

## RENOLIT

### Project Overview

RENOLIT is a global, family-owned manufacturer specialising in high-quality plastic films and related products for the automotive, medical, building and industrial sectors. With more than **5,000 employees across over 30 locations worldwide**, the company has been setting standards in quality and innovation for more than **75 years**.

To support its sustainability goals and manage energy demand at its energy-intensive UK site, RENOLIT sought a scalable on-site renewable energy solution.

**Seed Renewables** designed and delivered a large-scale solar PV system (roof and carport arrays) in partnership with **Zestec Renewable Energy** and powered by **Octopus Energy Generation**.

### The Challenge

RENOLIT's Northumberland live manufacturing facility operates 24 hours a day, with continuous production processes driving substantial electricity demand.

Key objectives:

- Maximise **on-site renewable energy generation**
- Reduce **carbon emissions** and support net zero ambitions
- Utilise **existing roof and car park space efficiently**
- Integrate **EV charging infrastructure**
- Installed with **minimal disruption to live manufacturing operations**

Delivering renewable infrastructure within an active industrial environment required careful planning to ensure installation activities could be completed safely and efficiently without impacting ongoing production.

### Project Snapshot

Total Installed Capacity  
**1.76 MWp**

Projected Annual Generation  
**1.47 GWh**

Forecast On-Site Solar Usage  
**97%**

Carbon Reduction (Year One)  
**331 tonnes CO<sub>2</sub>**

System Configuration  
**900 kWp rooftop solar array**  
**866 kWp solar carport installation**



## The Solution

Seed Renewables led the **design, engineering and delivery** of the solar PV system at RENOLIT's Cramlington site. The installation was delivered under a funded Power Purchase Agreement (PPA) structure arranged by funding partner, Zestec Renewable Energy.

The project combines a **900 kWp rooftop solar array** with an **866 kWp solar carport system** installed above the staff and visitor car park, delivering a total installed capacity of **1.76 MWp**.

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 greener transport.

The project was delivered through a phased programme aligned with ongoing manufacturing activities, enabling installation within a live production environment and completion ahead of schedule.



"Seed Renewables delivered a high-quality dual rooftop and carport scheme, completed ahead of programme with excellent control of health and safety. Their clear communication and proactive approach to problem-solving is reflected in the finished installation."

**Russ Kelsall**

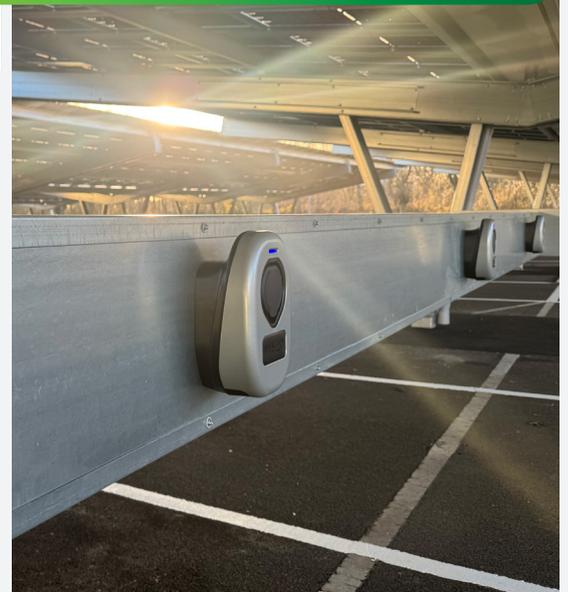
Senior Project Manager, Zestec Asset Management

## The Outcome

The completed installation provides RENOLIT with a substantial source of **on-site renewable electricity**, helping reduce reliance on grid power while supporting the company's sustainability strategy.

Generating **1.47 GWh of renewable electricity annually**, the system enables the majority of power produced to be consumed directly on site, maximising the value of the installation and reducing operational carbon emissions from the first year.

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.



If you are exploring rooftop or carport solar for a live manufacturing, industrial or commercial site, contact Seed Renewables to discuss a solution tailored to your operational requirements.

[seedrenewables.com](https://seedrenewables.com)