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Solar Energy UK

Case Study
RENOLIT

Summary

- **Location:** Cramlington, Northumberland
- **Capacity:** 1.76 MWp
- **Type:** Rooftop array and carport array
- **Client:** RENOLIT UK LTD
- **Owner:** Zestec Renewable Energy
- **Main EPC contractor:** Seed Renewables Ltd
- **Panel type:** JA Solar
- **Completion date:** 19 December 2025

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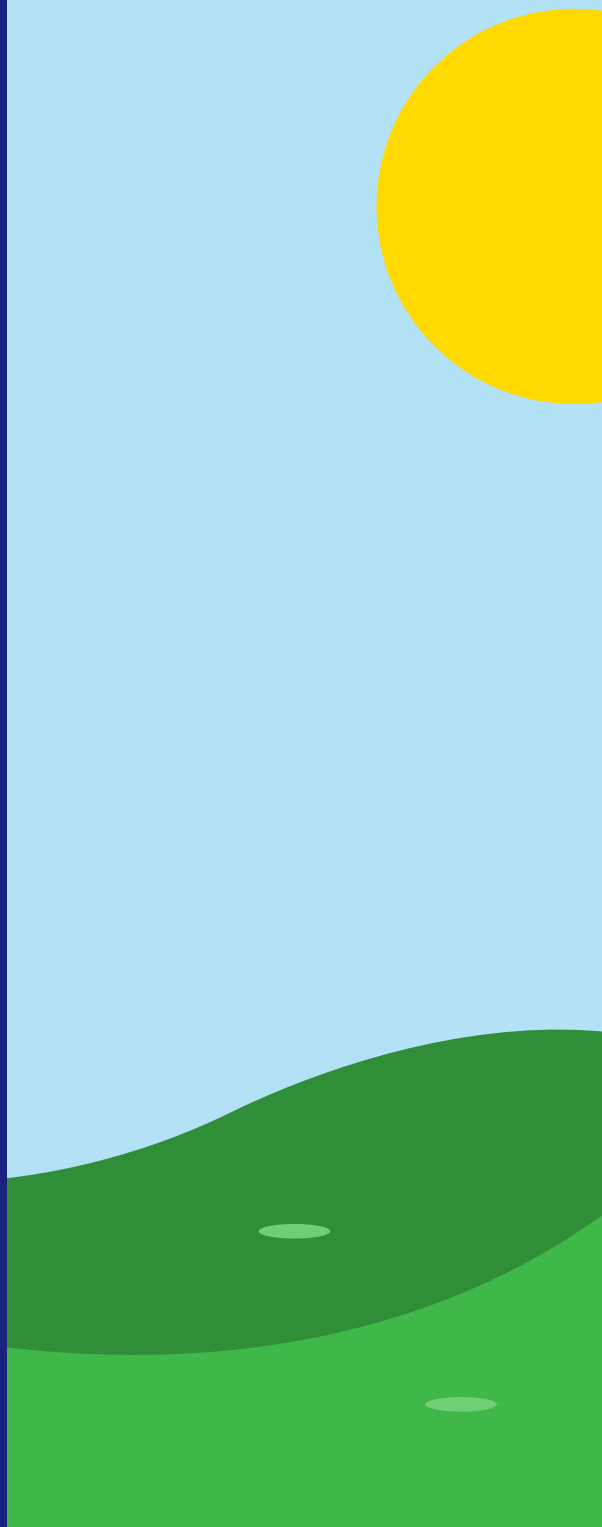
Partnership-based service and the development of innovative, high-quality and reliable products are our top priorities. We offer expert advice and a range of services tailored to customer needs in order to support our business partners in achieving their goals. We take our responsibility towards our customers very seriously, and our products often make the decisive difference.



Overview

Zestec Renewable Energy, in partnership with Seed Renewables, has delivered a fully funded solar photovoltaic (PV) project for global manufacturer RENOLIT UK Ltd at its manufacturing facility in Cramlington, Northumberland.

Delivered through Zestec's Power Purchase Agreement (PPA) model and backed by Octopus Energy Generation, the project enables RENOLIT to reduce reliance on grid electricity, strengthen energy resilience and accelerate progress towards its decarbonisation goals without requiring upfront capital investment.

Seed Renewables was responsible for the design, engineering and delivery of the installation, collaborating closely with both Zestec and RENOLIT to integrate tailored renewable energy solutions and a solar PV system within a fully operational 24/7 manufacturing environment.

Combining a 900 kWp rooftop solar array with an **866 kWp** solar carport installation, the project delivers a total installed capacity of 1.76 MWp. It was delivered through a phased programme aligned with ongoing manufacturing activities, enabling installation within a live production environment and completion ahead of schedule.

