

# 10. Forum Elektromobilität

## Ultra-Schnellladen am leistungsbegrenzten Netz – Widerspruch oder *perfect match*?

Kiel – 30.11.2022

Dennis Müller

SVP – Product Marketing & Communication  
ads-tec Energy GmbH

Mobile: +49 173 6690 210

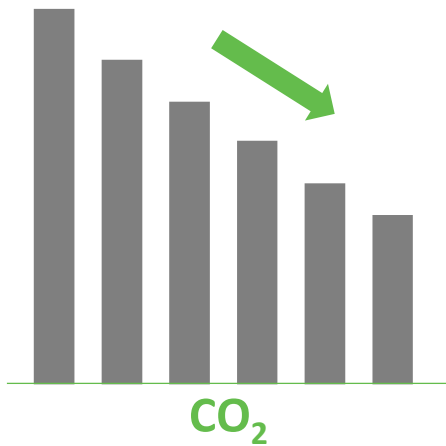
E-Mail: [D.Mueller@ads-tec-energy.com](mailto:D.Mueller@ads-tec-energy.com)

**Überall. Ultraschnell.**

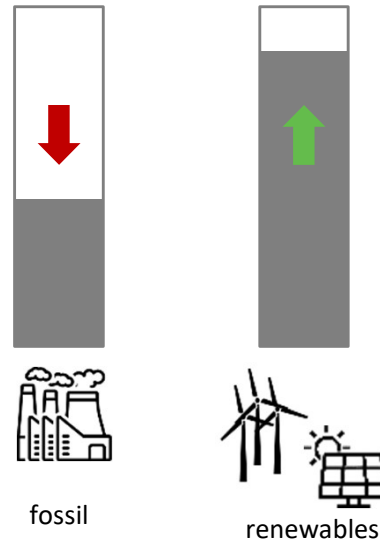
Together we shape the sustainable future of energy.

# We all face 3 enormous global challenges ...

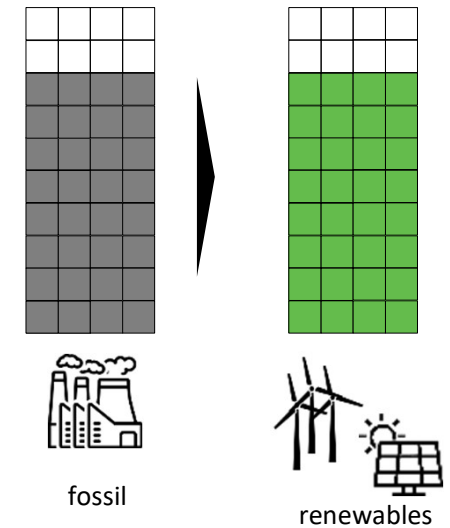
## Climate targets - reduction of CO<sub>2</sub> emissions



## From fossil energy Sources to renewables



## Transformation to decentralized energy systems

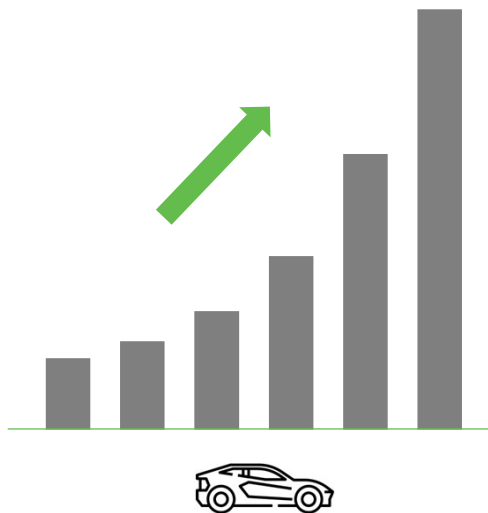


**Überall. Ultraschnell.**

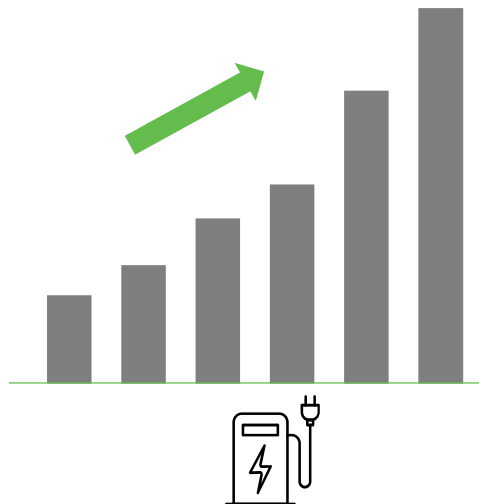
Together we shape the sustainable future of energy.

... that impact the transportation sector.

**Increasing volume of Electric Vehicles**



**Ramp-up of charging infrastructure**



**Forecasting: Energy demand vs. production**



**Überall. Ultraschnell.**

Together we shape the sustainable future of energy.

