



EV Charging Solution

DeltaGrid[®] EVM

- Precise management of energy sources and loads
- Integrated functions for charging service operations
- System interconnectivity and digital services



Home



Residential Buildings



Commercial Buildings



Campuses



Parking Spaces



Factories



Forward-looking Smart Charging Solution equipped with Advanced Energy Management

To help EV charging service providers ensure power availability, reduce costs and improve customer satisfaction in new and existing EV charging infrastructure, Delta has included special features for EV charging in the DeltaGrid® energy management system. By enabling grouping of EV chargers, prioritisation, scheduling, configurable limits to charging power as well as leveraging time-of-use tariff arbitrage,

DeltaGrid® EVM provides unparalleled possibilities for managing EV charger infrastructure. DeltaGrid® EVM takes EV charging to the next level with the possibilities of integrating energy storage and renewable energy sources such as solar, in order to not only improve a site's carbon footprint but also reduce operational costs through peak shaving, self-consumption optimisation, load shifting and more.



Smart Charging

- Configurable **charging-power limits**
- **Charger grouping** for different rates and charging priorities
- Customizable **tariff settings** based on ToU and date

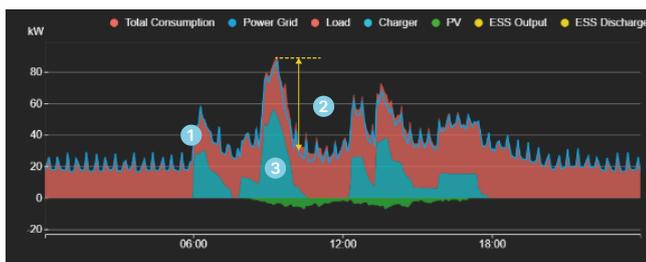
Energy Optimisation

- **ESS and PV integration** to support EV charging during peak hours
- **Automatic control and AI-based scheduling** using learned energy profiles
- Leverage **off-peak** or **night-time capacity** to prepare for peak demand in the next day



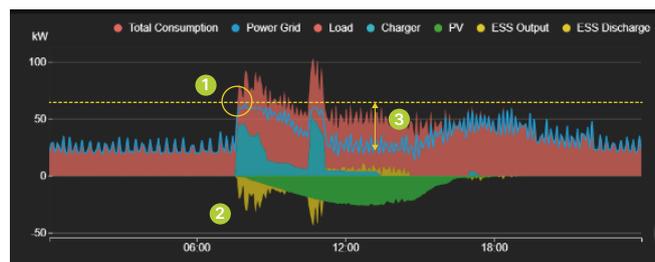
Substantial Results after Implementation

Daily Load Profile **Before** DeltaGrid® EVM



- 1 Unpredictable and unmanageable load variations
- 2 Costly load-demand peaks
- 3 EV charging accounts for most of the building's energy consumption

Daily Load Profile **With** DeltaGrid® EVM



- 1 Activates peak shaving when consumption exceeds pre-set levels
- 2 ESS output actively supports periods of peak-load demand
- 3 Intelligent storage of renewable energy contributes to reducing energy coming from the grid and improving the site's carbon footprint

Features and Benefits

- ✓ Flatten peaks of electricity demand
- ✓ Prevent overloads and tripping
- ✓ Ensure no contract demand penalties
- ✓ Leverage existing power infrastructure



