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Siemens eMobility™

2022

Dan Laurent – eMobility Business Development

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The EV wave is here – More coming out in 2022, 2023...

Across all sectors of transportation

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Auto Market announcements:

- Ford Lincoln, Tesla Cybertruck, Rivian, VW ID, Lucid, GM Hummer, Lyriq, Hyundai Ioniq and many more.

Delivery / Work vehicles:

- Rivian-Amazon, Arrival-UPS, Penske, Workhorse, and more.

City eBuses / School buses

Electric Semi Truck

Why is the Market Growing at Such a fast pace?

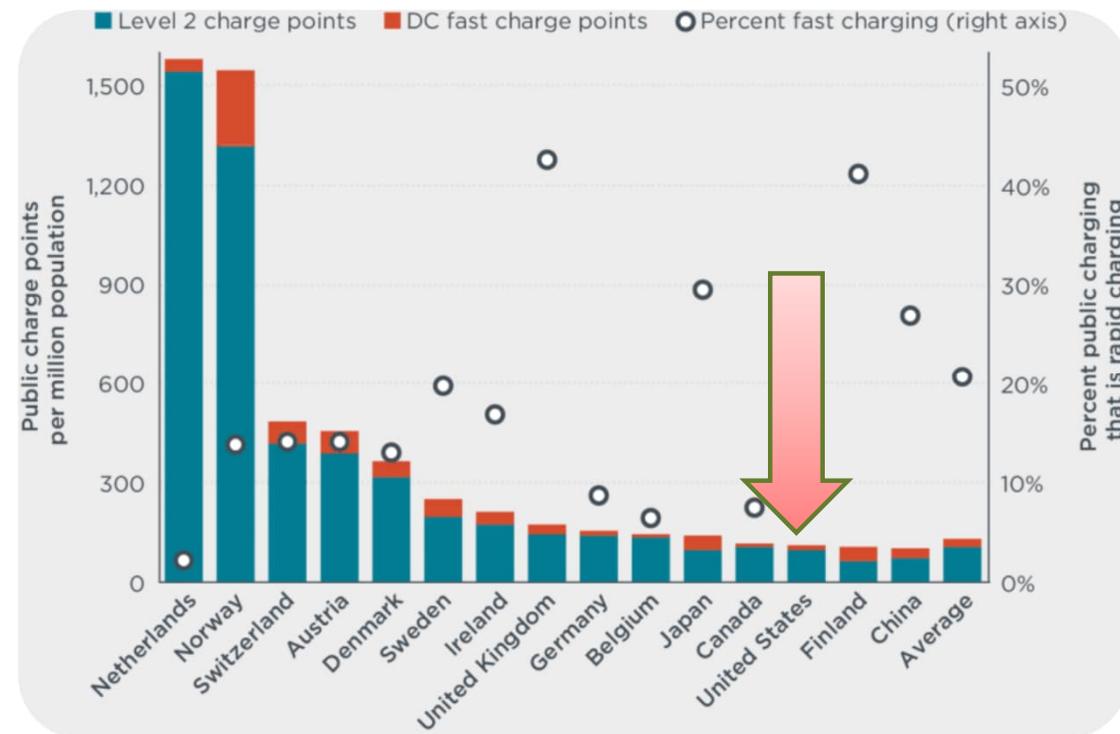
Vehicle side and Charging side improvements



- **Electric Vehicle Battery cost continues to drop**
Was \$1100/kWh in 2010 and now less than \$125/kWh
- **Affordable EV Cars**
Cars from all manufacturers Ford, GM, Kia, Mitsubishi, Hyundai, BMW, Mercedes, VW are now spread across the price range to have more choices like gas vehicles.
- **Charger Availability continues to increase**
The US has installed over 100,000 chargers since 2013 and spent \$1.5 Billion

The US is still ranked 13th in chargers per million people

Large potential for growth in charging and support infrastructure



New infrastructure funding for eMobility

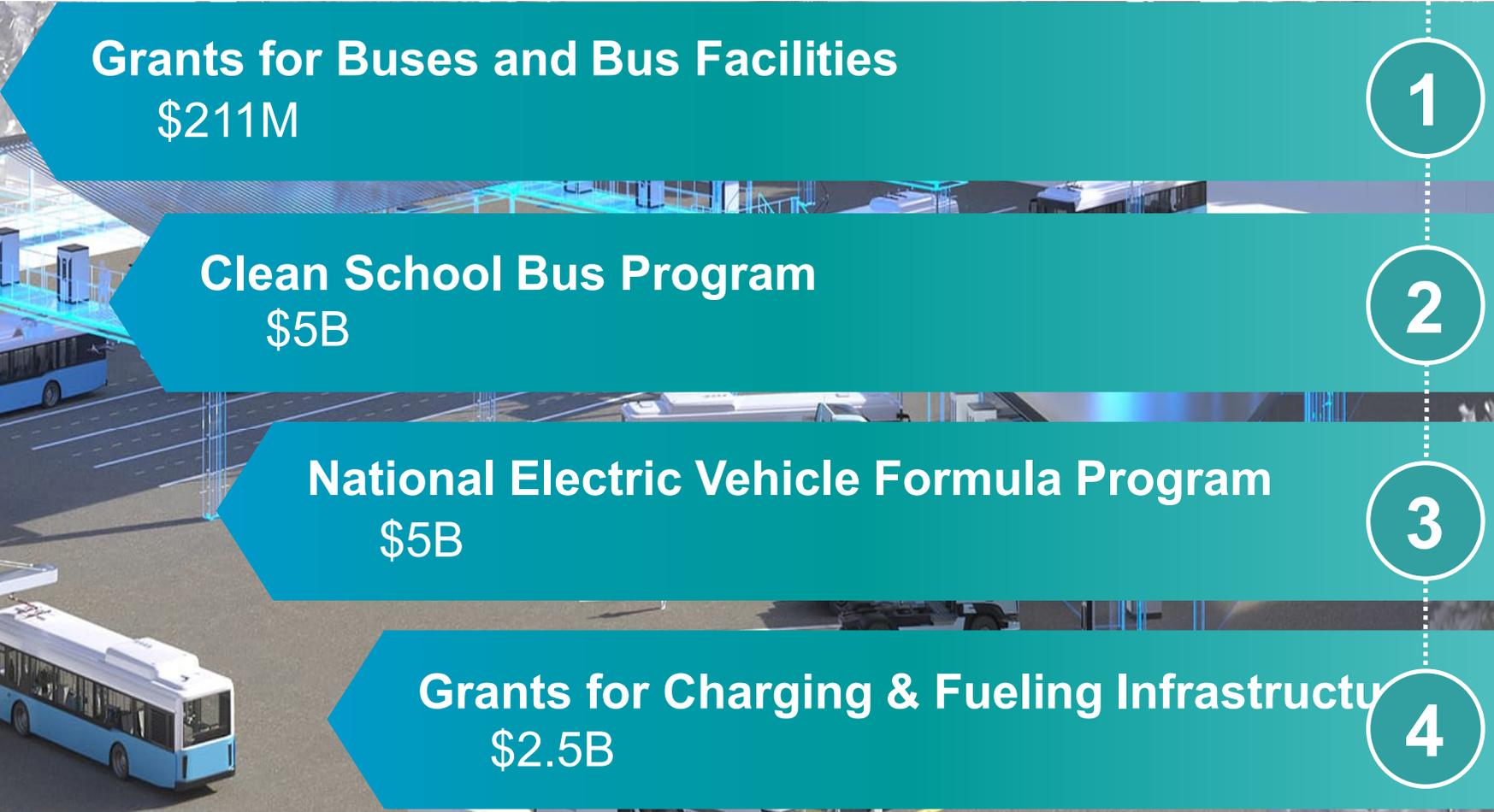
The bipartisan Infrastructure Investment and Jobs Act (IIJA) signed into law on November 15, 2021, will provide over \$12.5 billion to support the build out of a national EV charging network and to electrify our nations buses:

- **Grants for charging & fueling infrastructure:** \$2.5b (over 5 years)
- **Low/No Emission Buses:** \$206m a year (additional funding to existing program)
- **National Electric Vehicle Formula Program:** \$5 b (over 5 years)
- **Clean School Bus Program:** \$5b (over 5 years)



By staying a step ahead of the grid's challenges, utilities and electric operators can optimize less developed networks towards a future-oriented smarter, more resilient grid.

Key Programs of Infrastructure Investment and Jobs Act (IIJA)



Incentives Also Continue to Drive EV Growth at all levels

Residential, Public Use, Commercial and Industrial Markets



peco
AN EXELON COMPANY

Electric Vehicles

Level 2 (L2) Commercial Electric Vehicle (EV) Charging Pilot

The Level 2 Commercial EV Pilot is designed to incentivize the build out of EV charging infrastructure by offsetting eligible make ready costs. Customers can receive rebates for up to 20 ports.