# Elektrifiziert und intelligent vernetzt in Richtung Zukunft.

ADS-TEC Energy is the leading technology company with battery-buffered ultra-fast charging solutions and commercial & industrial energy storage systems ...

... for your transition into a decentralized, sustainable and intelligent future of energy systems!

# We are offering eco-platforms for 3 major applications

Ultra-Fast-Charging Infrastructure



C&I Energy Storage Systems



Residential/Home



**ADS-TEC  
Eco – Platform**

**Hardware**

**Software**

**Services**

Flexibility

Freedom is  
Flexibility.



Our platform solution offers **flexibility** for future-power companies and their **various business models**



Chargepoint-  
Operator

Grid-  
Operator

Fulfillment Provider/  
Advertising

Energy Trader/  
Arbitrage



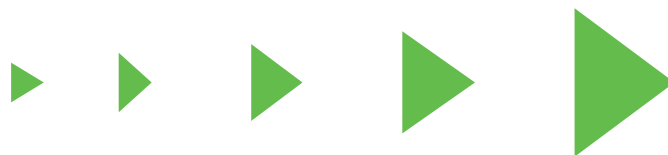
Drive Change.

Booste: Up to 320kW

# Why battery buffered High Power Charging?



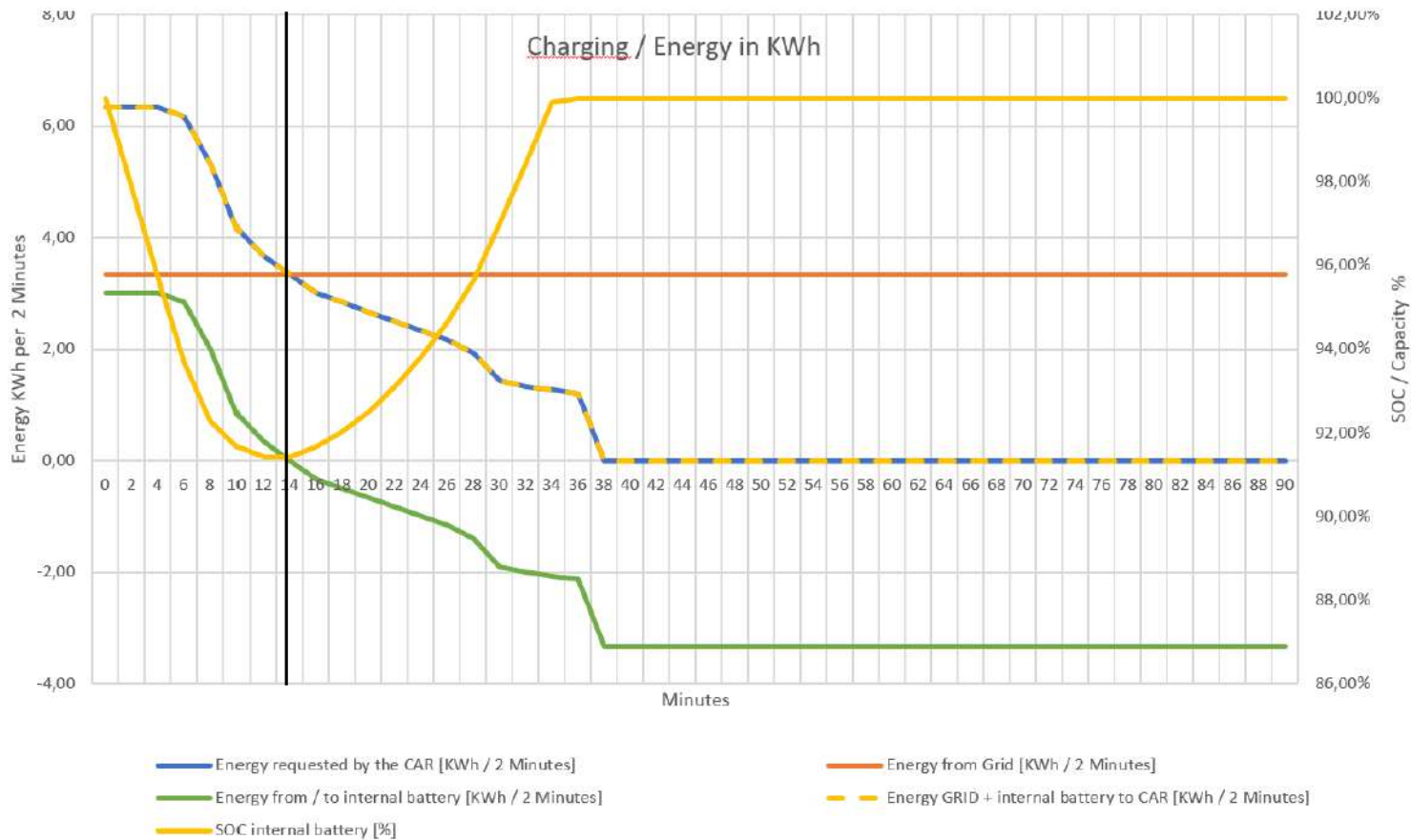
**Input: Low Power**  
From power limited Grid



**Output: High Power Charging**  
Output for Ultra Fast Charging



# Charging EV with 190kW at the Charge Box



## ADS-TEC Energy Charge Box

- Battery buffered charging
- Example: EV needs 190 kW
- Parallel power from **grid with 100 kW**, when car is getting charged

**Überall. Ultraschnell.**

Together we shape the sustainable future of energy.

