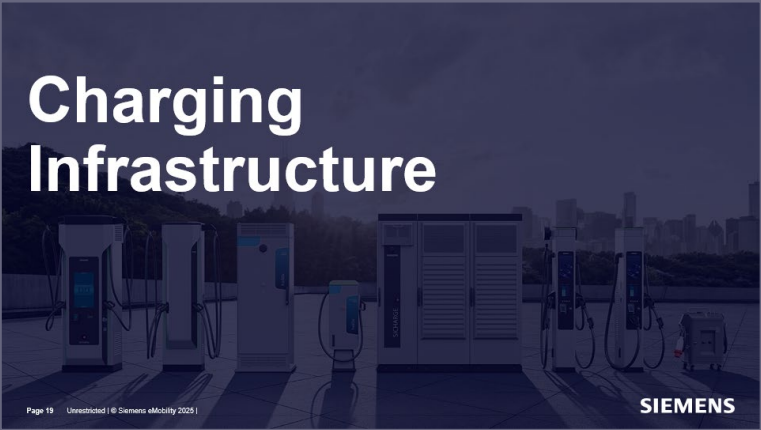




We electrify mobility for a better tomorrow

Siemens eMobility

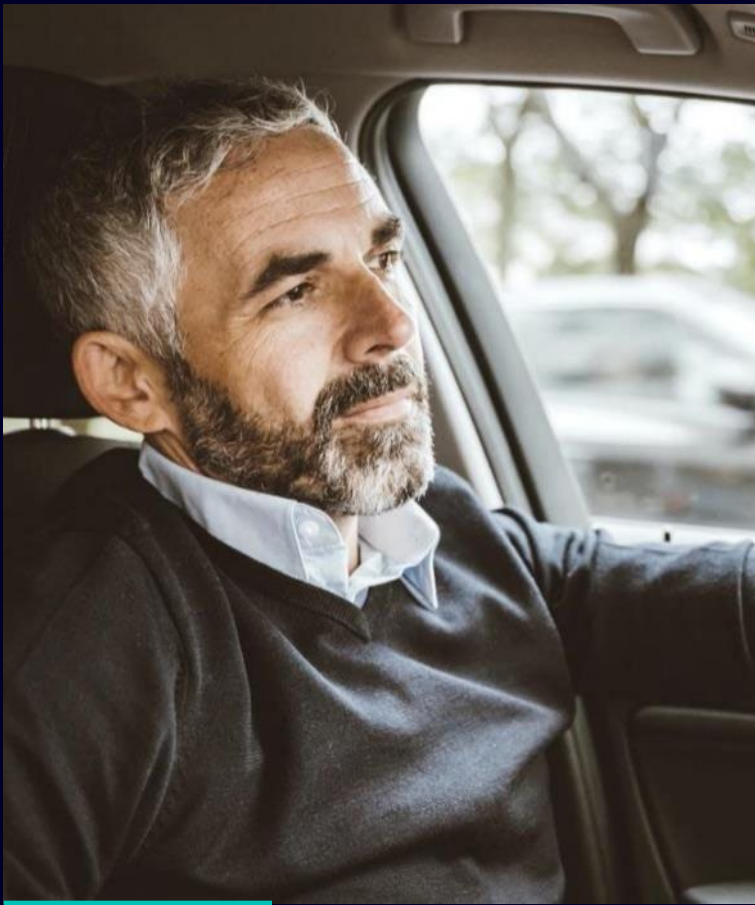
Summary Zoom



Siemens



SIEMENS



We commute in cars designed with **Siemens software** ...

... built in factories running on **Siemens automation** ...



... and charged by a Siemens **smart grid**.



We work in smart buildings that **promote** our **health & safety** ...

... that use energy with **maximum efficiency** ...



... and connect the **physical** and the **digital** workplace.



We book our train tickets
with **Siemens software** ...

... to travel on **trains**
made by Siemens ...



... operated with Siemens
infrastructure technology.



We rely on **life-saving** drugs and treatments ...

... as well as **accurate** medical diagnoses, ...




... all of which are made possible by **Siemens solutions.**


Businesses and Services of Siemens AG

Industrial Business


Digital Industries




Smart Infrastructure




Mobility



Siemens Healthineers¹



Siemens Advanta



Business Units

Buildings

Buildings (COO)

Electrification & Automation

Electrical Products

Fast-growing Businesses


Grid Software

eMobility


Brightly Software

Services


Siemens Financial Services




Siemens Real Estate



Global Business Services



Foundational Technologies



¹ Publicly listed subsidiary of Siemens; Siemens' share in Siemens Healthineers is 71%

Mobility is responsible for ...

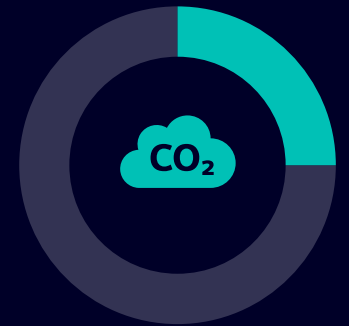
~29%

of all energy
consumed



~24%

of global
CO₂ emissions



Source: [iea World Energy Outlook 2023](#), [iea CO₂ Emissions in 2023](#)



Charging beyond Hardware

We electrify mobility for a better tomorrow

eMobility is crucial for achieving global climate goals. Siemens eMobility is dedicated to integrating it into everyday life, contributing to a more sustainable future. Our portfolio covers all aspects of smart and efficient

DC charging infrastructure, including IoT-connected hardware, software, and a comprehensive service offering. We particularly focus on the growing eTruck and eBus segment, providing solutions for depot/fleet and public charging.

Our customers include Charge Point Operators, OEMs, energy suppliers, and fleet operators. Together with these partners, we take a holistic approach to eMobility and provide comprehensive solutions tailored to every requirement.

Siemens eMobility is one of the leading players in the field of charging infrastructure. With more than 80,000 chargers installed in over 60 countries through more than 800 projects, Siemens' experience speaks for itself.

In December 2023, Heliox, a technology leader in DC fast charging solutions for eBus and eTruck fleets based in the Netherlands, became part of Siemens.

Considerations for a potential carve-out are underway to improve our strategic alignment and responsiveness in the marketplace.



