



CASE STUDY

Solar Installation at Neville Funerals, Luton

the **greenway**
Solar

OVERVIEW



Neville Funerals, based in Luton, partnered with The Green Way Solar to install a 17.8kW solar photovoltaic (PV) system on their flat roof facility. Situated off a busy roundabout, this location offered an optimal surface for maximising sunlight exposure and energy generation. The Green Way Solar managed the project from initial site analysis through to system activation, ensuring seamless integration of renewable energy into Neville Funerals' operations.

THE CHALLENGE

The project posed several key challenges. Ensuring the flat roof could safely accommodate the additional load of the solar PV system was a primary concern. Additionally, implementing a comprehensive monitoring solution to track system performance and ensure compliance with grid regulations was crucial. The busy location also required careful logistics and safety measures to minimise disruptions to business operations and ensure crew safety during installation.



OUR SOLUTION

To address these challenges, The Green Way Solar took a methodical approach. A thorough structural evaluation was conducted to confirm the roof's load bearing capacity before installing solar panels, string inverters, surge protectors, circuit breakers, disconnect switches, and monitoring meters. This ensured optimised energy generation and system safety. Advanced monitoring equipment was integrated to track energy output, solar irradiation, ambient temperature, and voltage. Performance dashboards with automated reporting were deployed to assess system efficiency, reliability, and return on investment. Real time fault detection and alert notifications facilitated immediate troubleshooting, while compliance with grid regulations was ensured by tracking power quality, voltage fluctuations, and reactive power.

Safety and traffic management were also prioritised. A robust traffic management plan was developed to prevent disruptions in the busy roundabout area. Equipment deliveries were strategically scheduled, safety barriers were set up, and spotters were employed for vehicle guidance. High visibility safety gear was required for all crew members, and strict adherence to safety protocols was maintained throughout the project.

RESULTS

The Neville Funerals' solar PV installation has contributed significantly to the building's overall sustainability performance, including:

Reduced operational carbon emissions:
The building is projected to emit 17% less carbon dioxide compared to good practice benchmarks for existing office spaces.

**Carbon
Emissions**

↓ 17%

Increased renewable energy generation:
By providing up to 15% of the building's energy requirements through solar, the system supports the building's quest to achieve net zero operational carbon emissions.

**Renewable Energy
Consumption**

↑ 15%

Through careful planning and execution, The Green Way Solar successfully completed Neville Funerals' solar PV installation. The system now efficiently generates renewable energy, reducing electricity costs and supporting sustainability initiatives. The advanced metering system provides valuable insights, ensuring regulatory adherence and performance optimisation. Despite site specific challenges, the project was delivered on schedule and within budget with minimal disruption to daily business operations. Neville Funerals expressed high satisfaction with the system's performance and the professional handling of the installation process.

WHY CHOOSE THE GREEN WAY SOLAR?

Our role in the Neville Funerals' project demonstrates our expertise in delivering sustainable, high-quality solar installations that support building owners and developers in meeting their energy and sustainability goals. With a focus on innovative design, efficient installation, and long-term performance, we helped transform Neville Funerals into a model of sustainable commercial real estate.



CONCLUSION

The Neville Funerals' solar PV installation showcases The Green Way Solar's commitment to delivering high quality renewable energy solutions. By addressing structural, logistical, and compliance challenges head on, we provided a sustainable and cost effective energy system tailored to our client's needs. This project reinforces our expertise in executing complex solar installations while ensuring safety, efficiency, and long-term value for our customers.