

EV Charging Solution

DeltaGrid® EV Management

- Smart charging with load and energy management
- Functional integrity for charging service operation
- System interconnectivity and digital services













Forward-looking Smart Charging Solution Equipped with Advanced Energy Management

To help charging service providers balance electricity safety, reasonable costs and service accessibility when building EV charging infrastructure, Delta includes EV chargers into the scope of load management and energy dispatching from the perspective of high-energy-consuming equipment. By charger grouping, prioritization, and scheduling to limit the maximum current output and leverage time-of-use electricity prices, DeltaGrid® EV Management ensures reliable charging services under existing power facilities. By going further to integrate energy storage and solar systems, we can capitalize on the advantages of peak shaving, PV self-consumption, and off-peak electricity load shifting.



Energy Optimization

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

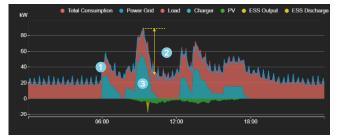
Smart Charging

- Max. power current limitations for different durations
- Charger grouping for different rates and charging priorities
- Customizable tariff settings based on TOU and date



Implementation Outcomes

Daily Load Profile Before Implementation



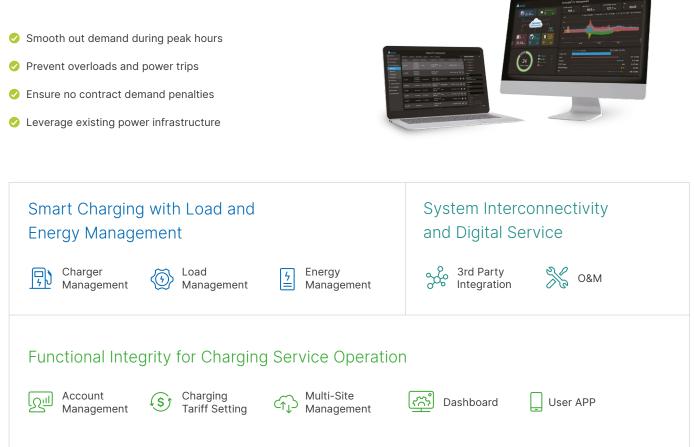
- 1 Unpredictable and unmanageable load variation
- 2 Gap between peak and regular consumption
- 3 EV charging accounts for the bulk of building energy consumption

Daily Load Profile After Optimization



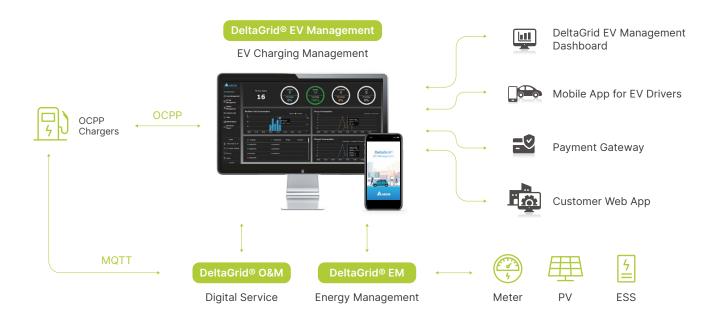
- 1 Activate peak shaving when consumption exceeds preset levels
- 2 ESS output to support peak demand
- 3 Solar power contributes to reducing energy purchase from the grid

Features and Benefits



System Interconnectivity

Open for third-party system integration via an API as well as management of major OCPP chargers to enable efficient charging service operations.





Version and Function List

		Standard (On-Premise)	Standard (Cloud)	Professional (Cloud)
Basic Functions	Applicable Scenario	Single Site Basic management requirement for chargers and facilities	Single Site Needs an APP as EV drivers' operational user interface	Multi-Site Management of multiple charging stations and large-scale charging networks
	Dashboard	•	•	•
	Account / RFID Management	•	٠	•
	- Prepayment	•		
	Charger Management	•	•	•
	- Grouping	•	•	•
	- Current Limit	•	•	•
	- Time-of-Use (TOU)	•	•	•
	Charging Records	•	•	•
	Statistics / Reporting	•	•	•
Data Analysis	Notification	• (Line / IM)	• (Email / App)	• (Email / App)
	O&M Services		•	•
	- Work Order Integration		•	•
	- Predictive Maintenance			0
	Mobile APP		•	•
	- Charger Settings		•	•
	- Reservation / Navigation		•	•
	- Payments		•	•
EMS Integration	Metering		0	•
	Load Management		0	•
	Scheduling		0	•
	Multi-Site Management			•
	Energy Management (PV, ESS integration)			0

• Provided \circ Optional



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