eMobility at Siemens over time



First eCar "Viktoria"
by Siemens

1905

Heliox delivered the
world's first electric bus
depot in Eindhoven

Siemens delivers world's
first eBus panto chargers
in Hamburg

2014

First CCS eBus plug in
chargers installed

2017/18

Heliox launches 180 kW
Flex Charge System

Launch of Sicharge D

2021

Become leader
in depot
and fleet charging

Acquisition
of Heliox

2023/2024



2009

First eMobility
charging solution

2015

Siemens proofs first
interoperability with
several Bus OEM

2020

Start of development
of new portfolio elements
replacing legacy portfolio

2022

Launch of Sicharge
D ERK and
Sicharge UC

2024

Launch of Mobile
60 kW UL

100,000 connected IO/T
devices worldwide

Launch of Sicharge
D 400



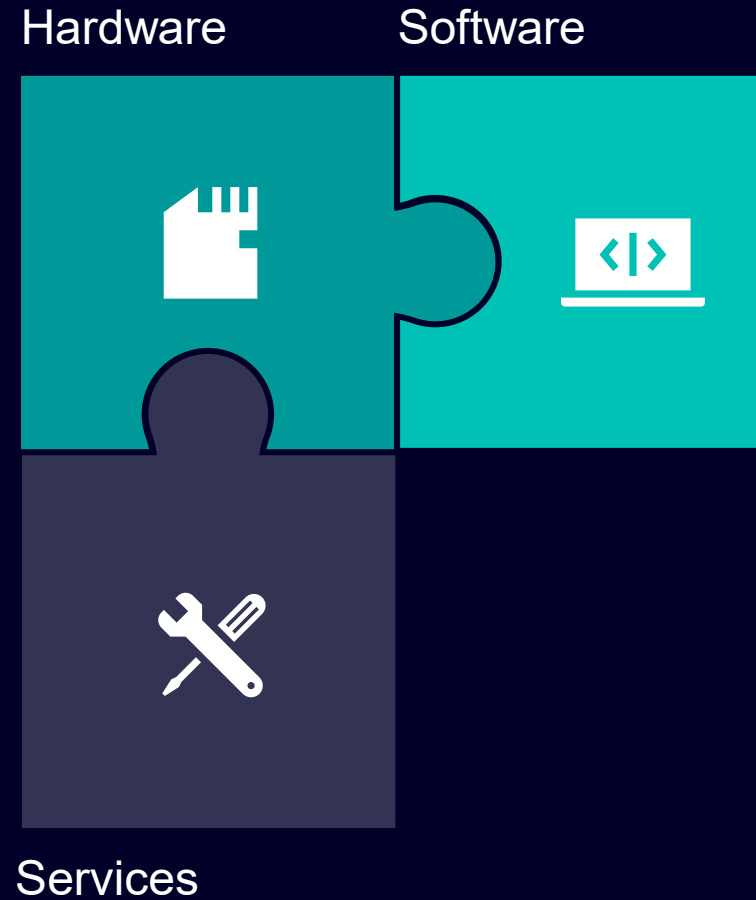
SI E global presence

eMobility portfolio Europe

Energizing through products,
solutions and services

SIEMENS

Charging beyond Hardware



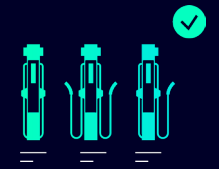
Siemens eMobility Solutions for all use cases

Public Charging Solutions



Experience beyond hardware

Fast charging that goes beyond hardware
to provide ease of use and highest availability.



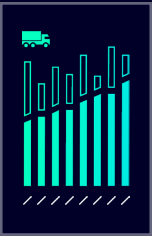
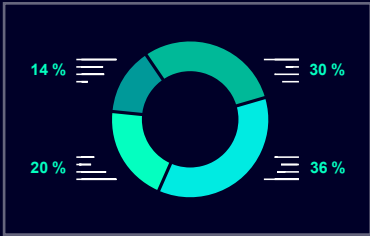
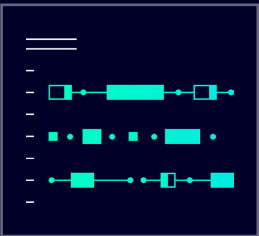
Siemens eMobility Solutions for all use cases

Depot Charging Solutions



Experience beyond hardware

Delivering maximum uptime
and reliable fleet performance at minimum cost



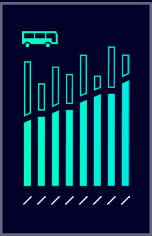
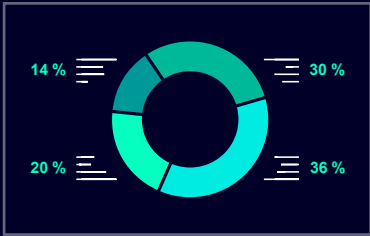
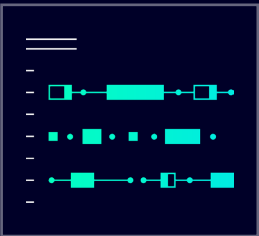
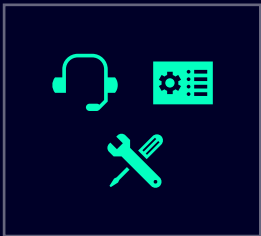
Siemens eMobility Solutions for all use cases

Bus Solutions



Experience beyond hardware

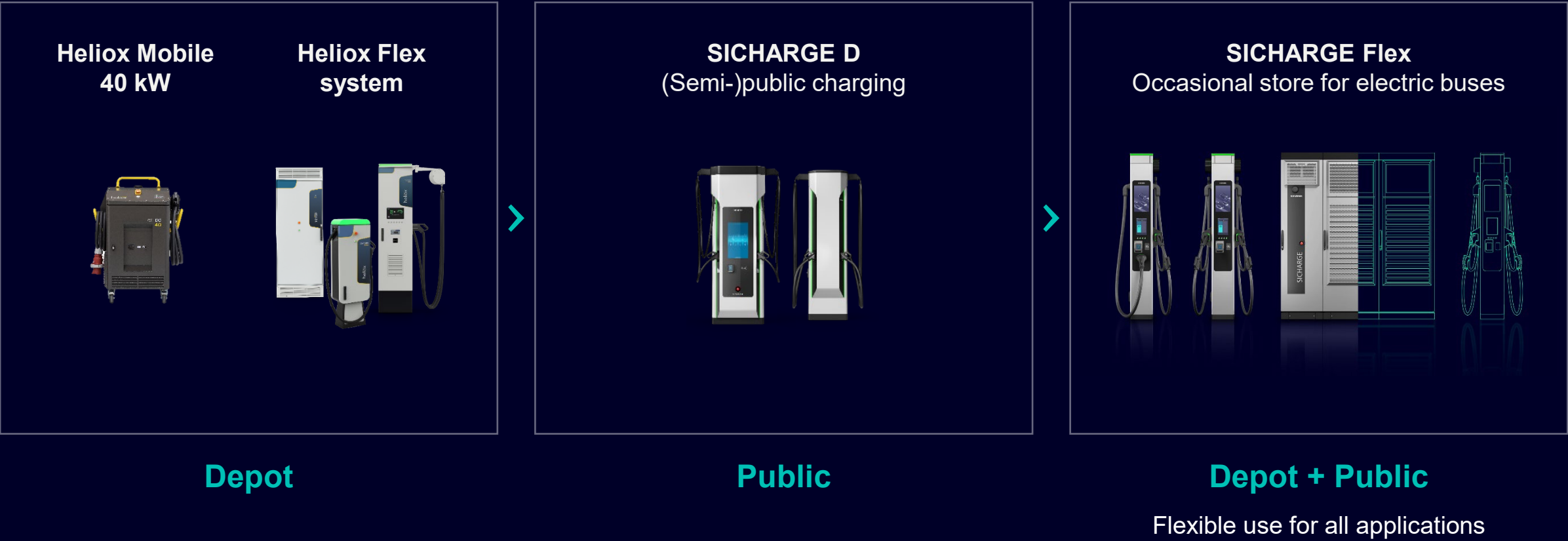
Delivering maximum uptime
and reliable fleet performance at minimum cost



Charging Infrastructure



Our eMobility portfolio at a glance



Heliox Mobile charger

40 kW CE



The ideal plug and play solution



Use cases

Workshops, testing environments
or redundancy at site



Charging time

Some hours¹



Power

16 A (10 kW)
32 A (20 kW)
63 A (40 kW)

Highlights/Benefits



Plug & play

Charging starts automatically
Various power options provide.



