



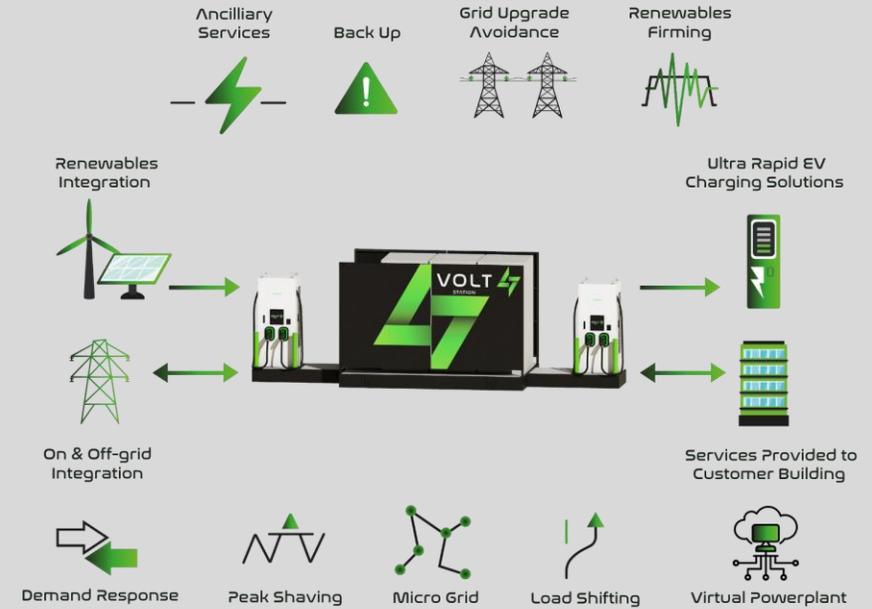
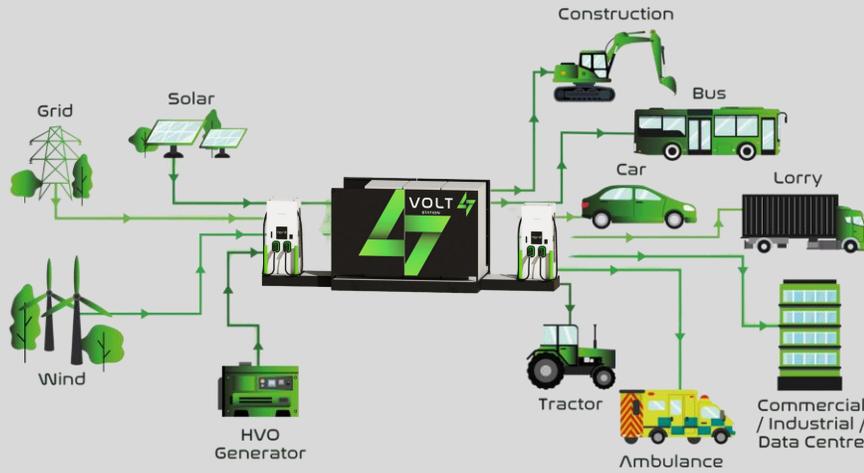
VOLT

STATION

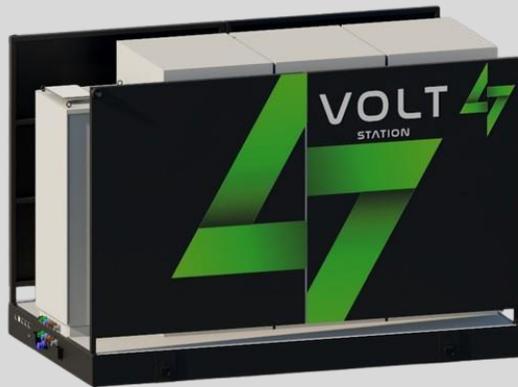


✓ Valor Power

Your All-in-one Energy Solution



Centralised Volt Station Building Block Based on integrated microgrid enabled switchboard



Microgrid Switchboard Enabled

No external ethernet required, Starlink enabled



Whole Ecosystem Operating System. Cloud and Onsite controllers

AC chargers directly modularly connected via powerlocks

AC or DC Charging directly modularly connected via powerlocks

Volt Station is more than an EV charger – it’s a **transportable, microgrid-enabled platform** that arrives **fully commissioned from the factory** and requires **no civil engineering works** to install. Simply plug it in, and it’s ready to operate.

Key features include:

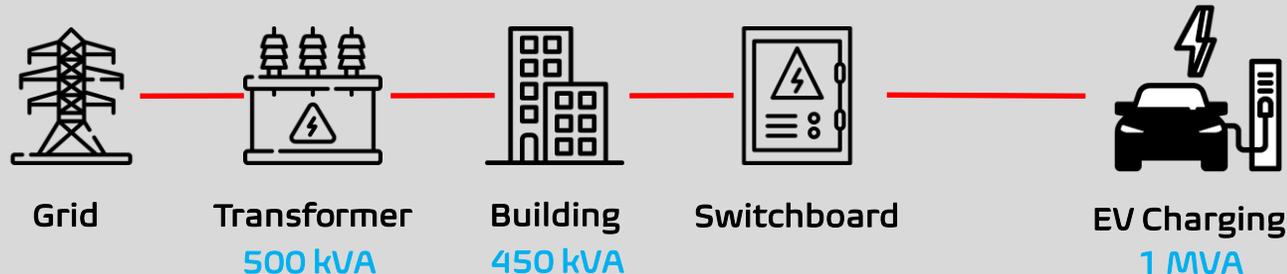
- ⚡ **Plug & Play modularity** – Rapid deployment with no site works; scalable modules adapt to mixed fleet requirements.
- 🌐 **Starlink connectivity** – No ethernet or terrestrial network dependency; Volt Station is remotely manageable anywhere, while also offering **free high-speed WiFi access for users on-site**.
- 📱 **Ecosystem software** – A comprehensive platform that goes beyond EV charging, incorporating **building energy management** for holistic site optimization.
- ☀️ **Renewable integration** – Direct connection of solar, wind, or other renewable sources into the Volt Station microgrid switchboard.
- 🔋 **Battery energy storage** – Enables load shifting, peak shaving, and resilience, ensuring reliable charging even in constrained or intermittent grid conditions. Provides resilience and flexibility while also unlocking **new revenue streams** through system services, energy arbitrage, and demand response participation.
- 🏠 **On-grid & off-grid flexibility** – Operates in on-grid, off-grid, or hybrid mode, boosting limited grid connections to meet EV charging demand.
- 🌱 **Carbon-positive impact** – By facilitating renewable energy integration and offsetting grid reliance, Volt Station can deliver measurable **carbon abatement**. In many deployments, it represents a **carbon offset asset**, helping operators achieve sustainability targets and potentially generate additional ESG credits.
- 🛡️ **Integrated security** – Equipped with a **fully integrated AI CCTV system with geofencing**, Volt Station ensures site safety, access control, and compliance from day one.
- 💰 **Financing options** – Available as a **fully financed package**, enabling operators to deploy infrastructure without upfront capital barriers
- 🛠️ **Installation & maintenance** – We provide a **full turnkey installation and maintenance package**, ensuring seamless deployment and long-term operational reliability.
- ♻️ **Sustainability value-adds** – Reduces diesel generator reliance and enables operators to demonstrate tangible progress toward net-zero commitments by matching battery charging times to times with high renewable grid penetration times or full integration of renewable sources beyond a level capable if having to rely on the grid.

Together, these capabilities make Volt Station a **future-proof, bankable solution** for operators seeking reliable, flexible, and sustainable EV charging infrastructure.



The All-in-One Energy Hub for a Smarter, Stronger Grid

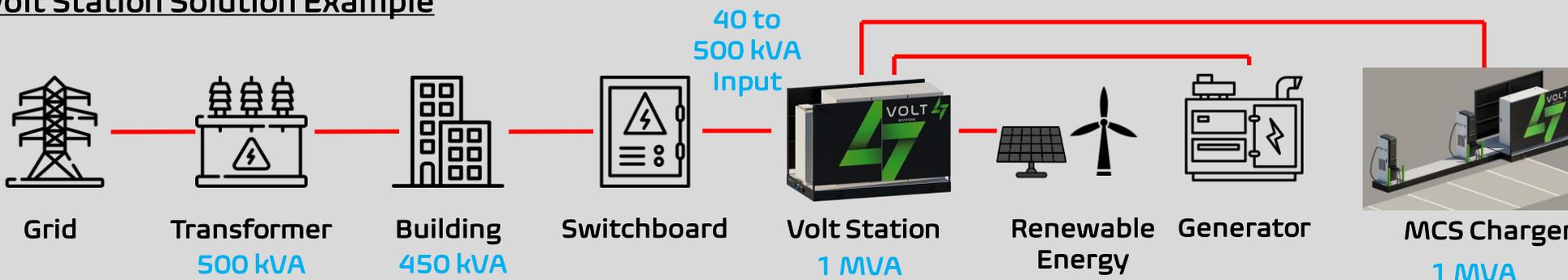
Conventional EV Charging Solution Example



Total Power Requirement:
1.45 MVA
Not possible without grid upgrade

- Grid upgrade required
- Switchboard may not be able to supply a 1MVA load without upgrade or extension
- Lengthy period to install with all civils and electrical work required

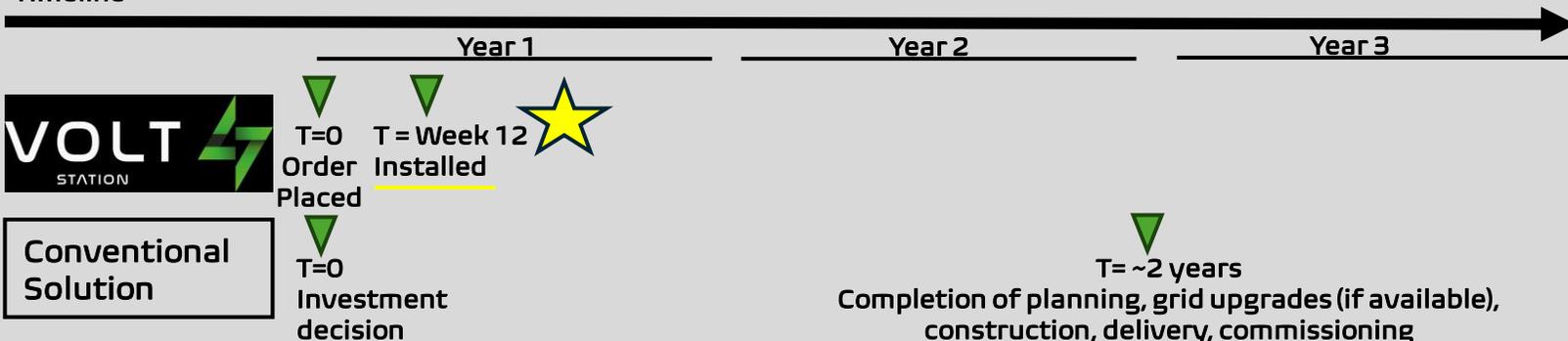
Volt Station Solution Example



Total Power Requirement: 1.45 MVA
Made possible with Volt Station. Existing grid 500kVA + Volt Station Boost 1MVA = 1.5MVA with no grid upgrade. Can be extended with renewables.

