

VOLT

STATION



Volt OS



Centralised Volt Station Building Block Based on integrated microgrid enabled switchboard



**No external ethernet required,
Starlink enabled**

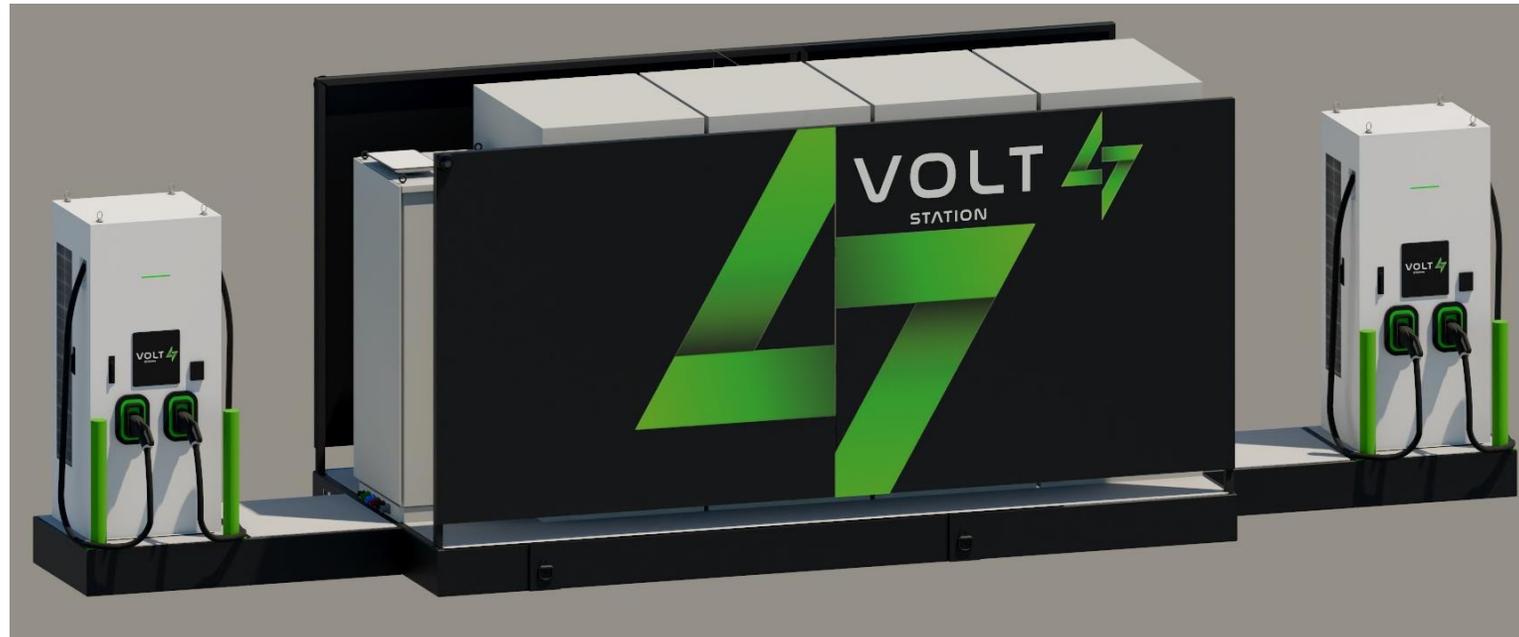
**Microgrid Switchboard
Enabled**

Integrated Energy Storage

**Whole Ecosystem Operating
System. Cloud and Onsite
controllers**



Centralised Volt Station Building Block Based on integrated microgrid enabled switchboard



AC chargers directly modularly connected via powerlocks

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No external ethernet required, Starlink enabled

