

**DEVINN**

**COMPANY  
INTRODUCTION**



# DEVINN Overview



**160**

Engineers and experts  
in automotive and  
energetics for your  
project



**7+**

years of experience with  
hydrogen technologies



**over 100**

Completed  
development projects



# Portfolio

Fuel Cell System Integration, hydrogen and battery powertrains

Energy Storage, Off-Grid Solutions, Grid Balancing

Hydrogen Filling, Storage and Transport

Hydrogen Power Generators

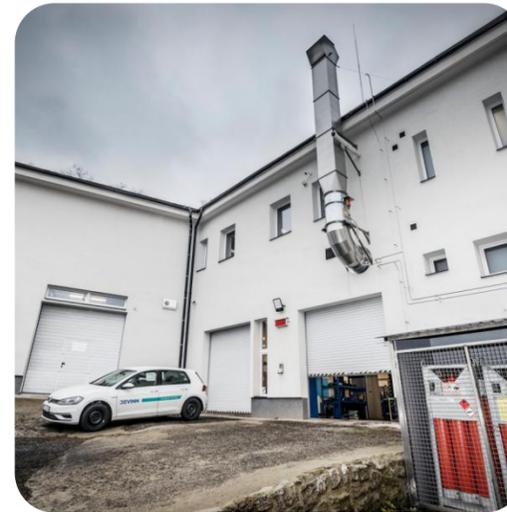
Certified hydrogen workshop and testing facilities

Comfortable EV Charging in off-grid conditions

Battery Safety and remote monitoring

Custom Headlights

Electrical and Thermal Testing



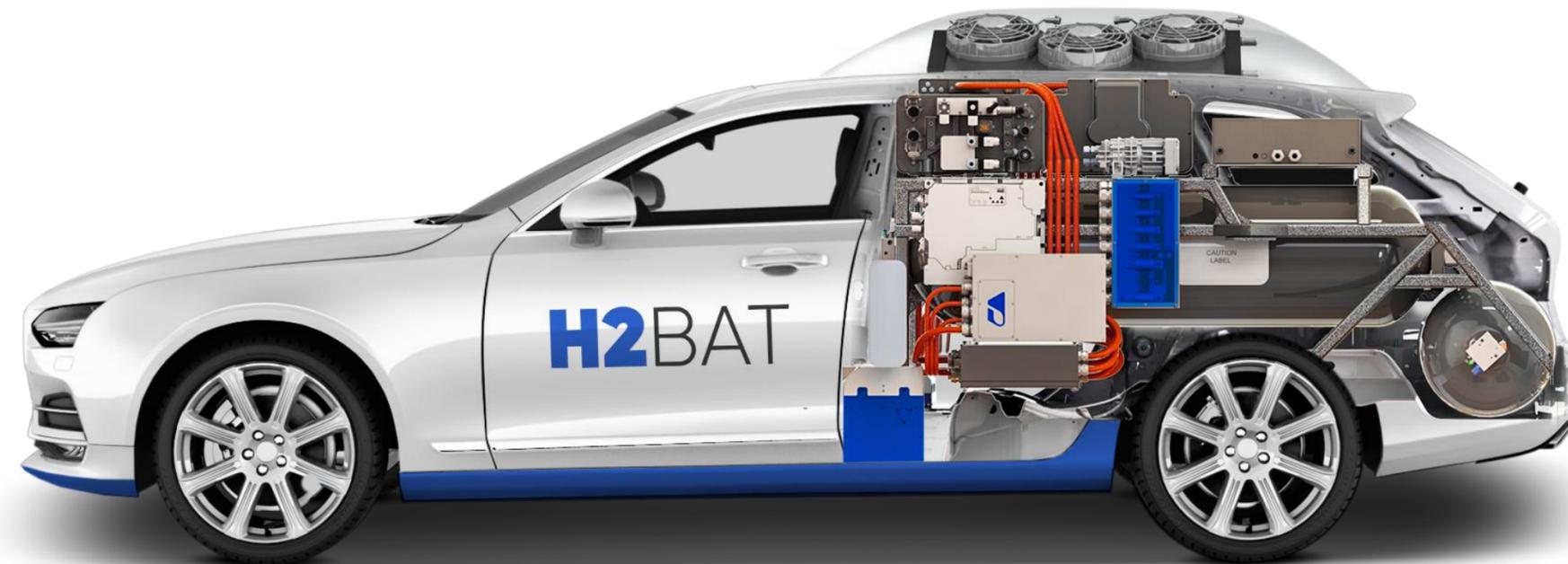
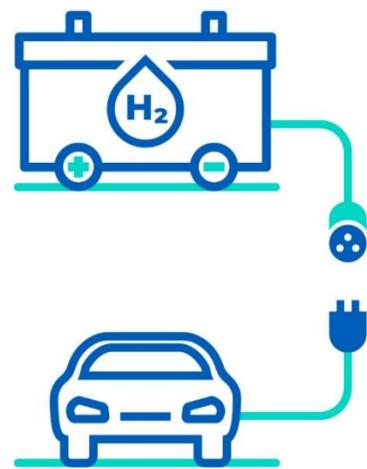
# Fuel Cell Integration

