



ABOUT US

Valor Power is a forward thinking energy company based in Northern Ireland.

We are committed to transforming the energy sector through innovation, sustainability, and engineering excellence. The company's aim is to accelerate the green transition, helping meet national and global carbon reduction targets.



VOLT

STATION

PRODUCTS

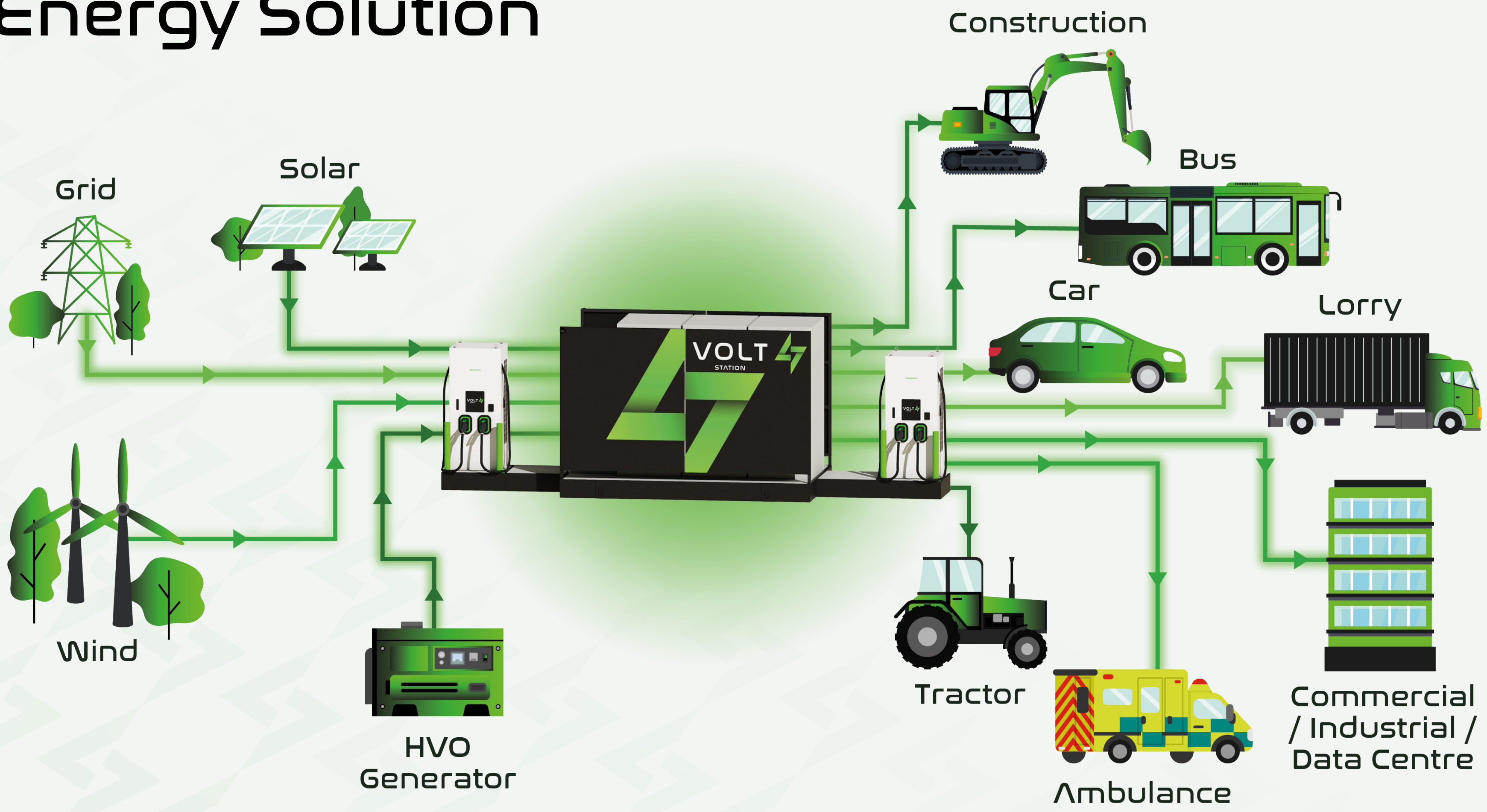
The All-in-One Energy Hub for a Smarter, Stronger Grid

Volt Station is an innovative battery energy storage system designed to meet the complex power demands of today's world.