Flexible

Works with cars, buses and trucks
Up to 10 m reach
(5 m AC, 5 m DC cables).



Robust & portable

IP54 rated casing and wheel system
design withstands the demands of daily
outdoor use



Universal

AC in via standard CEE socket

<https://www.siemens.com/heliox-mobile>



¹ Charging time varies by vehicle, state of charge and installed power

SICHARGE D 400

Fast, dynamic and efficient high-power DC charger for all your applications



Charge like lightning



Use cases

When travelling, in town, for short breaks



Charging time

30 min¹ fast charging



Power

160 kW to 400 kW DC

Highlights/Benefits



Outstanding performance

400 kW continuous output, up to 600 A per outlet enabling charging of a wide range of EVs



System flexibility

Dispenser extension with two DC charge points for optimized ROI



Perfect-fit configuration

Wide range of options tailored for every application



Fully dynamic charging

Adaptable power levels for efficient charging on any outlet

¹ Charging time varies by vehicle, state of charge and installed power

SICHARGE D 400 (IEC)

Fast, dynamic and efficient high-power charger (HPC)



Key features

Models available from 160 kW to 400 kW

Parallel charging of up to 4 eVehicles

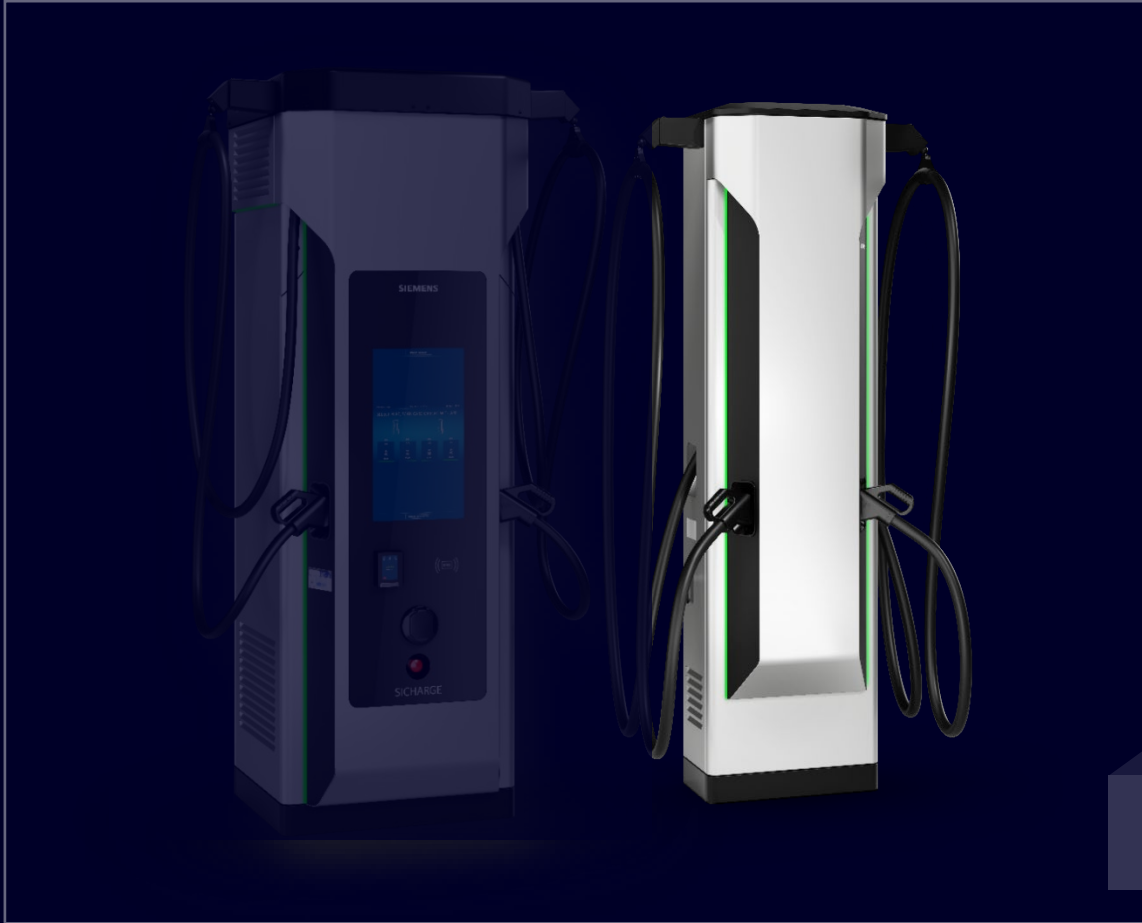
- Two built in DC outlets (2x CCS)
- Two more DC charge points via optional Dispenser
- Liquid-cooled or non-cooled cables with up to 600 A
- High efficiency of >96% (peak)/95% at full load
- Dynamic power allocation between DC charging outlets
- Various payment options
- Value adding 24" flexible touch-screen
- Load management via OCPP and Modbus
- Excellent serviceability with Digital & Remote services
- Models later upgradeable to higher DC power

<http://siemens.com/sicharge-d>



The SICHARGE D Dispenser (IEC)

Up to 4 DC charge points with one grid connection



Key features

- Space and money saving charging system
- Easy extension for 4 DC charge points (2 + 2) for parallel charging
- Distributes available power dynamically to optimize use of installed DC power
- Easily adaptable to the existing infrastructure for brownfield installations

<http://siemens.com/sicharge-d>



Flex power cabinet

180/360 kW IEC



Key features

- 180 kW and 360 kW power unit
- Routes power in increments of 60 kW, charging up to 3 vehicles simultaneously
- Connector Options: Supports CCS2 or pantograph couplers
- Design flexibility from all in one or multiple dispenser configuration options to choose from
- VDV261-compliant pre-conditioning & wake-up functions

[Learn more](#)



Flex 250 A Dispenser Column

Vehicle interface for distributed charging



Key features

- Max 250 A DC current
- Slim design
- Field proven robustness
- Freestanding and wall mounted options
- RFID authenticator
- Optional MID DC meter and ERK meter
- Convenient LED status indicator
- Up to three dispensers can be powered by a single power unit

[Learn more](#)