- No grid upgrade required
- One single supply to Volt Station
- Significantly reduced deployment time as plug and play
- Boosts grid supply depending on the input available to avoid upgrade costs and standing charges

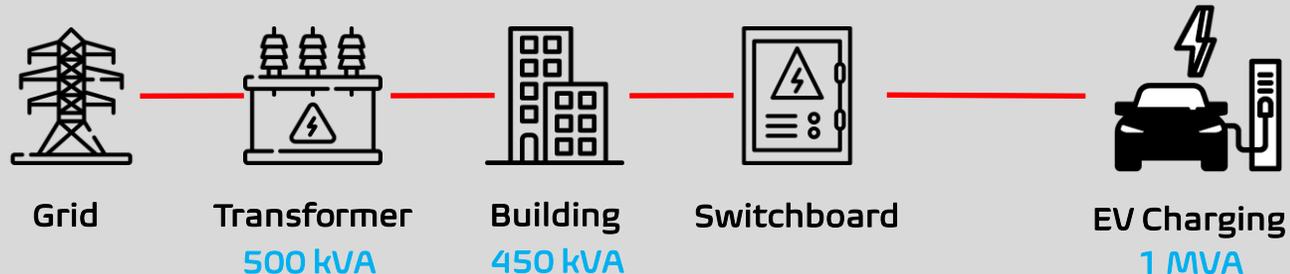
Timeline



- ⊘ Avoided grid upgrade costs. Ranging from €400K+ per MVA depending on upgrades required
- ⊘ Avoided grid standing charges costs. Ranging from €75-€100/kVA/yr
- ⊘ Volt Station qualifies for 100% Year 1 capital allowances. For a company paying tax at 25%, this can reduce the effective cost by up to 25%
- ⊘ Earn revenue from the asset from 12 weeks after order

The All-in-One Energy Hub for a Smarter, Stronger Grid

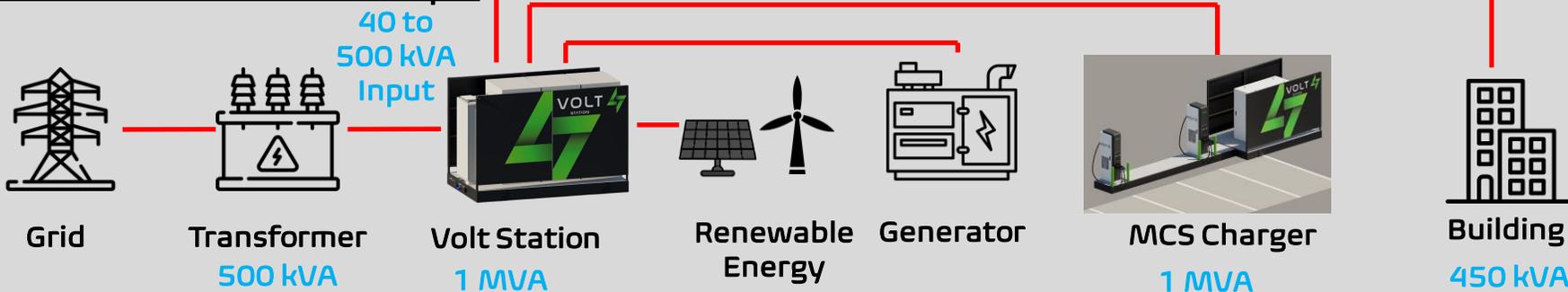
Conventional Site Solution Example



Total Power Requirement:
1.45 MVA
Not possible without grid upgrade

- Grid upgrade required
- Switchboard may not be able to supply a 1MVA load without upgrade or extension
- Lengthy period to install with all civils and electrical work required

Volt Station Solution Example



Total Power Requirement: 1.45 MVA
Made possible with Volt Station. Existing grid 500kVA + Volt Station Boost 1MVA = 1.5MVA with no grid upgrade. Can be extended with renewables.

- No grid upgrade required
- One single supply to Volt Station
- Significantly reduced deployment time as plug and play
- Boosts grid supply depending on the input available to avoid upgrade costs and standing charges

Timeline



T=0 Order Placed
T=Week 12 Installed

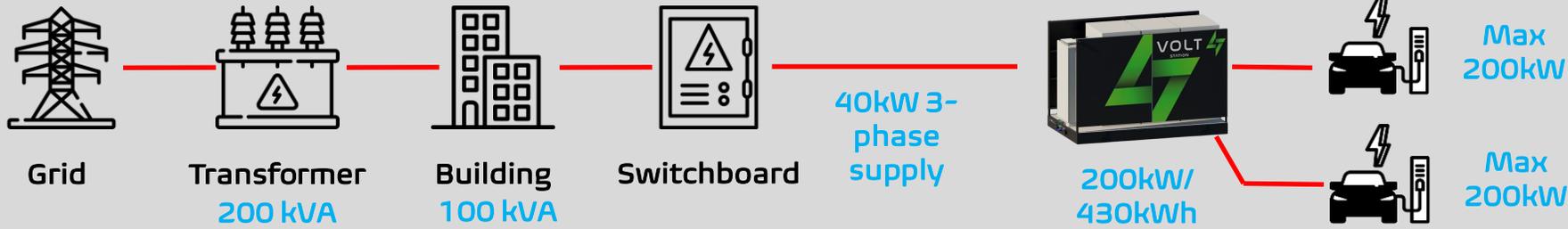
Conventional Solution

T=0 Investment decision

T= ~2 years
Completion of planning, grid upgrades (if available), construction, delivery, commissioning