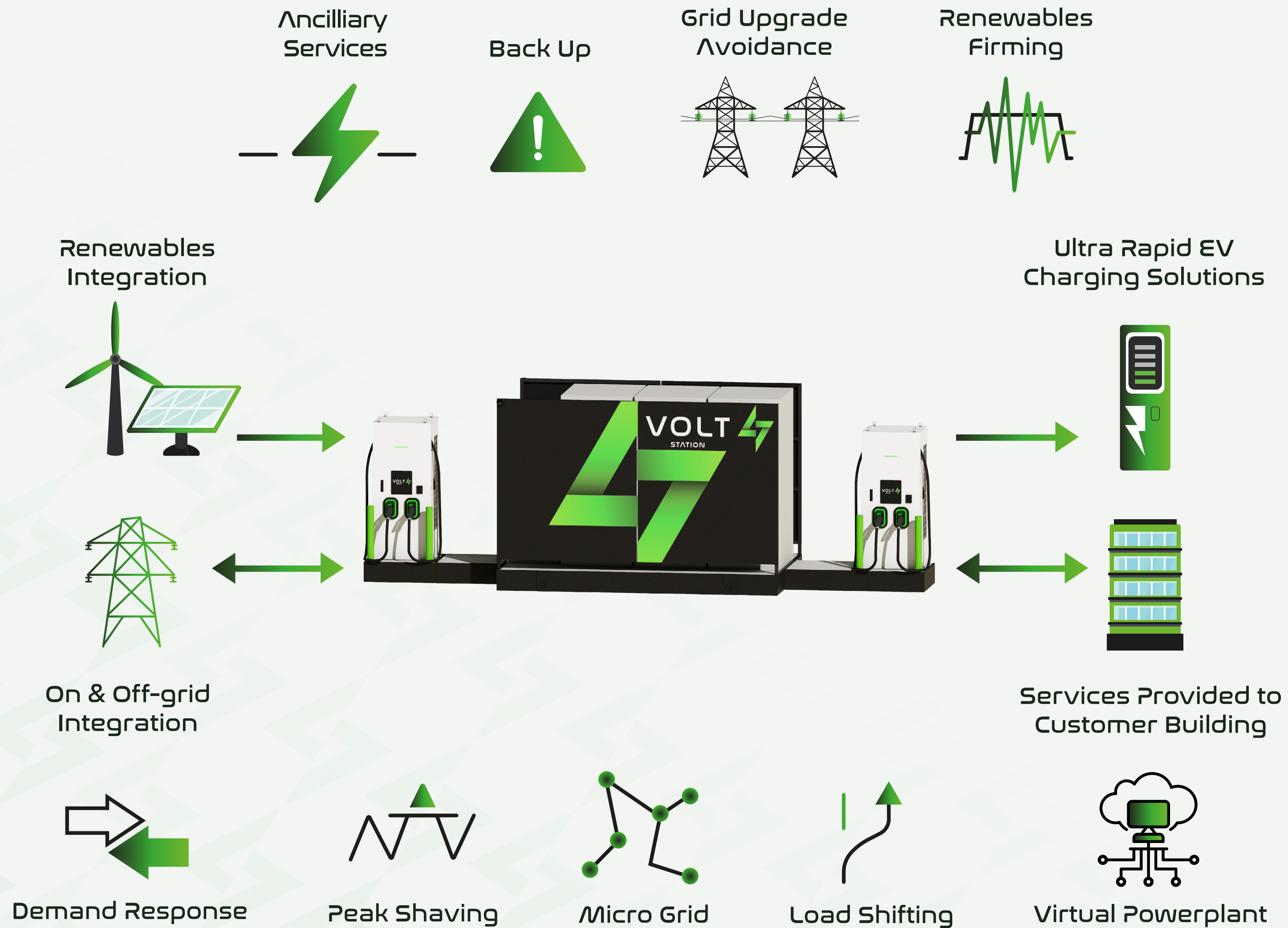
This versatile unit not only provides reliable energy storage and high-speed EV charging, but it also tackles the challenge of limited grid supply. By capturing and storing energy, the Volt Station can significantly boost the available power, enabling you to charge electric cars, buses, and other fleet vehicles even when the local grid's capacity is insufficient.

