

# CASE STUDY



## Solar PV

### Key Information:

**Existing on site use - 30,000 kWh P/A**  
**Renewable generation - 25,000 kWh**  
**60% reduction in grid supplied electricity**  
**Tonnes of CO2 saved - 13.5t P/A**

### Customer: Halifax Estates

#### Introduction:

Garrowby Estate forms part of the Halifax Estates and is a mixed agricultural and residential estate covering 13,500 acres on the Yorkshire Wolds escarpment. Much of the estate's property maintenance is carried out 'in house' and sustainability is a key watchword in current management policy. The sawmill at the foot of Garrowby Hill processes timber grown on the estate and a team of skilled joiners execute their talents in building replacement doors and windows for estate houses.

#### Challenge:

To provide a year round supply of green electricity for the sawmill.

The site's location at the base of the escarpment was totally unsuitable for wind generation and a weak local grid and aging buildings compounded the issues around renewable electricity generation.

#### Solution:

The only building with sufficient structural stability to support a solar pv array was the joiners shop, fortunately it also housed the site's incoming electricity supply. A 30kWp solar pv array was installed to deliver circa 25,000kWh annually of green, sustainable power. So now not only is the timber for new doors and windows produced on the estate, but so too is the electricity to process it!

#### Clients Comments:

When considering a Solar PV installation Boston Renewables were one of two local companies approached to quote. The advice along with the quotation provided clearly showed that Boston Renewables understand their product and were able to accurately advise on the best design, materials and manufacturers for our situation. From start to finish a professional, timely and trustworthy approach has been maintained by all their staff. We would certainly recommend Boston Renewables services to anyone considering a similar installation.

**Tom Julian. Assistant Agent, Halifax Estates.**

