

WE MANAGE THE ENERGY CLOUD

COMPANY PRESENTATION, Status: 6/2023

SUMMARY





MARKET AND OPPORTUNITY

- 65 million Electric Cars on European roads by 2030 will need to be supplied with energy
- The Grid-Based Infrastructure will not be able to supply this demand.
- GME is creating a competitive decentralized **OFF-GRID Alternative**, where the customer needs it



BUSINESS MODEL

- Energy as a Service (El. Energy) starting with the Mobility Market
- Demand-driven **PoS location scouting and permanent asset optimization**
- Direct Purchase of Renewable Energy at dedicated sources



IP AND USP

- Al based Operating Software for Asset and Service Optimization
- Standardized Packaging for Storage and Dispensing Systems
- Efficient logistics: Easy, quick and safe dispatching of dedicated GME energy Assets

THE CURRENT ENERGY-MARKET

THE PROBLEMS WE SOLVE



Steil, Steiler, Strombedarf

Vorsichtigen Schätzungen zufolge dürften 2030 rund 65 Millionen Elektrofahrzeuge auf den europäischen Straßen unterwegs sein. Um diesen massiven Anstieg von Stromern bewerkstelligen zu können, werden auf dem gesamten Kontinent rund 34 Millionen Ladepunkte benötigt. Dadurch dürfte auch der Strombedarf massiv ansteigen, vermutet werden etwa 200 Terawattstunden für die Betankung von E-Autos. Im Jahr 2021 lag dieser Wert bei lediglich 30 TWh.



Around 65 million electric vehicles will be on European roads by 2030.



Transformer stations are becoming the biggest obstacle to the expansion of charging stations



The gas grid can currently only provide *grey hydrogen*

- 65 million electric cars on European roads in 2030 will need to be supplied with energy
- EV Drivers want to minimize the recharging time: **DC charging** and **H2 refueling** are existing options

OUR OPERATING MODEL

MOBILE ENERGY AS A SERVICE



ENERGY CREATION HUB



Access to competitive local renewable energy



INFRASTRUCTURE OPERATION



POINT OF SALE (B2C, B2B)

- Retail parking
 - Gas stations Remote locations
- Fleet hubs
- Cities & communities

Residential parking



as a service delivered to our customers

PILOT PROJECT - Q4/2023





Off-Grid-Charging Einrichtung

POINT OF SALEASFINAG Rastplatz Engerwitzdorf

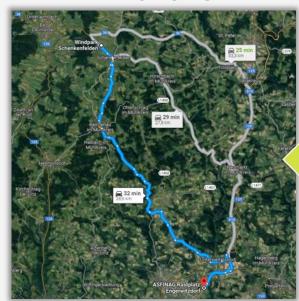
PILOT PROJECT - Q4/2023



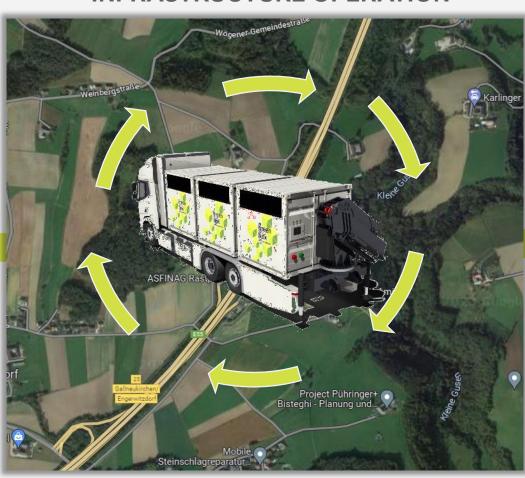
INFRASTRUCTURE OPERATION

ENERGY CREATION HUB

Wind Parks



Windpark Schenkenfelden (30km Entfernung – 1.2 MW)



ENERGY CREATION HUB

Wind Parks



Windpark Sternwald (40km Entfernung – 20 MW)

LOGISTICS AT THE PV-FARM





- Flexible Energy Storage Solutions directly located at solar-or wind parks
- Off-grid or On-grid utilization
- Maximum availability for all ESS business models such as peak shaving, load shift, etc.

THE GME KEY SYSTEM ELEMENTS



ACCESS TO

renewable energy





GME OPERATING SW



Standardized Storage

- Battery



Energy Dispensers

- DC Hyperchargers



Greenbox Fleet Vehicles





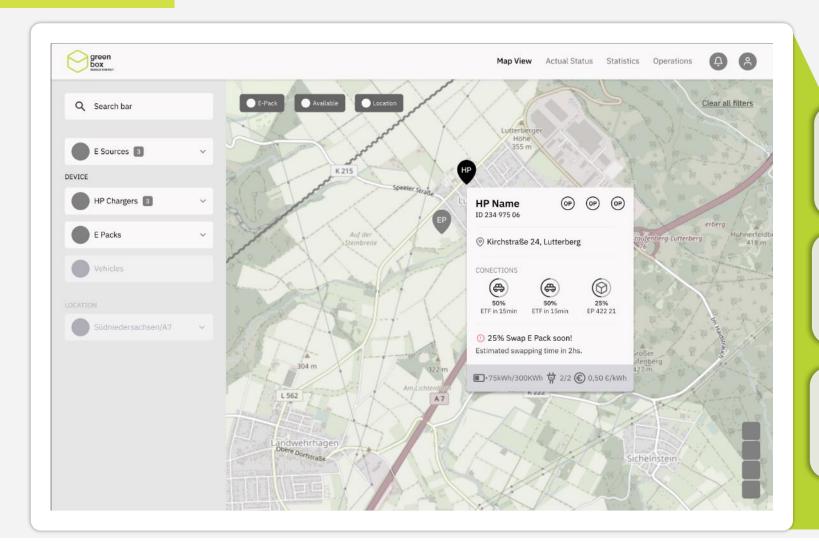
Access to "Prime Real Estate"