Flex 500 A Dispenser Column

Vehicle interface for distributed charging



Key features

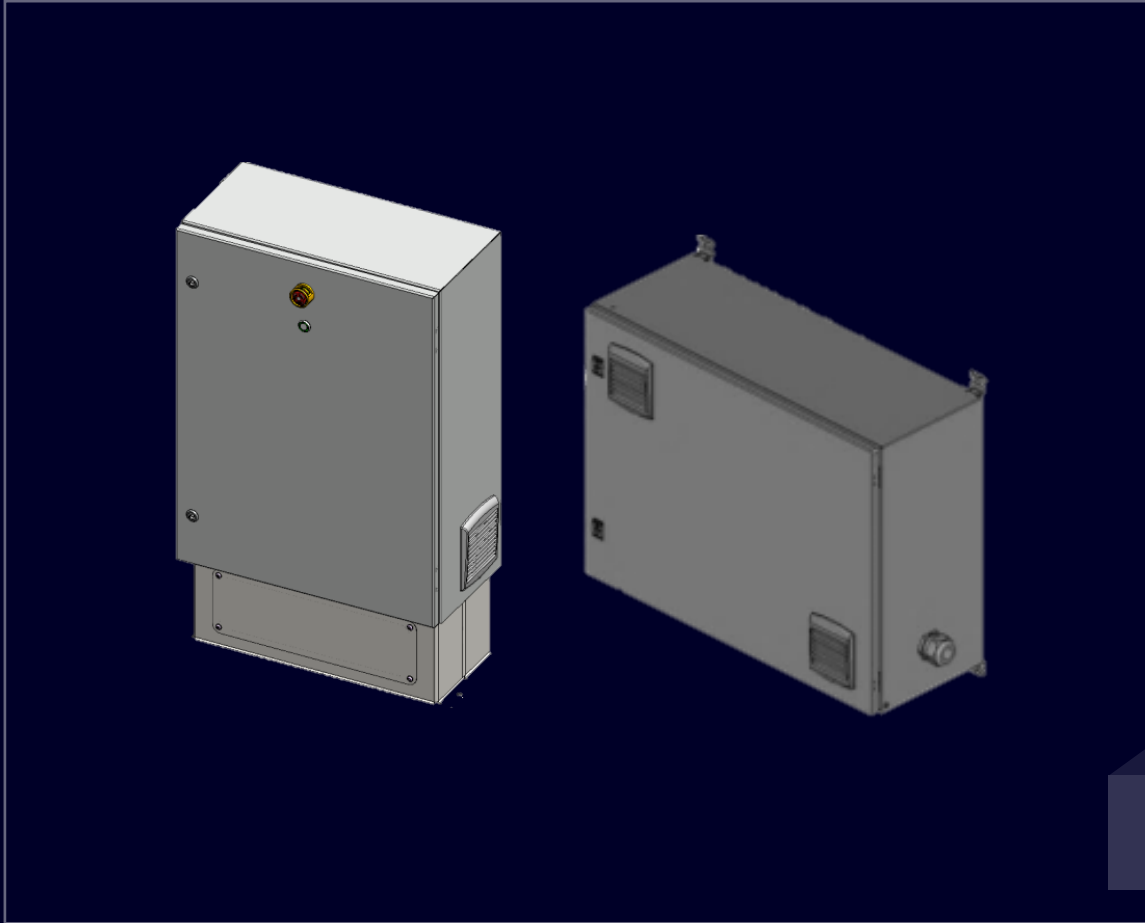
- Max 500 A DC current
- Convenient cable management
- 360° visibility
- User-friendly features
- RFID authenticator
- Optional MID DC meter and ERK meter
- Integrated LED screen
- Optional payment terminal
- Up to three dispensers can be powered by a single power unit

[Learn more](#)



Flex Dispenser Cabinets

Supporting gantry solutions, automated charging through cable reels, contact hoods and pantographs



Key features

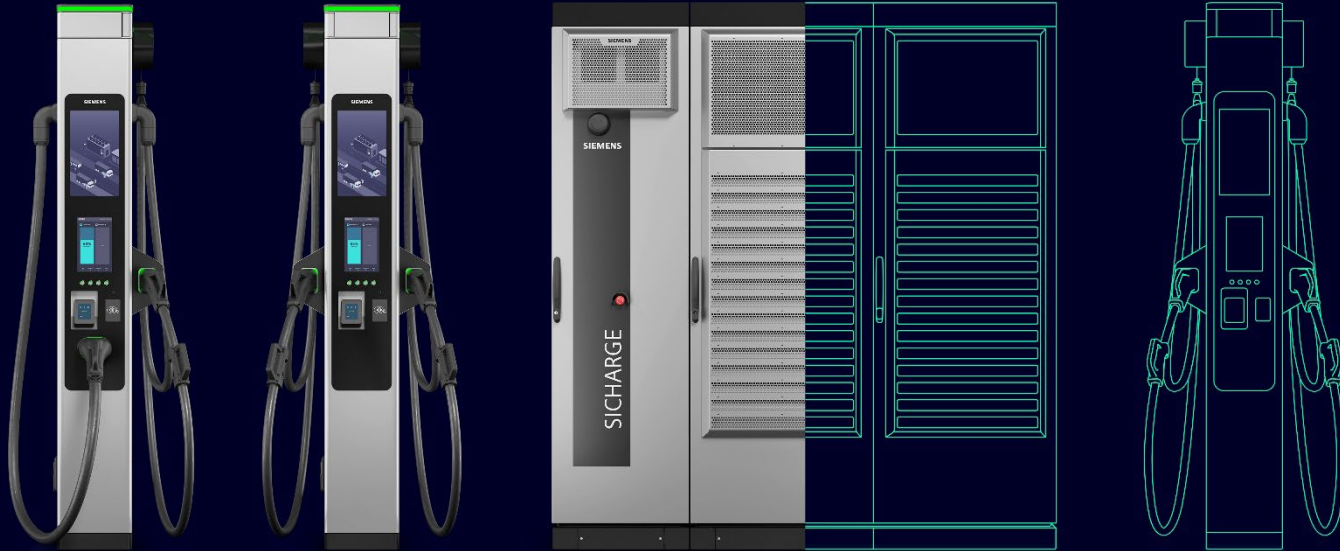
- Reliable power supply for charging heavy-duty vehicles
- DC current range from 250A up to 750A
- Supports charging with one contact hood or pantograph
- Supports automated cable reel solutions
- Easy installation

[Learn more](#)

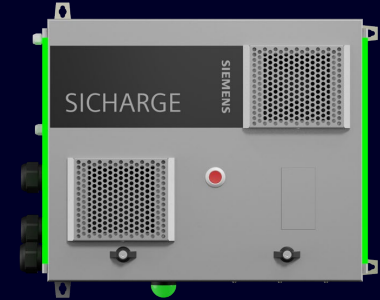


SICHARGE Flex

Distributed high-power charging system



Dispenser columns CCS/MCS + Power cabinets



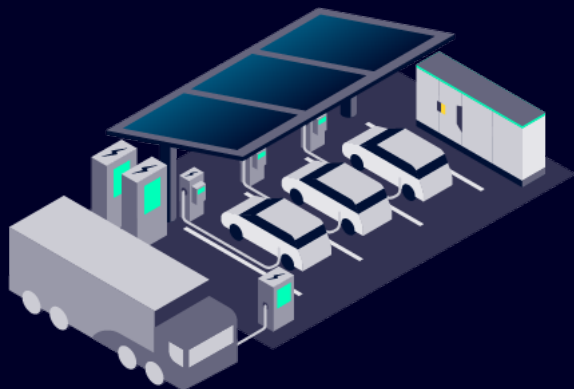
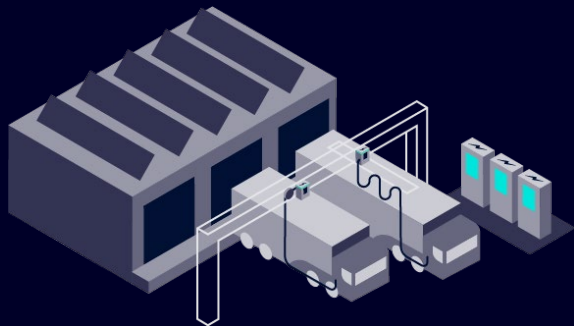
Dispenser cabinets CCS

