

# Goodrich C E Primary School: Solar PV



## Key facts

**Location:** Goodrich, Herefordshire UK

**Grant recipient:** Goodrich C E Primary School

**Building:** Single storey classroom building

**Purpose:** Children's education

**Solar PV:** Solar panel electricity systems, also known as photovoltaics (PV), convert the sun's energy to generate electricity. These cells don't need direct sunlight to work – they can still generate some electricity on a cloudy day.



## Renewable energy installation: Solar PV

**Additional capacity:** 11.55 kWp roof mounted system

kWp is the peak power of a PV system or panel. The power is calculated under a standardised test for panels across all manufacturers to ensure that the values listed are capable of comparison.

**Predicted energy generation:** 10,614 kWh

A kilowatt hour (kWh) is the energy consumed by a 1,000-watt or 1-kilowatt electrical appliance operating for 1 hour.

**CO<sub>2</sub> saving per year:** 2.94 tonnes

Based on an emission conversion factor of 0.2773 of a kilogram of carbon dioxide per kilowatt hour.

## Financials

**System Cost:** £9,669

**Funding:** 50% Marches Renewable Energy grant;  
50% Goodrich C E Primary School own funds

**Predicted payback time from energy cost saving:**  
8.8 years, reduced to 4.4 years with the grant

## For further information

Marches Renewable Energy (MarRE) is an ERDF funded grant scheme towards renewable energy projects in Herefordshire, Shropshire and Telford and Wrekin.

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