



**Empowering Your Business With**

# Advanced Energy Storage Solutions



- Reduce Energy Costs
- Enhance Sustainability
- Secure Your Power
- Reduce Carbon Emissions

## Powering the Future with Behind-the-Meter Energy Storage Solutions

### Who We Are

Dale Power Solutions (DPS) is a trusted leader in the power industry, delivering cutting-edge energy solutions for 90 years. We specialise in providing Battery Energy Storage Systems (BESS), Uninterruptible Power Supplies (UPS), Backup Generators, Service and Maintenance for a multiple range of sectors.

### Our Expertise

With extensive engineering capability in the UK and 80 engineers across the UK, DPS provides complete design, delivery and maintenance expertise to the energy storage sector, offering BESS solutions to help businesses reduce energy costs, increase resilience, and meet their sustainability targets.



**1935**  
Delivering excellence since



**80+**  
Dedicated service engineers



**153,500**  
Maintenance hours per year



**24/7**  
Round the clock protection



**10,000+**  
Assets serviced annually



**4-hour**  
Nationwide response

## What is Behind-the-Meter Energy Storage?

Behind-the-meter BESS refers to energy storage systems installed on-site at a business or industrial facility. These systems help optimise energy use by storing electricity for later use, reducing reliance on the grid during peak demand, and providing backup power in case of outages.

## Why it Matters?

Energy storage allows businesses to:

- ➔ Reduce electricity costs through peak shaving.
- ➔ Improve energy security with backup power.
- ➔ Achieve sustainability goals by integrating with renewable energy.
- ➔ Benefit from demand response and other grid services.



# Why Choose Dale Power Solutions for Your Energy Storage Needs?

At Dale Power Solutions, we pride ourselves on providing a comprehensive, turnkey solution that supports you every step of the way in your energy storage journey. Here's how we work with you to deliver a seamless experience from start to finish.



## The Dale Power Process

### 1. Initial Consultation

We begin by understanding your specific requirements, whether cost savings, carbon reduction, or microgrid integration. Then, we'll provide an overview of the solutions we can offer, tailored to your needs.

### 2. System Modelling & Proposal

With just your energy bill and a year's worth of half-hourly data, we'll model your site to design the most efficient system for you. Whether it's a battery alone, a combination of battery and solar PV, or a complete solution with battery, solar PV, and HVO generator, we ensure a future-proof design. If additional loads, such as heat pumps or EV chargers, are planned, we'll incorporate them at this stage.

### 3. Customer Presentation

Once the system proposal is ready, we'll arrange a meeting to present the solution, including cost breakdown and return on investment. This is also an opportunity to discuss how we can assist with financing and explore additional markets and revenue streams that benefit your business.

### 4. Site Visit

After positive feedback from the customer pitch, we'll schedule a site visit to finalise system details. During this visit, we'll assess your existing equipment, infrastructure, and the proposed location for integration, ensuring everything aligns with your goals.

### 5. Final Proposal & Design

Following the site visit, we'll send a final proposal and detailed designs, ensuring everything is tailored to your specific needs and site conditions.

### 6. Procurement & System Build

Once you approve the final proposal, the order is placed, allowing us to order the necessary equipment and begin the project delivery process.

### 7. Installation & Mechanical Completion

Our team will deliver and position the equipment on-site. Dale Power Solutions Engineers will then handle all electrical and mechanical installations, ensuring everything is completed to the highest standards.

### 8. Commissioning:

Upon installation, the system will be commissioned, and performance tests will be carried out. Basic customer training will also be provided to ensure you are confident with the system's operation.

### 9. Operation & Maintenance:

We offer ongoing support throughout the 20-year asset lifetime via our service and maintenance department. With over 80 dedicated engineers across the UK, we provide both planned and emergency maintenance, along with a 24/7 technical support service to ensure your system operates at peak performance.

**At Dale Power Solutions, we're committed to providing you with the complete energy storage solution, from design to ongoing support, ensuring a smooth and successful project at every stage.**

## Modelling and Analysis

# Maximising Savings with Tailored Energy Solutions

At Dale Power Solutions, we take a data-driven approach to designing the most effective energy storage solutions for your business. By utilising your **half-hourly electricity consumption data (HH data)**, our expert team performs detailed analysis to model how a **Battery Energy Storage System (BESS)** can significantly reduce your electricity purchase costs.

## Our Approach

- **Data-Driven Insights:** We analyse your unique consumption patterns by assessing your HH data, which provides a clear view of how your energy use fluctuates throughout the day.
- **Optimised BESS Sizing:** Using this data, we design a tailored BESS solution that optimises the charge and discharge cycles to reduce energy costs during peak demand periods, leveraging the stored energy when electricity prices are highest.
- **Peak Shaving and Load Shifting:** Our modelling identifies opportunities to lower your demand charges by shaving peaks in your energy consumption and shifting usage to off-peak periods, minimising your reliance on expensive grid electricity.