<https://www.siemens.com/sicharge-flex>



SICHARGE Flex

Fast, dynamic and efficient distributed charging system



Charging redefined



Use cases
For heavy-duty vehicles
and busses



Power
From 240 kW
to > 1 MW DC



Charging time
30 min¹
fast charging

Highlights/Benefits



Outstanding performance
Up to 1500 A charging power
through MCS plug



System flexibility
Dispenser columns and cabinets
in different power levels



**Easy Installation
& configuration**
Pre-assembled in factory



Fully dynamic charging
Adaptable power levels for efficient
charging on any outlet

¹ Charging time varies by vehicle, state of charge and installed power

SICHARGE Flex

Designed for depot and public charging applications



Flexible



Reliable



Economical



	Efficient use of installed power		Future-proof and expandable in outlets and power capacity		Compact design to optimize space utilization		Easy installation with pre-assembly in the factory
	Optimized charging with fully dynamic power allocation		Modular design for seamless integration in depot and retrofit environments		Sturdy and durable housing with IK10 anti-vandalism protection		Exceptional user experience

SICHARGE Flex – Power Cabinets

Dynamic, compact and powerful



i

Industry leading power density
for maximum capacity **656 kW/m²**

Wide range of power levels
480, 560, 960, 1120, 1680 kW

Supports up to **300-meter**
dispenser distance, ideal for
challenging depot layouts

Fully dynamic power sharing
in **80/120 kW** increments

Pre-assembled in factory
for installation efficiency and ease

Provides dynamic power for
up to **6 outlets**

Very limited space claim,
cooling concept minimizes
installation area

SICHARGE Flex – Dispenser columns CCS/MCS

Adaptable, sleek and user-friendly



i

Various dispenser column options

- CCS 375 A air cooled, single or dual plug
- CCS 500 A liquid cooled, single or dual plug
- MCS 1500A liquid cooled (optional 800 A CCS plug)

Barrier-free access according DIN 18040-3

Optional **advertisement screen** for additional revenue or messaging

Ready to use for public or semi-public areas

Convenient **cable management**

Intuitive user interface with screen-assist buttons

Various **payment solutions** and **cable lengths**

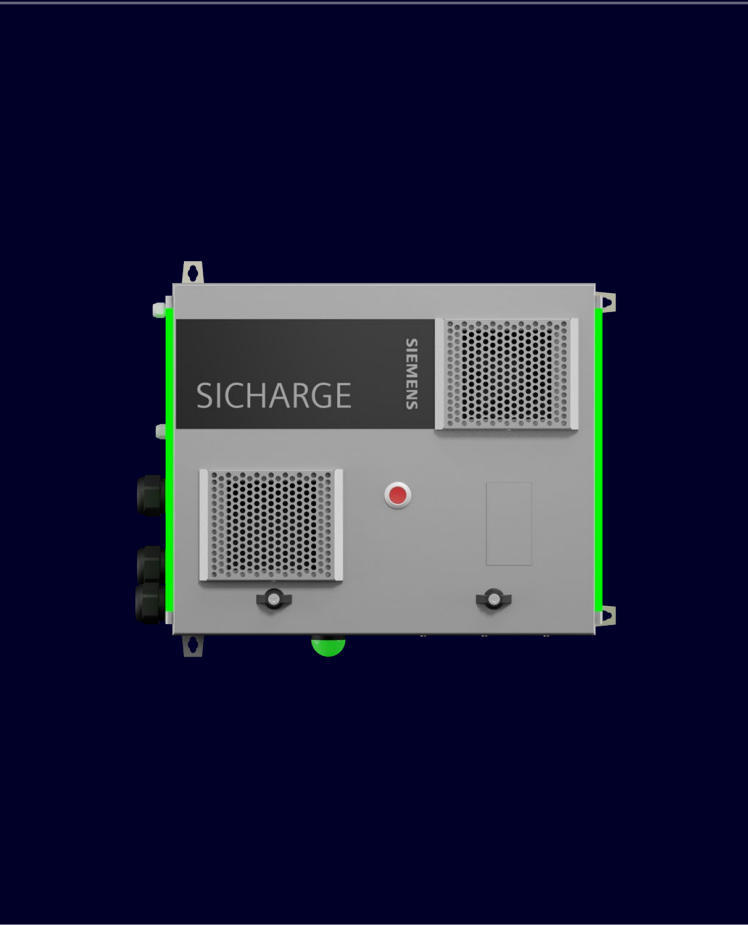
Very small footprint

CCS 375A: 0.10 m²

MCS 1500A: 0.19 m²

SICHARGE Flex – Dispenser cabinet CCS

Powerful and space efficient



i

Overhead mounted dispenser cabinets for depot applications with limited space

375 A continuous current via CCS plug

Various cable lengths

Wall-mounting optional

Convenient state of charge indicator

Support for external **cable management** solutions

Optional MID certified **DC meter**

Small footprint
CCS 375A: 0.16 m²

Software & Solutions

Transition to an eFleet –
Smart and effortless

What if ... charging go beyond hardware

Turn charging infrastructure into high-performance charging.

Providing end-to-end visibility, remote control, and smart energy management.

Unlocks maximum uptime & customer satisfaction, optimize energy use, simplify operations, and lower total cost of ownership across your fleet.

- ✓ Remote Monitoring
- ✓ Preconditioning
- ✓ Smart Scheduling
- ✓ Day ahead market

Experience beyond hardware

Delivering maximum uptime and reliable fleet performance at minimum cost



Sifinity Control

Your charging infrastructure always under control



Ensure high uptime and availability through real time insights and remote access



Critical infrastructure

Chargers are under multiple influences which are affecting the availability



Constraints

Small insights on the charger health without a site visit



Charger mgmt.

Easy charging mngmt. with deep insights on the charger health

Highlights/Benefits



Maximize **charger availability**



Reduce **service costs**

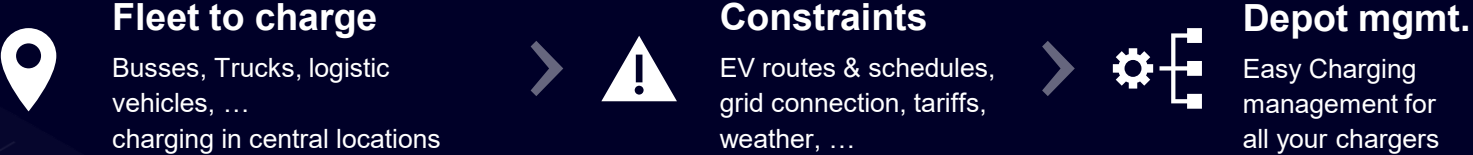


Customize **chargers** based on your needs



Manage **all charger lines** in one solution

Managing your EV depot



Highlights/Benefits



DepotFinity

More electric miles at lower CAPEX and OPEX



Key features

- Planning of charging – and optionally vehicle schedule – considering
 - Local constraints (grid limitations, site consumption, ...)
 - Vehicles (charge power, battery capacity, ...)
 - Routes (duration, length, schedule, weather, ...)
 - Fluctuating electrical tariffs (day/night, market)
- Extensive monitoring and reporting
- Cloud-based service with flexible hosting location
- Available as subscription packages
 - Connect (Starter Package with Monitoring, Reporting and basic smart Charging features)
 - Control (Advanced package to optimize operational cost for the scaling fleet)

[siemens.com/depotfinity](https://www.siemens.com/depotfinity)



eMobility Services Portfolio

Committed to your goals



SIEMENS

The importance of eMobility Services

Protect your investment with peace of mind



Focus on your core business while we ensure the long-term reliability, efficiency, and scalability of your EV charging infrastructure.

