



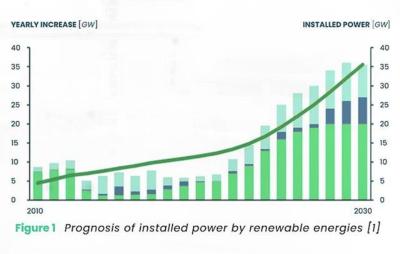
# bloX.power

We chain green power and electric mobility to balance renewable energy grids and reduce the carbon footprint.

# Challenge of renewable energies: Oscillating energysupply causes blackouts



For 2030, a total capacity of 350 GW (80% of total energy) in renewable energíe are estimated (Germany).





Challenge of renewable energies: Oscillating energysupply causes blackouts

Renewable energies cause supply spikes in the power grid, leading to instability and potential blackouts.



[1]: EV CHARGING - SMART ENERGY SERVICES Workshop, P3 automotive GmbH



## Solution: Grid balancing by storage of electrical energy

To counter the volatility in supply, energy is stored in order to **balance** supply and demand spikes

Most efficient way to store energy: Battery Storage with conversion-losses of only 10%

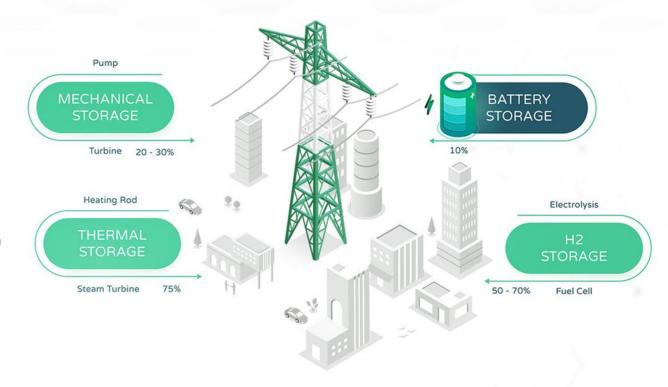


Figure 3 Losses of energy conversion end of the converter chain, without power-heat coupling [2]



## Solution: Grid balancing by storage of electrical energy

# Battery capacity of Nissan Leaf can provide energy for an average (German) household for 4.8 days



Figure 4 Energy consumption of average household vs battery storage capacity of Nissan Leaf

## Solution: Grid balancing by storage of electrical energy

- Potential storage capacity of electric vehicles (in Germany) exceeds the total capacity of pump storages by a factor of 50.
- Therefore, EV batteries are the perfect solution for grid balancing and other use cases, where storage of energy is needed

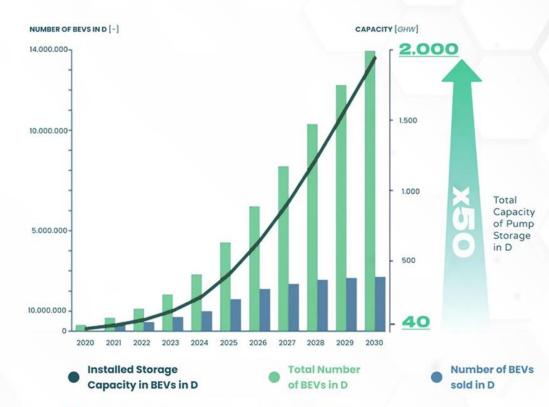
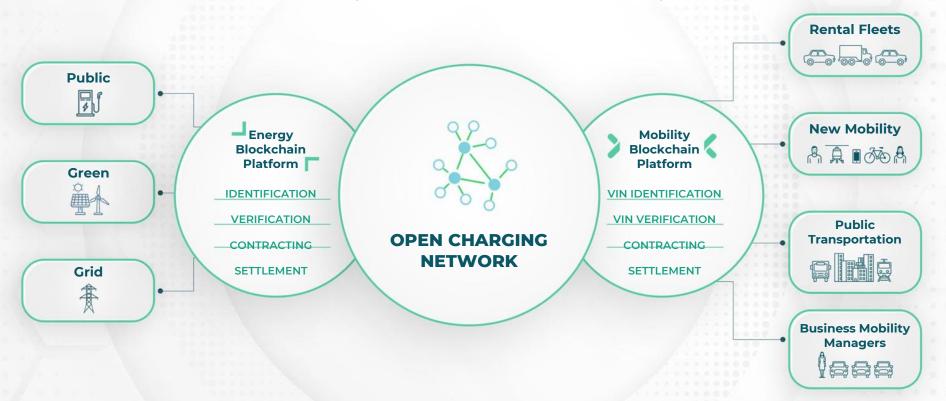
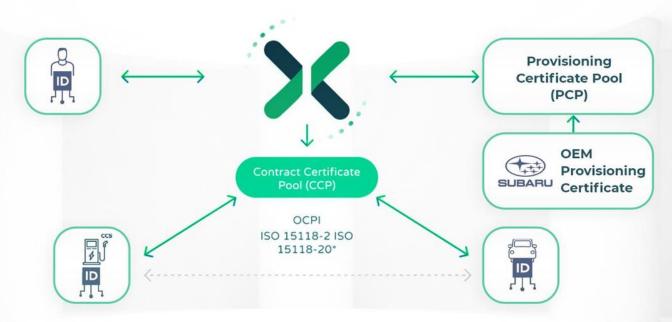


