



Overview

Key Corporate Figures 2022



Global Presence



Manufacturing footprint

- Switzerland (HQ)
- United Kingdom
- Germany
 France
 Poland
 India
 Tunisia
 China
- USA Malaysia Mexico • Australia
- Puerto Rico

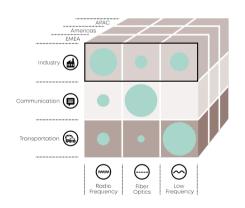
Connectivity solutions - 3x3 Strategy:

Three core technologies

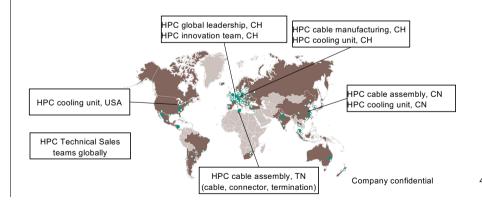
- Radio frequency
- Fiberoptics
- Low frequency

Three core markets

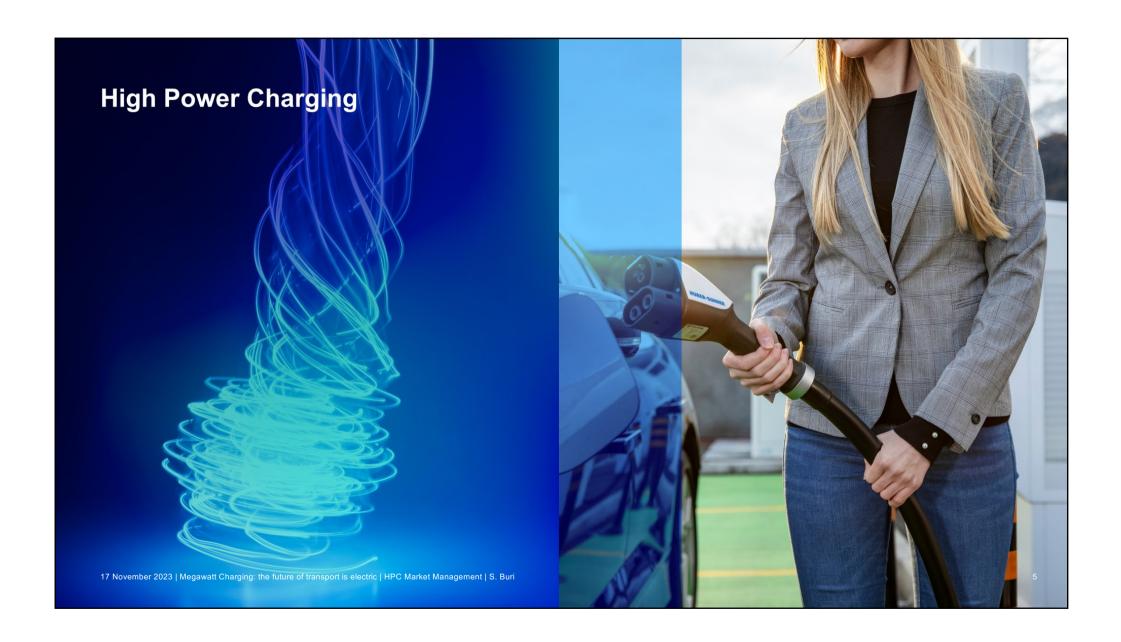
- Industry (incl. HPC, Energy)
- Communication
- Transport



High Power Charging (HPC)



Bubble size based on 2022 net sales 17 November 2023 | Megawatt Charging: the future of transport is electric | HPC Market Management | S. Buri





Our legacy in High Power Charging



H+S pioneered the development in HPC



Roll-out of RADOX® HPC in US market



RADOX® HPC system global leader for high performance New generation with GB/T interface



Upcoming.

RADOX® HPC600 GB/T

2017

World's first certified liquid cooled cable system (RADOX® HPC)



2018

Roll-out of RADOX® HPC system in EU market, spearheaded by IONITY.



2023

Breakthrough in megawatt charging RADOX® MCS 1500



Fast charging in North America



HPC500 is the choice no.1 for the leading CPOs in North America for its HPC charging infrastructure needs



17 November 2023 | Megawatt Charging: the future of transport is electric | HPC Market Management | S. Buri

IONITY enables electric travel across Europe



HPC 500 is the choice no.1 for the leading CPOs in Europe for their HPC charging infrastructure needs



17 November 2023 | Megawatt Charging: the future of transport is electric | HPC Market Management | S. Buri

Europe's largest EV Charging Station When the experience goes beyond charging.



17 November 2023 | Megawatt Charging: the future of transport is electric | HPC Market Management | S. Buri

EV Charging Infra market: where we play?

HPC Team assessment	HUBER+SUHNER					
Total market (DC fast charging: >50kW)						
Addressable market (High Po	wer Charging: >150kW)					

Private/Commercial: 80% (of charging events, single use and shared)				Public: 20% (of charging events)	
Home: 35%	Work: 30%	Fleet: 15%	Destination: 12.5%	On the go: 7.5%	
Power levels: AC <22kW is prime	Power levels: AC <22kW is prime	Power levels: AC/DC. use-case specific	Power levels: AC/DC. use-case specific	Public slow (<50kW)	
				Public fast (50-150kW)	
				HPC >150kW	

Use-case: % share of market

HUBER+SUHNER is focused in bringing essential and value-adding solutions to HPC customers worldwide