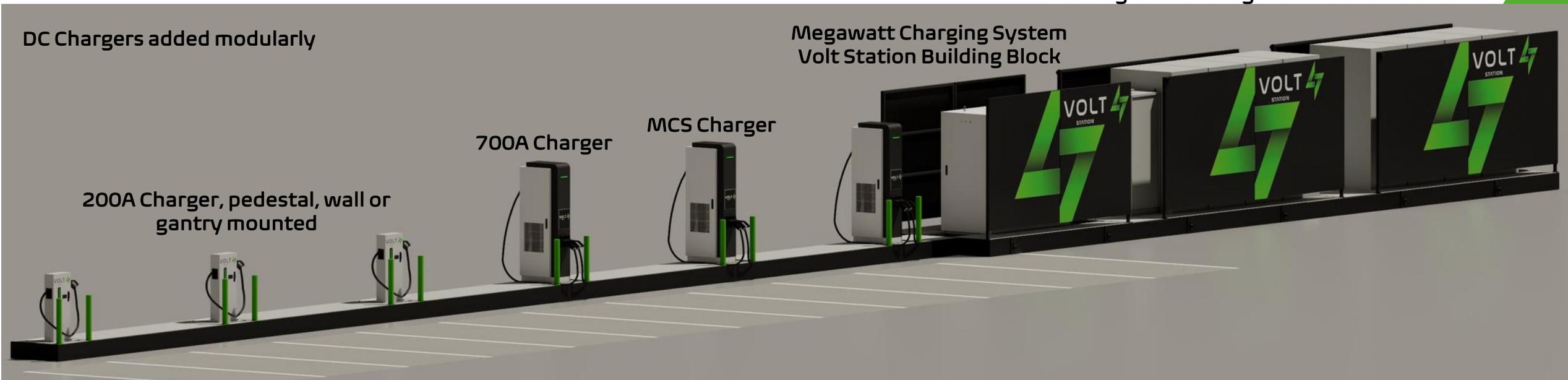
Microgrid Switchboard Enabled

Integrated Energy Storage

Whole Ecosystem Operating System. Cloud and Onsite controllers



Centralised Volt Station Building Block Based on integrated microgrid enabled switchboard



DC Chargers added modularly

Megawatt Charging System
Volt Station Building Block

200A Charger, pedestal, wall or gantry mounted

700A Charger

MCS Charger

No external ethernet required,
Starlink enabled

Microgrid Switchboard
Enabled

Integrated Energy Storage

Whole Ecosystem Operating
System. Cloud and Onsite
controllers

Volt Station RRP Summary AC Coupled Range



VS-ES-250/522
250kW/522kWh BESS
with Microgrid SWB



VS-ES-250/522-1-200
1x200kW Chargers &
250kW/522kWh BESS



VS-ES-250/522-2-120
2x120kW Chargers &
250kW/522kWh BESS



VS-ES-250/522-2-200
2x200kW Chargers &
250kW/522kWh BESS



VS-ES-375/783
375kW/783kWh BESS
with Microgrid SWB



VS-ES-375/783-1-400
1x400kW Chargers &
375kW/783kWh BESS



VS-ES-375/783-2-200
2x200kW Chargers &
375kW/783kWh BESS



VS-ES-375/783-2-400
2x400kW Chargers &
375kW/783kWh BESS



VS-ES-500/1044
500kW/1044kWh BESS
with Microgrid SWB



VS-ES-500/1045-1-400
1x400kW Chargers &
500kW/1044kWh BESS



VS-ES-500/1045-2-400
2x200kW Chargers &
500kW/1044kWh BESS



VS-ES-500/1045-EXT
500kW/1044kWh
Extension BESS



VS-ES-375/783-EXT
375kW/783kWh
Extension BESS



VS-ES-250/522-EXT
250kW/522kWh
Extension BESS



VS-ES-125/261-EXT
125kW/261kWh
Extension BESS



1-200 and 1-400
200kW and 400kW (350A cable) chargers with
integrated skid and powerlocks to connect to
main Volt Station