How Much Can I Get?

Two Different Rebates Available*	
Projects within PECO Electric Service Territory	Lesser of \$2,000 per port or 50% of make ready costs
OR	
Projects also located within Environmental Justice Areas	Lesser of \$3,000 per port or 75% of make ready costs

Did You Know?
Vehicle emissions present one of the most significant air quality challenges for Pennsylvania, and electric vehicles provide an opportunity to reduce ground level emissions.

What is Level 2 Charging?
Level 2 is a medium-speed charging standard supported by most EV manufacturers. The chargers require 208-volt or 240-volt electricity and come in a variety of sizes up to 80 amps.

What Else Do I Need to Know?

- Customers are required to apply prior to the start of charging station projects.
- Program incentives are available to commercial and industrial PECO electric customers, including those who choose a competitive electric generation supplier.
- Customers receiving rebates must provide data from the EV charger(s) for two years.
- The Pennsylvania DEP also offers EV charging rebates. For more details, visit bit.ly/drivingpa. The PECO rebate in combination with government incentives shall not exceed the total cost of equipment, installation, and make ready costs.

*Funds are limited and subject to availability. Program begins April 1, 2022.

EVsmart
DEP of Environment

peco.com/EV

Incentives / Resources in Pennsylvania

Driving PA Forward – DEP – Multiple programs

- Level 2 Program - \$9.2M over 5 years

PECO – Commercial Level 2 program

Dept. of Energy – Alternative Fuels Data Center

U.S. DEPARTMENT OF ENERGY Energy Efficiency & Renewable Energy

Alternative Fuels Data Center

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EEFDC • AFDC • Tools

State Information

Select a state below to find state-specific information about alternative fuels and advanced vehicles, including laws and incentives, fueling stations, fuel prices, and more.

State Resources

- State Data – U.S. Energy Information Administration
- National Association of State Energy Officials (NASEO)
- Maps and Data – Alternative Fuels Data Center
- Maps – National Renewable Energy Laboratory
- Electric Vehicle Infrastructure Projection Tool (EVI-Proj) Lite

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Available rebates for your charger

Did you know that many local utilities offer rebates on Siemens chargers? Click below to see what rebates are available in your area.

New York	California	Michigan	Massachusetts	Maryland	South Carolina
PECO - Long Island					
NYSEG - New York					

Looking for a list of all state laws and incentives?
 * Alternative Fuels Data Center
 Click here to view each state's laws and incentives related to alternative fuels and advanced vehicles.

Driving PA Forward

Driving PA Forward

Pennsylvania Department of Environmental Protection

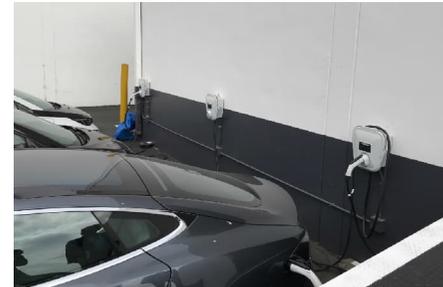
Who is Buying Into this new EV Market?

They will all need electrical equipment

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- Commercial Buildings
- Residential Homes
- Parking Garages
- Hospitals
- Airports
- Universities
- K-12 Schools
- Cities/Towns
- Convention Centers
- Transit Companies
- Golf Courses
- And more

Any destination locations.



Gas versus Electric Vehicle Costs

General overview

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Comparison: Commute of 250 miles a week + 50 miles on weekend = 300 miles / week
Monthly [4 weeks] = 1200 miles

GAS Car:

Ford Fusion

- 18 gal tank – 25 miles/gal, 405 mile range
- 10% full to 100% full = 16.20 gal
- Gas - \$2.50 per gal = \$40.50
- Gas Monthly = 3 refills
- **\$121.50 per month**



ELECTRIC Car:

Tesla Model 3 Long Range

82kWh – 310 mile range

10% full to 100% full = 73.80 kWh

Home Charger – \$.08 per kWh = \$5.90

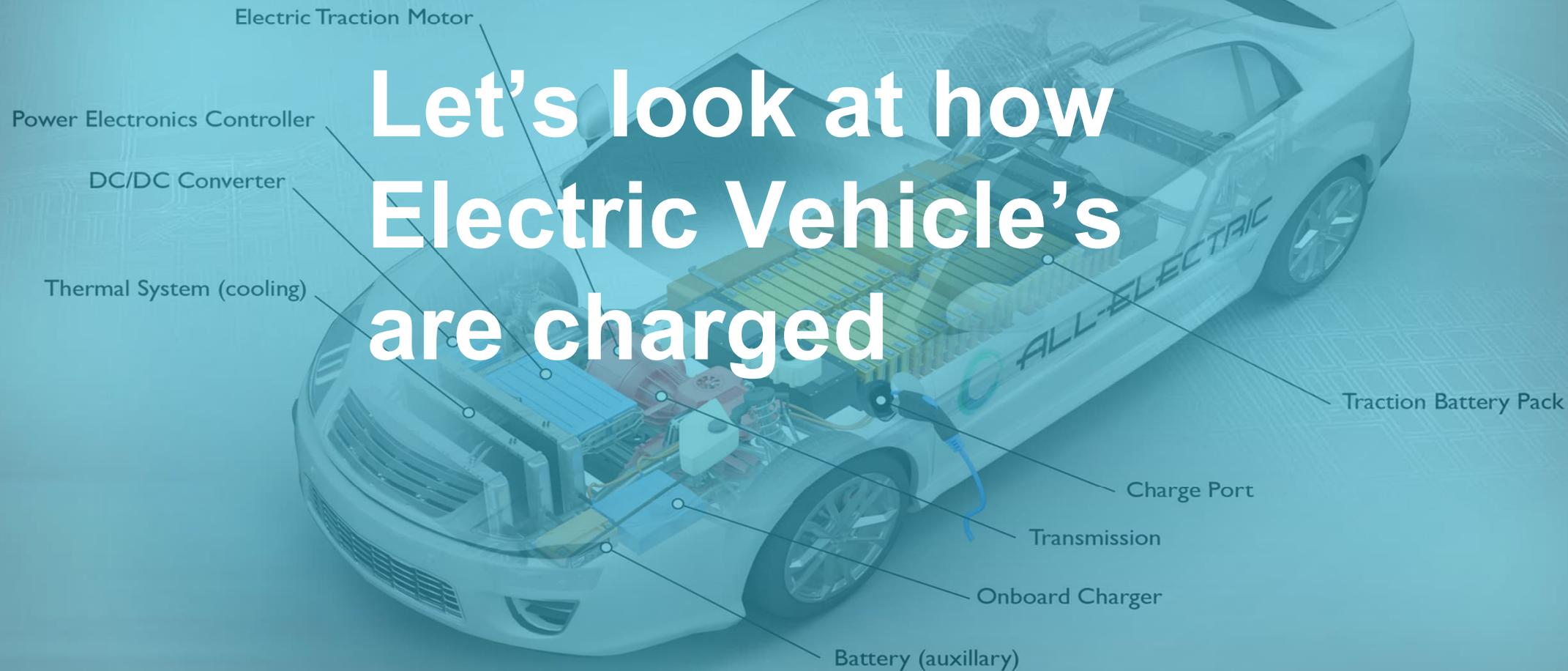
Electric Monthly = 4 refills

\$23.60 per month

Additional benefits
include no oil
changes, coolant
changes, etc.



