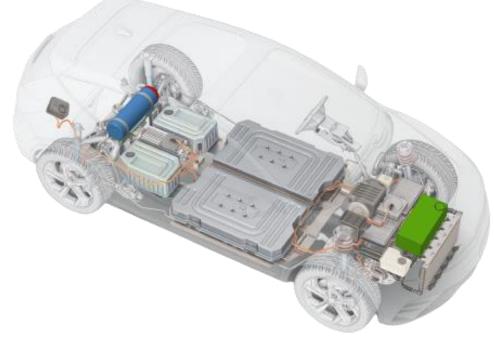
The Future of Battery electric driven Vehicles

[Date: 08.11.2023 / Version: 10.2]





What is the challenge with electric vehicles and why does the environment influence the range?

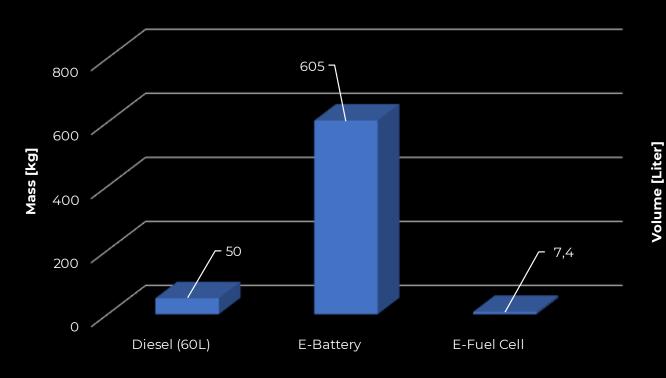
Mass and Volume of Energy Medium / Mid Class E-Cars

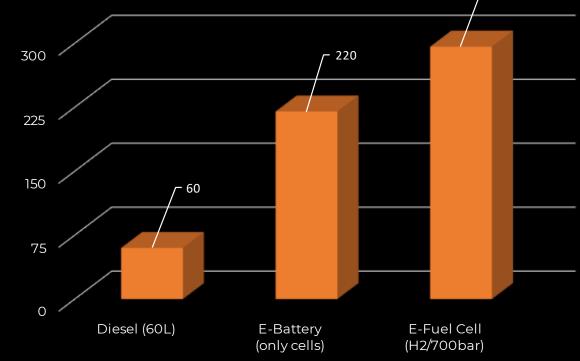
60L Diesel equivalent (147 kWh)

Consideration of different propulsion efficiencies in urban traffic

Propulsion efficiency Diesel 25% E-Battery 90%

E-Fuel Cell 60%



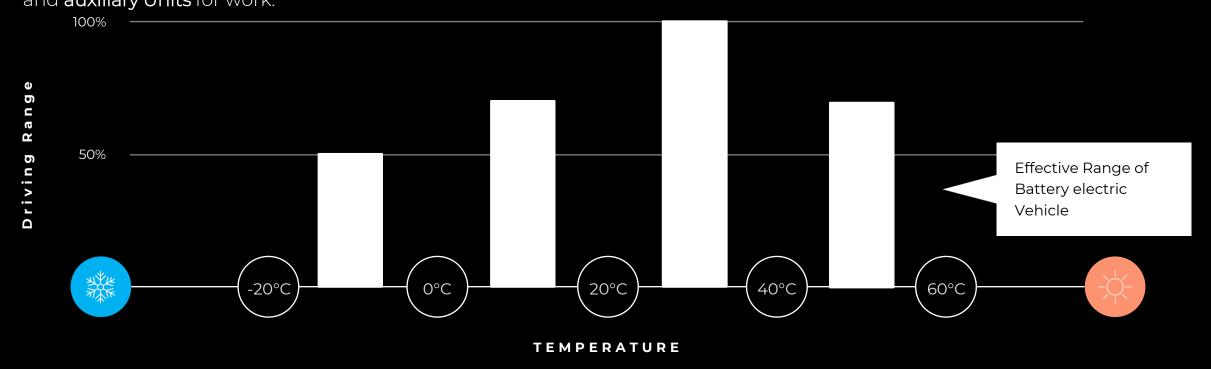


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We are significantly improving the range of E-Vehicles by integrating our H2 Power Box