Highlights/Benefits



Assurance

High availability and consistent fleet performance.



Risk Mitigation

Comprehensive protection with rapid response.



Operational Excellence

Expert teams minimizing system disruptions.



Innovation & Prevention

Advanced diagnostics for optimal performance.

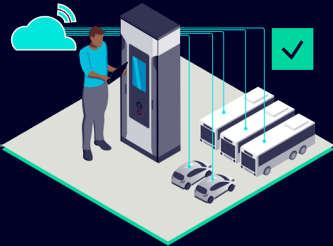
eMobility Services

Committed to your goals



Digital & Remote Services

Ensure the highest uptime and optimized performance of your charging assets.



Engineering & Integration Services

Guarantee the compatibility of your chargers with your fleet and backend to create a more efficient ecosystem.



eMobility Trainings

Benefit from firsthand knowledge and know-how, ensuring the highest quality support for your operations.



On-Site & Spare Part Services

Ensure peace of mind thanks to expert service directly trained by the manufacturer and authentic spare parts.



Upgrade & Retrofit

Increase the usage of your chargers and keep them updated to fit into the dynamic EV landscape.



Service Agreements

Tailored support from a reliable partner at a predictable cost for the highest uptime of your chargers.

Customer Stories

Shaping the future of electric mobility

SIEMENS



ENGIE Vianeo, France

Customer Challenge

- Paving the way for the mobility of tomorrow by strengthening the nationwide network of charging stations
- Deployment of public charging stations on a national scale, strategically positioned along French highways

Solution

- 320 SICHARGE D chargers installed at 64 ENGIE fast charging stations
- 251 SICHARGE D 300 kW and 69 SICHARGE D 160 kW high-power chargers, which are upgradeable to 300 kW
- 4 – 11 chargers per station

Customer benefit

- Future-proof modularity – easy upgrade of charging capacity to meet evolving charging requirements
- Freedom for drivers to charge at up to 300 kW for short charging sessions of around 30 minutes
- Maximum possible charging capability with dynamic power allocation



Cheap Charge, Sweden

Customer Challenge

- Aiming to provide fast, simple and cheap charging for everybody that has an EV
- Needed an efficient fast charging system that could be deployed nationwide
- Required a solution that could serve both personal vehicles and commercial fleets

Solution

- Implementation of a nationwide high-power charging network using SICHARGE D
- 100 charge points successfully commissioned to date
- Featuring SICHARGE D units with power capabilities of 320 kW and 400 kW
- Projected growth to > 400 charge points by the end of 2026

Customer benefit

- Fast charging available at strategic locations all over Sweden for maximum convenience
- Optimized charging: dynamic power allocation ensures efficient energy distribution for every session
- Flexible payment options to suit every preference



EWII, Denmark

Customer Challenge

- EWII has a desire to build the best network of charging stations in Denmark
- Their goal is to ensure that charging an electric vehicle is convenient, reliable, and accessible
- Provide high quality service to their customers

Solution

- 100 SICHARGE D (240/300/400 kW) chargers and 40 dispensers have been commissioned with a total of 280 charge points
- This charging infrastructure is installed at around 70 public charge sites across Denmark making EWII one of Denmark's largest Charge Point Operators

Customer benefit

- A strong partner in Siemens, that deliver high quality products and supports EWII's growth
- Effective and dependable fast charging solutions for eCar owners
- Flexible, scalable and future-proof charging infrastructure
- A service agreement to ensure operational excellency



Astor, Turkey

Customer Challenge

- Addressing the growing need for reliable, fast, and easily accessible charging infrastructure across Türkiye
- Ensuring that EV drivers can conveniently charge their vehicles at shopping centers, main roads, and travel routes without interruptions

Solution

- Deployment of Astor Charging Stations at Pelikan Mall, Elyacenter, and other strategically selected high-traffic locations
- Provided across Turkey a high-power charging solution with 238 Sicharge D units & 12 Dispenser units, delivering an average power output of over 280 kW per station
- 24/7 support is provided to ensure continuous operation of the high-power fleet

Customer benefit

- With reliable hardware, cloud-based management software, and continuous technical support, station availability reaches up to 99%
- Scalable solutions and flexible location options provide convenience and efficiency for both individual drivers and fleet operators
- Operational sustainability ensures uninterrupted fleet operations, supported by a high-power charging solution deployed across Turkey, while scalable and flexible solutions deliver greater efficiency, cost savings, and long-term value for both individual EV owners and fleet operators



Borusan EnBW, Turkey

Customer Challenge

- As one of the leading e-mobility providers in Türkiye, Borusan EnBW faces the challenge of meeting the rapidly growing demand for electric vehicle charging while ensuring network reliability and scalability
- Delivering fast, accessible, and user-friendly charging experiences at high-traffic locations across the country

Solution

- Deployment of Borusan EnBW DC fast-charging stations across Turkey, including 206 SID units and 5 Dispenser units with high-power rapid chargers.
- Smart charging software and real-time monitoring maximize efficiency and uptime
- Siemens provides digital services, periodic maintenance, and preventive maintenance to ensure the continuous operation of the entire network

Customer benefit

- Borusan EnBW collaborates with Petrol Ofisi, one of Turkey's largest fuel companies with over 3,000 stations nationwide, providing EV charging support across their network and ensuring uninterrupted service at high-power fast-charging stations
- With comprehensive end-to-end solutions, we provide continuous support at every stage



Hamburger Hochbahn, Germany, Alsterdorf, Carports 3 and 4

Customer Challenge

- Electrification of one of the largest and most modern bus depots for electric buses in Europe
- Total of 240 parking spaces to be equipped with charging infrastructure

Solution

- 96 x SICHARGE UC 150 charging points
- 2 x medium-voltage switchgears 8DJH (20 kV)
- 8 x low-voltage switchgear SIVACON S8

Customer benefit

- Reliable partner for the complete electrification of the depot
- Powerful charging with up to 150 kW
- Space-saving installation as technical center on carport's roof



vhh.mobility, Billbrook, DE

Customer Challenge

- Charging facilities for 41 solo and articulated buses at the depot in Hamburg-Billbrook
- The depot is adjacent to railroad tracks used by third parties for unloading goods

Solution

- Six bus lanes spanned by steel gantry, with a total of 41 charging points installed
- Installation of 41 Flex chargers and 41 dispenser boxes with automatic cable reels
- Technical building with smoke extraction system
- Fire protection wall to the monitoring system
- Connection to the existing load and charging management system

Customer benefit

- Design allows parking and charging in tight spaces
- Roll-off systems for charging cables prevent collisions with vehicles
- High charger efficiency of >96%



First Bus, Leicester, United Kingdom

Customer Challenge

- Building on the success of the UK's largest electric bus depots in Glasgow and York, FirstBus partners with Heliox to deliver charging infrastructure for 1,000 electric buses in Leicester
- This ambitious project electrifies a third of Leicester's entire bus fleet