- ⊘ Avoided grid upgrade costs. Ranging from €400K+ per MVA depending on upgrades required
- ⊘ Avoided grid standing charges costs. Ranging from €75-€100/kVA/yr
- ⊘ Volt Station qualifies for 100% Year 1 capital allowances. For a company paying tax at 25%, this can reduce the effective cost by up to 25%
- ⊘ Earn revenue from the asset from 12 weeks after order

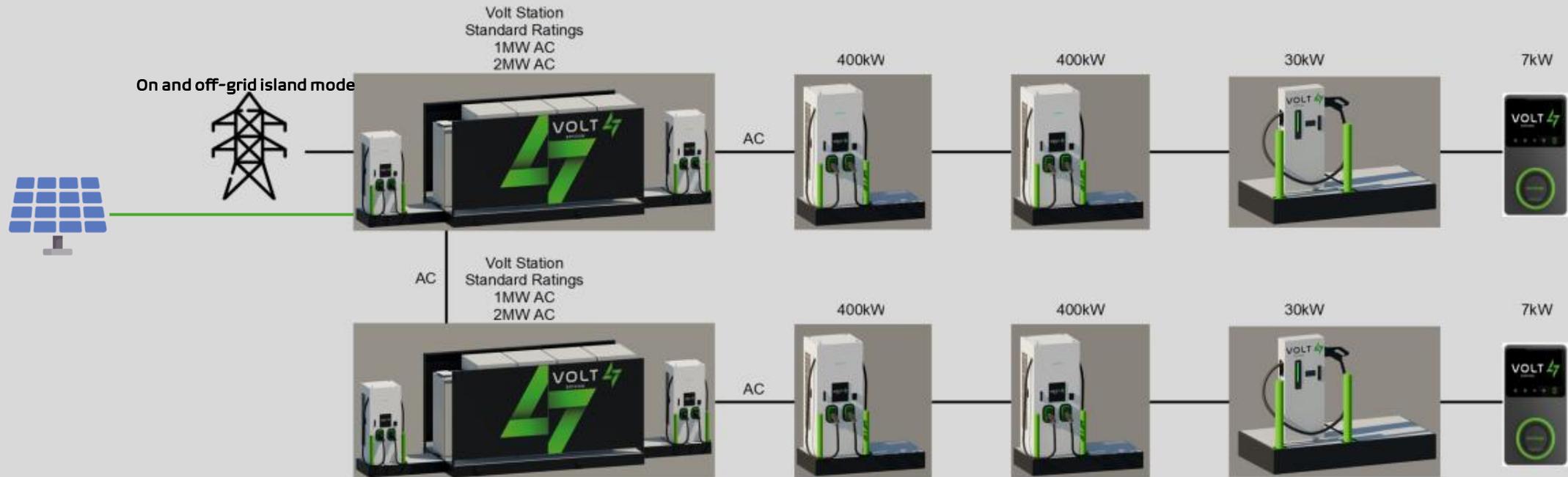
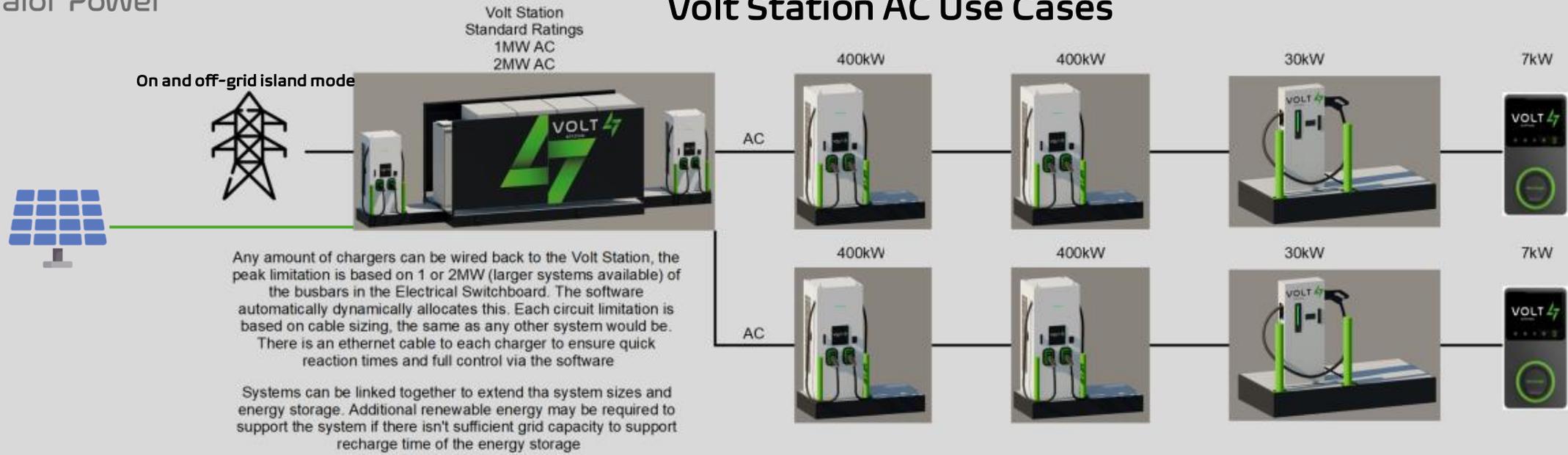
Volt Station In Action