Let's look at how Electric Vehicle's are charged



Electric Vehicle Supply Equipment (EVSE) Battery Charging Methods – AC vs DC

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eMobility offers both product types of EVSE

- **Onboard inverter inside the EV**
- Charging infrastructure has a small footprint and low investment cost
- Charging power rates depend on car inverter and electrical supply
- **Slower charge**

Perfect for long term parking locations

- **Inverter in the charging infrastructure**
- Lower investment cost in vehicle and larger footprint and investment in charging infrastructure
- **Higher Power charging allows faster charge**

Perfect for fast charging and large capacity battery vehicles

Electric Vehicles 101 ... EV Charger Connectors



Typical connector types seen around the U.S. & World
for AC & DC systems. Most common versions are outlined below



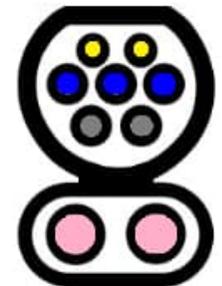
SAE J1772
Type 1 (AC)
US / EU
cars



TESLA
(Only for a Tesla)



CHAdeMO (DC)
(Japanese Vehicles)



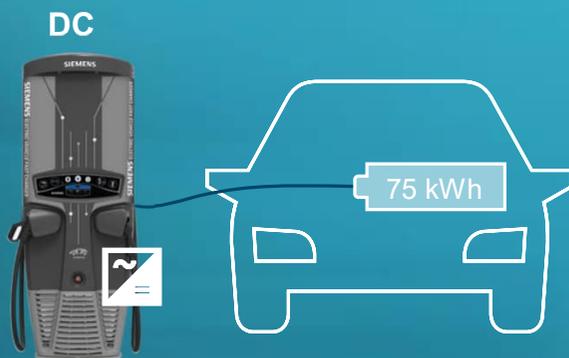
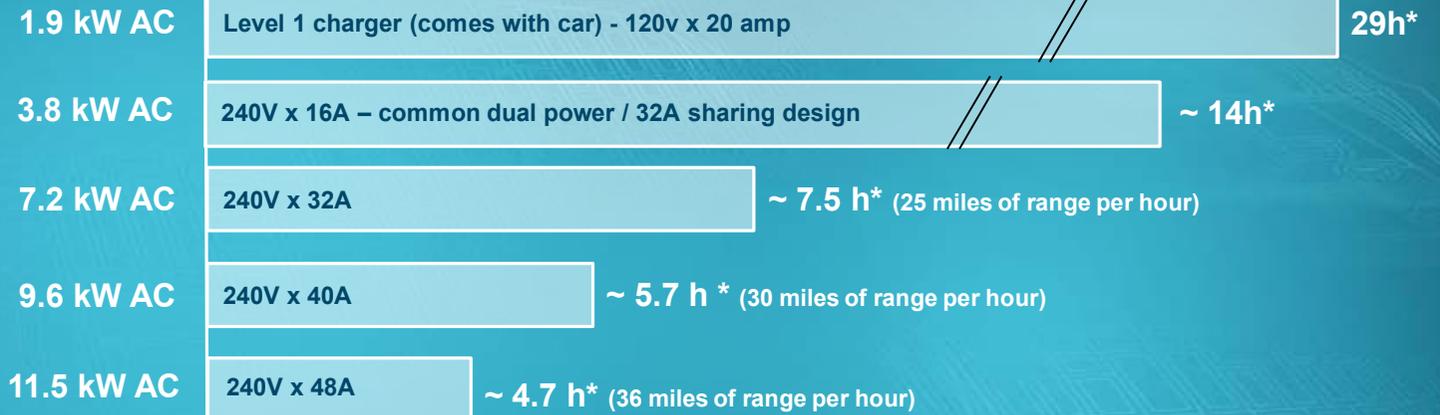
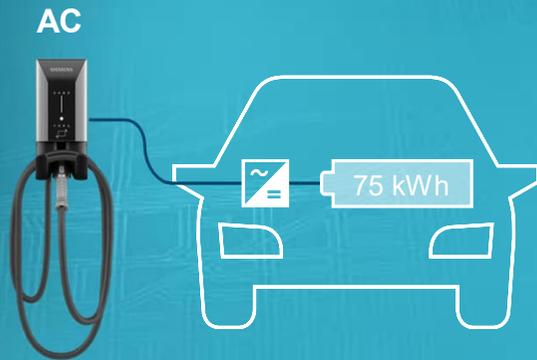
SAE / CCS Combo
AC & DC

* CCS = Combined Charging Standard

Common “Re-fuel charging” times for an average Electric Vehicle

Example based on 75 kWh battery charging from 15% to 80%

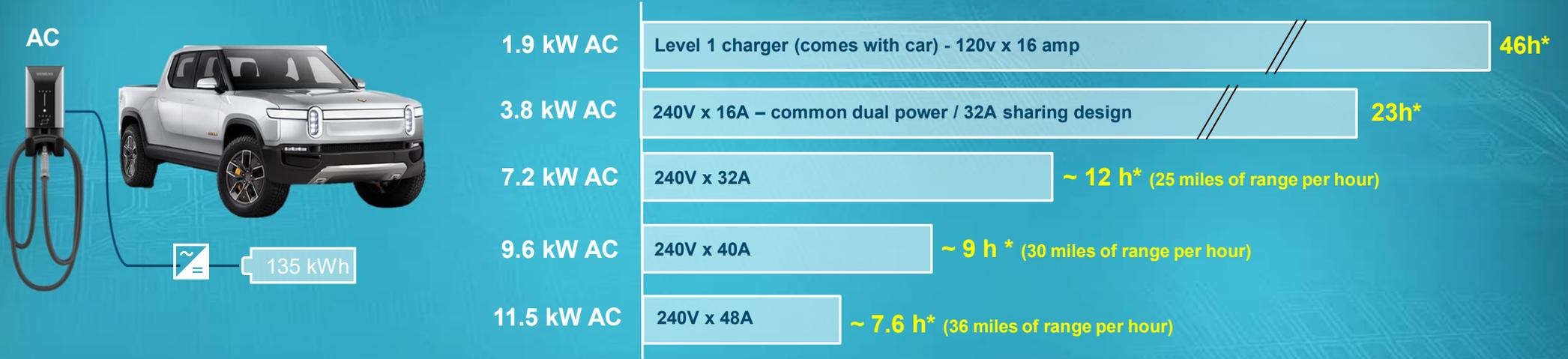
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DC Fast charging uses 277/480v, 3 phase power. Breaker amperage is 100A for 50kW and increases to 250A for 175kW

“Re-fuel charging” times for an average EV Pickup

Example based on 135 kWh battery charging from 15% to 80%



So... At a minimum you'll want a 48A charger



eMobility Open Ecosystem Offering

The industries most comprehensive Electric Vehicle offering

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Commercial & Residential AC Chargers "Level 2"



Name: VersiCharge

Home, Workplace, Utility, Parking areas, longer-term stop locations

* **9.6kW & 11.5kW**

- Cell, Wi-Fi, **OCPP, Modbus** I/O, RFID / QR Code
- Hours to charge

DC Fast Charger "Level 3"



Names:

Ultra50™ / Ultra175

Primarily car, short term stop locations or higher wattage EV's

- **50kW / 175kW**
- Wi-Fi, Cell, RFID, Credit Card, OCPP coms
- 30 min to charge

DC Heavy Duty Plug-In Charger



Name: SiCharge UC™ Plug-In

- Fleet, eBus & Depots
- **150- 600kW, 100-950V**
- Up to "4" remote dispensers or Pantograph

Overhead Bus Charger



Name: SiCharge UC Pantograph™

- eBus & Fleet charging
- On-route or Depot charging
- **300kW - 600kW**
- Minutes to charge

Cloud Service Offerings



Names: Care, Connect, Charge and Control

- IoT cloud Reporting, trending, control, alarming and billing
- Open connectivity to any OCPP charger

VersiCharge™ G3 Level 2 Chargers

Residential and Commercial Product Offerings



Residential



Smart (with communications)

- **Smart** – WiFi, metering, web pages, OTA updates, OCPP protocol to meet Utility requirements for rebate programs

Two power levels:

- **9.6kW / 40A** - hardwired or plug powered with 20ft charging cord. Requires 208/240V, 50A, 2pole
- **11.5kW / 48A** - hardwired with 20ft charging cord. Requires 208/240V, 60A, 2pole