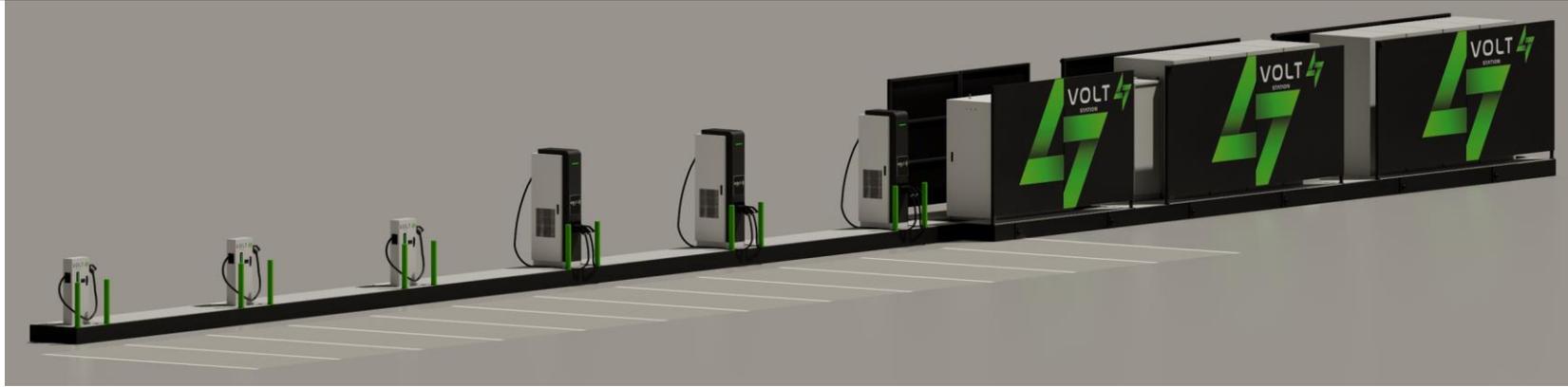
30kW Charger AC
30kW 80A Cable rated



125kW / 261kWh
125kW 261kWh additional BESS for
Volt Station Extension Skid
Extension

Coming soon

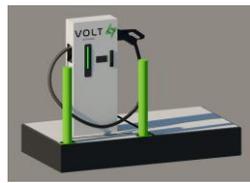
Volt Station RRP Summary Distributed DC Range 1280kW & Megawatt Charging



Megawatt Charger
Megawatt Charger MCS connection



DC-350A, DC-500A & DC-700A
DC Dispensers available in 350A, 500A and 700A variants



DC-200A
DC Dispensers available in 200A. Can be wall, pedestal or gantry mounted



Powerbank 1280kW (supports 16 dispensers)* MCS Charger
Allows adjustable power from 960kW to 1280kW by adding power modules. Flexible configurations tailored for diverse operational scenarios, such as fleet operations, bus charging, and highway station



VS-ES-1000/2088
1000kW/2088kWh BESS with Microgrid SWB



VS-ES-1080/2057
1080kW/2057kWh BESS with Microgrid SWB

Coming soon

Coming soon

Coming soon

Coming soon

Coming soon

Coming soon

Volt Station AC Use Cases

AC Charging Use Cases

On and off-grid island mode



Volt Station
Standard Ratings
1MW AC
2MW AC

AC

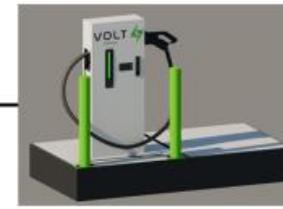
400kW



400kW



30kW



7kW



AC

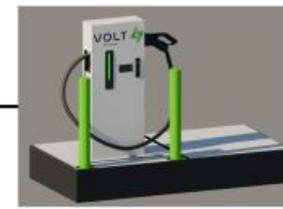
400kW



400kW



30kW



7kW



Any amount of chargers can be wired back to the Volt Station, the peak limitation is based on 1 or 2MW (larger systems available) of the busbars in the Electrical Switchboard. The software automatically dynamically allocates this. Each circuit limitation is based on cable sizing, the same as any other system would be. There is an ethernet cable to each charger to ensure quick reaction times and full control via the software

Systems can be linked together to extend the system sizes and energy storage. Additional renewable energy may be required to support the system if there isn't sufficient grid capacity to support recharge time of the energy storage