Note: accessible market and market share defined on unit basis

17 November 2023 | Megawatt Charging: the future of transport is electric | HPC Market Management | S. Buri

Power level: % share of market

Company confidential

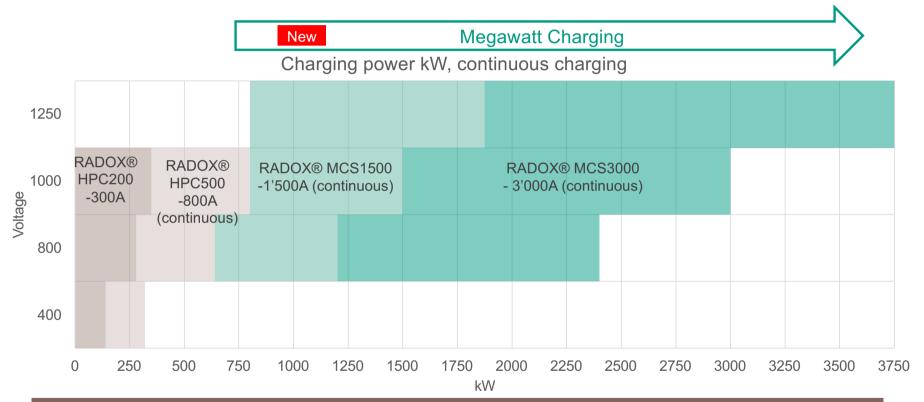
11



Our ambitions in Megawatt Charging:

Enabling a safe, efficient and ultra-fast charging experience for heavy duty electric vehicles at up to 4,5 MW (3000 Amps) continuous charging.

HUBER+SUHNER the leader in High Power Charging



Electric heavy truck charging: 100km in 3 minutes¹⁾

1) Energy consumption: 100kWh / 100km (Mercedes-Benz eActros LH); Energy supply: 1875kW (RADOX® MCS1500), continuous charging
17 November 2023 | Megawatt Charging: the future of transport is electric | HPC Market Management | S. Buri

Company confidential

Megawatt Charging: Market segments

















Designwerk Mega Charger





Resource: https://www.linkedin.com/posts/designwerkgroup_dw-designwerk-emobility-activity-7041397151259611137-
N6rh?utm source=share&utm medium=member desktop

Meet Sparky, the world's first electric tugboat in operations, in Auckland NZ



PERFORMANCES

Bollard pull ahead 70 t
Bollard pull astern 65 t
Speed 12 km
"Specified preformances in full electric mode (sattery powered)

PROPULSION SYSTEM

Main engines (electric)

Total power
Azimuth thrusters
Battery capacity
Propeller diameter
Forced ventilation
Exhaust emission

2x Ramme TW 1400r_L
3700 bkW at 500 rpm
Kongsberg Maritime US 255 P30 FP
2782
2782
3000 mm
38.000 m/h
IMO Tier III certified



Resource: Sparky, the world's first full sized, electric tugboat, starts operating in Auckland

The world's first zero-emission fast ferry goes in operation, in Norway



17 November 2023 | Megawatt Charging: the future of transport is electric | HPC Market Management | S. Buri

Port of Stavanger picks Blueday Technology's shore power system in megawatt class



All electric high speed passenger vessels that next year arrives at Fiskepiren in Stavanger harbor should be able to fast-charge with DC voltage with a power of 2.4 megawatts and use up to 15min to fill the batteries with energy.

Resource: Port of Stavanger picks Blueday Technology's shore power system - Offshore Energy (offshore-energy.biz)

E-Cat Ferry: Helping German ferry operator Reederei Norden-Frisia on its vision for a green future





Resource: Sustainable synergy - Damen

17 November 2023 | Megawatt Charging: the future of transport is electric | HPC Market Management | S. Buri

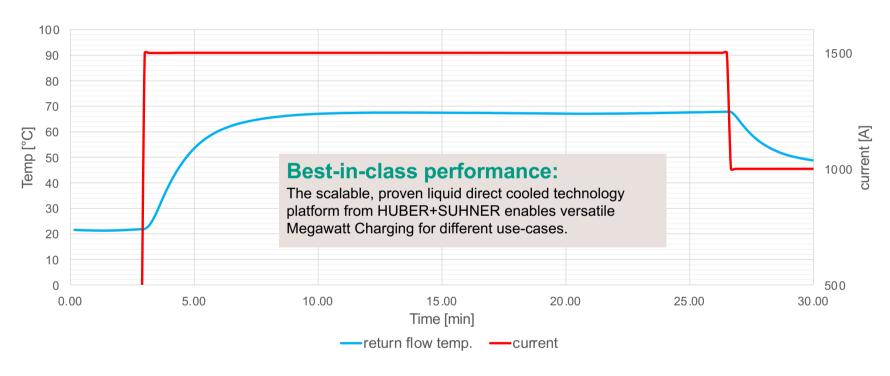


Backup

Stefan Buri

Vice President Market Mgt High Power Charging HUBER+SUHNER stefan.buri@hubersuhner.com +41 79 662 4655

RADOX® MCS1500: continuous charging



Set-up: RADOX MCS1500; cable length 6m; ambient temperature: 50°C; cooling unit WKW

RADOX® MCS1500: Key benefits

Built on HUBER+SUHNER superior technology in HPC.

Reliable, robust and low TCO.

Best-in-class performance thanks to liquid direct cooled cable technology (patent pending).

Continuous charging 1'500A at ambient temperature 50°C.

Maintenance free system, consisting of connector, cable and cooling unit.

Safe and biodegradable dielectric coolant.

Ergonomic and lightweight system for superior user-experience.



