

PRODUCT HANDBOOK · 2026

Bright Grid Energy Systems Handbook

Distributed energy infrastructure for industrial and commercial operators — battery storage, hybrid microgrids, fleet charging and mobile energy systems, coordinated by the Nexus™ platform.

35+

DEPLOYMENTS

50MWh+

STORAGE INSTALLED

4

SOLUTION FAMILIES

Multiple

COUNTRIES &
APPLICATIONS

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SECTION 01

The Nexus™ Platform

Every Bright Grid system ships with the CORE Platform™ and Nexus™ intelligence layer. Hardware delivers capacity; the platform delivers the outcome — coordinating generation, storage, loads and backup in real time across single sites and whole portfolios.

Capabilities

- Remote Monitoring
- EMS Integration
- Asset Performance Analytics
- Dynamic Load Management
- Fleet Charging Orchestration
- VPP Readiness
- AI-assisted Energy Optimisation

How we think about system design

We start with the operational reality, not the product catalogue. We engineer for the site, not the spec sheet. We design systems that grow rather than systems that are replaced. And we measure success in operating hours, not on installation day.

End-to-end energy infrastructure — engineered, integrated and delivered. Not component sales. Not system assembly.

SECTION 02

System Families

BRIGHT GRID Series™

Commercial & Industrial Battery Storage

Commercial and industrial operators face high and unpredictable electricity costs, peak demand charges, grid constraints and rising sustainability expectations.

Outcomes

- Reduce Energy Costs
- Peak Demand Management
- Solar Self-Consumption
- Backup Resilience

Applications

- Factories
- Warehouses
- Commercial Buildings
- Shopping Centres
- Cold Storage
- Industrial Facilities

Models

- GRID-300
- BRIGHT GRID-500

BRIGHT EDGE Series™

Remote & Hybrid Microgrid Systems

Remote operations face high diesel costs, fuel logistics risks, grid unavailability and increasing pressure to improve sustainability and reliability.

Outcomes

- Diesel Reduction
- Energy Resilience
- Remote Power Stability
- Renewable Integration

Applications

- Mining
- Remote Camps
- Tourism Infrastructure
- Oil & Gas
- Remote Industrial Sites

Models

- BRIGHT EDGE One™ 100
- BRIGHT EDGE One™ 200
- BRIGHT EDGE Titan™ H5
- BRIGHT EDGE Titan™ H30
- BRIGHT EDGE Remote™ M100

BRIGHT FLEET Series™

EV Fleet Charging Systems

Fleet operators face rising energy costs, grid constraints and charging challenges that impact uptime, productivity and total cost of ownership.

Outcomes

- Fleet Charging Optimisation
- Demand Charge Reduction
- Battery-Buffered Charging
- Grid Independence

Applications

- Logistics Depots
- Transport Hubs
- Construction Projects
- Mining Fleets

Models

- BRIGHT FLEET Flow™

BRIGHT MOBILE Series™

Mobile Energy & Temporary Charging

Temporary and relocatable sites need dependable power before permanent infrastructure exists — without long lead times or fuel dependency.

Outcomes

- Portable Energy
- Rapid Deployment
- Temporary Microgrids
- Off-Grid Power

Applications

- Construction Sites
- Emergency Power
- Temporary Events
- Mining Operations
- Field Deployment

Models

- MOBILE Go™
- MOBILE Flex™

SECTION 03

Deployment Scenarios

01 — Remote & Off-Grid Operations

Mining / Agriculture / Oil & Gas / Remote Sites

Integrated solar, storage and microgrid systems built for the world's most demanding environments.

DIESEL REDUCTION	FUEL DELIVERIES	DEPLOYMENT	AVAILABILITY
Up to 70%	Fewer	Weeks	24/7
Hybrid solar + storage vs generator-only operation	Reduced logistics exposure across remote supply chains	Containerised, modular architecture, minimal civil works	Coordinated generation, storage and backup control works

Challenge

- High diesel costs
- Fuel logistics risks
- Grid unavailability
- Increasing ESG pressure
- Operational downtime risks

Key Outcomes

- Up to 70% diesel reduction
- Lower operating costs
- Enhanced resilience
- Rapid deployment
- Future-ready energy infrastructure

System Stack

- Primary · EDGE Series™ — Hybrid Microgrid Systems
- Secondary · MOBILE Series™ — Temporary Expansion & Mobile Energy
- Intelligence · CORE Platform™ / Nexus™ — EMS & Remote Monitoring

02 — Grid-Connected Commercial Energy

Commercial Buildings / Hospitality / Industrial Facilities

Integrated energy management systems designed to reduce electricity costs, optimise on-site generation and improve operational resilience.