Figure 5 Prognosis of storage capacity in BEVs [1]

# Our technology was developed to enable sector coupling by providing secure and instant accounting



# Using the open chargepoint interface ensures secure service roaming





Public Key Infrastructure (PKI) based on ISO 15118-20 -> IT Security



Real time pooling and whitelisting of digital certificates for all related parties



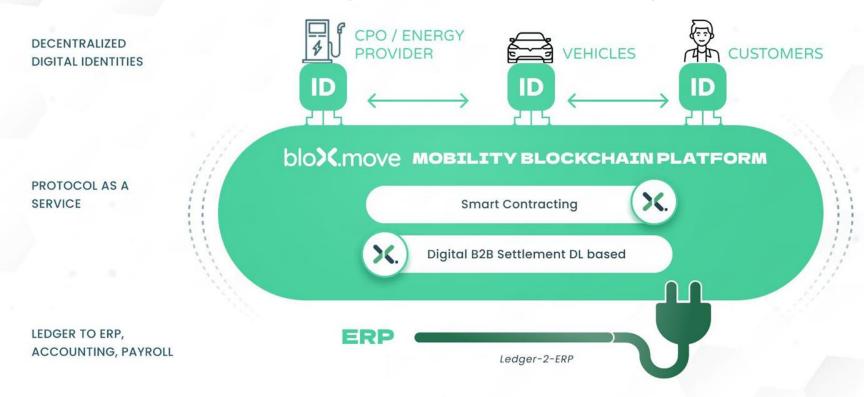
Enhanced distributed security via blockchain



Instant settlement via blockchain



# Based on DID identifiers bloXpower provides seamless roaming across all services of the ecosystem





## bloXpower offers solutions for main 4 target segments and connect their roles in a new ecosystem design

#### 1) Electric Fleet Operators & OEM with EV production



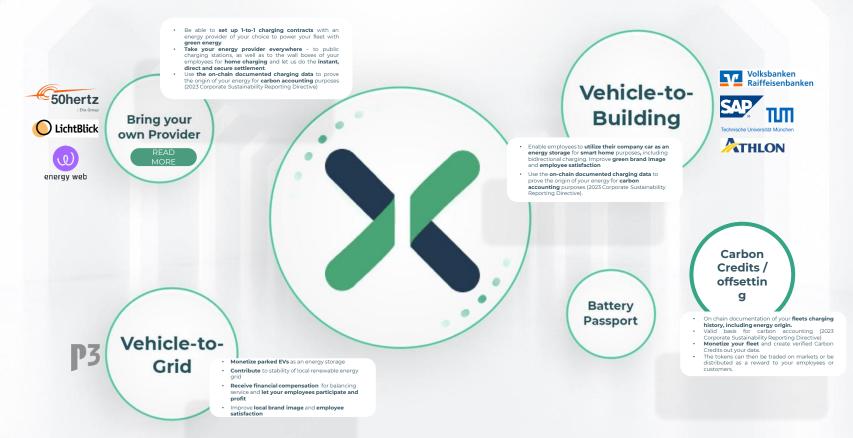
## 2) Companies with fleet and/or need for CO2-Compensation



4) Charge Point Operators (CPOs), former fuel providers



# With bloXpower's technology we unite the power X mobility sectors and enable various partners to prove 5 new business cases – in first live labs:





# The decentralized Mobility Blockchain Platform has a solid history at Mercedes-Benz Group and a promising future as independent venture

## **3 YEARS**

of incubation with Mercedes and further blockchain champions

#### **Daimler Mobility**



**51**nodes

ONTology

### **MAY 2021**

bloXmove is established by the 3 founders after the management buy-out



## **PRE-SEED**

funding through convertible loans, founders hold > 80%





#### 17

signed partnerships by ecosystem customers











# 27 bloXmovers bring the expertise, experience and network to deliver



Sophia Rödiger

- 7 yrs. in mobility industry
- Business psychologist
- Partnership and investment management
- · Digital Sales & Marketing





Bernd Hanisch
CFO & Founder

- · 20 yrs. in fleet management
- Finance & controlling
- Product management
- eMobility





Dr. Harry Behrens
CTO & Founder

- 7 yrs. in blockchain
- PhD in decentralized network technology
- Develops the Mobility Blockchain Platform @Daimler



Marvin Kassühlke

- Product Development and Management
- Consultancy
- Scrum and Agility





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