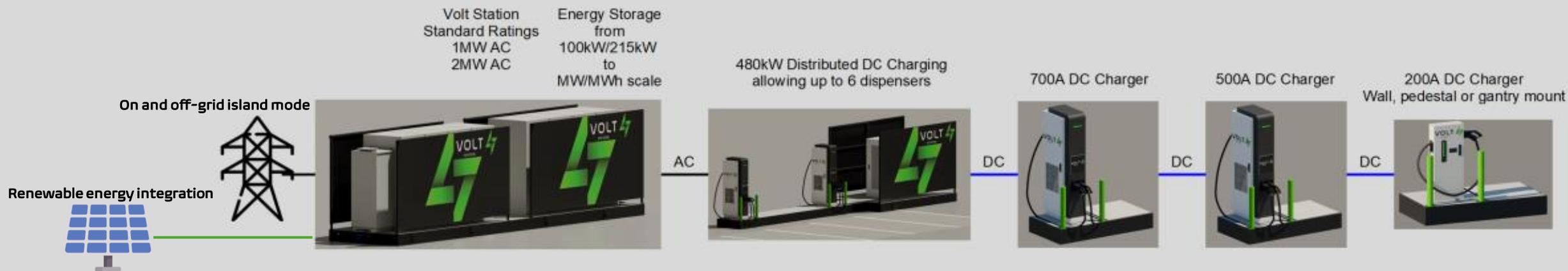
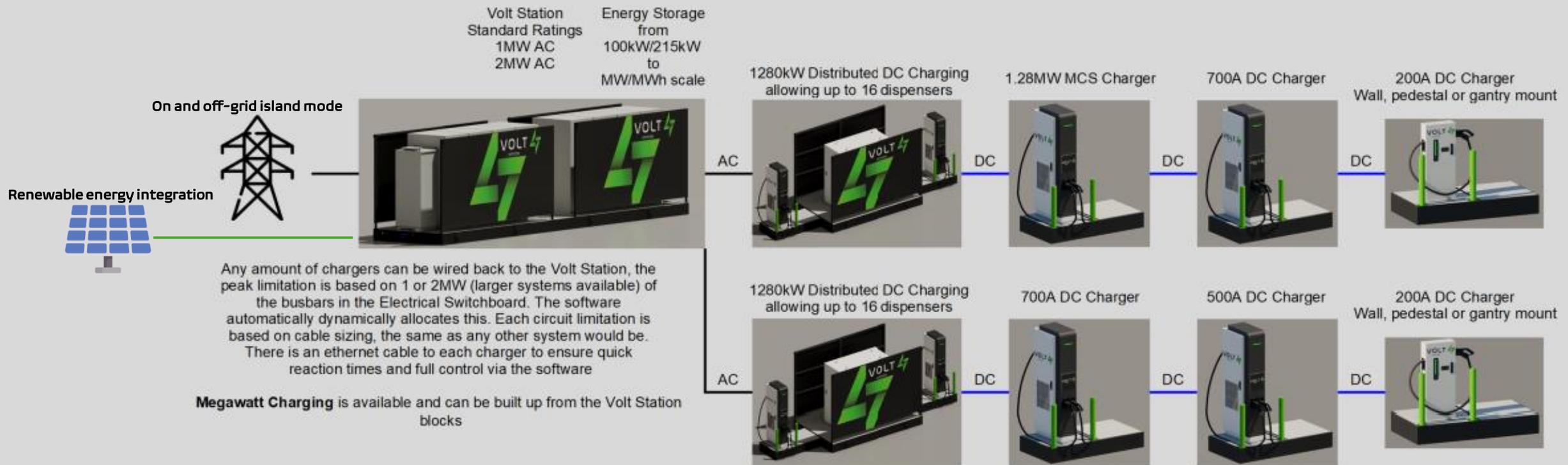
Total Charge power from 40kW grid supply:
Max 240kW Charge Power