On and off-grid island mode



Volt Station
Standard Ratings
1MW AC
2MW AC

AC

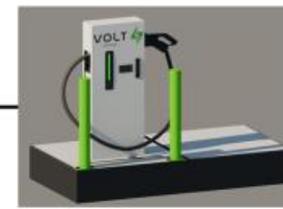
400kW



400kW



30kW



7kW



AC

Volt Station
Standard Ratings
1MW AC
2MW AC

AC

400kW



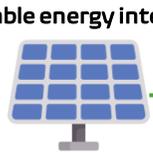
400kW



30kW



7kW



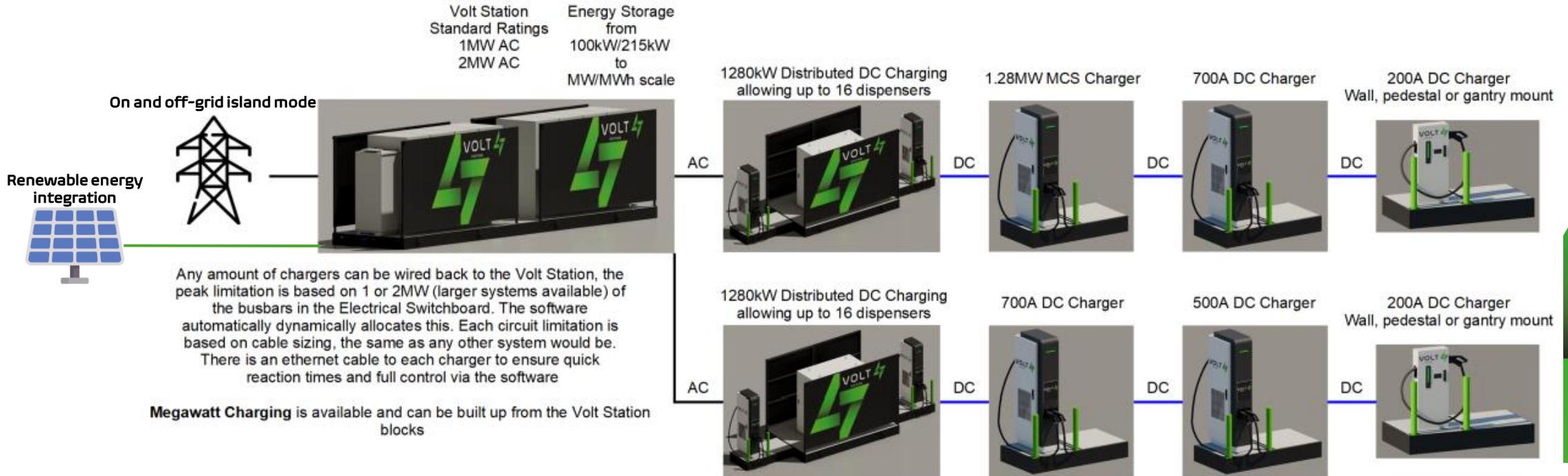
Renewable energy integration



Renewable energy integration

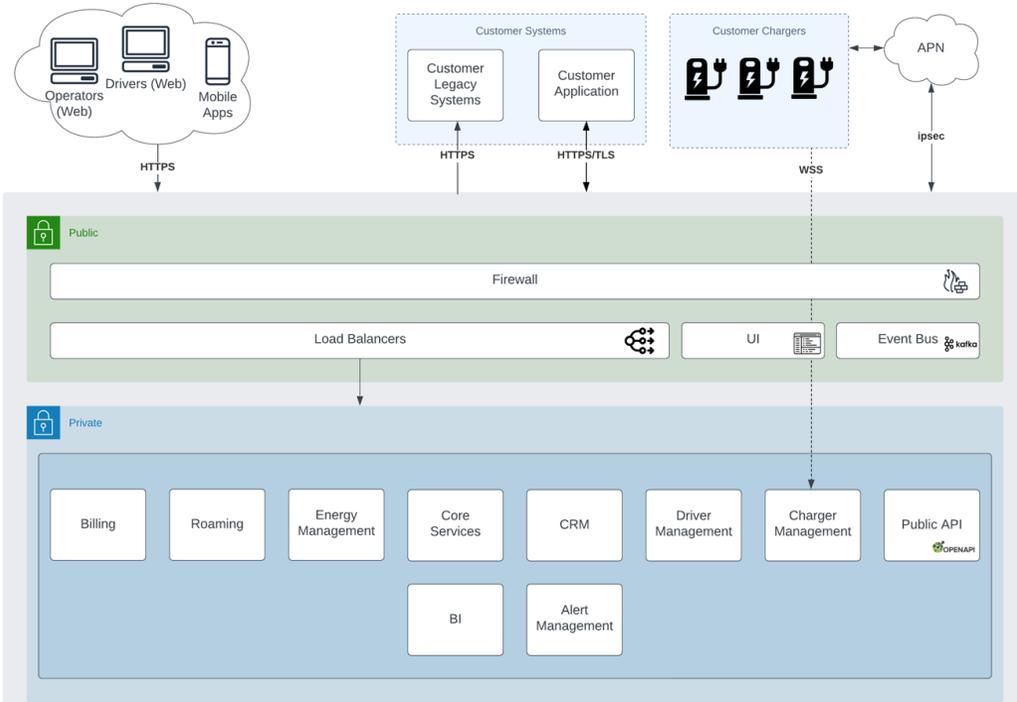
Volt Station DC Use Cases

DC Charging Use Cases

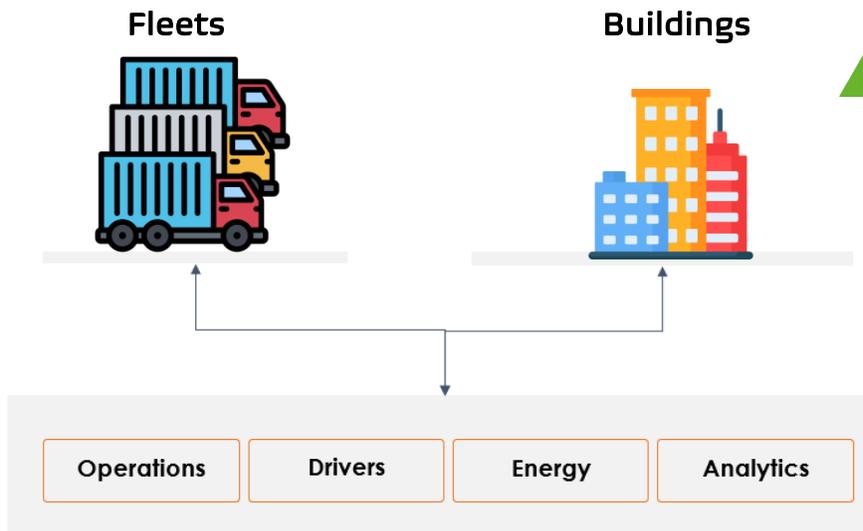
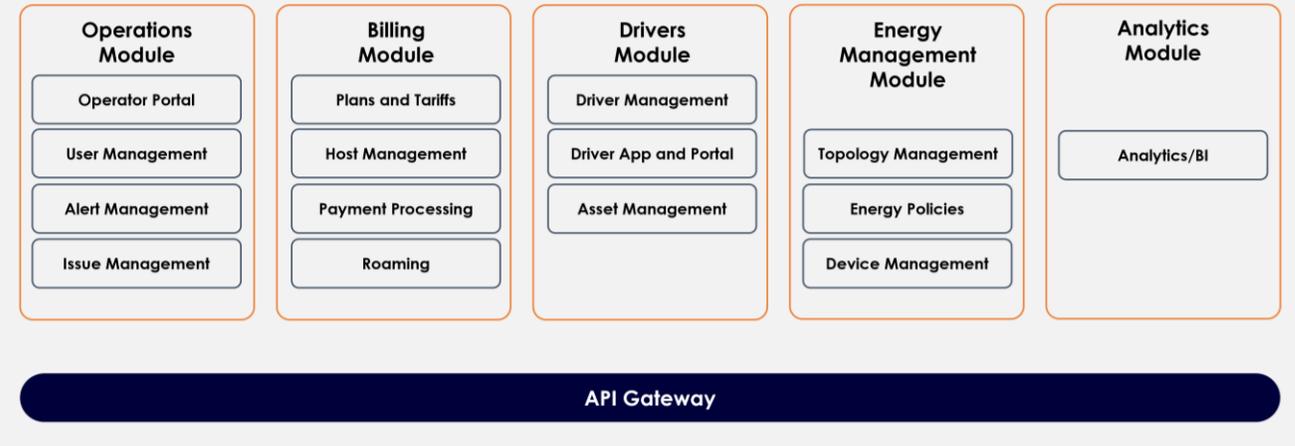