Solution

- Heliox provided 39 chargers to support this expansion (29x 150 kW Rapid Modular Chargers, 11x 180 kW Flex Dynamic Chargers, and 2x 40 kW Mobile Chargers)
- The complete charging solution totals 6MW and can charge up to 74 electric vehicles simultaneously
- Some chargers feature Autocharge and a PAYTER terminal. This solution allows for the depot to be opened to Business-to-Business charging, providing much-needed charging infrastructure that local businesses can use during working hours
- This charging model has proven to reduce the total cost of ownership

Customer benefit

- This charging infrastructure will help reduce the city's carbon footprint by 91 tones of CO₂ per year and 44 tones of NO₂ – a main component of air pollution
- Heliox is proud to continue to be the selected charging partner for First Bus and support in their electrification journey towards a fully electric fleet by early 2030

Photo <https://assets.new.siemens.com/content/siemens/assets/ui/en/search.html#/search/all/electric%20bus%20uk/sid:5de82f87-5949-40c2-8a7f-3597a66034ce/overview>



CURE, Netherlands

Customer Challenge

- Cure Afvalbeheer is a Dutch waste management company aiming to reduce their emissions on various levels
- The company needed a reliable partner to realize the plan for all trucks to be powered by electricity by 2030

Solution

- During the first phase in 2020, Heliox installed a 300 kW charging solution for CURE's first electric truck
- In 2023, CURE expanded its charging infrastructure with 8 Flex chargers of a power range between 180 and 360 kW
- In addition, load management has been implemented to charge the electric trucks as quickly as possible, considering the limited grid connection

Customer benefit

- With the new upgrade charging infrastructure CURE can charge their truck in a fast, reliable and flexible way in their own depot
- For CURE the use of electric vehicles allows to collect waste at different times without disturbing people in densely populated residential areas. This desired benefit allows for two shifts instead of one, reducing the need for more trucks



TankE, Cologne, Germany

Customer Challenge

- Development of public charging infrastructure via tender by Stadtwerke Köln
- Implementation at various locations in and near Cologne
- Low grid capacities of max. 100 kW at almost all locations

Solution

- Framework agreement with 12 call-offs within three years
- Delivery of 70x SICHARGE D160 and 30x SICARGE D240
- Compact charging station with two integrated DC connections per location
- Customized wrapping of the chargers at the customer's site
- Delivery of the charging stations only; installation, commissioning, and operation by the customer

Customer benefit

- Dynamic power allocation between DC charging ports for maximum and optimal charging power
- Optional increase in DC charging power can be retrofitted
- Customized design through foiling



OMV, Austria

Customer Challenge

- Paving the way towards sustainability & becoming a net-zero emissions company by 2050
- Part of OMV's comprehensive approach to reduce CO₂ emissions in heavy transport
- Electrification of freight transport in an innovative & efficient way across Austria, Romania, Slovakia and Hungary

Solution

- SICARGE D with power between 320 and 400 kW are deployed at various locations throughout Austria, Romania, Slovakia, and Hungary
- Supports voltage range of 150-1000V and currents up to 600A
- Dynamic power allocation enables charging at up to 4 charging points simultaneously
- Roll-out has been scheduled in several batches with some sites already operational by end of 2025

Customer benefit

- Up to 400 kW of constant power for individually configurable, flexible charging processes
- Constant charging capacity specifically designed for heavy goods vehicles
- User-friendly operation with plug-and-charge functionality and automatic payment
- Future-proof technologies in accordance with all relevant standards, including barrier-free access



Sligro Food Group, Netherlands

Customer Challenge

- A need to decarbonize logistics by replacing diesel trucks
- Grid capacity limitations, including local constraints due to limited cabling
- Requiring a smart charging algorithm that could use every kW of available power as effectively as possible to maintain delivery schedules

Solution

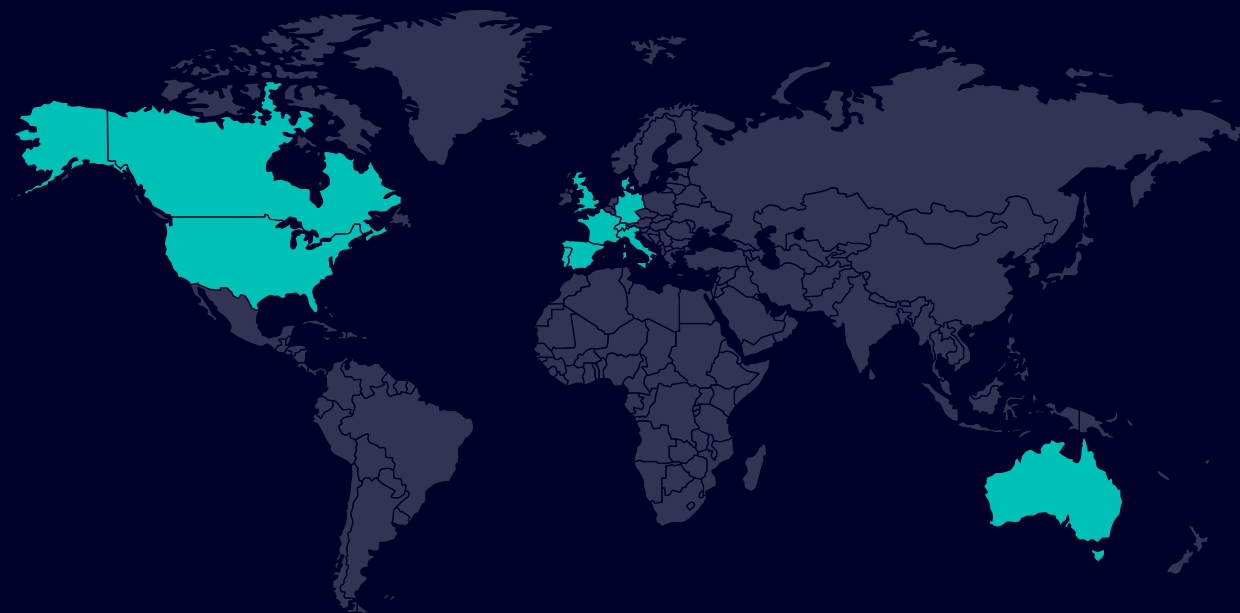
- 2.2 MW of charging capacity installed, optimized within a limited grid connection
- Heliox Flex chargers enabling both overnight and opportunity charging
- Dynamic Load Management system that maximizes use of available grid power

Customer benefit

- 50 electric trucks supported by reliable, efficient charging
- 36 charge points ensuring seamless daily operations
- Enhanced sustainability and energy performance across the fleet

DepotFinity examples around the world

	Digital depots	+ Charge points
DACH	39	>220
Portugal	13	>370
Spain	14	>130
USA & Canada	69	>2.350
UK	1	>50
Italy	21	>320
Belgium	5	>45
Australia	8	>75



Tailored SFS financing solutions complement the technology offering, creating a compelling offering for the eMobility market

SFS Offerings

Equipment financing

Enabling your customers to invest into latest eCharging technology e.g., leasing

Managed Service Agreements

An eCharging service delivery model that covers eCharging hardware, software & service against the payment of a monthly service rate