**> 500 kW**

# H2BAT

## Mobile EV Charger

- Hydrogen fuel cell installed inside
- 50 kW charging power
- 154 kWh installed charging capacity (e.g. 6x VW e-Golf)
- Charging of e-cars is independent on conventional power source



 H2BOT

03



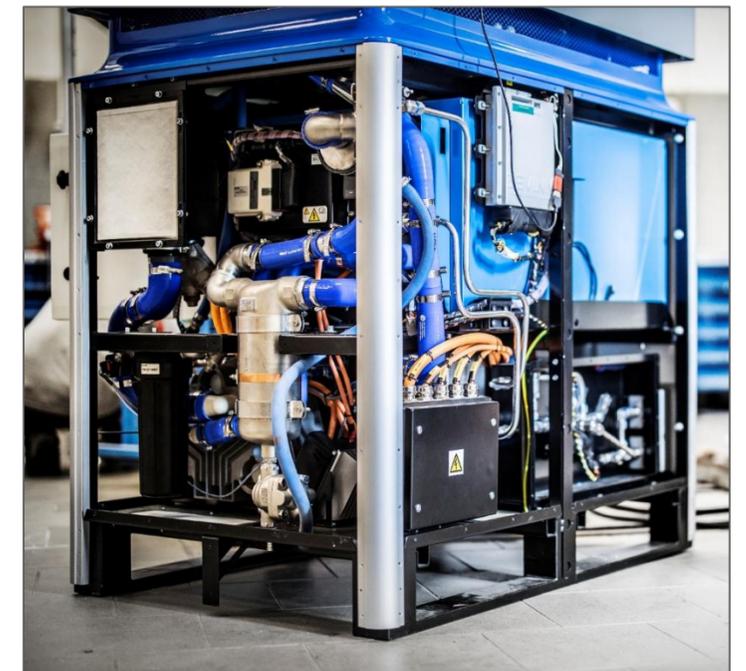
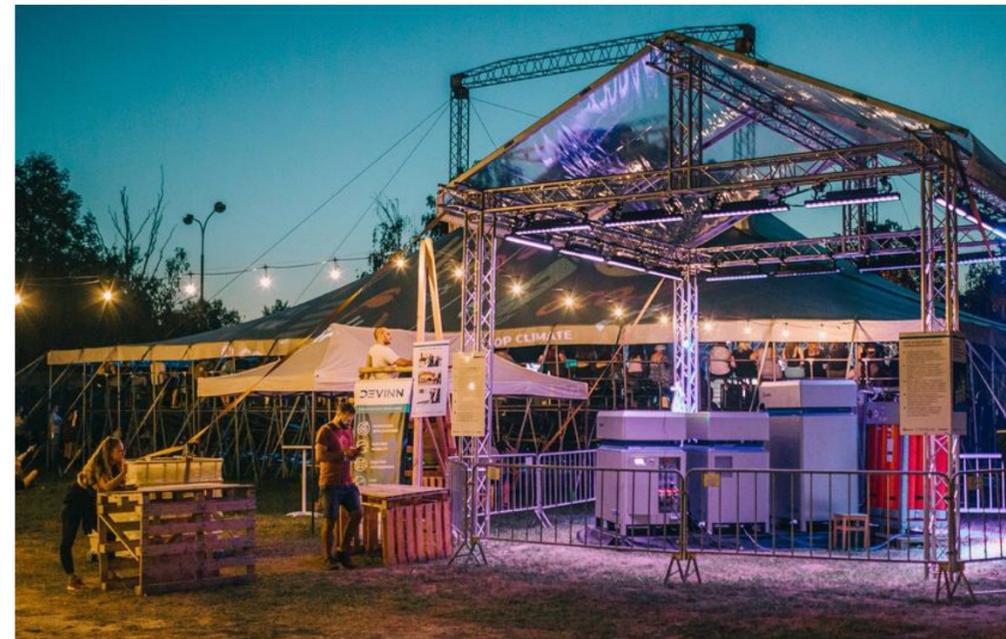
# H2BASE