## Maximising Return on Investment (ROI)

By modelling the financial benefits of energy storage against your current consumption profile, we provide a clear forecast of **CAPEX payback**, ensuring that your investment in a BESS delivers measurable savings and improved energy efficiency. This analysis ensures you not only achieve cost savings but also position your business to capitalise on future opportunities such as participating in demand response programs.

At Dale Power Solutions, our sophisticated modelling tools give you the confidence that your BESS is perfectly sized and designed for your specific needs, delivering both operational and financial benefits.



## Detailed Design Solutions

# Balancing Efficiency and Investment

At Dale Power Solutions, we understand that the success of a Battery Energy Storage System (BESS) hinges on a carefully crafted design that balances both performance and cost-effectiveness. Our focus is on delivering tailored solutions that provide an optimal balance between **capital expenditure (CAPEX)** and the most advanced hardware and software technologies available.

### Optimising System Efficiency

- **Holistic Design Approach:** We assess your energy needs and operational goals to design a BESS solution that integrates seamlessly with your infrastructure, balancing storage capacity, power ratings, and system performance for maximum efficiency.
- **Hardware and Software Integration:** By utilising state-of-the-art hardware and intelligent software, we ensure that your BESS delivers optimal charge/discharge cycles, real-time monitoring, and automated grid participation. This intelligent integration ensures your system operates at peak efficiency while minimising operational costs.

### Balancing CAPEX with Long-Term Performance

Our team focuses on delivering solutions that not only meet immediate operational needs but also provide a cost-effective path to long-term energy savings. By carefully selecting the most suitable hardware, battery configurations, and software controls, we help you maximise performance without unnecessary overinvestment. This balance ensures that your initial CAPEX is aligned with your financial goals, ensuring a faster payback period and sustained return on investment (ROI).

### Custom-Tailored Solutions

Every business has unique energy needs, and our **detailed design process** ensures that your BESS is built to meet your specific requirements. Whether your priority is reducing energy costs, increasing energy security, or supporting sustainability initiatives, we deliver a system that's tailored to you.

At Dale Power Solutions, our detailed design solutions offer a smart investment that balances cutting-edge technology with cost-effective design, ensuring your BESS is efficient, scalable, and future-proof.

#### CONTACT US TODAY

And discover how much you can **save** on your energy bills and reduce your carbon footprint.



## Why BESS?

# Unlock the Full Potential of Your Energy Strategy

A **Battery Energy Storage System (BESS)** is more than just a backup power source – it's a strategic asset that empowers your business to optimise energy use, enhance sustainability, and protect against rising energy costs.

At Dale Power Solutions, we deliver BESS solutions that help businesses like yours unlock the full potential of your energy resources and future-proof your operations.

### 1. Maximise Self-Consumption from Renewable Energy Sources

If your business has invested in renewable energy, such as **solar PV**, a BESS allows you to capture and store the surplus energy you generate. Rather than exporting excess energy back to the grid at low tariffs, BESS enables you to **self-consume** that stored energy when demand is high, maximising the return on your renewable investment. By increasing your reliance on self-generated clean energy, you reduce your dependence on the grid and lower your overall energy costs.

### 2. Achieve Carbon Intensity Reduction and Support Net Zero Goals

Sustainability is no longer a choice; it's a business imperative. A BESS system allows you to significantly reduce your **carbon footprint** by optimising how and when you use your energy. By storing renewable energy and using it during peak demand periods, you can cut emissions, lower your reliance on carbon-intensive grid power, and align your operations with your **net zero** goals. It's a smart way to meet **Environmental, Social, and Governance (ESG)** targets and demonstrate your commitment to a greener future.

### 3. Overcome Grid Connection Capacity Limitations

Many businesses face grid connection capacity limitations that restrict their ability to expand operations or increase renewable energy generation. With a BESS, you can circumvent local DNO constraints by storing excess energy produced during off-peak periods and using it when needed, without depending on costly grid upgrades. This not only maximises your generation potential but also supports business growth including future EV charging requirements without the limitations imposed by the grid.

### 4. Protect Against Rising Energy Costs

Energy costs are unpredictable and continue to rise. By investing in a BESS, you can protect your business from volatile energy prices by storing electricity during lower-cost periods and using it during peak times, when prices spike. This **peak shaving** approach helps you significantly reduce your energy bills and provides a buffer against future price hikes, allowing for better financial planning and control over operational expenses.

### 5. Optimisation

Dale Power Solutions can introduce customers to trusted optimisers, enabling them to participate in the Capacity Market and generate additional revenue by supporting grid stability. This process does not affect the day-to-day use of the system, ensuring customers can continue to operate their assets as usual while benefiting from these opportunities.

- ➔ **Save up to 90% Scope 2 CO<sub>2</sub> emissions**
- ➔ **Reduce the cost of energy by up to 60%**
- ➔ **Generate passive revenue through aggregation**

## Our Products

# Scalable BESS Solutions



### Dale BESS (100kWh–1MWh)

#### Overview:

Ideal for small to medium-sized commercial applications, the Dale BESS offers a capacity range of 100kWh–1MWh.

