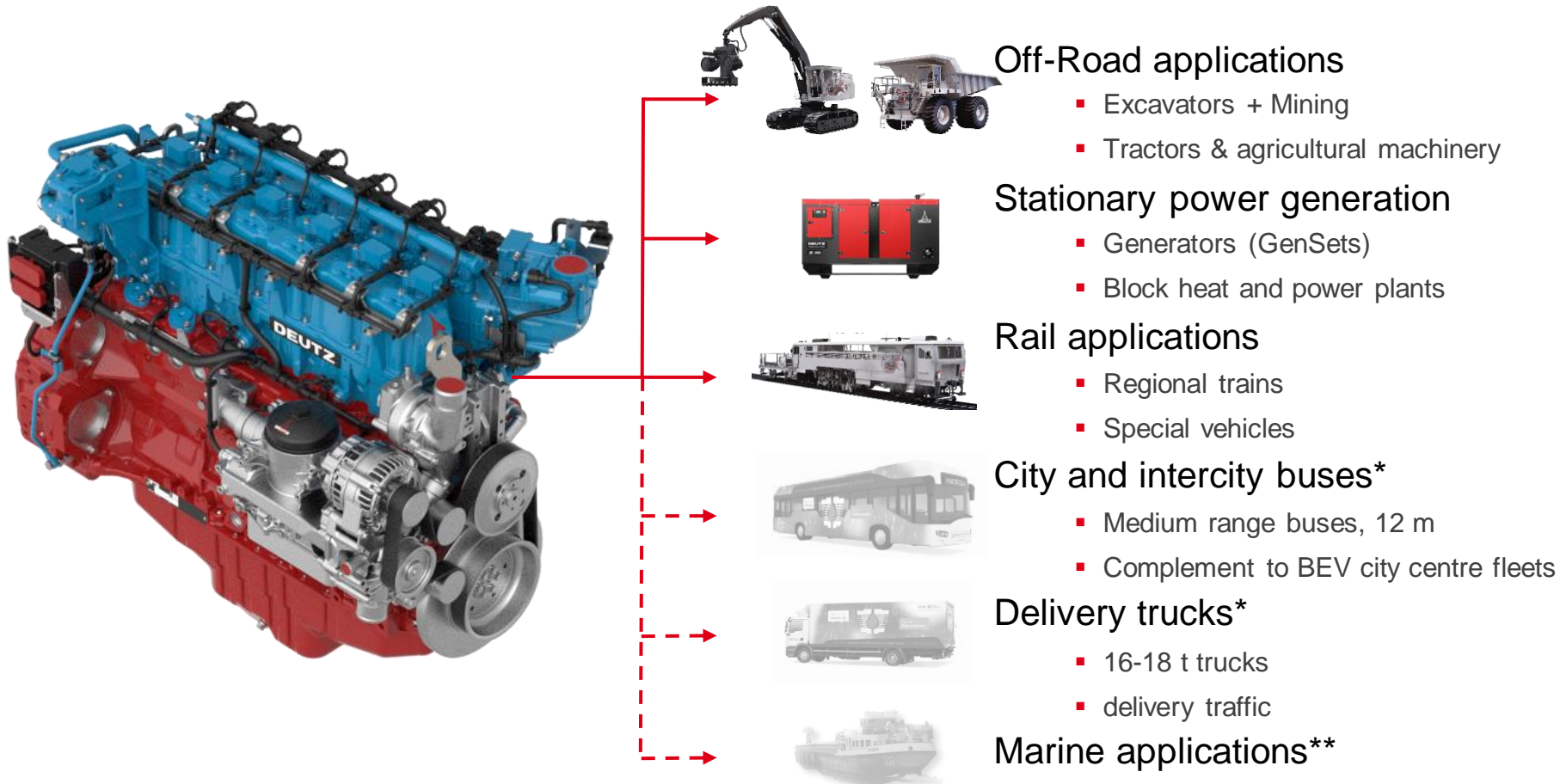
Performance (Power + Torque)