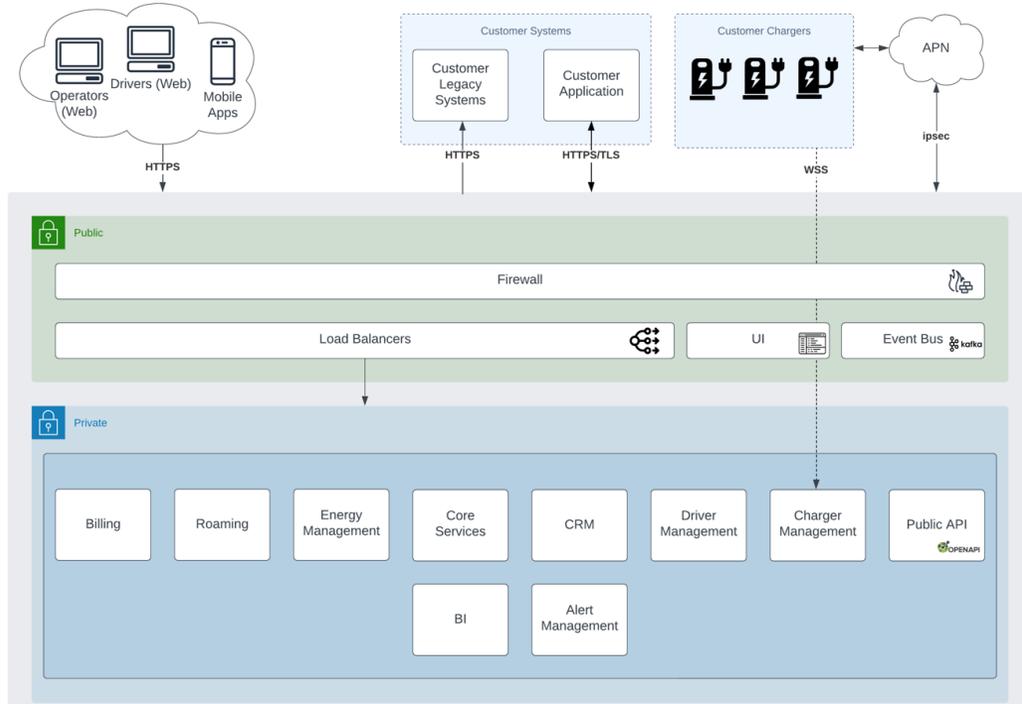
Volt Station AC Use Cases



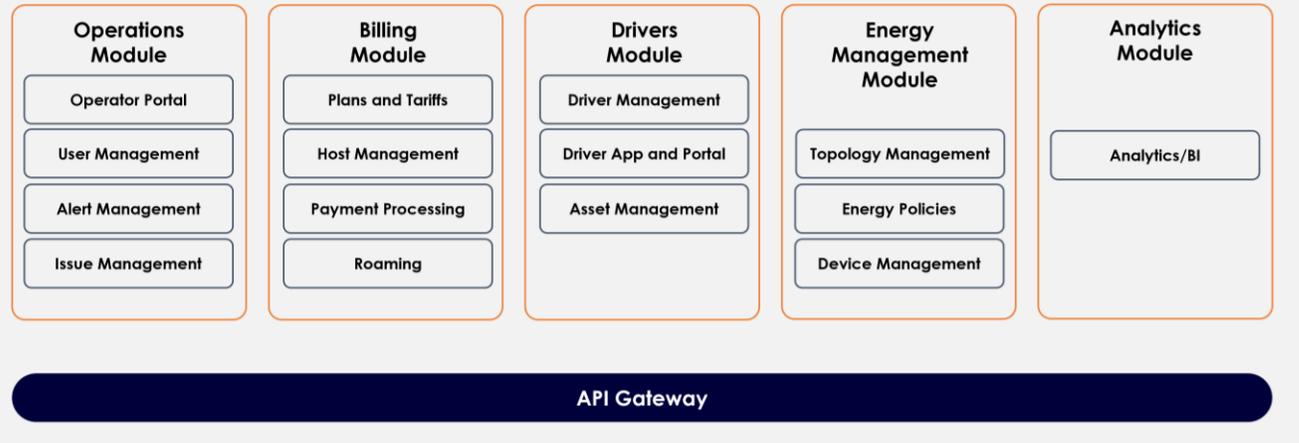
Volt Station DC Use Cases



Platform Architecture



Platform Overview



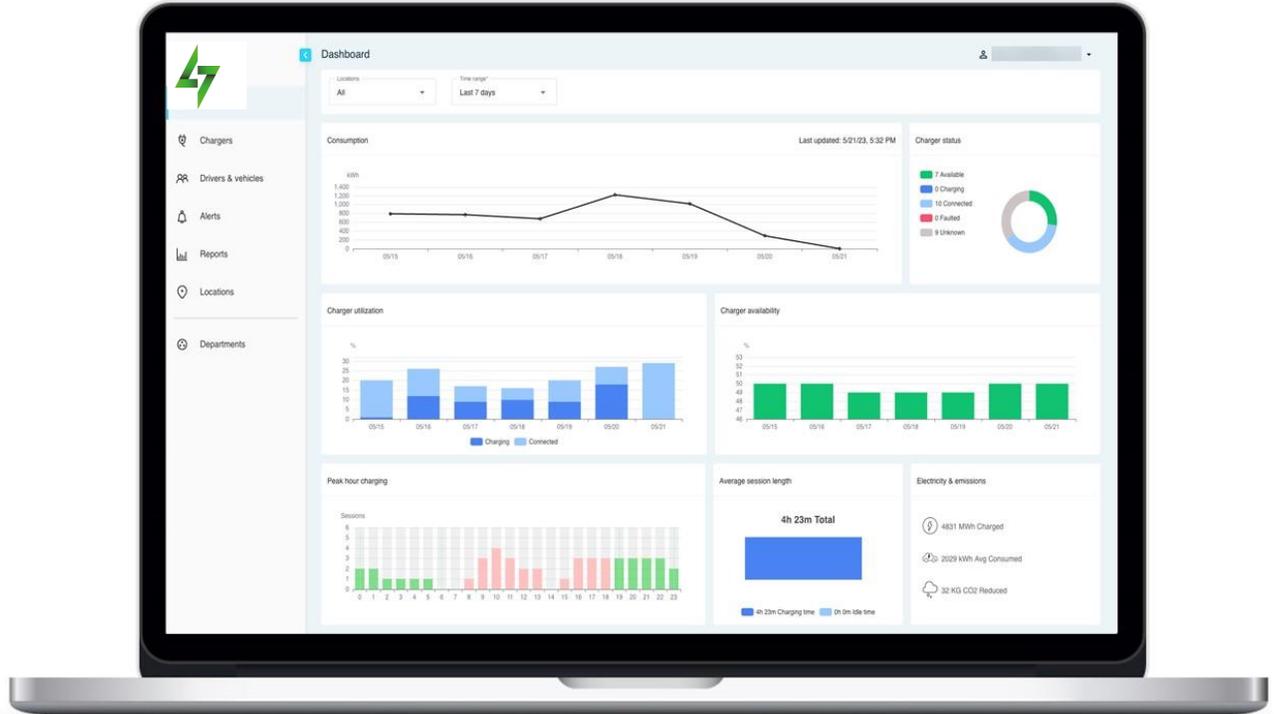
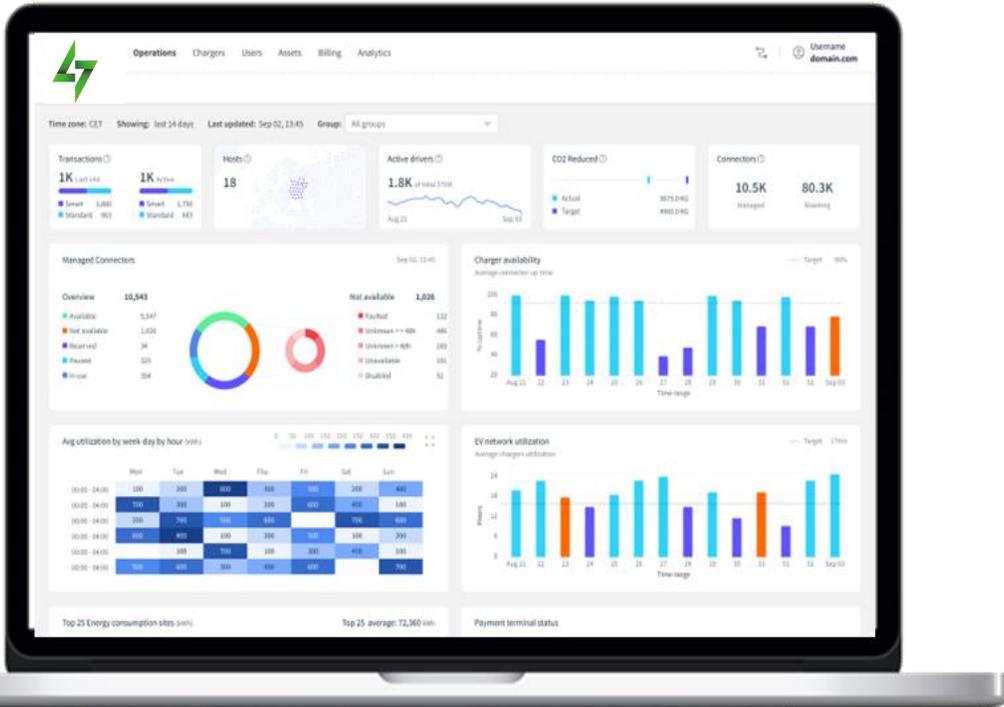
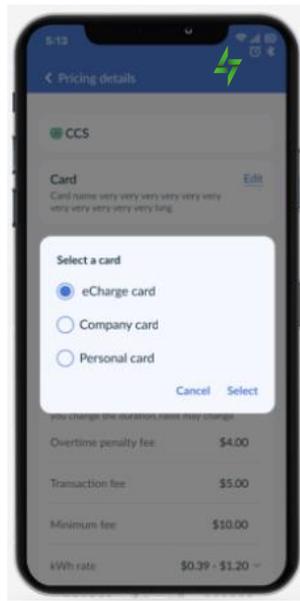
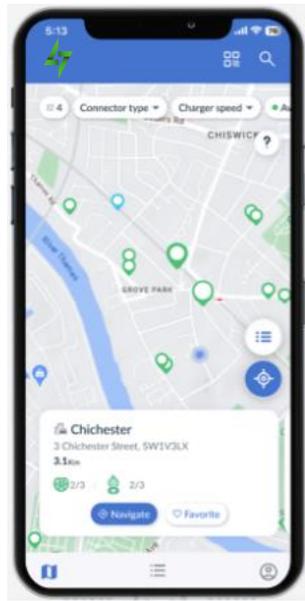
Fleets



Buildings



Valor Power Operator Portal



Sites status (123 sites)

EMS Status

EVSE ports

| | | | |
|-----------------|-----------|----------|---------|
| 246 | 180 | 31 | 35 |
