DHL CAMBRIDGE CASE STUDY

Introduction

In a continued commitment to sustainability, DHL partnered with Evitec at their Cambridge facility to install 23 state-of-the-art Rolec Quantum EV chargers, supported by a robust solar energy system. This solar-powered charging infrastructure enhances DHL's green logistics by reducing carbon emissions and operational costs. With the integration of solar panels and the advanced EV charging solution, the project is a significant step toward DHL's goal of promoting renewable energy and sustainability. This initiative showcases how solar power can effectively support commercial EV infrastructure for a greener future.

Project Overview

The project at DHL Cambridge involved installing 23 EV charging bays with Rolec Quantum chargers and a solar energy system. These chargers were chosen for their advanced features, durability, and capability to charge multiple vehicles simultaneously. The installation was carefully coordinated to ensure minimal disruption to operations at the logistics hub. Alongside the EV chargers, a 100kW solar PV system was installed to power the charging bays and provide clean, renewable energy. This system plays a critical role in supporting DHL's sustainability goals by reducing carbon emissions and operational costs.

Objectives

- Sustainability: Support DHL's sustainability goals by delivering a robust and clean energy solution, including solar-powered EV chargers that reduce carbon emissions and dependency on non-renewable resources.
- Operational Efficiency: Ensure smooth operations by minimising vehicle downtime with fast, reliable charging infrastructure, powered by both solar and grid solutions.
- User Convenience: Provide a user-friendly, fully integrated charging solution with features such as remote monitoring, real-time charging status, and easy payment options, ensuring ease for DHL employees and visitors alike.

Why Rolec QUANTUM Pedestals?

The choice of Rolec Quantum pedestals for DHL Cambridge was driven by their exceptional features and suitability for high-demand commercial settings:

- **Robust and Vandal-Resistant:** Designed to withstand harsh environments, making them ideal for exposed locations at DHL's facility.
- **Flexible Charging Options:** Supports various interfaces, including plug & charge and pay-to-charge via smartphone or RFID, offering convenience and accessibility.
- **High Charging Output:** Capable of delivering significant power to meet the fast-paced needs of a logistics operation.
- **Integrated RFID Readers:** Enhance user accessibility and security, crucial for managing a large fleet.
- **OCPP Compliant:** Ensures compatibility with any chosen back-office management system for integrated monitoring and control.
- **Future-Proof Technology:** Designed to meet future requirements and adapt to evolving EV technologies.

Execution

- **Planning and Assessment**

  Conducted site evaluation to identify ideal locations for both the Rolec Quantum chargers and the solar panel installation. Focused on power access, efficiency, and safety.

- **Installation of Charging Pedestals**

  Strategically integrated 23 Rolec Quantum units and a 100kW solar PV system, ensuring minimal disruption to logistics while maximising energy efficiency.

- **Commissioning and Testing**

  Each charger and the solar system were rigorously tested to ensure performance and connectivity, supporting energy management through the solar-powered infrastructure.

Results

- **Enhanced Charging Experience**

  The solar system provides sustainable energy to both EV chargers and the facility, reducing overall energy costs.

- **Sustainability Impact**

  The combined EV and solar installation aligns with DHL's green initiatives, reducing fossil fuel dependency and enhancing operational sustainability.

- **Aesthetic and Safety Enhancement**

  The clean design of the chargers and solar system improves the facility's visual appeal and operational safety.

Conclusion

The successful completion of the project at DHL Cambridge marks a significant step towards sustainable logistics, powered by Evitec's advanced solutions. With the installation of 23 Rolec Quantum EV chargers and a 100kW solar PV system, DHL now benefits from a future-proof infrastructure that optimises energy use. The project involved meticulous planning, electrical work, line marking, and seamless integration with DHL's operations. This initiative underscores Evitec's commitment to sustainability and innovation, setting a benchmark for renewable energy and electric vehicle infrastructure in logistics.

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