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Wide Range of Applications

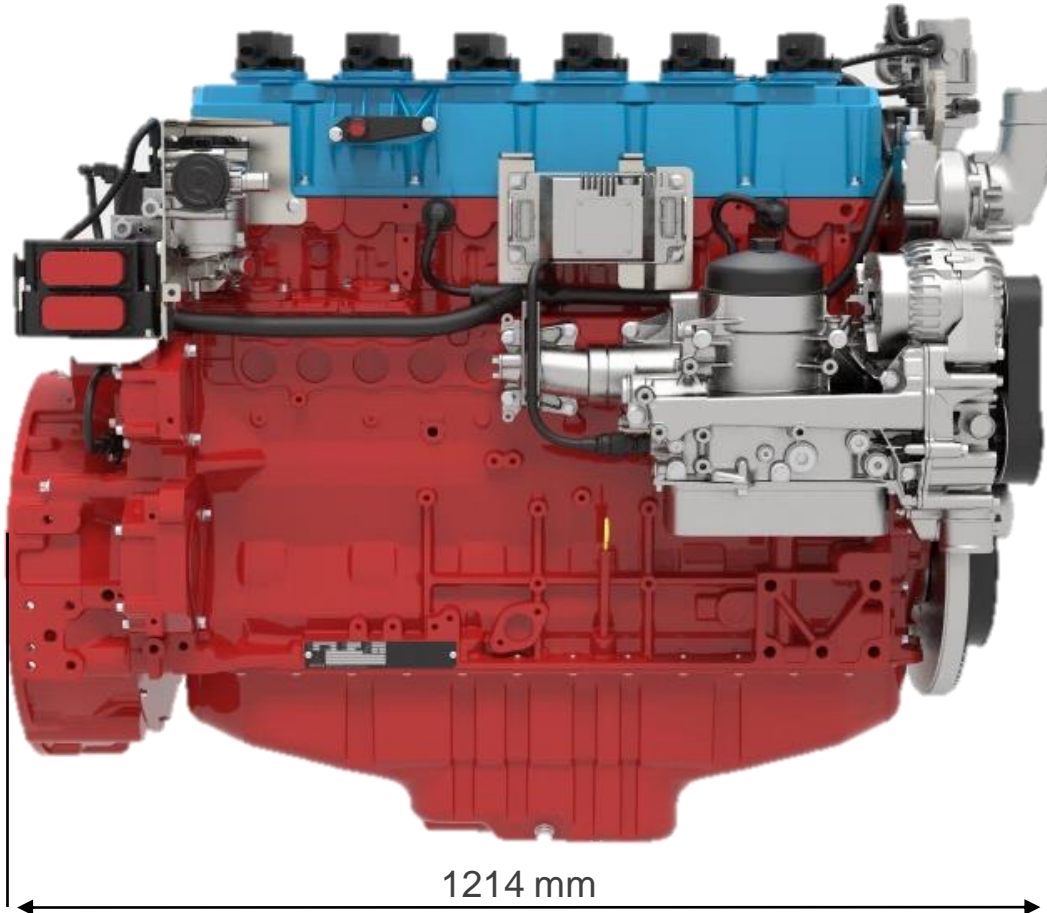
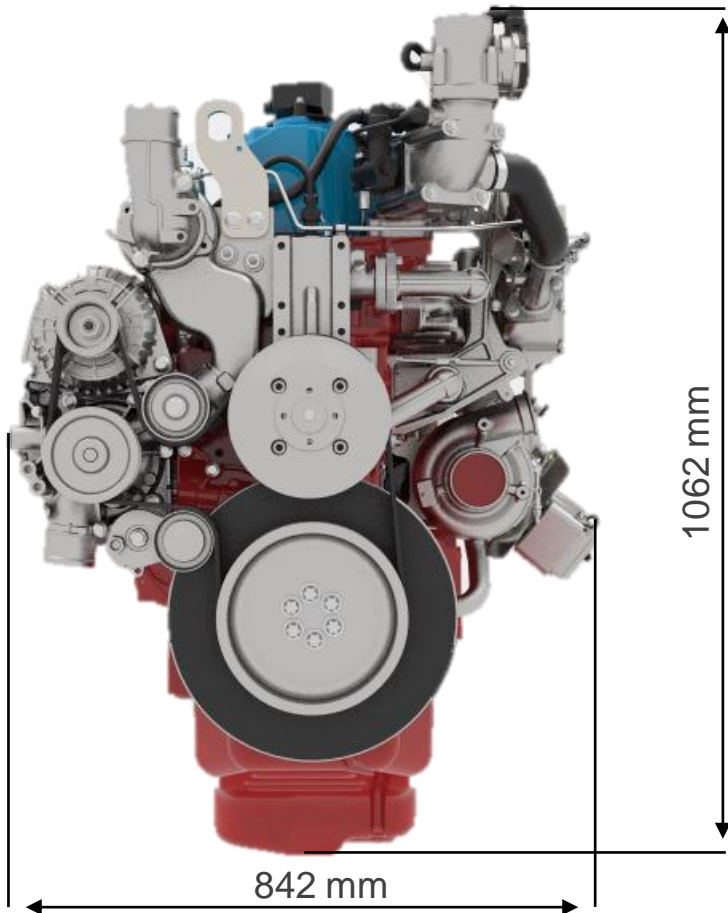


* Development on request
** not foreseen yet

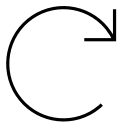
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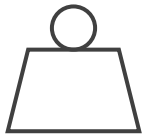
Dimensions



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

- Hydrogen technology
- NO_x-emissions fulfill 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 H₂-infrastructure
- Existing service network for combustion engine