Commercial



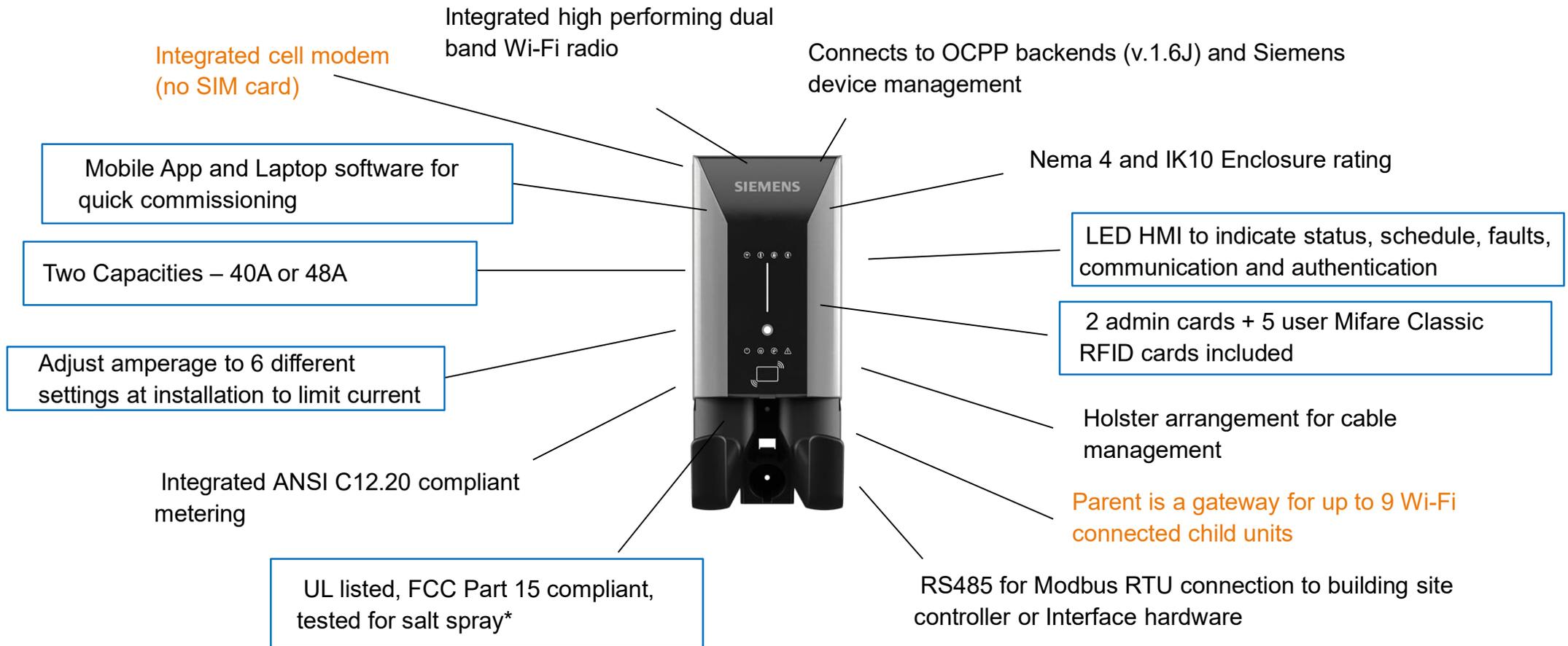
Child (Advanced WiFi Charger) Parent (Child with Gateway)



- **Same power levels – 40A and 48A**
- **Child** –
 - Advanced functionality that is upgradable OTA
 - Revenue accurate metering,
 - Onboard data logging and web pages
 - WiFi communications,
 - RFID with Admin and Client cards
 - Modbus serial and TCP communications
 - OCPP communications for cloud service billing and remote management
- **Parent** – Same as Child but adds cell modem and functionality to serve as a gateway and support up to 10 WiFi chargers

VersiCharge™ AC Gen3 Level 2 Chargers

Commercial Variants - Parent and Child Models



Note: Orange items only in the Parent version

VersiCharge™ AC Gen3 Level 2 Integrated Charging Solutions

Options and customization - Accessories Posts // RFID cards

Posts and Cable Retractors



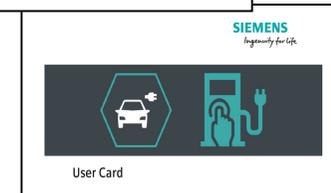
Wall Mounting
(Standard)

Dual Post
(Optional)

Cable Retractor
(Optional)

RFID cards – Commercial versions only

- Tag type: Mifare Classic
- Each charger will ship with 2 admin and 5 user cards
- The admin card is specific to the charger and can be used to add and remove user cards



Versicharge Installations

Multiple layout designs to meet any installation

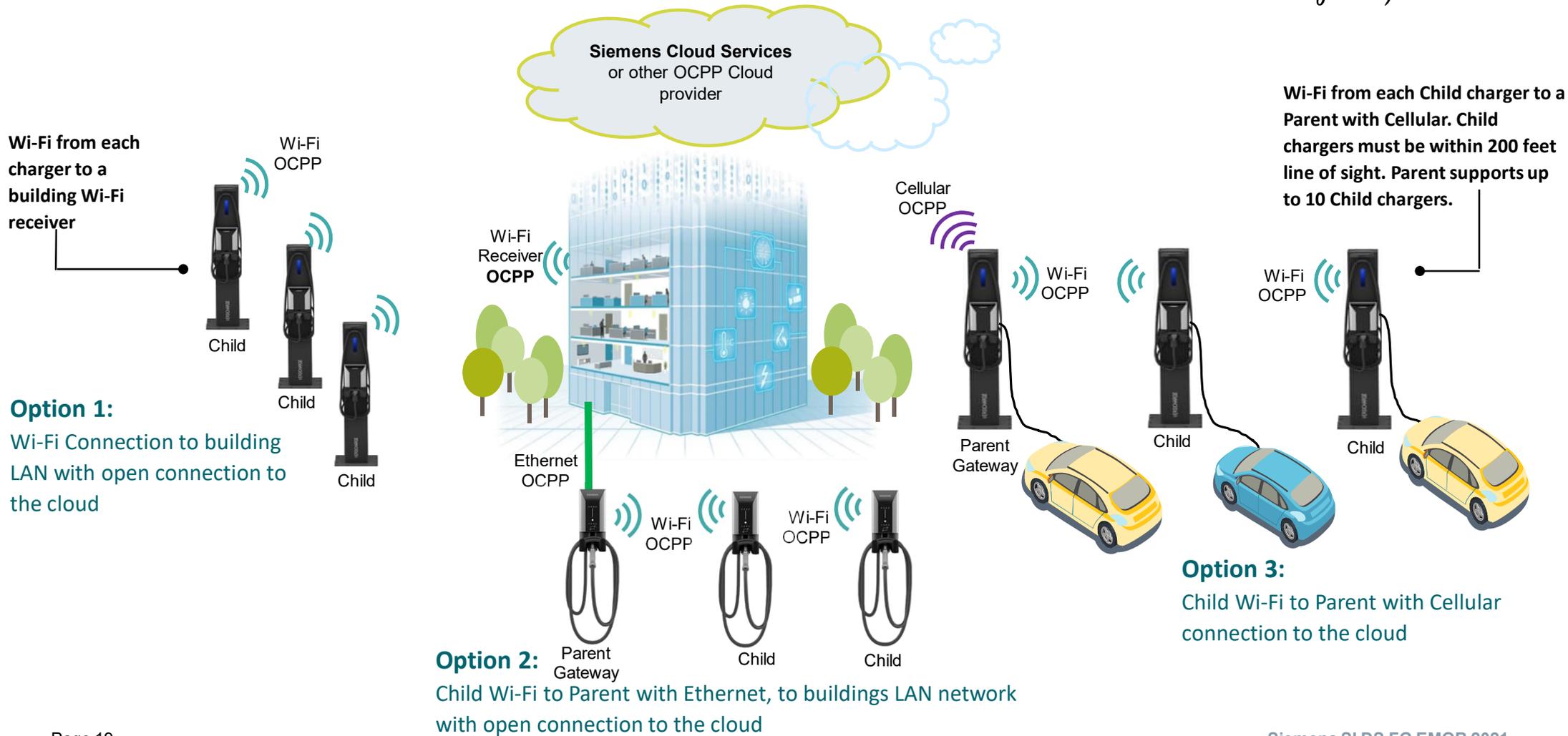
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VersiCharge™ G3 Commercial Network Connectivity

Siemens Cloud (OCPP) Billing & Control Solutions

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Wi-Fi from each charger to a building Wi-Fi receiver

Wi-Fi OCPP

Child

Child

Child

Option 1:

Wi-Fi Connection to building LAN with open connection to the cloud

Wi-Fi Receiver OCPP

Ethernet OCPP

Wi-Fi OCPP

Wi-Fi OCPP

Wi-Fi OCPP

Parent Gateway

Child

Child

Option 2:

Child Wi-Fi to Parent with Ethernet, to buildings LAN network with open connection to the cloud

Cellular OCPP

Parent Gateway



Child



Child



Child

Wi-Fi OCPP

Wi-Fi OCPP

Wi-Fi OCPP

Wi-Fi from each Child charger to a Parent with Cellular. Child chargers must be within 200 feet line of sight. Parent supports up to 10 Child chargers.