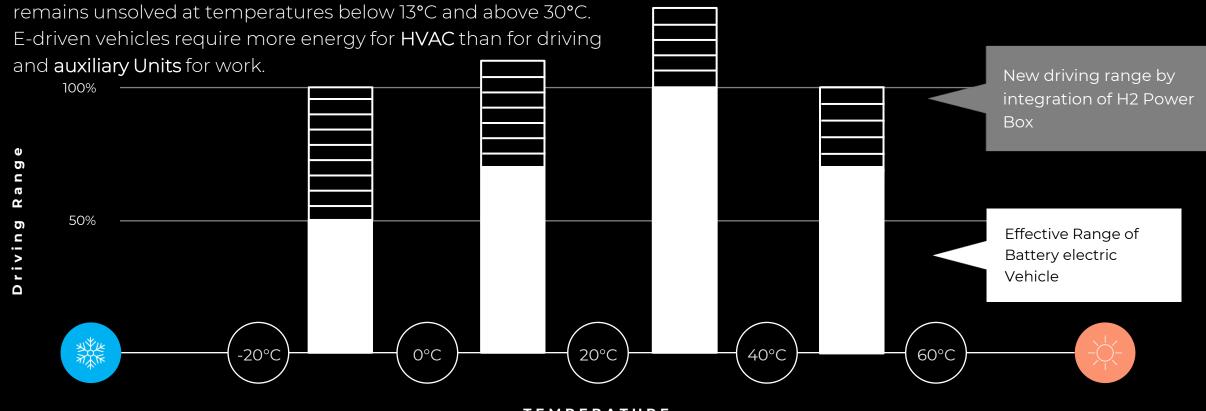
The range problem of E-driven vehicles

remains unsolved at temperatures below 13°C and above 30°C. E-driven vehicles require more energy for HVAC than for driving and auxiliary Units for work.



We are significantly improving the range of E-Vehicles by integrating our H2 Power Box

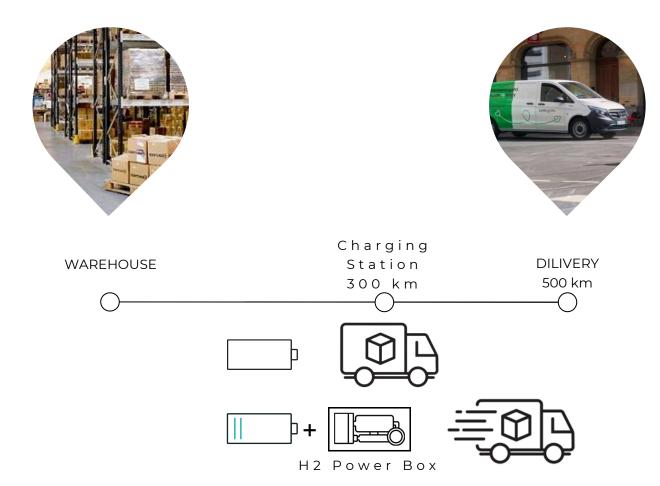
The range problem of E-driven vehicles



We enable E-Mobility for everyone together with our Fuel Cell System

H2 Power 'n' Heat is a pioneer on the field of green Hydrogen Solutions. We develop innovative mobile Hybrid Systems to make E-Mobility more suitable for everyday use.

We are significantly improving the range of E-vehicles by integrating our H2 Power Box



