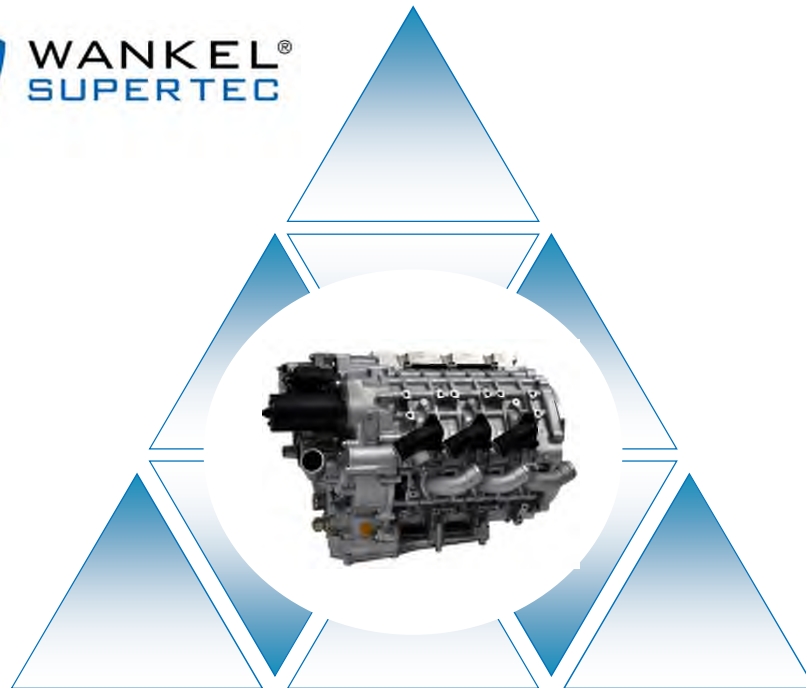




Hydrogen & Multi-fuel Engines for Sustainable Power & Mobility



Existing fields of business:

- Light Aircraft & Drones
- Power Generation
- Marine

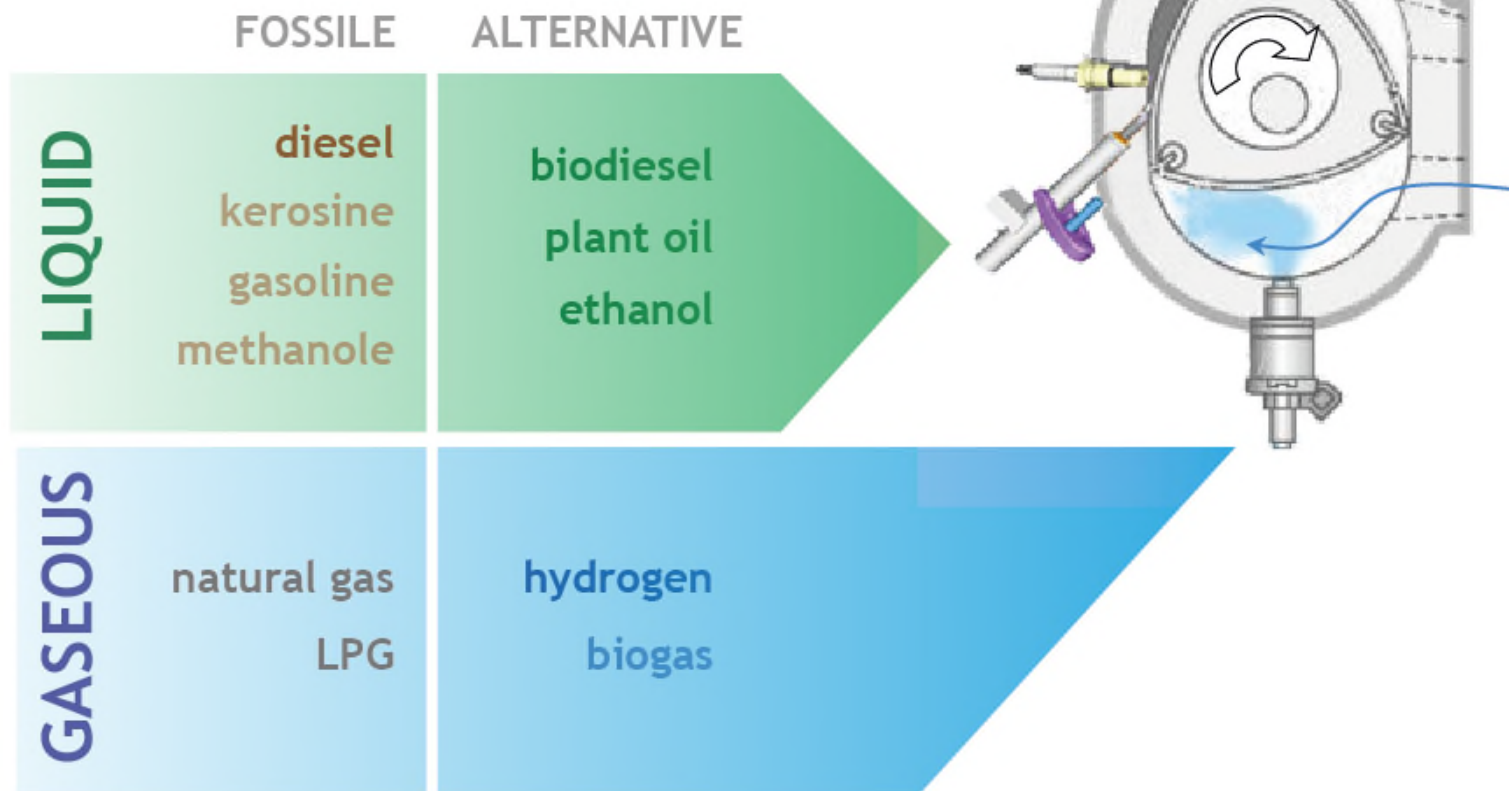
New field of business:

- Hydrogen engines & dual-fuel range extenders for electric vehicles

- Wankel SuperTec GmbH („WST“) is specialized in the development of advanced rotary engines
- Established some 20 years ago out of Cottbus Technical University, it is technology leader in its field
- WST is the only company producing rotary engines that can run on Diesel fuel
- Combines attractive, scalable existing business with high growth potential in clean mobility
- New business model and successful restructuring after change of management in mid-2018:
 - ⇒ From research institute towards industrial company

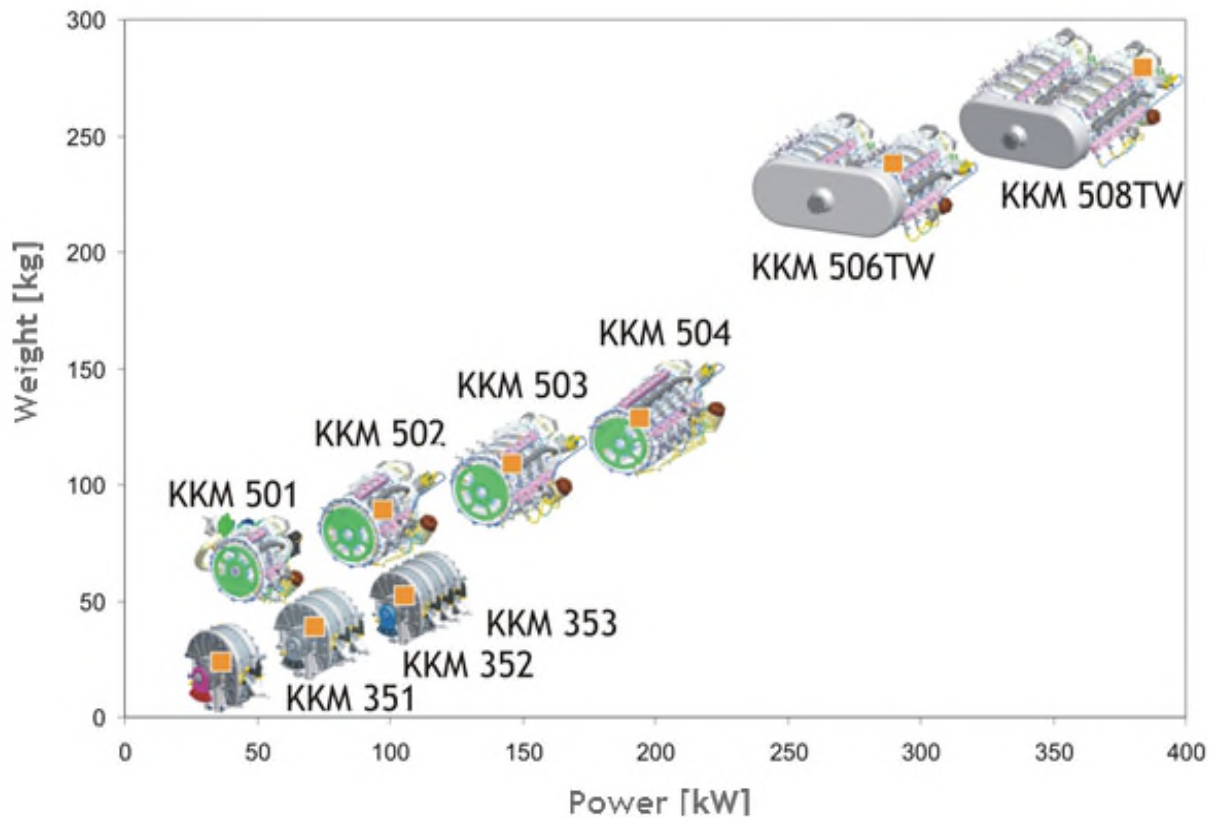
Special Features of WST Rotary Engines

- Multi-fuel Capabilities



Existing Engine Series

Weight to power ratios of WST's KKM 350 and KKM 500 series engines



(power output for use with conventional fuels)

All WST-engines feature

- high reliability
- excellent power to weight ratio
- low vibrations
- multi-fuel capability
- modular design
- WST's own ECU (hardware and software)
- patented sealing and lubrication designs
- increased efficiency and reduced exhaust through proprietary fuel injection and ignition technology

Existing Fields of Business: Light, Small and Low-vibration, High-power Diesel Engines



Wherever excellent power-to-weight ratio, low vibrations and operation with Diesel fuel are important - examples:



Light aircraft & Drones

Equator Aircraft's hybrid amphibious airplane, powered by WST KKM 352 Diesel engine (picture courtesy of Equator Airplane Ltd.)