## Mobile emission-free power and heat generator

- Thanks to the fuel cell, the only emission is demineralised water
- Easily scalable power by adding fuel cell modules
- Proven in practice - H2BASE has been powering music festivals in the Czech Republic and abroad since 2021



Videotour



# Off-grid hydrogen system

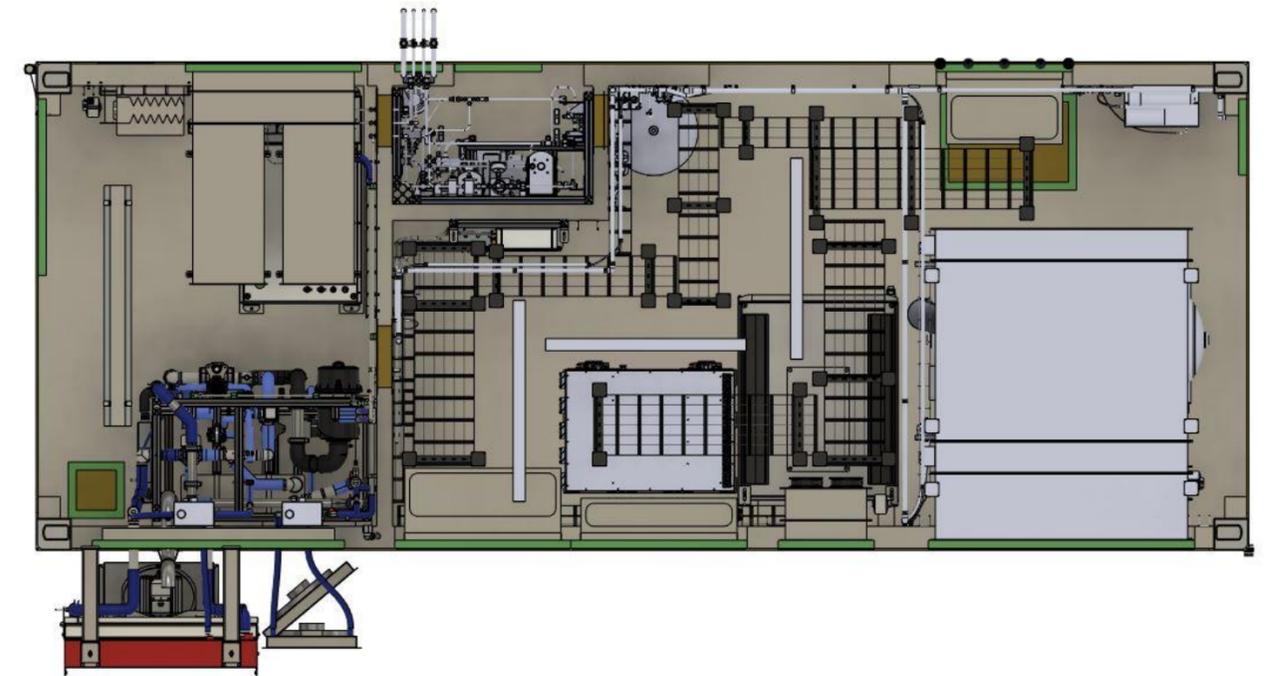
DEVINN site, Jablonec n. N.