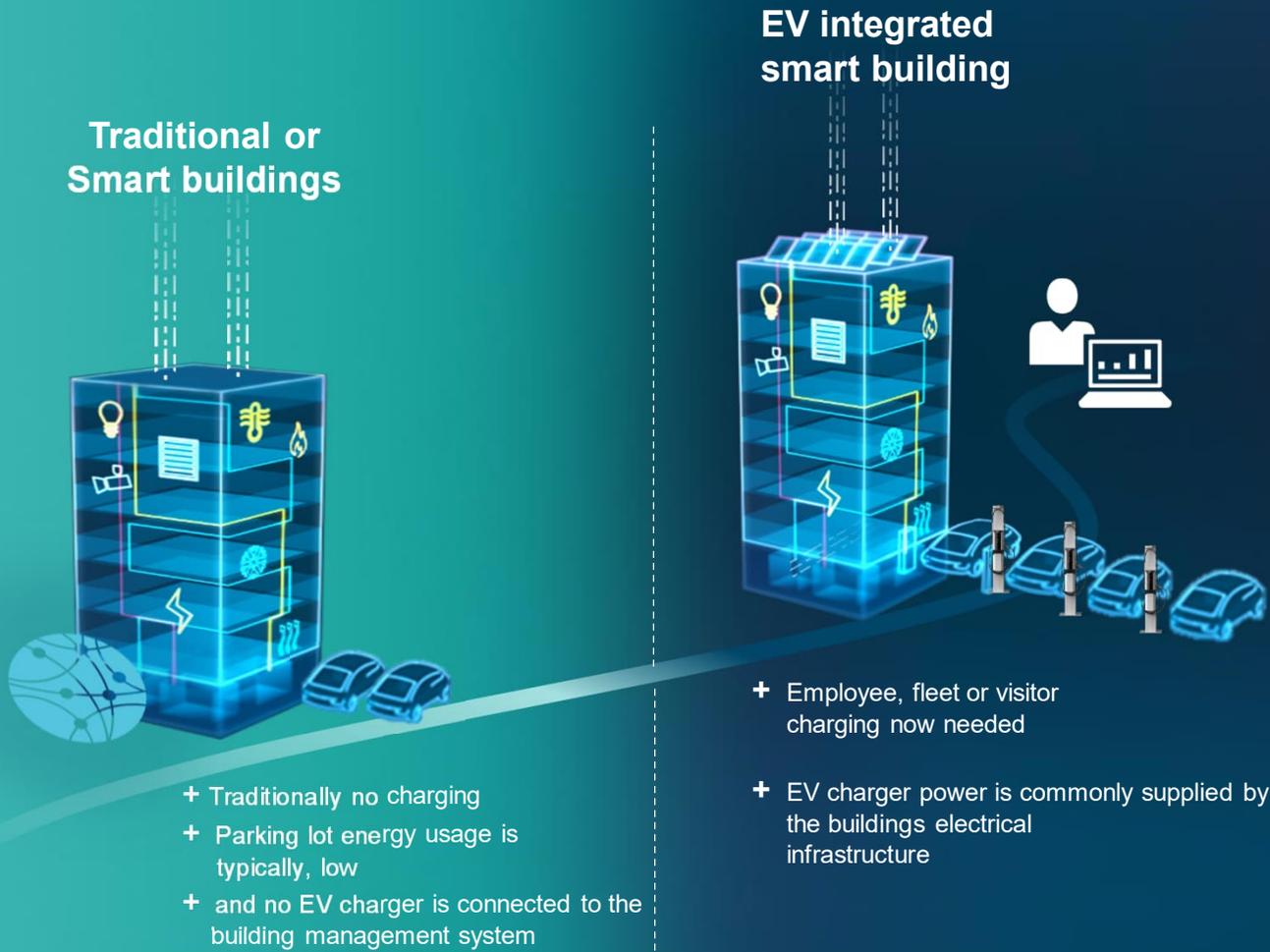
Option 3:

Child Wi-Fi to Parent with Cellular connection to the cloud

Electric Vehicle Building Impact

The affect of EV charging to a building's energy load

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Typically Power Rating for an AC charger

11.5kW

(Equal to 191 / 60-watt light bulbs)

The average office building is now putting 10+ chargers that could pull

Up to 115kW

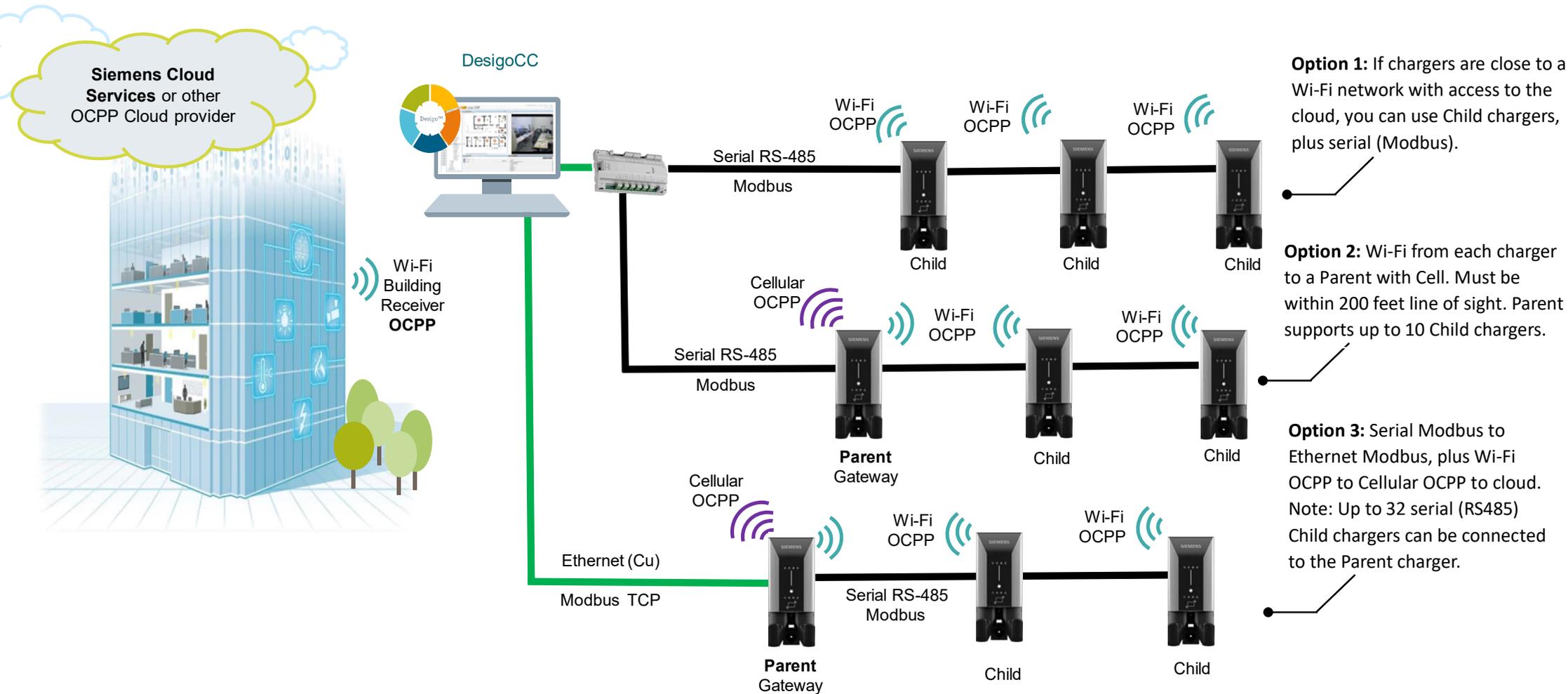
Of energy that needs to be managed and controlled

(Equal to 1,910 / 60-watt light bulbs)

VersiCharge™ G3 Commercial Network Connectivity

Smart Building Management (Modbus) and Billing / Support (OCPP) Solutions

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Option 1: If chargers are close to a Wi-Fi network with access to the cloud, you can use Child chargers, plus serial (Modbus).

Option 2: Wi-Fi from each charger to a Parent with Cell. Must be within 200 feet line of sight. Parent supports up to 10 Child chargers.

Option 3: Serial Modbus to Ethernet Modbus, plus Wi-Fi OCPP to Cellular OCPP to cloud. Note: Up to 32 serial (RS485) Child chargers can be connected to the Parent charger.

Now, lets look at Software to Manage the Chargers...

Electric Traction Motor

Power Electronics Controller

DC/DC Converter

Thermal System (cooling)

Traction Battery Pack

Charge Port

Transmission

Onboard Charger

Battery (auxillary)

eMobility Cloud Service Offerings

Providing easy to implement options for all EV users / drivers / owners



Owners Need Assistance and Tools to Manage their Chargers [assets]

Electric Vehicle Service Providers (EVSP) fills this role – They manage the chargers from the cloud via OCPP protocol

Yearly Cloud Service Options

Flexibility and uptime with all EV solutions – Siemens offers three cloud service packages for applications with owners, utilities or third-party management companies.