#### Applications:

Commercial buildings, manufacturing plants, retail centers.

#### Features:

- Scalable capacity to meet increasing energy demands.
- 0.5C maximum charge and discharge rate, ensuring energy efficiency and load management.
- Perfect for peak shaving, load shifting, and backup power.



### All Solutions are Scalable

Our battery systems are designed with scalability in mind, allowing businesses to start with a smaller system and expand as their energy needs grow.



### BYD MC Cube (500kWh+) and Skid Solutions

#### Overview:

Tailored for large industrial sites, the BYD MC Cube offers capacity from 500MWh and beyond, with modular skid solutions that scale up to 5.5MWh.

#### Applications:

Large industrial facilities, data centers, distribution centers.

#### Features:

- Scalable configurations for large-scale operations.
- 0.5C maximum charge and discharge rate.
- Suited for large-scale energy management, including grid participation.

## Our Services

# Comprehensive Turnkey Solutions



## BESS System Design & Optimisation

Our team provides expert **specification modelling** to optimise BESS sizing based on your energy usage and financial goals. This ensures you receive a tailored solution that maximises return on investment (ROI) and balances capital expenditure (CAPEX).

## End-to-End Project Delivery

DPS offers a full **turnkey solution**, managing every stage from initial consultation to the final installation. Our services include:

- Energy analysis and system sizing.
- Supply and installation of BESS systems.
- Tailored warranty solutions, with product and performance warranties available for up to 20 years.

## Ongoing Service & Maintenance

With a team of **80+ service engineers** stationed across the UK, we provide long-term **maintenance and support** to ensure your system runs efficiently throughout its lifespan. This includes planned preventive maintenance and reactive service in case of any issues.

## BYD Battery Options

Dale Power Solutions offers a range of market-leading energy solutions, including the MC Cube ESS from BYD. These best-in-class systems deliver exceptional energy density, unmatched flexibility, and industry-leading safety features, making them the ideal choice for behind-the-meter applications.

## Here's why working with us is the smart choice

### 1. Expertise You Can Trust

With 90 years in the power industry, Dale Power Solutions has a proven track record of delivering reliable, innovative power solutions to businesses like yours. Our experience spans across critical industries, from commercial and industrial sectors to utilities, and we bring this wealth of knowledge to every energy storage project. You can be confident that we know how to optimise your energy use while delivering cost savings and performance improvements.

### 2. Comprehensive Turnkey Solutions

We don't just sell a product — we deliver a complete solution. From the initial consultation and system design to installation, commissioning, and ongoing support, Dale Power Solutions manages every aspect of your BESS project. Our **end-to-end turnkey service** ensures that your system is tailored to your specific needs, maximising efficiency, resilience, and return on investment. With us, it's simple and seamless, ensuring your project is delivered on time, on budget, and ready to perform.

### 3. Tailored Solutions to Maximise Your Savings

Our energy storage systems are designed with one goal in mind: helping you achieve tangible results. Whether it's cutting energy costs, reducing reliance on the grid, or providing critical backup power, our solutions are built to deliver. We use advanced modelling to ensure your system is the perfect fit for your business, optimising your investment and future-proofing your energy needs as your operations grow. With scalable systems and flexible financing, we make it easier for you to get the most out of your energy investment.

**“By choosing Dale Power Solutions, you're not just getting an energy storage system — you're gaining a trusted partner dedicated to your business's success, sustainability, and growth. Let us help you unlock the full potential of energy storage and power your future with confidence.”**

### 4. Unrivalled Service & Support

We believe that delivering a great solution doesn't stop at installation. With **80+ skilled engineers** across the UK, our nationwide service team is always on hand to provide ongoing maintenance, preventive care, and rapid response in case of any issues. We ensure your system runs at peak performance throughout its lifespan, giving you peace of mind and security for years to come.

### 5. Commitment to Sustainability

As more businesses commit to lowering their carbon footprint, Dale Power Solutions is here to help you meet your **Environmental, Social, and Governance (ESG)** goals. Our energy storage solutions integrate seamlessly with renewable energy sources such as solar and wind, helping you reduce emissions while improving operational efficiency. By working with us, you not only save on energy costs but also make a real impact on the environment.

### 6. Proven Technology from Trusted Partners

At DPS, we work with the world's leading energy storage providers, including **BYD**, to offer you state-of-the-art battery systems that are both scalable and robust. Our strong technology partnerships mean that you'll benefit from the latest innovations, ensuring your system is reliable, future-proof, and designed for optimal performance.

## Interested in learning more?

Contact us today for a consultation and let us help you design an energy storage solution tailored to your business needs.

**0330 999 3000**

**hello@dalepowersolutions.com**

Dale Power Solutions Ltd  
Salter Road  
Eastfield Industrial Estate  
Scarborough  
YO11 3DU

**dalepowersolutions.com**