



Break-Out Session: Autonomous Charging for your electric fleet

Elwin Roetman
Head of Sales

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About us



Office: Rijswijk, the Netherlands
 Portland, OR, USA
Production: the Netherlands
Service (1st line): Local partners

Company mission - vision

Powering clean transportation by making charging autonomous

Company profile

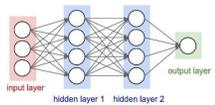
Founded in 2019
Fast growing > 35 people & hiring
Market leader in Robotic Charging

Investors



Technology

Massive improvements in AI / vision & soft robotics



Standardization on EV connectors & protocols

Plug-n-Charge
ISO 15118

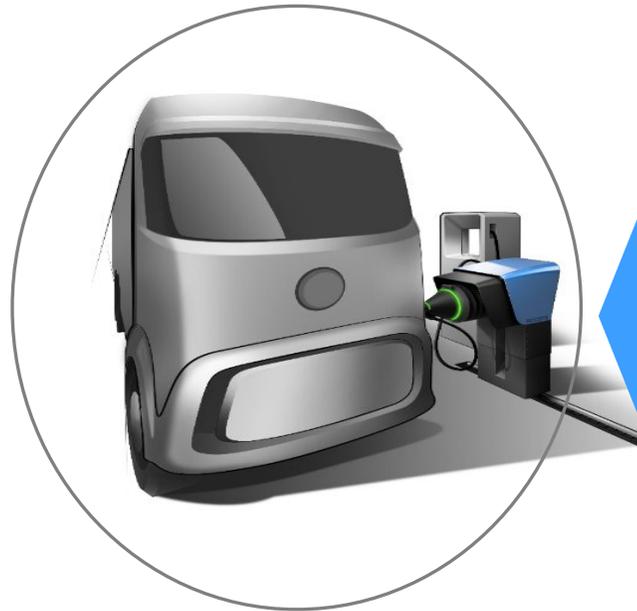


High speed charging tech enters mainstream

350 kW+ <15 min



Why now?



Robotic charging

Market

Scale-up of global EV fleet



Self-parking & self-driving on the horizon



Necessity of viable business cases





The benefits of autonomous charging

Autonomous charging is essential for **scalable** deployment of electric vehicles.

The autonomous charging solutions of Rocsys ensure that EV charging is **reliable**, **seamless**, and **cost-effective**



Industry

Increase revenue, safety & efficiency by reliable automated EV charging.



Transport & Logistics

Improve fleet uptime, performance and driver satisfaction in a cost-efficient way.



Automotive

Get ready for autonomous driving including autonomous charging.

References & Company outlook



Autonomous charging for AGV, e-terminal tractors



Autonomous charging for e-shuttles



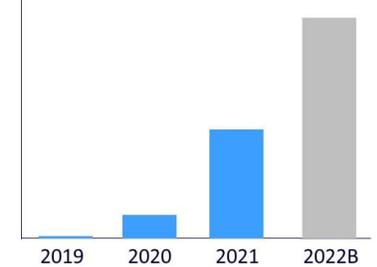
Autonomous charging for e-bus, truck, AGV



Autonomous charging for e-bus

10+ undisclosed A-brand customers

Cooperations to jointly launch solutions in 2023 onward



Ultra-high order portfolio growth (>200% YoY)

How does this work?



Charger

- Install your preferred charger
- Or use any pre-installed charger



ROCSYS robot

- Install ROCSYS robot
- Mount connector to robot with bracket



Electric Vehicle

READY TO CHARGE!

ROCSYS How does this work?

Positioning

- Rough proximity tracking
- Detailed inlet location tracking

Computer vision system

- Algorithms detect CCS inlet even in tough weather
- Performance optimization over time due to deep-learning



3-D pose estimation



Dedicated soft robotics

- 6-Degrees of motion (translations & angles)
- Soft structure is intrinsically safe & forgiving
- Absorbs unexpected vehicle motion while connected



Tolerant and flexible robot

Robotic charging is a larger movement driven by standards

- > Chairmanship & leading roles in all global standards (IEC, ISO, SAE, CharIn)
- > Robotic charging is strategic to many automotive OEMs and will be standardized



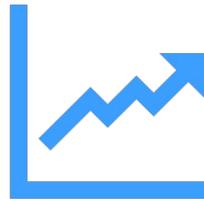
Robot charging standardization



Why autonomous charging? The take aways...



Reliable



Scalable and
future proof



Seamless

ROCSYS

Thank you!

Let's get in contact

Elwin Roetman

Head of Sales

eroetman@rocsys.com

www.rocsys.com