

Case Study – RNLI Poole

A 44.1kWp Solar PV array

The RNLI Sea Survival College in Poole had concerns over their carbon footprint and the electricity costs they were incurring within the college. In light of this they contacted us for a quote for a large PV array.

A PV array was ideal as its output complemented the buildings day time usage well and due to the college's high electricity usage much of the generated power would be used on-site.

It is predicted that the systems would output 37.3MWh/annum.

Feed-in tariff

As well as making financial savings due to reduction in electricity import from the national grid, the system also gains income from the generous feed-in tariff rate. These factors in combination made the system an attractive and suitable solution for the RNLI both fiscally and ethically

Following the installation the system was reported in the RNLI publication "The Lifeboat" as producing one megawatt hour within the first three weeks of operation. They estimate a carbon saving of 23 tonnes and an income of £17,000 per year. The system is expected to payback its initial investment would be between six and seven years.



Unit 2, Harbour Road, Seaton, Devon, EX12 4AA.
Telephone: 01297 306114
E-mail: enquiries@chrisrudge.co.uk



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CASE STUDY VITAL STATISTICS

System components

- 180 REC 245Wp solar PV modules
- 3 x Sunny Tri-Power 15000TL inverters
- K2 Mounting system with Kalzip Clamps
 - SMA Sunny Web box
 - Information Centre display

Estimated annual output

PV output based on SAP 2005 figures

37.3MWh/annum

Or 37371kWh/annum