Precise Management of Energy Sources and Loads

- EV Charger Management
- Load Management
- Energy Management

System Interconnectivity and Digital Services

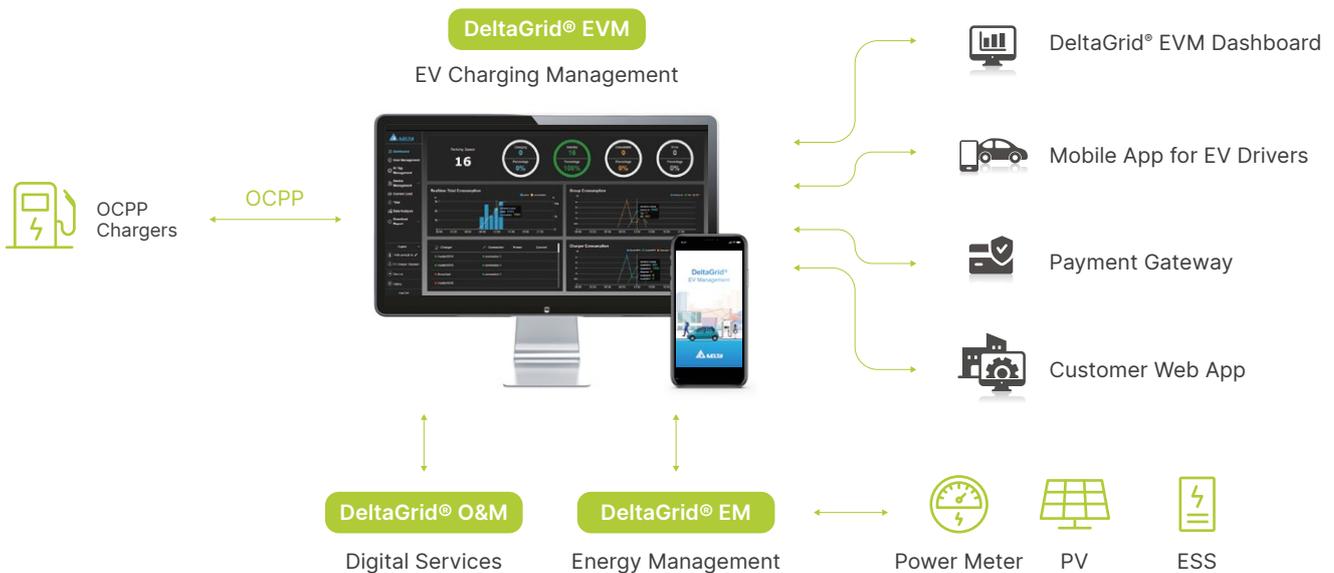
- 3rd Party Integration
- O&M

Integrated Functions for Charging Service Operations

- Account Management
- Charging Tariff Setting
- Multi-Site Management
- Dashboards
- User APP

Connectivity

DeltaGrid® supports integration with third-party systems via an API and can communicate with most major EV chargers in the market that utilise the open communications protocol OCPP.



Version and Function List

		Standard (On-Premise)	Advanced (Cloud)	Professional (Cloud)
	Applicable Scenario	Single Site Basic requirements requirement for chargers and facilities	Multi-Site Needs an App as EV drivers' user interface	Multi-Site Management of multiple charging stations and large-scale charging networks
Core Functions	Dashboard	●	●	●
	Account / RFID Management	●	●	●
	- Prepayment	●		
	Charger Management	●	●	●
	- Grouping	●	●	●
	- Current Limit	●	●	●
	- Time-of-Use (ToU)	●	●	●
	Charging Records	●	●	●
	Statistics / Reports	●	●	●
Data Analysis	Notification	● (Messaging App)	● (Email/App)	● (Email/App)
	O&M Services		●	●
	- Work Order Integration		●	●
	- Predictive Maintenance			○
	Mobile App		●	●
	- Charger Settings		●	●
	- Reservation / Navigation		●	●
- Payments		●	●	
EMS Integration	Metering		○	●
	Load Management		○	●
	Scheduling		○	●
	Multi-Site Management		●	●
	Energy Management (PV, ESS integration)			○

● Included ○ Optional



Delta Electronics

186, Ruey Kuang Road, Neihu District, Taipei, 114501, Taiwan
 TEL: +886-2-8797-2088 #8528
 SRV-SGC@deltaww.com

www.deltaww.com

Delta Electronics Europe

Zandsteen 15, 2132 MZ Hoofddorp, The Netherlands
 TEL : +31 20 655-0900 / FAX : +31 20 655-0999
 SRV-SGC@deltaww.com



2022/08