- PV: **20kWp** with integration of **5kW electrolyzer** for local production of green hydrogen
- Large-capacity hydrogen storage
  - **50 kg hydrogen** (approx. 1.6 MWh energy)
  - Max. pressure 50 bar
  - 12,500 liters volume
- **Offgrid operation** possible



# Off-grid hydrogen container

Production and use of hydrogen – demo unit



<b>Electrolyzer power</b>	5 - 27 kW
<b>Hydrogen output</b>	500 bar
<b>Battery buffer</b>	40 kWh
<b>Fuel cell power (electricity)</b>	45 kW
<b>Heating power</b>	30 kW

# Cooperation with Tatra Trucks

## DEVINN as a partner for alternative drives

- Concept development of alternative powertrains (BEV / H<sub>2</sub>)
- High-voltage system architecture and power management
- Control software, energy strategies and diagnostics
- Prototype build and assembly
- Testing and validation support



**Tatra Force e-Drive FCEV 8x6**



**Tatra Force e-Drive BEV 8x8**



**Tatra Force e-Drive FCEV 6x4**



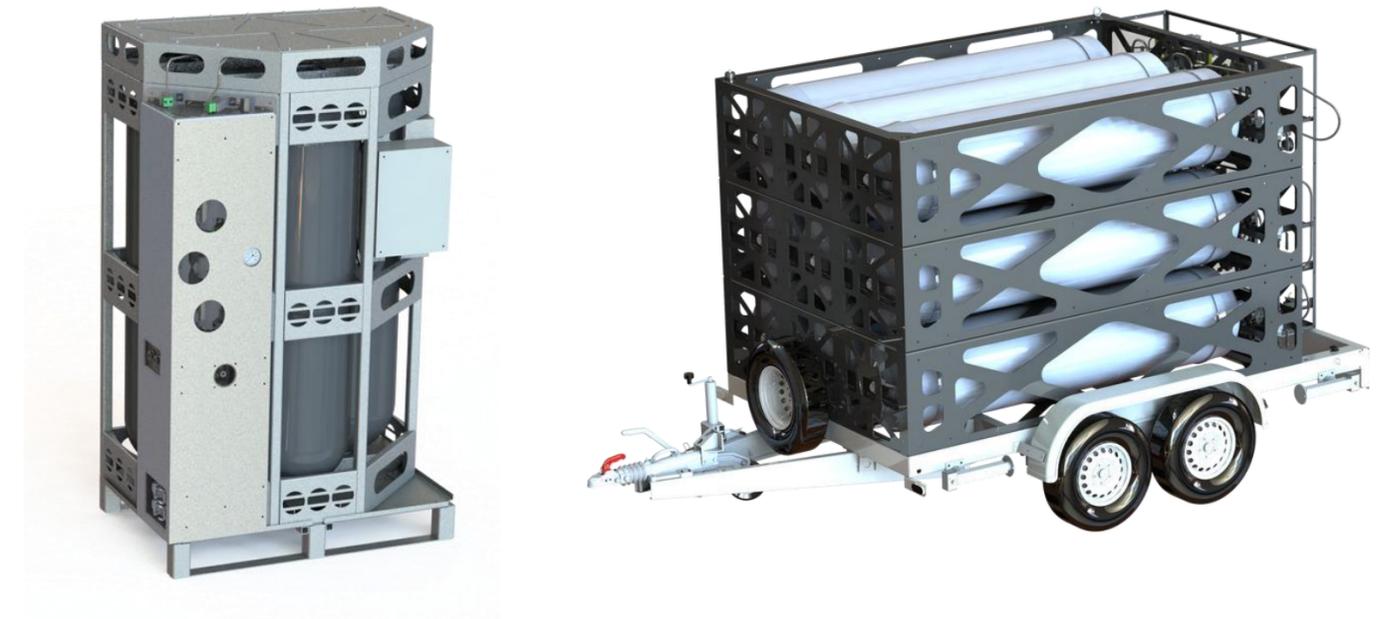


# Hydrogen Filling & Transport

Most places do not yet offer a sufficiently dense network of hydrogen filling stations. This is also often the reason for the slower development of hydrogen infrastructure.