This means you can power your operations and grow your EV fleet without expensive and time-consuming grid upgrades. Volt Station is the perfect solution for businesses, industry, and institutions seeking a flexible, resilient, and intelligent approach to energy management and vehicle charging.

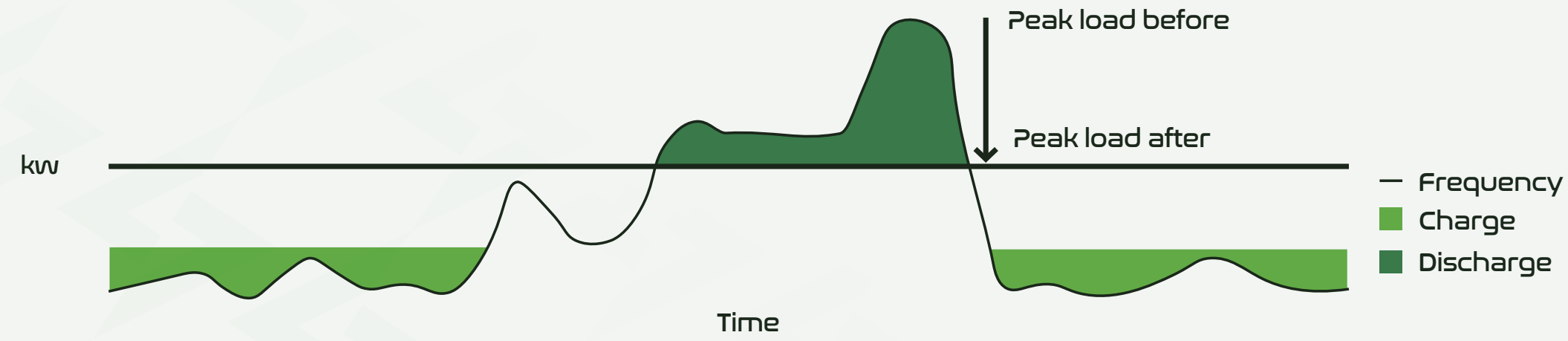
Your All-in-One Energy Solution



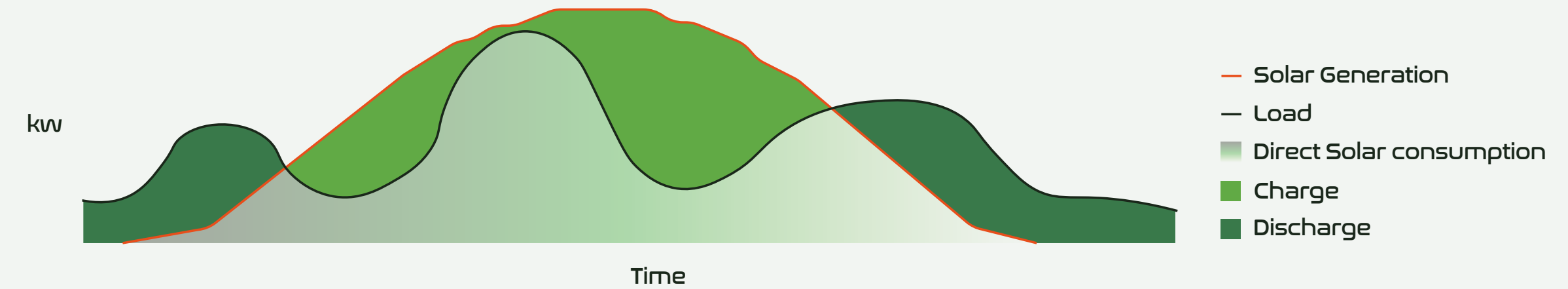
Revenue Streams



Peak Shaving



Renewable Self Consumption

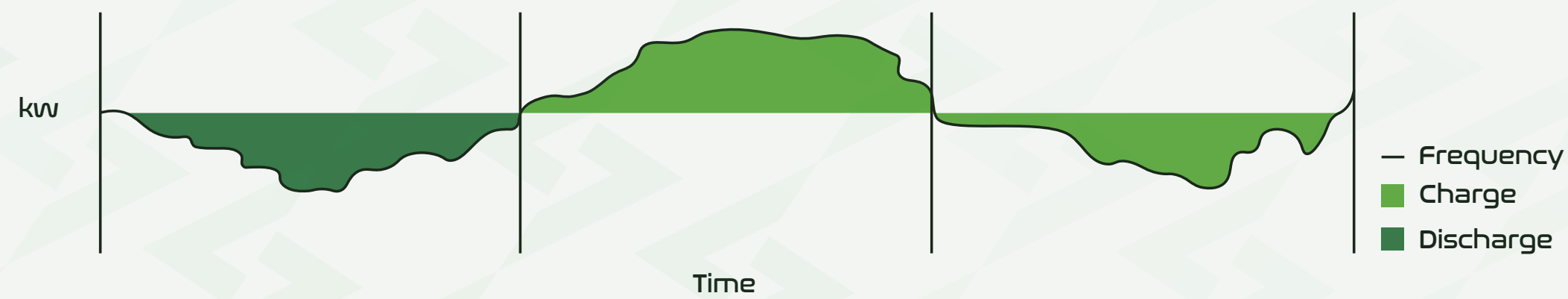


Reduce costs for energy & grid connection

Protect your business from future energy price increases

Drive sustainability & reduce CO2 emissions

Load Shaving

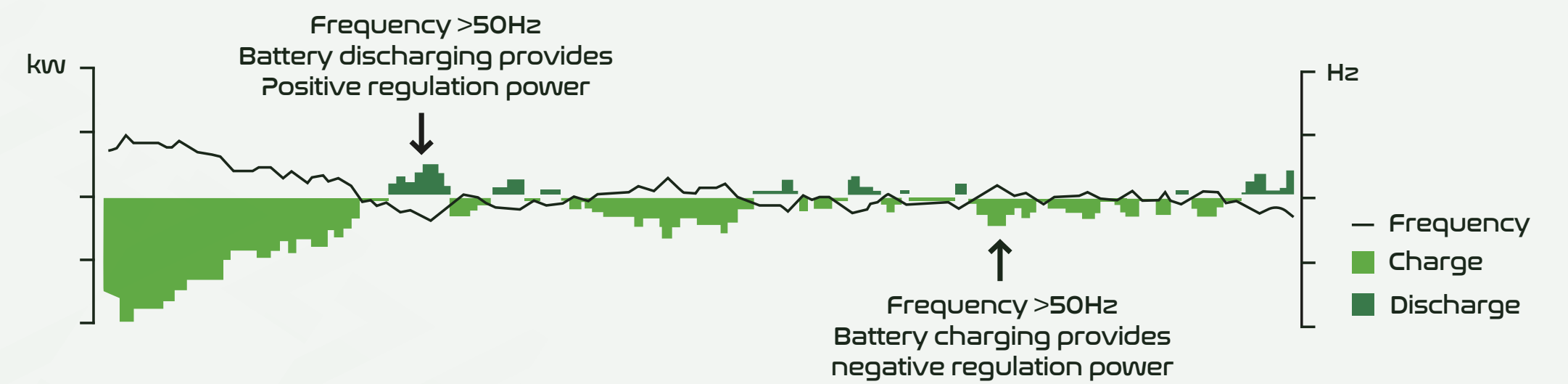


Avoid peak price periods & reduce energy costs