CARE

Charger Updates / Device insights

CHARGE

Adds: OCPP billing support, basic control, RFID management

CONTROL

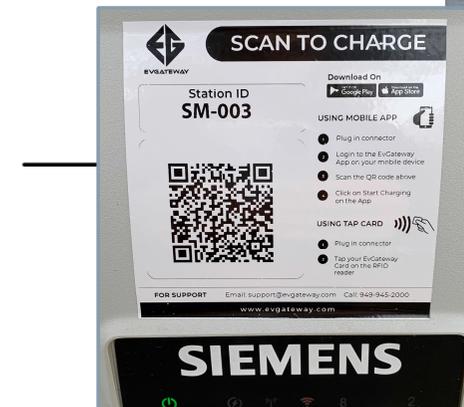
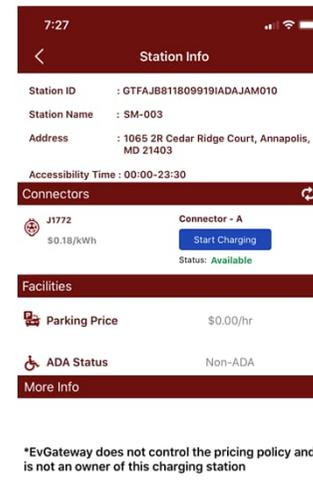
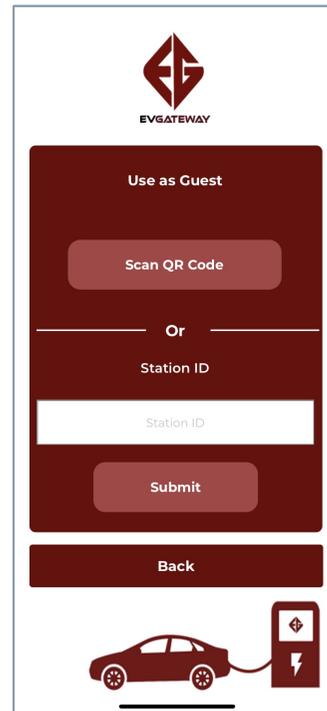
Adds: Smart charging for Max load or Dynamic Mgmt.

Monetize the Siemens Charging Infrastructure Solution

Through Cloud Services at Level 2 AC



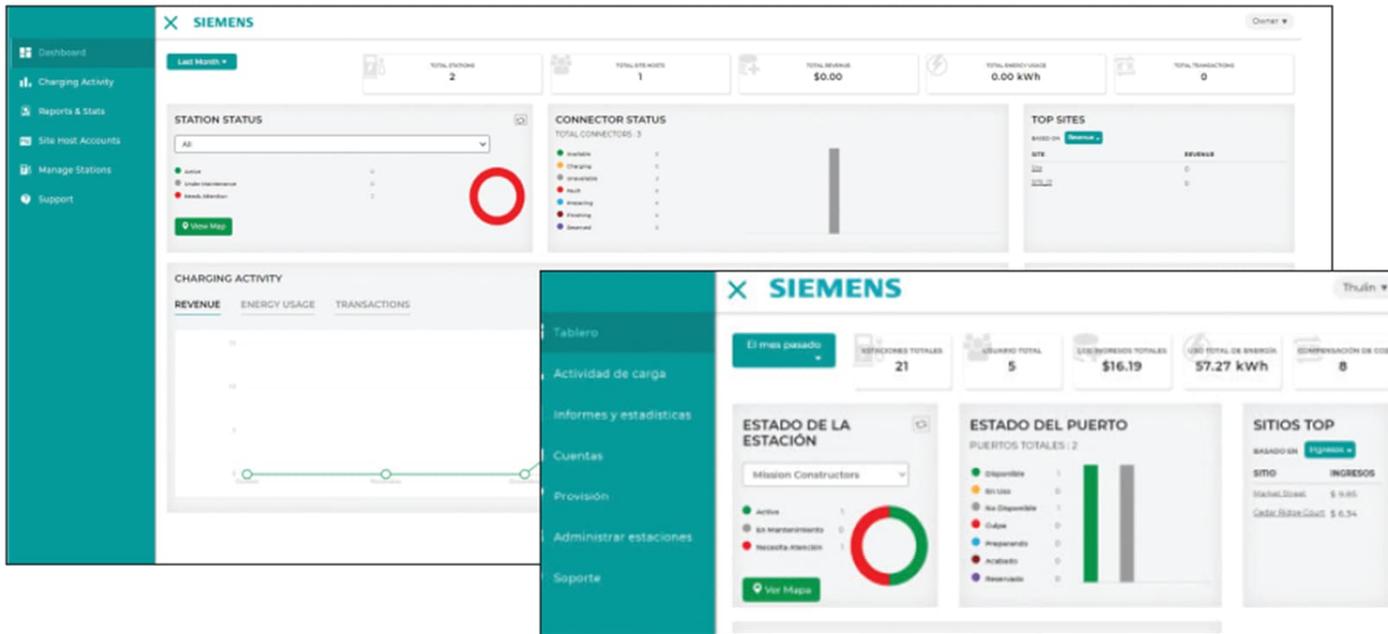
- **Monetization through Cloud Services and open OCPP protocol**
 - WiFi or hardwired Ethernet communications built-in to the hardware
 - OCPP Protocol standard
 - Cloud Services to manage charging hardware, billing transactions, RFID management, Dept. allocation, reporting
 - Support for WEX Fleet Cards
 - Services are per charger per year
- **Owner decides use structure**
 - Mixed or Dedicated Use
 - Access control
 - Fees – Rates per kWh, Connect Fees
- **Siemens partners with EVGateway on standard construction projects**
 - owner option to use other EVSP – Greenlots, EVConnect, AmpUp, etc.



eMobility Open Ecosystem Cloud Services

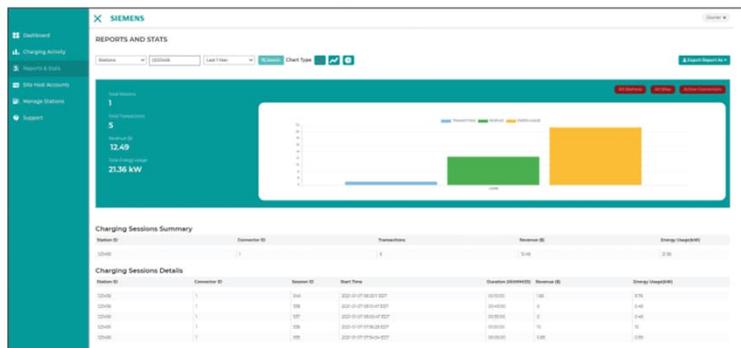
EVGateway Cloud Portal and Driver App

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Powerful Management Tools

- Transaction List
- Owner/Driver Charging Activity
- Manage Drivers
- Credits / Gridkey
- Edit Profiles
- Dealer Accounts
- Add/Edit Dealer Account Details
- Manage Owners
- Edit Owner Account Details
- Add/Edit Plug Settings
- Reset/Delete a charging station
- Add/Edit Station Details
- Change Password
- Change Security Questions
- Map Chargers
- Dashboard for most usage, most activity, conditional status



How to specify a Siemens VersiCharge AC

Simple and quick

- **Pick out your Charger**
 - **Pick a charger – Ignore Resi and Commercial unit labels – they meet the same design and enclosure requirements**
 - Select the power level – 40A or 48A
 - Go Commercial Child if the customer needs:
 - Billing functionality?
 - Remote Management or Load Management?
 - Locked on power up use Commercial [RFID]; unlocked use Residential
- **Select Communications Method**
 - **WiFi is standard on all Commercial chargers**
 - Go Commercial Parent (cellular) if the customer has no WiFi available at the site
- **Select accessories**
 - **All chargers are wall mount as standard**
 - Post mounting required? Dual Post is most popular and cost effective; 2 to a post
 - Cable Retractors required? Northern regions [snow] and outdoor locations should have them, per charger



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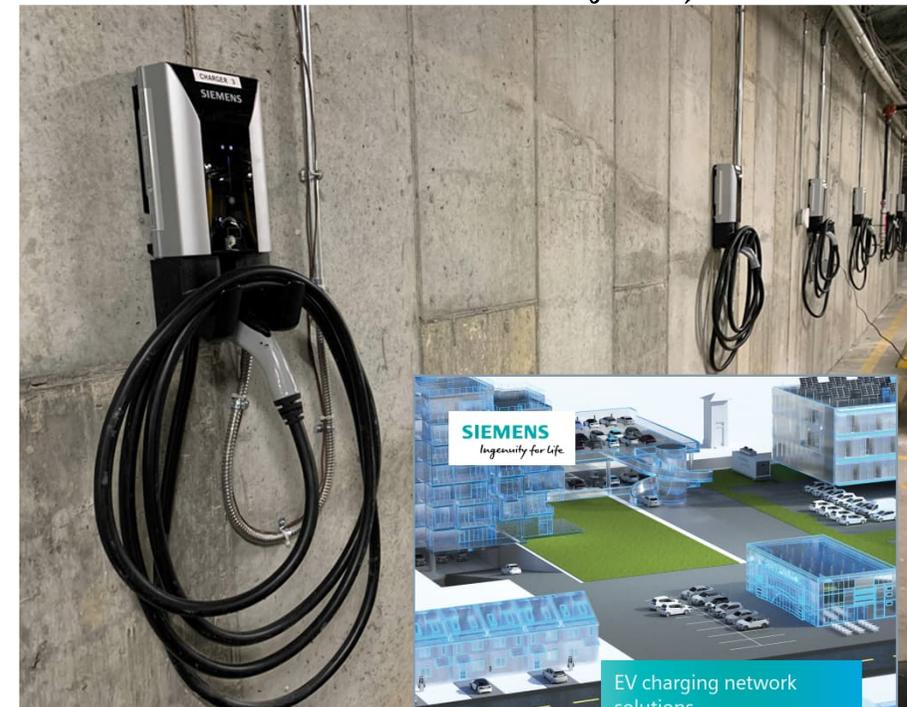