| Installed ports | Available | Charging | 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 | |
| Viking Power Point | Pit Stop | Error | 2 Available / 11 Charging / 1 Faulted | |
| Fjord Charge Station | Pit Stop | Error | N/A | |
| Aurora Electric Dock | Pit Stop | Warning | 9 Available | |
| Midnight Sun Power | Pit Stop | Warning | N/A | |
| Net Charge | Pit Stop | Disconnected | N/A | |

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

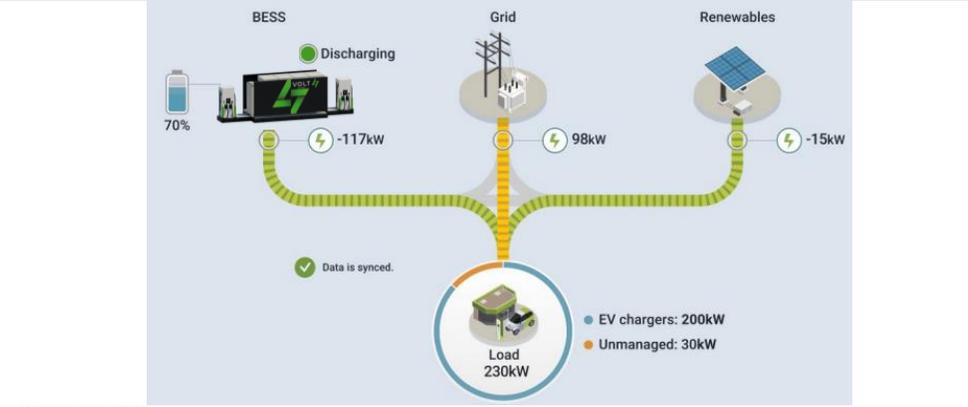
Wid 13 May 2023
 Average consumption: 390 kWh
 Actual consumption: 310 kWh

