



KINGSPAN GROUP CASE STUDY

Five Kingspan manufacturing sites have taken a big step towards a greener future by generating clean on-site energy with Roof Mounted PV Systems designed, installed and commissioned by Kingspan Energy.

PROJECT SUMMARY

Since the introduction of Net-Zero Energy initiative in 2011, five Kingspan manufacturing sites have been upgraded with Roof Mounted PV Systems designed, installed and commissioned by Kingspan Energy.

The highly versatile Roof Mounted PV System is suitable for pitched and flat roof applications and can be installed on new build, retrofit, and refurbishment projects. In the case of Kingspan, the PV modules have been retrofitted onto the existing roofs of the buildings. As part of its full turn-key service, Kingspan Energy expert team of PV engineers carried out detailed surveys of the structural strength of each roof, designed, positioned and installed the systems' arrays to ensure maximum performance.

Although the Feed In Tariff would have given Kingspan a payback in five to seven years, it was decided that a funded solution was the best option, allowing the Group to secure their energy costs for the future, as well as benefit from the carbon saving without any capital expenditure.



SYSTEM PERFORMANCE

The results achieved so far are impressive. The Group Head Office in Ireland reached Net Zero during 2012 with a 132 kWp solar power installation. Other sizeable projects at various UK sites include a 406 kWp solar PV array in Holywell, a 799 kWp array in Pembridge, a 250 kWp array in Hull and a 171 kWp array in Basildon. Altogether they generated 1,131,567 kWh of electricity in 2012.

Peter Bullough, Finance Director of Kingspan Insulated Panels division commented:

"The installation of Roof Mounted PV Systems has helped us decrease wasteful consumption of energy, reduce our carbon emissions, and save the business money. We have chosen a funded solution, which allowed the Group to achieve these ambitious targets and increase the assets' value without a major capital expenditure."



PROJECT CARD

Buildings owner: Kingspan Group

Main Contractor: Kingspan Energy

Location: Various in Ireland and the UK

Total Output: 1,131,567 kWh (2012)

Roof space coverage: 12,220 m²

Project type: Refurbishment

Sector: Manufacturing

Completion date: 2011-2012

Installation time: 6 months for the 5 sites



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