05

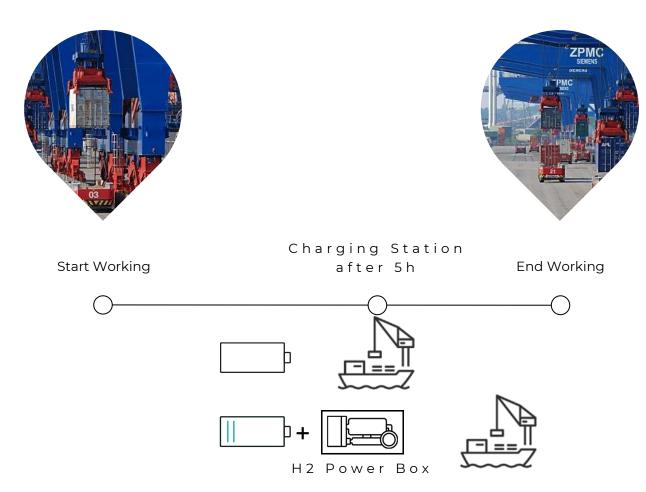
H2 Power 'n' Heat GmbH

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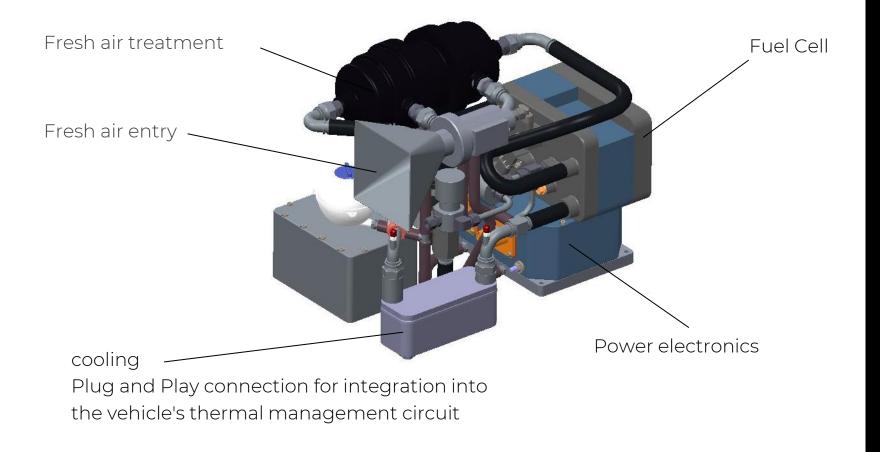


06

H2 Power 'n' Heat GmbH

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The H2 Power Box is light and can be retrofitted in all electric vehicles



Performance output

Output 30 kW

electr. Output 16 kW

therm. Output 14 kW

Energy capacity up to 150 kW/h

Technical Data

Dimension $50 \times 36 \times 36$ [cm]

Volume 65 liter Weight 35 kg

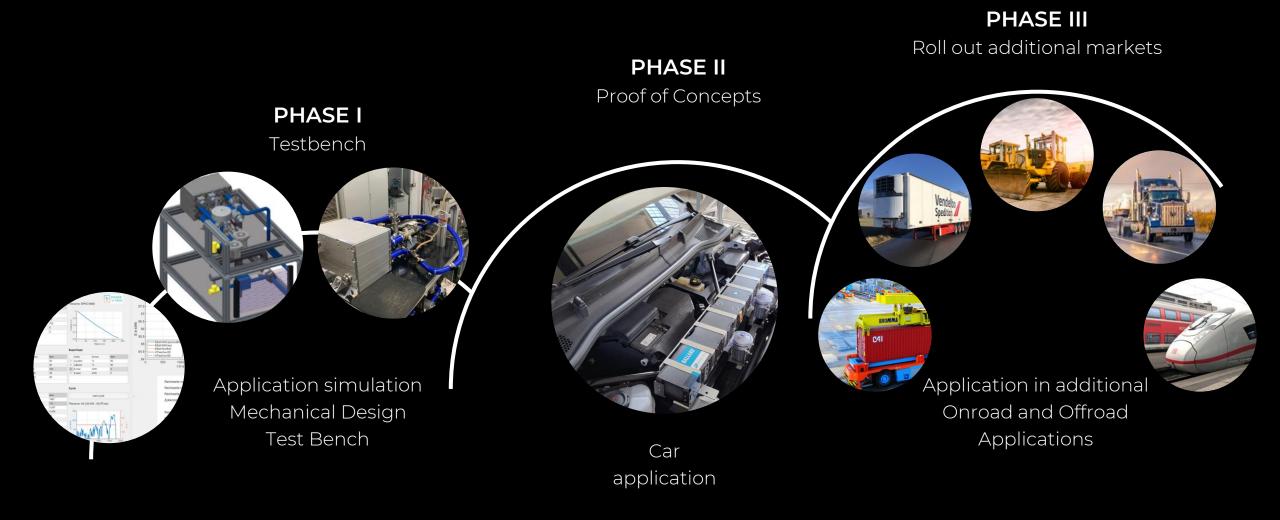
Tank system

Volume 2x 120 liter

Weight 55 kg per

Bottle

Vision of H2 Power 'n' Heat GmbH



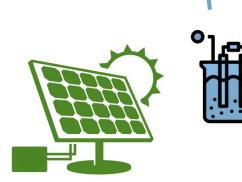
Existing infrastructure can be used for poviding Hydrogen Bottles to Endusers





Selling the hydrogen:

- retail trade (e.g. hardware stores)
- Car service station
- Charging parks / Gas stations
- local gas dealers
- ... and much more ...