Working with carport manufacturer SiG, Seed Renewables deployed the largest-format solar carport system currently available in the UK, maximising renewable energy generation across the available footprint. Integrated EV charging infrastructure also supports RENOLIT's transition to greener transport.

By combining rooftop solar generation, solar carports and EV charging infrastructure, the scheme demonstrates how industrial sites can unlock additional value from existing buildings and parking assets while maintaining uninterrupted operations.

Over the lifetime of the system, the installation will provide RENOLIT with a reliable source of renewable electricity, contributing to its long-term decarbonisation strategy and broader net zero ambitions.

Project Summary

Project Snapshot

- **1.76 MWp** total installed capacity
- **1.47 GWh** projected annual generation
- **331 tonnes** CO_2 reduction (Year 1)
- **97%** forecast on-site PV usage
- **900 kWp** rooftop solar array
- 866 kWp solar carport installation
- Fully funded under a **Power Purchase Agreement (PPA)**
- Delivered ahead of programme

Simon Wilson, Managing Director, RENOLIT UK, said:

"This project allows us to generate a significant proportion of our electricity on-site while supporting RENOLIT's wider sustainability objectives. The funded model enabled us to move forward without diverting capital from core manufacturing operations, while ensuring continuity and resilience at a live production facility."

Simon Booth, CEO of Zestec Renewable Energy, commented:

"Manufacturing sites face increase pressure to decarbonise while protecting operational continuity and capital. This project demonstrates how funded solar can align energy performance with asset priorities, enabling organisations like RENOLIT to take meaningful action without upfront cost or added complexity."

Lee Heath, CEO of Seed Renewables, added:

"Delivering a project of this scale on a live manufacturing site requires detailed planning, close collaboration and a strong focus on safety. Working alongside Zestec and RENOLIT, we designed and delivered an integrated solution that fits seamlessly with day-to-day operations."

Outcomes

Delivered under Zestec's Power Purchase Agreement (PPA) model and backed by a fund managed by Octopus Energy Generation, the project enables RENOLIT to generate clean, on-site electricity without upfront capital investment, supporting long-term sustainability and energy resilience at the site.

Seed Renewables led the design, engineering and delivery of the solar PV system, working closely with Zestec and RENOLIT to integrate the installation within a 24/7 live manufacturing environment.

The project combines a 900 kWp rooftop solar array with an 866 kWp solar carport system installed above staff and visitor parking areas, providing a total installed capacity of 1.76 MWp.

The completed installation provides RENOLIT with a substantial source of on-site renewable electricity, helping to reduce reliance on grid power while advancing the company's sustainability strategy. The system is expected to generate approximately 1.47 GWh of renewable electricity annually, with the majority consumed directly on site. This high level of on-site utilisation maximises the value of the installation while reducing operational carbon emissions from the first year.

Working with carport manufacturer SiG, Seed Renewables deployed the largest-format solar carport system currently available in the UK, maximising renewable generation across the available footprint. EV charging infrastructure was also integrated to support RENOLIT's transition to lower-emission transport.

By combining rooftop solar, solar carports and EV charging infrastructure, the project demonstrates how existing industrial assets can be transformed into productive renewable energy infrastructure while maintaining continuous operations.

Over the lifetime of the system, the installation will provide RENOLIT with a reliable source of renewable electricity, contributing to its long-term decarbonisation strategy and broader net zero ambitions.

Local Benefits

The project contributes to the regional transition towards cleaner energy by increasing the deployment of renewable energy infrastructure in the North East of England. The installation supports the decarbonisation of an energy-intensive manufacturing site while demonstrating the role of on-site renewable generation in advancing industrial sustainability.

Delivery of the project involved collaboration with specialist contractors and supply chain partners, contributing to skilled employment and technical expertise within the region and the wider UK renewable energy sector.

Supporting the long-term sustainability and resilience of a major local manufacturing site also helps underpin regional economic stability, while the use of UK-based contractors and local suppliers contributes to the growth of the local green economy.

Community Benefits

The project contributes to wider community and environmental benefits by supporting the transition to lower-carbon energy and transport. The integration of EV-charging infrastructure enables employees, visitors and supply chain partners to adopt electric vehicles more easily, helping to reduce transport emissions in the local area.

By generating renewable electricity on site, the installation helps reduce demand on the local electricity network during peak daylight hours, supporting overall grid resilience.

In addition, the project serves as a practical example of how energy-intensive industrial sites can successfully deploy large-scale renewable energy solutions, helping to encourage similar decarbonisation initiatives across the region.

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