

Case Study: Bourges View Head Office – Smart Microgrid EV Charging Hub

A blueprint for cost-effective, sustainable EV infrastructure in the UK

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The Story: Fast, Sustainable, and Profitable EV Charging

When businesses at Bourges View in Peterborough wanted to install ultra-rapid EV chargers, traditional grid connections presented **months of delay and high costs**. For a small business seeking **sustainability credentials** and a medium-sized fleet, this was a major barrier.

Enter a **pioneering smart microgrid solution in the UK**: rooftop solar, battery storage, and intelligent load management that **balances energy, reduces costs, and allows rapid deployment**.

Director's quote: "The savings have been fantastic for the company and our clients. This is the best way to showcase what we do."

Visual:

Example A: Solar and EV hubs at the site – illustrating how solar panels power the chargers and integrate seamlessly with the existing infrastructure



The Challenge

- Traditional EV infrastructure is **slow, costly, and limited**: high connection fees, long timelines, and insufficient capacity for high-demand charging.
- Small and medium businesses need solutions that **support sustainability, customer access, and fleet operations**, without large upfront costs.

Objective: Deliver a **reliable, low-carbon EV hub** capable of **continuous 180kW ultra-rapid charging**, while minimising reliance on the national grid.

The Smart Microgrid Solution

UK EV Charger deployed a **flexible, scalable microgrid**, enabling businesses to:

- **Rooftop Solar Array (80kW)**: Powers chargers with renewable energy.
- **Battery Storage (3 high-capacity units)**: Stores solar and off-peak grid energy for peak demand periods.
- **Low-Capacity Grid Connection**: Provides baseline energy without expensive upgrades.
- **Smart Load Management**: Automatically balances power between chargers, batteries, and the grid, something traditional systems cannot do.

Flexible Options for Businesses:

- Full microgrid for maximum independence.
- EV or solar-only setup, with funding support options.

Visuals:

- **Example B: Full microgrid solution – demonstrating a complete smart energy system powering rapid EV charging.**

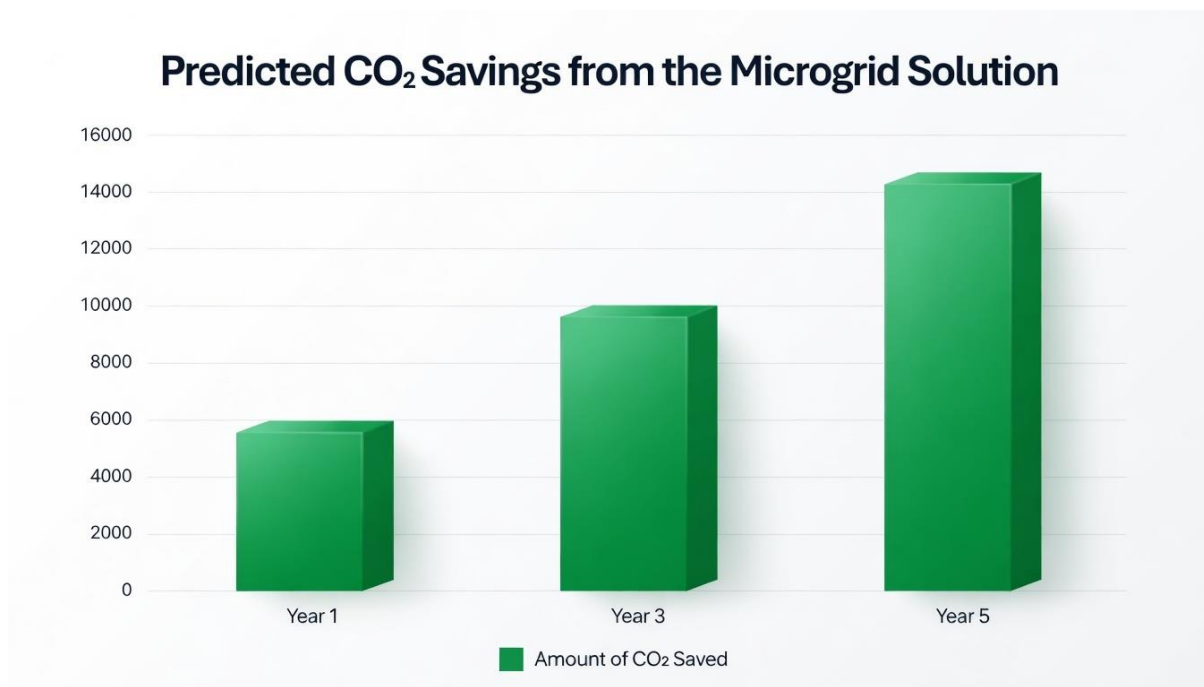


Business Benefits

Feature	Benefit for Small Businesses	Benefit for Large Fleets / Enterprises
180kW Ultra-Rapid Charging	Attracts customers with fast, reliable access	Minimises downtime for fleet vehicles
24/7 Operation	Supports public charging and staff	Ensures fleet availability even overnight
Low Operating Costs	Savings on energy bills, maximises ROI	Predictable cost reductions for large-scale operations
Smart Load Management	Automatic optimisation reduces grid dependence	Balances multiple high-capacity chargers efficiently
Sustainability Credentials	Enhances brand reputation and customer appeal	Meets ESG targets and reporting requirements
Flexible Expansion	Easy to add more chargers or solar	Scalable across multiple sites

Visuals:

- **Example C: Predicted CO₂ savings at the site** – shows predicted annual savings (~14,000 tonnes) by year 5.



- **Example D: Chargers active in use** – real-world operation with happy users.



User Feedback:

- Drivers love **low prices, flash sales, and convenience.**
- “Perfect location, grab a coffee over the road while charging.”
- Frequent users praise reliability and **energy-saving optimisation.**

Results

- **60% reduction** in grid upgrade costs.
- **50%+ energy from solar**, saving approximately **120 tonnes of CO₂** per year.
- **Operational in 4 months**, compared to an 18-month grid connection.
- High-capacity **180kW charging**, intelligently managed to meet demand even during peak periods.
- **Highly scalable**, ideal for other UK locations.

Visual:

- **Example E: Site overview showing solar and charging** – full perspective of site layout and integration.



Why It Works

The Bourges View hub demonstrates that **smart microgrids are the future of EV charging**:

- **Faster deployment** than traditional grid systems.
- **High ROI** for businesses, both in cost savings and sustainability.
- **Scalable** to grow with your fleet or public EV demand.
- **Smart energy management** optimises batteries and grid use automatically.

Whether you're a small business adding EV charging for customers or a large enterprise planning fleet electrification, **this blueprint delivers savings, sustainability, and flexibility**.

See how your business can benefit from smart microgrid EV charging. [Book your free consultation today](#) and explore the Bourges View site in action.