## Our solution

- Mobile and easily relocatable filling stations and pressure bundles
- Solutions with or without compressor and booster
- Capacities from 14 to over 100 kg of hydrogen
- Possibility of individual adjustments according to operating conditions



# Tatra H2 Filling Station

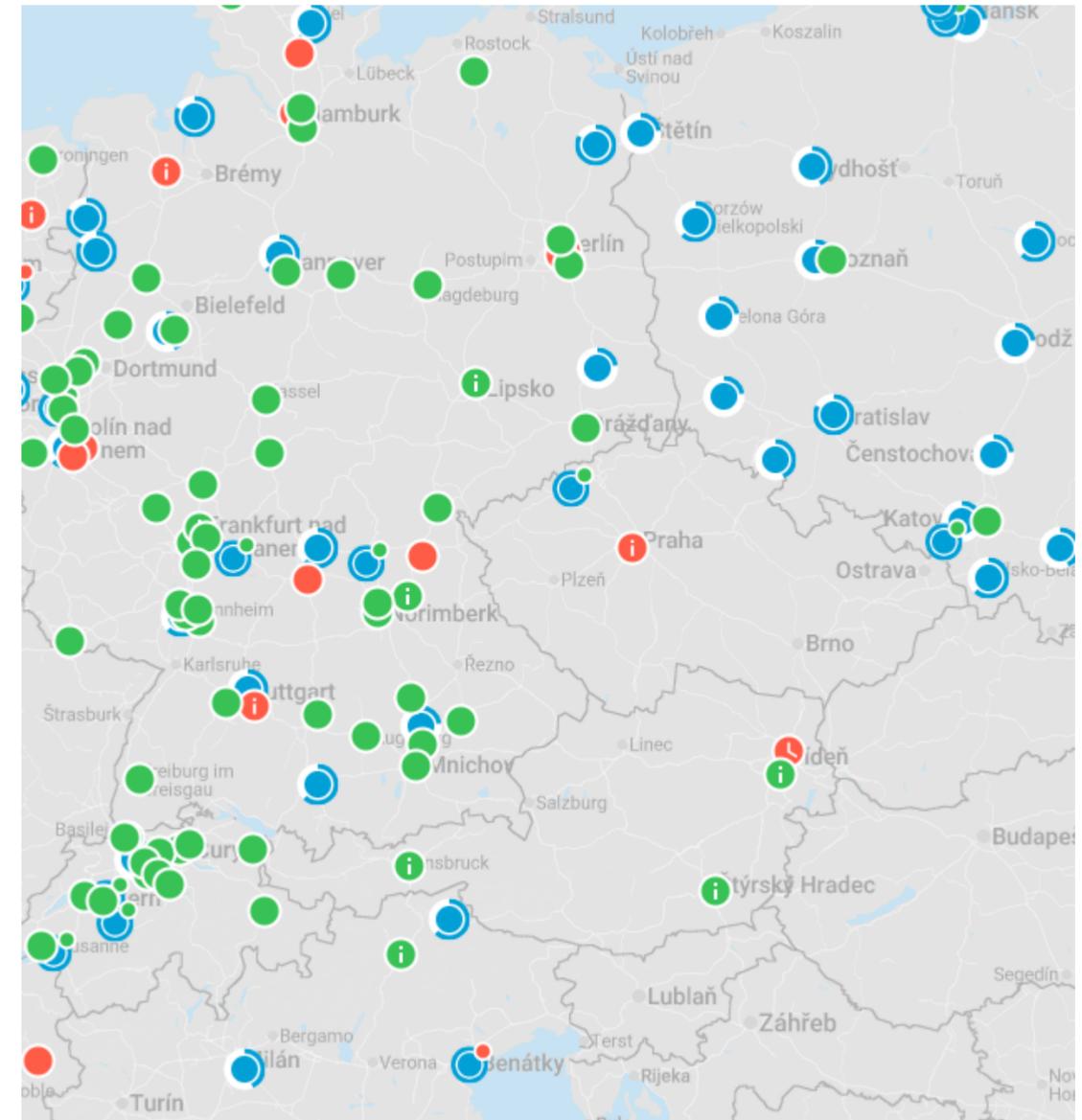
Tailor-made solution for trial operation

- Hydrogen filling station on flat rack - 100 kg H2 at 500 bar in 4 sections
- First truck filled in 20 - 40 minutes depending on conditions, second filling after approx. 12 hours
- H2 storage directly depends on logistics and the method of supply chosen by the end customer
- Preparation for capacity scaling / additional compressor level



# Future

- To be a strong partner in development of complex hydrogen projects
- Participation in international R&D projects
- Contribution to the development of H2 infrastructure for mobility
- Using our expertise to help bring new technologies into reality



# CONNECT WITH US



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