Protect your business from future energy price increases

Maximise the value of energy generated on-site

Ancillary Services



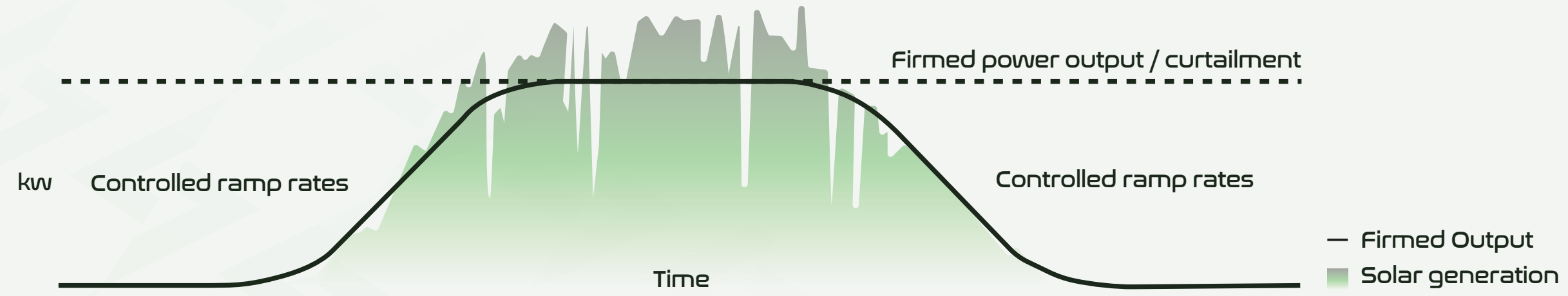
Provides reactive power control

Lower risk of outages

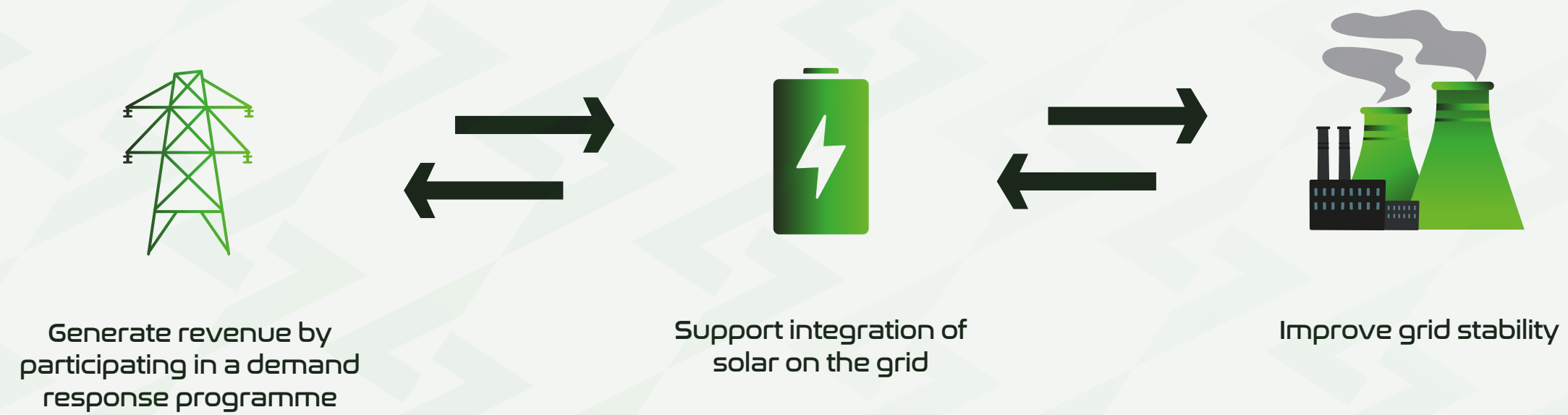
Provides additional revenue streams

Revenue Streams

Renewable Firming

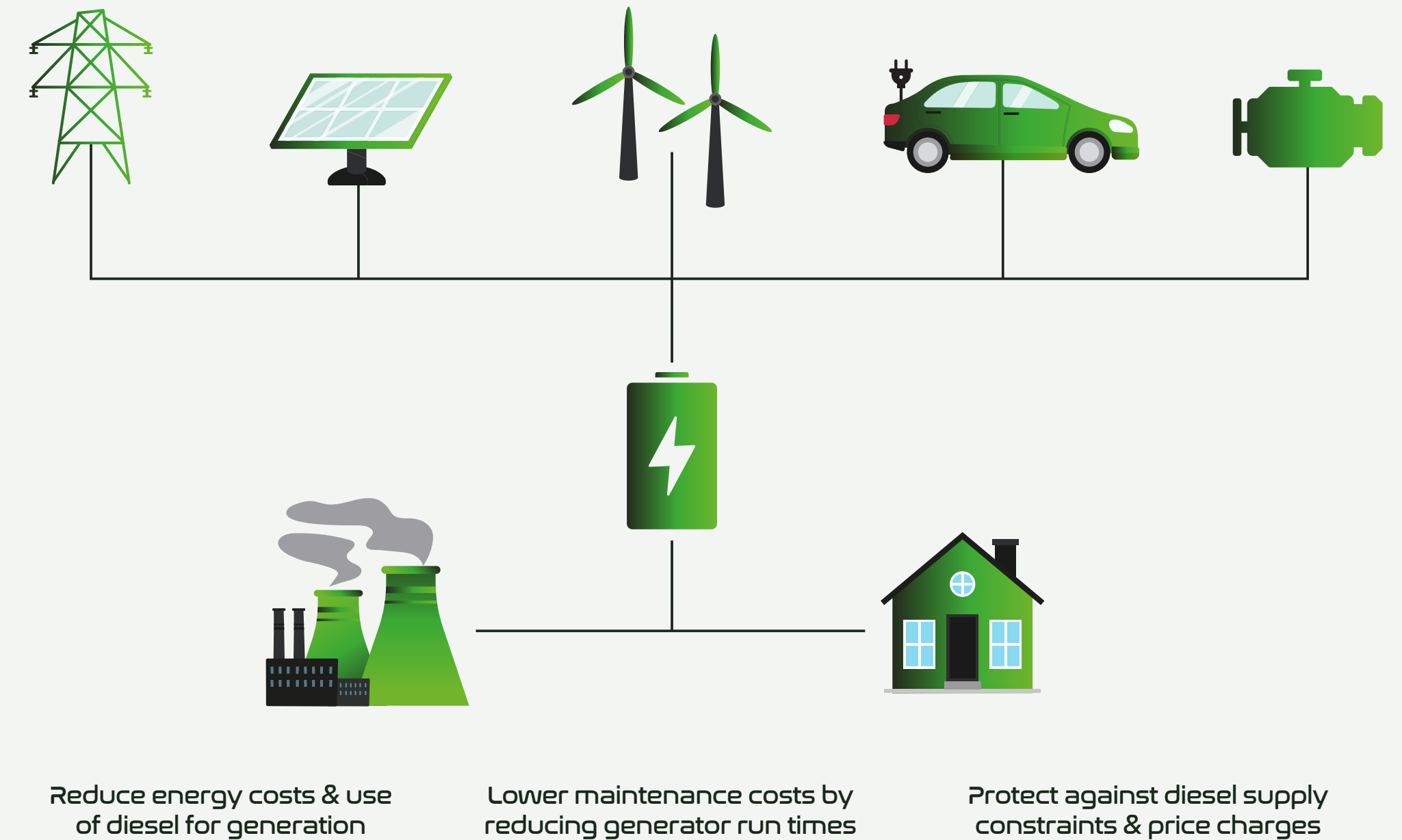


Demand Response



Revenue Streams

Micro Grid





Volt Station: The Future of Energy Storage & EV Charging

Tired of worrying about power outages and rising energy costs? Want to seamlessly integrate electric vehicles into your operations while contributing to a smarter, more resilient power grid? Meet Volt Station, the all-in-one battery energy storage system designed for modern energy needs.

