



# KINGSPAN PORTADOWN CASE STUDY

**Kingspan Energy installs Northern Ireland's largest rooftop solar PV array in Portadown. The fully-funded system is expected to generate enough electricity to meet 30% of the site's daytime annual energy demand.**

## PROJECT SUMMARY

Kingspan Energy, the leading provider of fully-funded solar energy solutions for commercial and industrial buildings, designed and installed a PV system for Kingspan Environmental, a separate division of Kingspan Group. The site comprises the company's head office and principal manufacturing facility, where it makes solar thermal water heating panels, as well as other environmental products.

The system was installed under a fully-funded model, with Kingspan Environmental bearing no capital cost. In return for this investment, the company will purchase the electricity generated by the PV array at a reduced rate compared with current grid-based prices. Future price rises will be index-linked to limit them to inflation under this arrangement.

The system was installed in conjunction with the replacement of the life-expired roof at the site. A new, highly energy-efficient insulated panel roof was installed on the building to improve its thermal performance, with the rooftop solar PV system mounted on top.



## SYSTEM PERFORMANCE

The 1.3MWp installation is set to generate 1.1GWh of electricity per year, enough to power 258 homes, or meet 30% of the site's daytime annual energy demand. It consists of 4,844 modules in total, covering 18,000m<sup>2</sup> of the building's roof.

*"This installation, the latest in a series of record-breaking projects by our Kingspan Energy team, proves the increasing business appetite for rooftop solar PV generation"* said Gilbert McCarthy, Managing Director of Kingspan Insulated Panels.

*"There has never been a better time for businesses to benefit from renewable generation that makes the most of an otherwise unused asset – their roofs – especially with the removal of the capital cost barrier from the equation."*

Before



Work in progress



## PROJECT CARD

**Building owner:** Kingspan Environmental

**Location:** Portadown, Northern Ireland

**System size:** 1,307.88kWp

**Roof space coverage:** 18,000m<sup>2</sup>

**Project type:** Refurbishment

**Sector:** Industrial / Manufacturing

**Completion date:** December 2014

**Installation time:** 12 weeks

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After

