



# ENERGY EFFICIENCY

## ENERGY AUDITS

We are currently conducting an energy audit on our buildings to further improve our energy savings and support our sustainability goals. The scope of this venture proves that we are committed and show that we understand the importance to start at “home”. Our expanded services to industries and businesses include experienced, thorough and professional assessments to identify energy consumption patterns, inefficiencies, and areas for improvement. Through detailed analysis, we provide actionable recommendations to reduce energy use, lower operational costs, and minimize environmental impact. From energy-saving solutions such as insulation upgrades to more efficient heating, ventilation, and air conditioning (HVAC) systems, we ensure that buildings operate at optimal efficiency. TOSL Engineering Limited's energy audits are tailored to meet the specific needs of each client, delivering customized strategies that improve energy performance and contribute to long-term sustainability. Our goal is to help clients achieve significant energy savings while enhancing the comfort and functionality of their spaces.

- Comprehensive energy assessments for buildings and facilities
- Identification of energy-saving opportunities
- Recommendations for retrofitting and energy management systems



## DISTRICT COOLING SYSTEM

TOSL have implemented a low carbon energy efficient District Cooling Project utilizing 100% ozone friendly refrigerants to cool our offices. This enables us to reduce our power / electricity consumption used for cooling and as a result, reduce our carbon footprint. Our district cooling system was commissioned in Q3 2024 and is fully operational. Our services have expanded to replicate this project to office buildings within our region.

- Centralized cooling solutions for large facilities
- Solar-powered district cooling systems
- Energy-efficient chillers and thermal storage



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## ENERGY EFFICIENCY



### SIEMENS VersiCharge™ AC series

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 (alternating 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 embedded metering and can interact with a building management system, such as Siemens Desigo CC and Siemens WinCC 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 use and can either be mounted on a wall or supplementary post.



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### SIEMENS

#### VersiCharge™ AC series

#### KEY FEATURES

- Rugged housing fit for outdoor applications (NEMA 4)
- Integrated high performing dual band Wi-Fi
- UL listed and tested to J1772 standard to ensure safety and interoperability with all standard EVs
- UMTS LTE/4G connectivity for mobile network communication (Parent units)
- Status bar for information on identification, charging, and time delay
- Status LEDs indicating connectivity, locked panel, and use of remote control
- Embedded Metering +/- 1% accuracy
- Cold Start
- Status LEDs indicate system power, vehicle connection status, charging power, and fault status
- RS485 Modbus RTU and Modbus TCP connections to building management
- User authentication via RFID (Mifare classic, local whitelist and synching via OCPP)
- 20 ft charging cable and integrated cable management for convenient storage





## ENERGY EFFICIENCY



## SIEMENS

VersiCharge Ultra 175™ DC Charger

### KEY FEATURES

- Easy to install
- Liquid cooled
- Low maintenance
- Cable management
- 10 screen
- CCS1
- CHAdeMO
- Brandable exterior
- Optional credit card reader
- IP65



## ENERGY EFFICIENCY

### SIEMENS

#### The VersiCharge Ultra 50™

The VersiCharge Ultra 50™ from Siemens is a reliable and robust electric vehicle fast charger with an attractive design that is easy to install and operate. The simple customer interface allows for fast and easy charging. Drivers can authenticate at the unit via an optional RFID or credit card reader. VersiCharge Ultra 50 communicates with the backend wirelessly or hardwired. The support for OCPP makes integration into charging networks easy and allows for remote monitoring and billing to the driver. Its patented liquid cooling system keeps the footprint small and lightweight while achieving an IP65 rating which makes it perfect for installations in environmentally challenging conditions.

#### KEY FEATURES

- Slim, compact, and stylish design
- Reduced installation cost
- Increased reliability
- Durable UV resistant exterior
- Low maintenance
- Open Charge Point Protocol (OCPP) integration
- Options include built-in credit card reader, RFID, large display and more Combined Charging System (CCS) and CHAdeMO plug-in connections to charge one EV at a time