- Retail parking
- Gas stations
- Fleet hubs
- Residential parking

THE GME ECOSYSTEM

OPERATOR VIEW





Overview of current system status, activity history and forecast

Optimization
of system availability and
productivity

Intuitive supervision and control of the GME system objects



HYPERCHARGER AND EACCU 400kWh





DATA HYPERCHARGER

POWER 150-400 kW

ENERGY -

PRODUCT DC High Power Charger

PRICE MODEL 0,49 € / kWh

DATA EACCU 400 KWN	
POWER	400 kW
ENERGY	400 kWh
PRODUCT	electrical energy

PRICE MODEL

GME EV CHARGING TECHNOLOGY (E)





- We integrate all available high-power Chargers in our pack-system
- Industry standard HMI for customers including pay systems (card, credit card)
- HPC DC charging cable (fluid cooled):



GREENBOX MOBILE ENERGY ELOGISTICS SOLUTIONS





- Step 1: Outsourced fleet, ideally electric Vehicles operated by contracted logistic service providers
- Step 2: GME specialized fleet of B EV and FC EV customized to handle the dispatching and swapping of the GME containers

GREENBOX MOBILE ENERGY EACCUS



In total, we offer three different versions of our EACCUs. The EACCU 2,2MWh, EACCU 1MWh, and the EACCU 400kWh (our mobile version).



GME PILOT COMPONENTS



HARDWARE





- **ONSITE:** 2 hyperchargers at Point of Sale
- MOBILE: 3 Battery Storage Packs (moved between PoS and Energy Source)
- **SOURCING: SCU** serial standardized products
- **DIFFERENCE**: No connection to the electricity grid needed

SOFTWARE + MIDDLEWARE



GME Operator Dashboard



Data Management

Backend



Database Cloud



IoT

Simcards

- OUTSOURCED: Middleware (IoT + Cloud)
- Test Version
- Version): Logistics Automation and Optimization



MEGAWATTCHARGING

WITH GREENBOX MOBILE ENERGY





But how does megawatt charging work?

THE MCS-STATION



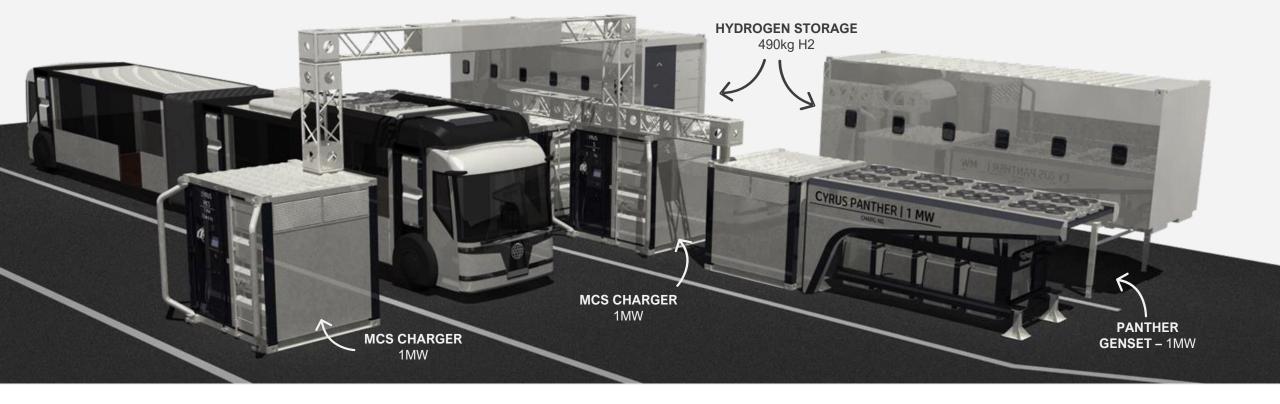
MCS Charger– 1MW (charging 500 kWh in half an hour)





Hydrogen Storage (Swap Container with 490 kg H2)



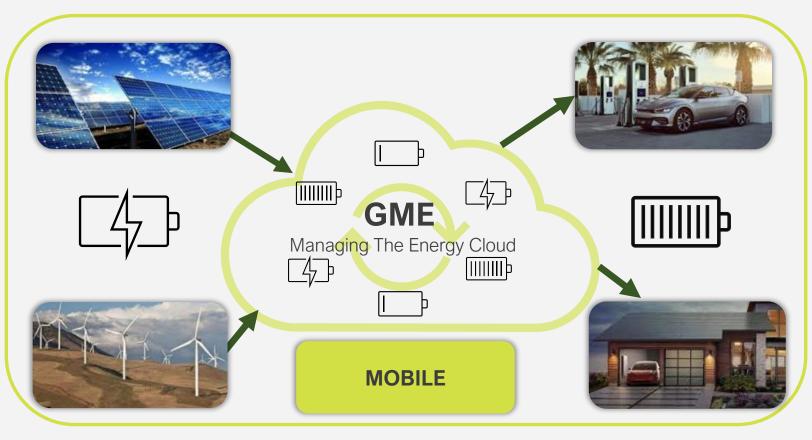


THE GME BIG PICTURE





(at 1000 GME EV CHARGING STATIONS)



GME DISTRIBUTED ENERGY STORAGE MANAGEMENT



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