How to specify a Siemens VersiCharge AC

Simple and quick

- **Cloud Services**

- **Not required to operate the charger. Optional services that enhance ownership**
- Cloud Service needed if customer wants to perform billing or load management
- Onboarding Service is required initially to setup account and hardware
- Services are per charger per year



EV charging network solutions
Managing public and workplace charging

Siemens offers a variety of cloud service packages designed to simplify management and control of EV chargers. The flexibility of our services allows for varying levels of control in parking garages, hotels, hospitals, universities, industrial buildings, malls, retail / convenience stores, multi-family dwellings, and more. Integration into common building management systems and partner EV solution provider networks expand the offerings to create a seamless, easy-to-use system with a simple user interface.



usa.siemens.com/emobility

Feature	Care	Charge	Control
Technical Support	X	X	X
Remote Firmware Upgrades	X	X	X
Charger Setup App	X	X	X
Remote Resets		X	X
Remote Diagnostics		X	X
RFID Management		X	X
Aggregated Charger Reporting		X	X
Driver App		X	X
Driver Billing		X	X
Charger Network Visibility		X	X
Dynamic Load Control			X
Max Load Management			X

Support - Engineering / Consultant Specifications EV Specifications Posted



Resources for Consulting Engineers



Resources to meet today's project challenges

Take advantage of the engineering tools to help electrical consultants address requirements for BIM and selective coordination. Benefit from the resources to meet the challenges you face designing electrical distribution systems today!

Featured Division 26 Specifications

26 09 13 03 50 Electrical Power Monitoring – Tenant Sub-Billing - Division 26 Specifications

This section defines the low voltage meter for use in kWh revenue class multi-customer metering for use in the AC electrical equipment as outlined in the one-line and riser drawings.

26 09 13 03 50 Electrical Power Monitoring – Tenant Sub-Billing

26 33 43 Level 2 Commercial Electric Vehicle Supply Equipment

The requirements of the Contract, Division 26 applies to Electric Vehicle Supply Equipment (EVSE) called Commercial VersiCharge™ G3 as Specified and as shown on the contract drawings shall be furnished and installed by the Contractor.

26 33 43 Level 2 Commercial Electric Vehicle Supply Equipment

26 25 00 Enclosed Bus Assemblies - Division 26 Specifications

This section defines low voltage indoor and outdoor busway, fittings and plug-in units for use in AC systems, rated 600 V or less.

26 25 00 Enclosed Bus Assemblies

Siemens Spec Web Site

**SECTION 26 27 29
ELECTRIC VEHICLE SUPPLY EQUIPMENT – DC HIGH POWER 150KW CHARGING**

PART 1 - GENERAL

1.1 SCOPE
A. The requirements of the Contract, Division 26, applies to work in this section. High Power Electric vehicle supply equipment (HP-EVSE) for DC Vehicle Charging as Specified and as shown on the contract drawings shall be furnished and installed by the Contractor.

1.2 RELATED DOCUMENTS
A. [Related Sections include the following:
1. Section 26 28 16 – Substations
2. Section 26 13 13 – Medium Voltage Switchgear
3. Section 26 23 00 – Low Voltage Switchgear
4. Section 26 24 13 - Switchboards]

1.3 SUBMITTALS
A. For review:
1. The following information shall be submitted to the Engineer:
a. Product data sheets
b. Installation Manuals
B. For construction:
1. The following information shall be submitted for record purposes:
a. Final as-built overview drawings
b. Wiring diagrams
c. General layout floor plans
C. Installation information including equipment anchorage provisions. The manufacturer shall provide final, as-built drawings, recording the general location of the supplied installation layout, Operation and Maintenance manuals shall be supplied.

1.4 RELATED STANDARDS
A. The DC high-power electric vehicle supply equipment (HP-EVSE) shall be manufactured and tested in accordance with the latest version of the following standards:
1. SAE J1772, Electric Vehicle Conductive Charge Coupler
2. CCS 1.0, UL1960
3. IEC 61851-1

**SECTION 26 27 29
ELECTRIC VEHICLE SUPPLY EQUIPMENT – LEVEL 2 AC**

PART 1 - GENERAL

1.1 SCOPE
A. The requirements of the Contract, Division 26 applies to work in this section. Electric vehicle supply equipment (EVSE) as Specified and as shown on the contract drawings shall be furnished and installed by the Contractor.

1.2 RELATED DOCUMENTS
A. [Related Sections include the following:
1. Section 26 28 16 – Molded Case Breakers
2. Section 26 43 13 – Surge Protection Devices For Low-Voltage Electrical Power
3. Section 26 24 16 – Panelboards]

1.3 SUBMITTALS
A. For review:
1. The following information shall be submitted to the Engineer:
a. Product data sheets
b. Installation Manuals
B. For construction:
1. The following information shall be submitted for record purposes:
a. Final as-built drawings
b. Wiring diagrams
C. Installation information including equipment anchorage provisions. The manufacturer shall provide final, as-built drawings, recording the actual circuiting of panels, Installation, Operation and Maintenance manuals shall be supplied.

1.4 RELATED STANDARDS
A. The electric vehicle supply equipment shall be manufactured and tested in accordance with the latest version of the following standards:
1. SAE J1772, Electric Vehicle Conductive Charge Coupler
2. CCS 1.0, UL1960
3. IEC 61851-1

Finding the right solution for your needs



eBus Charging Solutions
Siemens high powered charging infrastructure for electric buses.



Level 3 DC Fast Charging
The VersiCharge Ultra™ from Siemens is a reliable and robust electric vehicle fast charger with an attractive design that is easy to install and operate.



Flexible level 2 AC charging
VersiCharge™, the industry's most flexible and versatile line of electric vehicle charging systems for residential and commercial applications.



Resources for consulting engineers
Click here to view specification documents and more.

Specifications link located on the eMobility main landing page at the bottom www.USA.siemens.com/emobility

Support - Everything is in online

New VersiCharge G3 – Speedfax Updated – Section 19



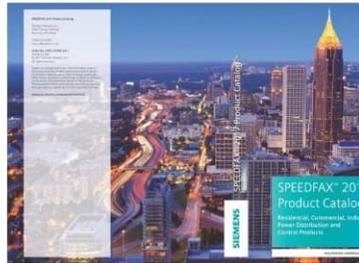
Products & Services Market-specific Solutions Company

Contact USA

Search for ...

Products & Services > Energy > Low-voltage – power distribution > Speedfax

Siemens Speedfax Product Catalog



Electric vehicle charging solutions

19 Section



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- Sicharge UC DC chargers 19-13
- Siemens cloud services 19-16 – 19-17
- eMobility solutions and more 19-18



Siemens Industry, Inc. SPEEDFAX™ Product Catalog 19-1

Electric vehicle charging solutions

VersiCharge AC Chargers (Generation 3)

Revised on 02/28/21

Overview

VersiCharge™ AC Chargers

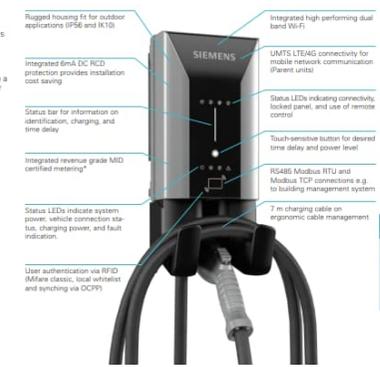
Siemens VersiCharge chargers have stood for superior quality, ruggedness, and proven technology for more than a decade and have reliably provided millions of charges to EV electric vehicle drivers worldwide. The new third generation VersiCharge AC charger is continuing this tradition with numerous groundbreaking enhancements, a fresh and appealing design, and up to 11.5 kW of AC, labor-saving current charging power. Providing various communication options, including the option to establish a parent-child configuration.