Volt Station is more than just a battery; it's a dynamic energy hub that provides reliable power, lowers your electricity bills, and transforms your fleet's charging infrastructure.

This means you can power your operations and grow your EV fleet without expensive and time-consuming grid upgrades. Volt Station is the perfect solution for businesses, industry, and institutions seeking a flexible, resilient, and intelligent approach to energy management and vehicle charging.



KEY FEATURES & BENEFITS



Integrated EV Charging

Volt Station serves as a high-powered charging station for electric cars, buses, and other fleet vehicles. By using stored energy, you can charge vehicles even when the grid is strained, avoiding costly demand charges and providing a flexible, reliable charging solution for your entire fleet.



Virtual Power Plant (VPP) Ready

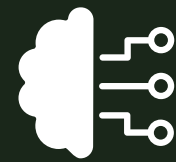
Join the future of energy. Volt Station can be aggregated with other units to form a Virtual Power Plant. This allows you to sell excess stored energy back to the grid during high-demand periods, generating revenue and supporting a more stable and efficient power network.

This feature transforms your energy asset from a simple tool into a profitable resource.



Battery Energy Storage System (BESS)

Capture and store energy from solar panels, the grid, or other sources. This stored power can be used during peak demand hours to reduce expensive utility charges or to provide backup power during an outage, ensuring your operations never miss a beat.