Power Usage Time Percentage: Last 7 days vs Average

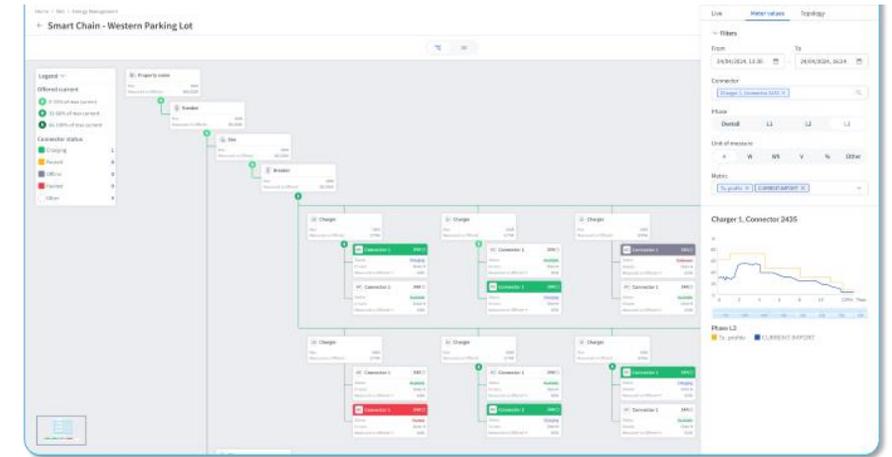
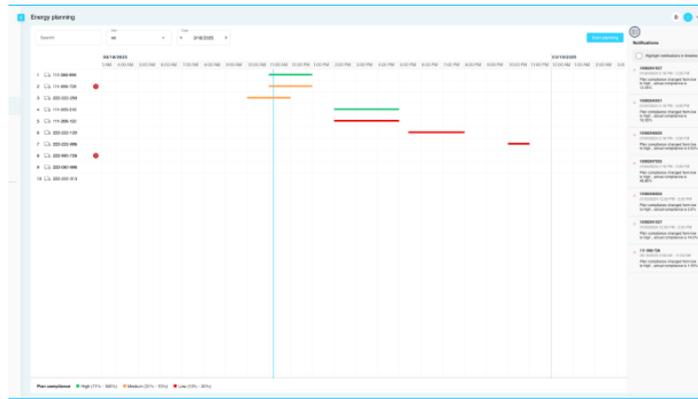
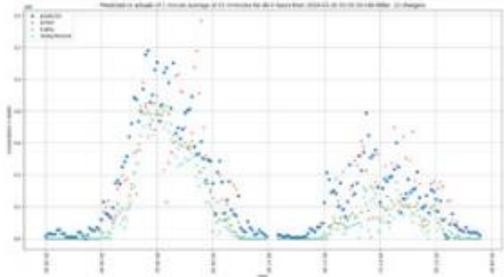
Under-loaded: 0-20% | 200-310 kW
 Normal-loaded: 20-80% | 311-440 kW
 Over-loaded: 80-100% | 441-550 kW

Detailed Power Usage

Under-Loaded: 0-20% | Normal-Loaded: 20-80% | Over-Loaded: 80-100%



Prediction



Bidding

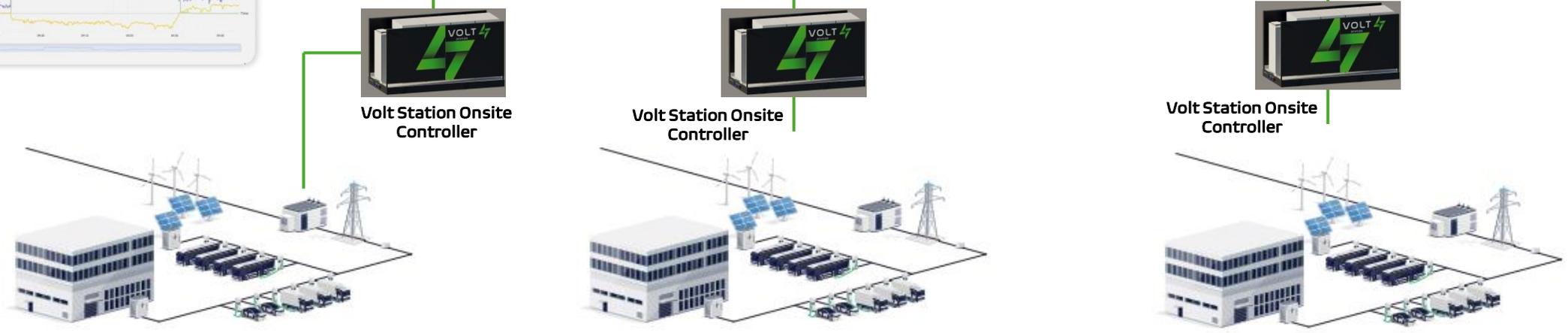
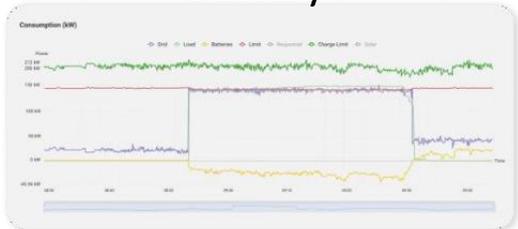


Wake-up functionalities built into the software to suspend the EV charging session during the night, resuming the charging session after the pre-heating is enabled to ensure the battery is charged to full when the driver is picking up the vehicle the next morning.

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



Delivery



✓ Valor Power 500kW

1.2MW

750kW

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.

028 7930 1599

info@valorpower.co.uk

valorpower.co.uk