PEAK DEMAND	ELECTRICITY SPEND	SWITCHOVER	ELECTRIFICATION
Shaved	20-40%	<10ms	Ready
Intelligent load management across the daily profile	Typical reduction through arbitrage and self-consumption	Critical loads stay powered through grid interruptions	Capacity headroom for future electric equipment
Challenge	Key Outcomes		
— Rising electricity prices — Peak demand charges — Network constraints — Sustainability targets — Backup power concerns	— Reduce peak demand charges — Lower total electricity costs — Improve energy resilience — Enable future electrification		
System Stack			
— Primary · GRID Series™ — Commercial Battery Storage — Secondary · Solar Integration — Demand Management / VPP-ready — Intelligence · CORE Platform™ / Nexus™ — EMS & Energy Optimisation			

03 — Microgrid & Community Systems

Islands / Communities / Industrial Campuses

Community-scale microgrids that reduce dependence on constrained central networks and deliver reliable, lower-emission power.

GRID DEPENDENCE

Reduced

Local generation and storage carry the load

NETWORK COSTS

Lower

Less exposure to transmission and upgrade charges

EMISSIONS

Down

Renewable-first dispatch with generator backup

RESILIENCE

Islanded

Continues operating through wider network outages

Challenge

- Unreliable or no grid access
- High energy costs
- Dependence on central grids
- Long-term sustainability requirements

Key Outcomes

- Energy independence
- Improved resilience
- Lower emissions
- Reduced network costs

System Stack

- Primary · EDGE Series™ — Community Microgrids
- Supporting · GRID Series™ — Community Storage Assets
- Intelligence · CORE Platform™ / Nexus™ — EMS & Grid Management

04 — Fleet & Mobile Energy Systems

Logistics / Construction / Temporary Charging / EV Fleets

Battery-buffered charging infrastructure that delivers fast fleet charging without waiting years for network capacity.

CHARGING SPEED

3-4x

Faster depot turnaround on the existing connection

GRID UPGRADE

Avoided

Battery buffering absorbs charging demand spikes

DEMAND CHARGES

Reduced

Charging orchestrated around tariff windows

DEPLOYMENT

Modular

Scale sites in stages as the fleet converts

Challenge

- Grid limitations at depot or site
- High grid upgrade costs
- Charging demand spikes
- Electrification uncertainty

Key Outcomes

- Faster electrification without grid upgrades
- Reduced demand charges
- Flexible deployment
- Lower total cost of ownership

System Stack

- Primary · FLEET Series™ — Fleet Charging Infrastructure
- Supporting · MOBILE Series™ — Mobile Charging & Temporary Power
- Intelligence · CORE Platform™ / Nexus™ — Fleet Charging Orchestration

SECTION 04

Selected Projects

01 — Remote Construction Site

BRIGHT EDGE Remote™ M200 · Mobile Solar + Storage Microgrid

Indonesia · Island Port Construction Site

Solution

Mobile microgrid combining solar generation, battery storage, intelligent EMS and diesel generator integration. Containerised modular architecture enabled rapid installation with minimal civil works.

Outcome

Significant reduction in diesel generator runtime, lower fuel consumption and operating costs, and a scalable platform that adapted as construction demands changed.

02 — Energy Trading Project

BRIGHT EDGE One™ 100 · 500kW / 1.075MWh

Netherlands · Commissioned April 2024 · 5 × BRIGHT EDGE One™ 100

Solution

Five systems combined into a 500kW / 1.075MWh storage platform participating in electricity spot market trading, charging at low prices and discharging into higher market demand.

Outcome

Renewable generation became an actively managed asset — new revenue opportunities, better energy utilisation and improved long-term project economics.

03 — Grid Stability Project

BRIGHT GRID-500 Plus™ · 1MW / 1.104MWh

Sweden · Commissioned April 2024 · 2 × BRIGHT GRID-500 Plus™

Solution

Two systems providing frequency regulation and grid balancing, monitoring grid conditions continuously and responding within seconds to frequency deviations.

Outcome

Fast-response grid support, enhanced power quality and improved network resilience, supporting greater renewable penetration.

CONTACT

Talk to our team

Let's look at the energy profile of your operation. Share your site load, generation and reliability requirements and our engineering team will map the right system configuration — from a single commercial battery through to a multi-asset microgrid.

What we need to start

- Site location and application type
- Annual electricity consumption or diesel usage
- Existing generation, grid connection or depot capacity
- Reliability and backup requirements
- Target commissioning window

How engagement works

- Energy profile review — load, tariff and generation analysis
- System configuration — sizing, architecture and integration plan
- Commercial proposal — delivery scope, timeline and performance basis
- Delivery and operation — commissioning, monitoring and optimisation via Nexus™

Bright Grid Energy

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Engineering-led. Direct BYD supply chain. 100 MW BESS experience.