Intelligent Energy Management

Automatically charges during off-peak hours when electricity is cheapest and discharges during peak times, significantly reducing your energy bills.



Resilience & Reliability

Acts as a powerful backup during power outages, keeping your critical operations running and your fleet charged.



Grid Capacity Expansion

Bypasses the need for costly grid upgrades by boosting available power, accelerating your transition to an all-electric fleet.



Beyond Backup: A Virtual Power Plant in Your Hands

With Volt Station, you're not just a consumer of energy—you're a prosumer. Our system is Virtual Power Plant (VPP) ready, allowing you to participate in a network of connected energy resources. When the grid needs support, Volt Station can sell its stored energy back, creating a new revenue stream for your business. This capability helps stabilize the grid, reduce your carbon footprint, and turns your energy asset into a valuable, profit-generating tool.

The Volt Station is your gateway to a smarter, more sustainable, and more profitable energy future.

EV Charger		
Electrical Specification	Charging Mode	CCS2
	Maximum Power	Up to 480kW
	Max. Output Power of Single Port	Liquid Cooling: 480KW Air Cooling: 320kW
	Output Voltage	150-950V
	Output Current	Liquid Cooling: 500A (Max. 650A) Air Cooling: 380A (Max. 500A)
	Number of Outputs	2 x CCS2
	Peak Efficiency	96.5%
	Earthing System	3P+N+PE
	Input Voltage	3-phase 400V AC ±15% (2 Routes)
	Input Frequency	50Hz
	Power Factor	≥0.99
	Harmonic Distortion (THDi)	≤3%
	Minimum Adjustable Power	40KW
	Idle Power	50W
Mechanical Specifications	Enclosure Rating	IP54, IK10
	Dimensions (H×W×D)	2150*782*782mm
	Power Per Cubic Meter	366.41kW / m3
Environmental Requirements	Operational Acoustic Noise Level	≤65dB
	Operating Altitude	2000m
	Operating Temperature Range	-35° ~ +55°
	Storage Temperature Range	-40° ~ +70°
	Relative Humidity	≥95%
Connectivity & User Interface	Connectivity	Dual 5G, Wi Fi, Ethernet, WiSun
	Screen Type	8inch, 15 inch, 27 inch AD screen Optional
	Cable Length	5m
	Status Indication	LED/LCD/APP
	Display Height	1140mm
	RFID Protocols	ISO 14443 A/B, ISO/IEC 15693
	Credit Card Readers	Payter
	User Authentication	APP, RFID card, QR code, Credit Card (Optional)
	User Interface	Proprietary
	Cable Mgmt System	Standard
Certification & Safety Standards	Safety Standards	IEC 61851-1; IEC 61851-23; IEC 61851-21-2; ISO 15118
	Certification	CE, CB, UKCA, Eichrechet, MID, LNE, EMC Class A
	EMC Compliance	Class A
	Design Life	15 years
	Warranty	24 months, warranty extension possible

Battery Energy Storage System per unit		
System Information	Nominal Power	100kW
	Nameplate Capacity	215kWh
Battery Information	Battery Chemistry	LFP
	Capacity	280Ah
	Configuration	240S1P
	Nominal Voltage	768V
	Voltage Range	672~864V
	Charge and Discharge Rate	≤0.5
	Depth of Discharge	98%
PCS Information	Nominal Power	100kVA
	Operating Mode	Support Grid-Connected & Off-Grid Operation
	Nominal Grid / Islanding Voltage	400Vac
	Power Factor	-1 to 1
	Nominal Grid Frequency	50Hz
	Isolation	No Isolation
	Connection Method	3P4L
Working Conditions	Degree of Protection	IP55
	Noise Emission	≤75dB @1M
	Operating Temperature Range	-25°~45°
	Relative Humidity	0~95% (Non-Condensing)
	Max. Working Altitude	3000m
System Information	Dimensions (W×H×D)	1000×2500×1350mm
	Cooling	Intelligent Liquid Cooling
	PCS Cooling	Forced Air Cooling
	Fire Suppression System	Aerosol
	Communication Protocol	CAN/485z2
	Certification	UL1973, UL9540A, IEC62619, IEC61000, GB/T36276, 62933

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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