Volt OS Platform

Platform Architecture



Platform Overview



Control Centre

Sites status (123 sites)

EMS Status

EVSE ports

246 Installed ports | 180 Available | 31 Charging | 35 Faulted

Search by site name or organization: EMS Status: ▼

1-3 of 65

Site Name	Organization	EMS Status	EVSE ports	View site
Charge Hub	Pit Stop	Error	9 Available	View site
Viking Power Point	Pit Stop	Error	2 Available / 11 Charging / 1 Faulted	View site
Fjord Charge Station	Pit Stop	Error	N/A	View site
Aurora Electric Dock	Pit Stop	Warning	9 Available	View site
Midnight Sun Power	Pit Stop	Warning	N/A	View site
Net Charge	Pit Stop	Disconnected	N/A	View site

EMS Status:
 Error, Warning, Disconnected, Ok

EVSE Ports status: Available, Charging, Faulted

Financial Operations

Choose billing period: Billing period #7: Jul 01, 2023 - Jul 31, 2023

Savings from BESS

Total savings up until today: **\$3,604**

Savings from demand charges mitigation: \$1,964
 Savings from energy shifting: \$1,640

Utilization

EVSE energy utilization: **12%**

CO2 Emission Saved

Equipment trees planted: **3**
 CO2 emission saved due to EVs: **1,413 Kg**
 CO2 emission saved due to solar: **125 Kg**

Energy Rates: BESS vs Utility

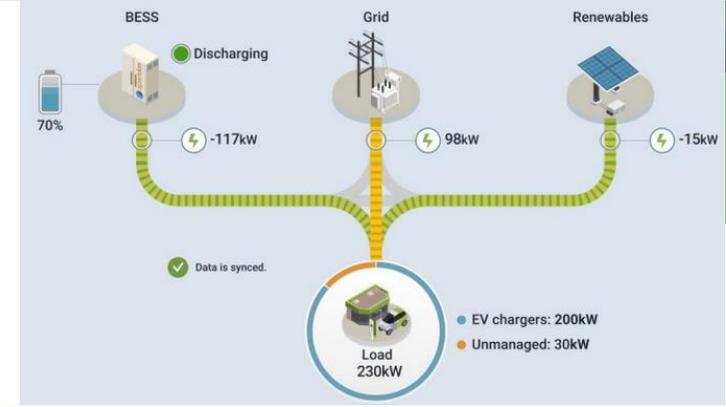
Energy Flow Summary

Power Usages

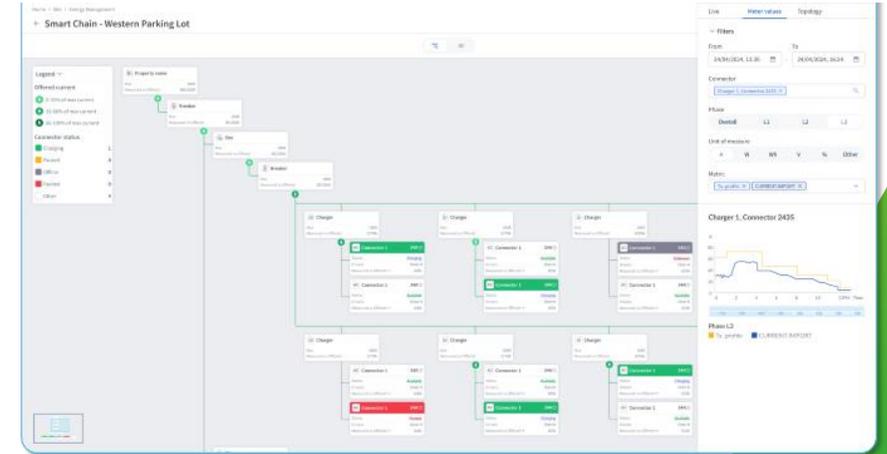
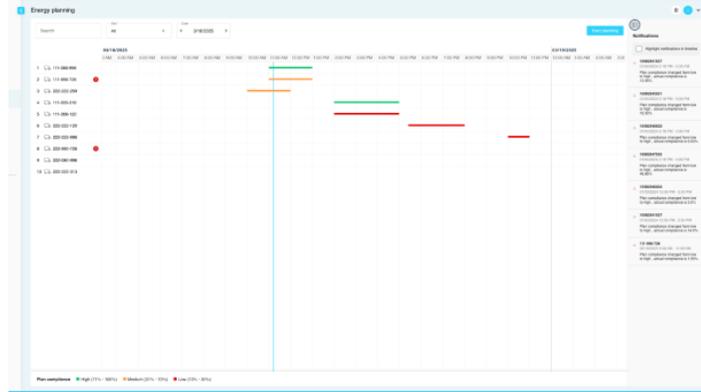
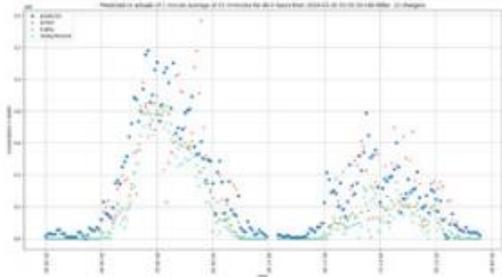
EVSE Energy Consumption: Last 7 days vs Average