Extended Payment Terms

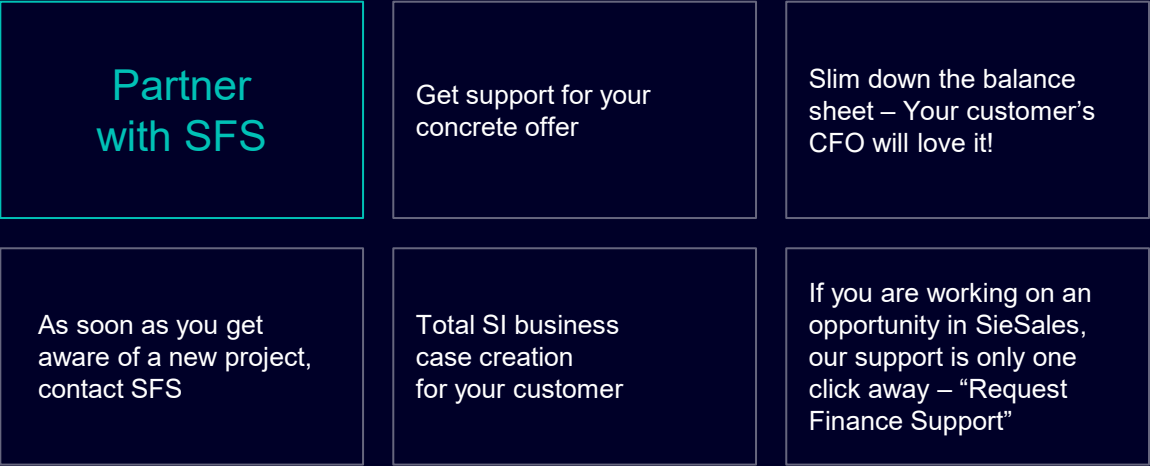
Flexible finance option to help your partners and customers bridging liquidity gaps between cash in & cash out

Corporate lending

Enabling customer archetypes to invest in eMobility ecosystem or corporation via SFS Equity or Debt contribution

Project & structured financing

Being a strategic partner in realizing eMobility ecosystem projects technically & financially



To do successful business together



Financial support

You can focus on your product and service expertise, while SFS adds the financing perspective.



Higher Competitiveness

With SFS, you have an even stronger partner who can offer products, technology, and financing from a single source.



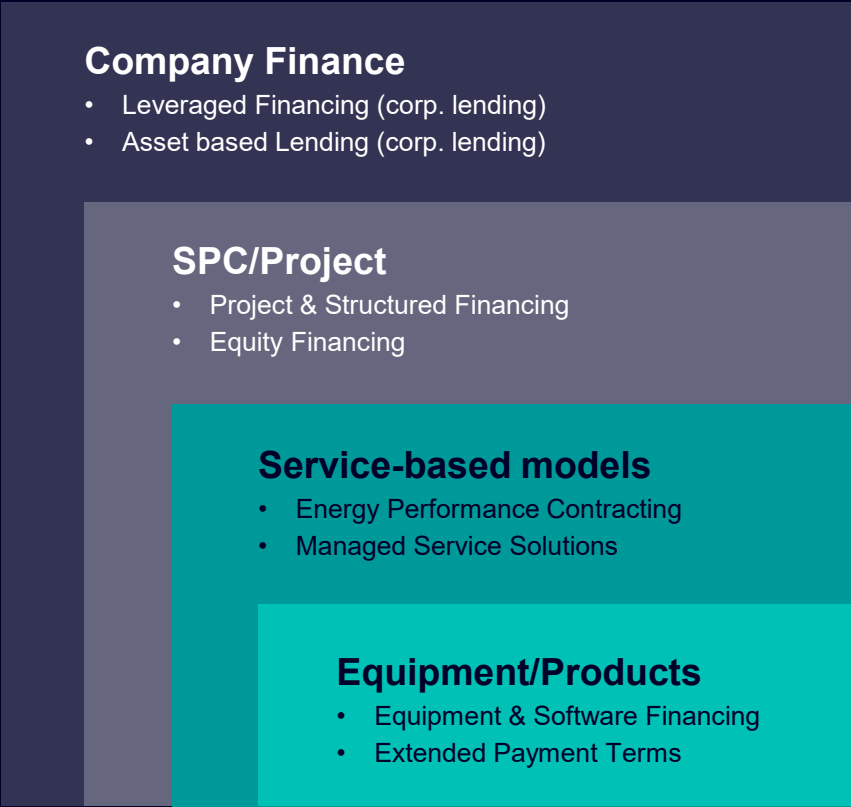
Better decisions

Technology and financing in one package – Siemens supplies charging technology, SFS the customized financing.

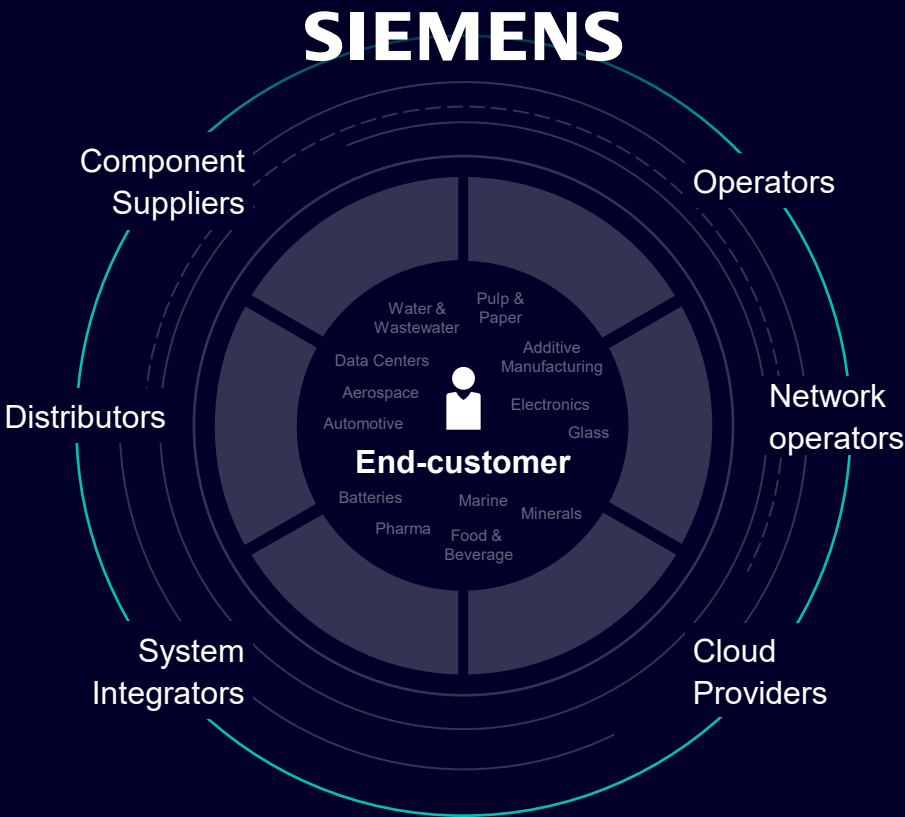
SFS Financial Solutions – Overview

A strategic financial partner that goes beyond traditional finance

How can we finance ...



... the ecosystem



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