Hydrogen production from renewable energy

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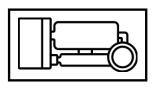
Start of establishing a reference region in Berlin-Brandenburg (2024)

Goals:

- 2 year test period
- 10 different commercial vehicles
- 500.000 km



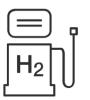
Cars / Delivery Trucks / Train



H2 Power Box



Workshop for Installation and Service



Infrastructure

First Customer Projects in 2024





OBERLIN WERKSTÄTTEN







Development partner



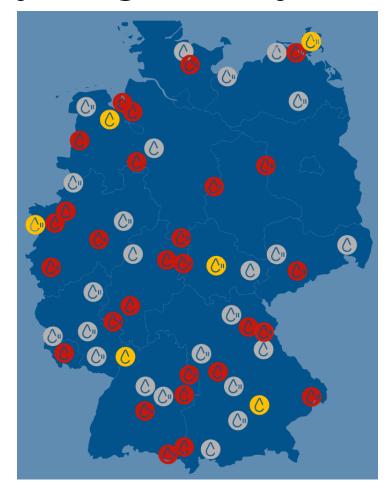




Currently in discussions

- Service station operators
- Hydrogen producer and distributors
- Gas bottle developer and producer

Expansion preferably into nationwide Hydrogen Project regions (2025/2026)











First Customer Projects in 2024





OBERLIN WERKSTÄTTEN







Development partner



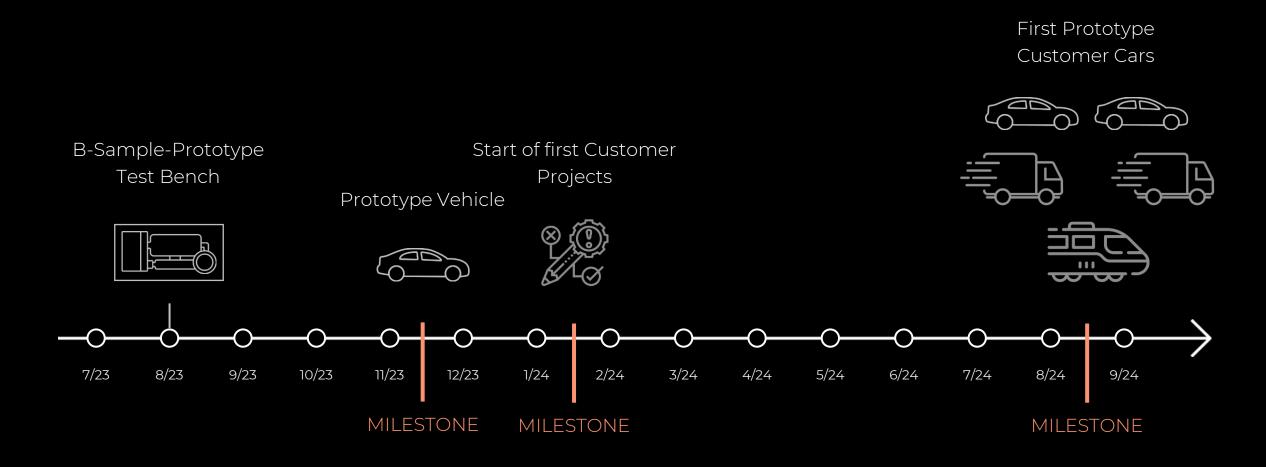




Currently in discussions

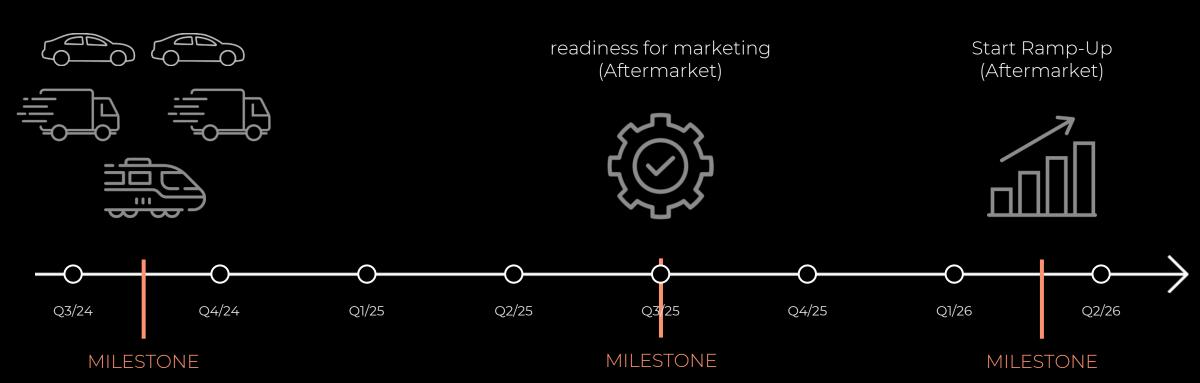
- Service station operators
- Hydrogen producer and distributors
- Gas bottle developer and producer

Our current goals



Our current goals

First Prototype Customer Cars







H2 Power 'n' Heat GmbH

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