Power Usage Time Percentage: Last 7 days vs Average

Detailed Power Usage



Prediction



Bidding

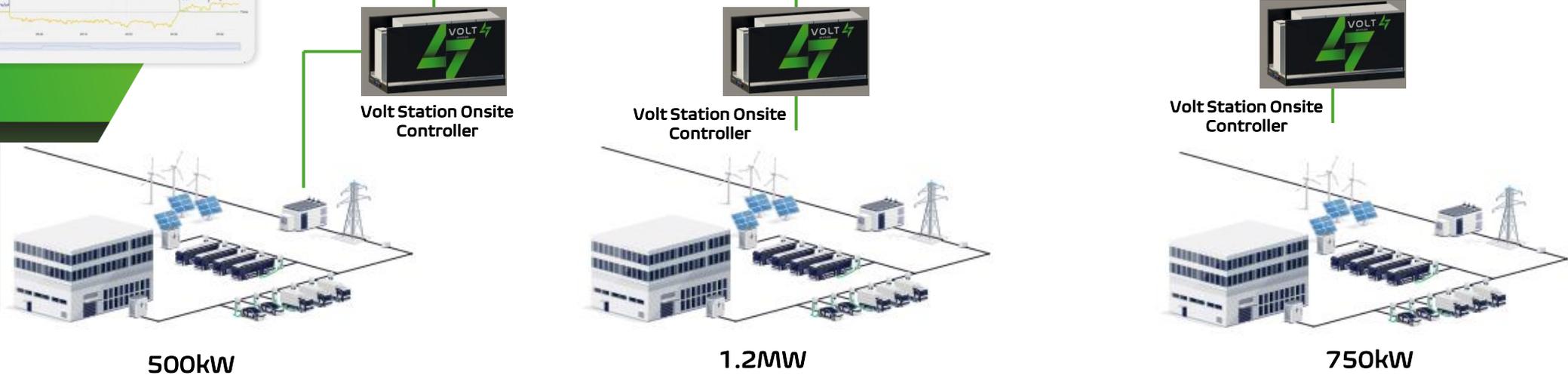
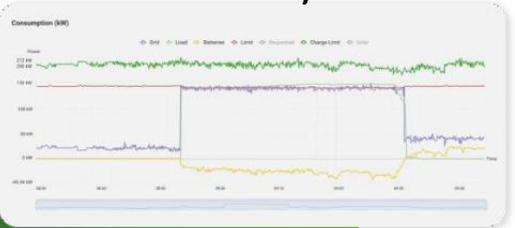


Wake-up functionalities built into the software to suspend the EV charging session during the night, resuming the charging session after the pre-heating is enabled to ensure the battery is charged to full when the driver is picking up the vehicle the next morning.

- V2X
- Scheduling Charges
- Dynamic Load Balancing
- Demand Charge Mitigation
- Fleet Management
- Renewable Integration
- Battery Storage Integration
- Grid System Services



Delivery



Contractual Set Up

End Client

Quotation



Purchase Contract



O&M Contract



Valor Power



tower



CONTACT US

Ready to power your future?

Contact us today to learn how Volt Station can be customised to fit your specific energy and charging needs.

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