Power generation equipment II

Deutsche Bahn, Germany's railway company, has since 2015 equipped a total of 60 Diesel lokomotives with our auxiliary power systems, using WST KKM 351 Diesel engine



Power generation equipment I

compact and lightweight 30 kVA power generation unit, equipped with KKM 501 Diesel engine

Marine

small & light C-Fury RIB powered by WST KKM 352 Diesel engine (picture courtesy C-Fury Ltd.)



New Field of Business: Dual-fuel Range Extenders for Electric Vehicles

Main Features

- With rotary engines at the core
- Driven by hydrogen
- But also able to run on conventional fuels

Main Advantages

Over pure battery cars:

- Allows reduction of battery size & costs
- No rare materials needed
- No dependency on charging stations, no long charging stops, no use of conventional electricity

Over fuel cell cars:

- Does not depend on supply of hydrogen
- No rare materials needed
- Easy & cheap to produce and repair
- long life-time

Over conventional engines & range extenders:

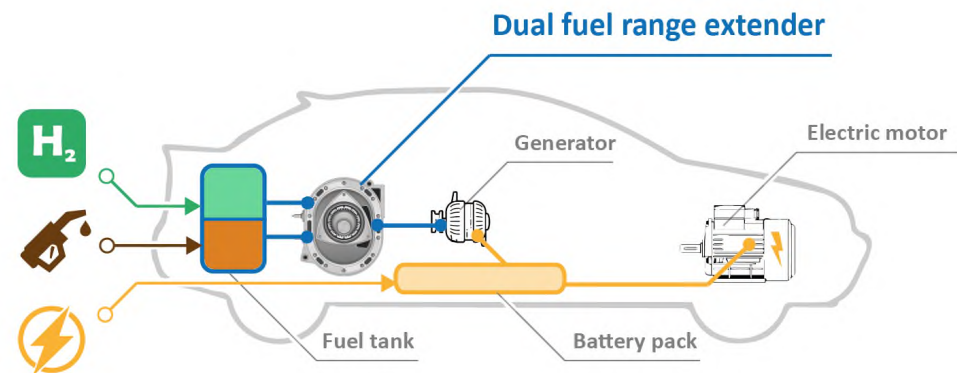
- Pollution-free if run on hydrogen
- Small, light, low vibrations

disruptive
technology
for
sustainable
mobility



Above: WST range extender prototype

One car - 3 sources of power

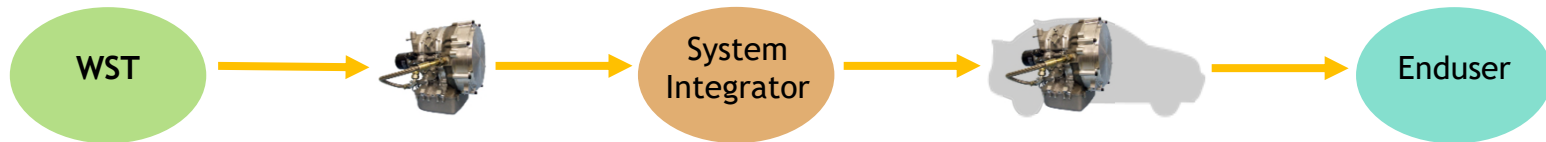


Ways to Market

2 successfully applied approaches

1. Engine sales to system integrators

- Successfully applied for drones & aircraft, marine and power generation
- Intended also for sale of range extender systems to automotive OEM's, particularly younger manufacturers of electric vehicles
- Long-lasting partnerships with customers who build their products around our engines
- Leads to growing sales as customers develop their business



2. Sourcing of system components, equipment with engines and sale to end-users

- Successfully applied for power generation equipment sales to Deutsche Bahn
 - Intended for increase of sales of power generation equipment
- Provides second, more pro-active sale of dual-fuel range extender systems
- Sourcing of suitable electric vehicles from strategic partners
 - Equipment of these vehicles with dual-fuel range extender system
 - Sale of complete vehicles to end users



- New and existing public subsidy programmes offer excellent chance to finance our further growth (several applications pending respectively under application)
- Operating profits and subsidy applications complemented by presently ongoing crowdfunding campaign

www.fundernation.eu/investments/wankelsupertec

Or

www.wankelsupertec.de/en_ir.html

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