The VersiCharge AC charger can be connected to the customer's preferred back-end system making it scalable and cost-efficient. It also offers revenue-accurate metering and can interact with building management systems, such as Siemens Design for dynamic load management that smartly adjusts as building energy demand changes. The rugged and slender VersiCharge AC Charger is suitable for both indoor and outdoor residential or commercial use and can either be mounted on a wall or supplementary post.



www.usa.siemens.com/versicharge

Key features
Compatibility with all common electric vehicles and applicable charging standards plus easy to use, comfort functions such as delayed and planned charging ensure a high degree of customer convenience.



VersiCharge AC catalog numbers

	Max. current	Catalog number	HW ready for ISO 15118	Wi-Fi and Ethernet	Modbus RTU / TCP	RFID identification	Revenue grade metering	LTE WCDMA
Residential versions	40 A	REM1312-4AF10-GAA3	-	-	-	-	-	-
	48 A	REM1312-5AF10-GAA3	-	-	-	-	-	-
	40 A	REM1312-4CF18-GFA3	✓	✓	-	-	-	-
Commercial versions	48 A	REM1312-5CF18-GFA3	✓	✓	-	-	-	-
	40 A	REM1310-4CF14-0GA0	✓	✓	-	✓	-	-
	48 A	REM1310-5CF14-0GA0	✓	✓	-	✓	-	-
	40 A	REM1310-4CF14-1GA1	✓	✓	-	✓	✓	-
Parent	48 A	REM1310-5CF14-1GA1	✓	✓	-	✓	✓	✓

Electric vehicle charging solutions

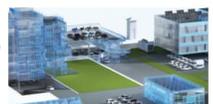
Siemens cloud-based services

Revised on 02/28/21

Overview

Managing your depot and eFleet

Siemens offers a variety of cloud-based service packages designed to effectively manage your depot and eFleet. Our solutions combined with our ecosystem of partners allows you to easily manage your charging infrastructure from remote diagnostics to detailed reporting and operational planning and scheduling with an intuitive user interface. Choose which connect, charge, or control service best fits your device connectivity, management, reporting functions, smart charging, revenue and power optimization and data analysis needs.



Electric vehicle charging solutions

www.usa.siemens.com/managingevch

Siemens cloud-based services

Revised on 02/28/21

Overview



Care

Get more from your chargers with



Connect



Charge

Charge package
The Charge package includes all functions of the Connect package, offers comprehensive financial and consumption reporting, billing and payment management for owners. This package is perfect for collecting revenue from charging stations within general public areas, or in a workplace environment where fleet and employee charging times and stations are efficient. The Charge package also enables charging stations to be seen and accessed within other charging networks. This allows public charging stations to be seen from other networks, when they are part of the Siemens Charge package solution, increasing visibility and usage.



Control

Control package
The Control package continues capability expansion by supplying all of the same functions as the Charge package, and adds on smart smart charging capabilities. The smart charging feature provides dynamic load management and maximum load control for situations where limited power is available for chargers or maximum demand constraints where tariffs are in place. This package allows pieces of mind that power sharing chargers will not exceeding equipment level, or that the facility's base demand levels are not exceeded.

Feature	Care	Connect	Charge	Control
Financial Reporting	✓	✓	✓	✓
Remote Firmware Updates	✓	✓	✓	✓
Charge Metering	✓	✓	✓	✓
Remote Resets	✓	✓	✓	✓
Remote Diagnostics	✓	✓	✓	✓
RFID Management	✓	✓	✓	✓
Aggregated Charge Reporting	-	✓	✓	✓
Driver App	-	✓	✓	✓
Driver Billing	-	✓	✓	✓
Charge Network Visibility	-	✓	✓	✓
Dynamic Load Control	-	-	✓	✓
Max Load Management	-	-	✓	✓

For a copy of the Canadian Power Product Catalog, please [click](#)

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eMobility® Solutions

The world of transportation continues to rapidly evolve, which is why Siemens is committed to providing the complete solution for customers to help them succeed in their eMobility® journey – from PlugtoGrid™. We are shaping the market with innovative charging technology solutions, powering the infrastructure across various sectors, as well as planning and implementing secure grid connections to enable the growth of electrifying transportation.

> Video

Finding the right solution for your needs

eBus Charging Solutions
Siemens high powered charging infrastructure for electric buses.

>

Level 3 DC Fast Charging
The VersiCharge Ultra™ from Siemens is a reliable and robust electric vehicle fast charger with an attractive design that is easy to install and operate.

>

Flexible level 2 AC charging
VersiCharge™, the industry's most flexible and versatile line of electric vehicle charging systems for residential and commercial applications.

>

Resources for consulting engineers
Click here to view specification documents and more.

>

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Expert Corner

California Utilities to invest \$54 million in EV chargers at schools, parks and ...

California's utilities have been in the forefront to address range anxiety through numerou...

>

Why electric vehicle charging infrastructure needs standards

As the popularity of electric vehicles continue to rise, a major challenge facing the elec...

>

Transportation Electrification is Here – and So Is Our eMobility Business

EV growth continues at a rapid pace and is now joined by the electrification of almost eve...

>

The all new VersiCharge AC Charger is now available!

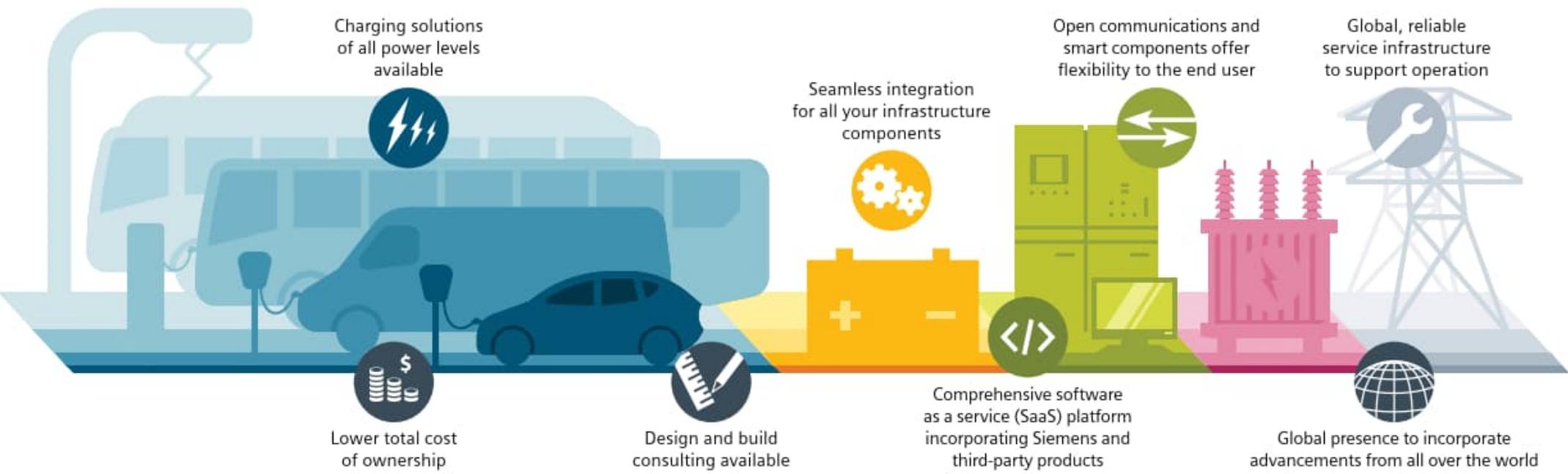
The new AC series will improve design, reduce losses, and increase reliability and safety while maintaining durability. For further insight, please contact your local sales office.

>

eMobility offers a complete Plugtogrid™ solution

providing products & services across all aspects of an EV project

SIEMENS
Ingenuity for life



Lower total cost of ownership

Design and build consulting available

Comprehensive software as a service (SaaS) platform incorporating Siemens and third-party products

Global presence to incorporate advancements from all over the world

HARDWARE

Chargers:
DC Heavy-duty plug-in (MaxxHP)
Overhead (Go) and Depot (Apex)
AC Level 2 (VersiCharge)
DCFC Level 3 (Ultra)
Battery Storage (Fluence)

DESIGN & BUILD

Large LD Infrastructure Deployment
MD/HD Depot
Microgrid
New Greenfield Projects
Brownfield Projects
Infrastructure expansions
Design Build

SOFTWARE

Charger Management/Billing
Building Management Systems
Grid Integration, Automation and Management
DER Integration

SERVICES

Energy, Markets and Business Consulting
Structured Finance
O&M Management
Turnkey
Maintenance / Service Contracts

Let's shape the eMobility world together.

Thank you