# ChargePost



Possible **usecases and applications** for battery-buffered ultra-fast charging solutions



**Large Retail Solutions**



**OEM Auto Dealers**



**Rental Cars**



**Convenience & Fueling**



**Office / Industry**



**Municipalities**



**Condominiums & Apartments**



**Hotels**



**Fleets**

# Technical benefits of battery-buffered ultra-fast charging solutions



## Challenges with Standard High-Power-Chargers

- ✗ **Expensive upgrades** of the existing Grid needed
- ✗ **xFormers** – up to 18 months delivery lead time
- ✗ **Grid impact** – huge peak demand due to EV charging



## Benefit of Battery-Buffered Ultra-Fast Charging Solutions

- ✓ **Grid Friendly** → Minimize Grid Upgrades
- ✓ **Enviromental Impact** → CO<sub>2</sub> Reduction
- ✓ **Convenience Charging** → Less Time to Charge
- ✓ **Optimize Energy Cost** → Peak Demand Charge Savings
- ✓ **Renewables** → Time-Delayed Use of Energy from Renewables

# Additional revenue streams in the future - Assume that charging will be for free. How can you make money out of the investment?

Be an attractive and competitive company for employees

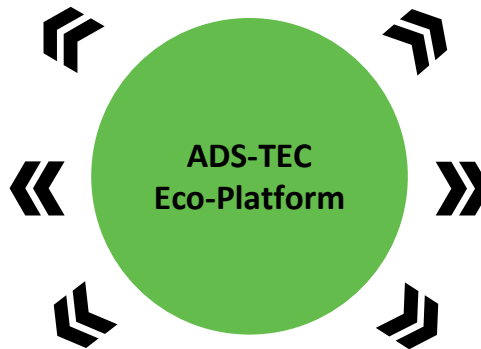
---

Optimization of your sustainability and CO<sub>2</sub> footprint

---

Reduction of your energy Costs due to Integration of PV

---



Advertising

---

Grid Services

---

Arbitrage

---

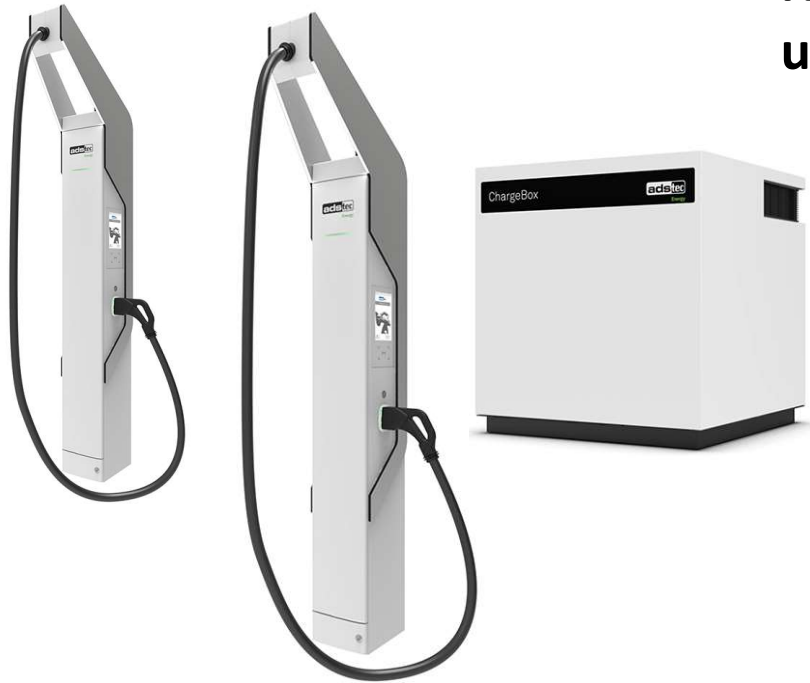
**Überall. Ultraschnell.**

Together we shape the sustainable future of energy.

## State-of- the-Art-Technologie

**Ultra-Fast-Charging  
nearly everywhere**

**No expensive  
upgrades of the grid**



**Support: Acceptance for  
E-Mobility in our daily life**

**PERFECT MATCH!**



**THANK YOU!**



Dennis Müller

SVP – Product Marketing & Communication  
ads-tec Energy GmbH

Mobile: +49 173 6690 210

E-Mail: [D.Mueller@ads-tec-energy.com](mailto:D.Mueller@ads-tec-energy.com)

**Überall. Ultraschnell.**

Together we shape the sustainable future of energy.