

Shrewsbury Colleges Group: Solar PV



Key facts

Location: London Road Campus, London Road, Shrewsbury SY6 2PR UK

Grant recipient: Shrewsbury Colleges Group (SCG), formed in August 2016 through the merger of Shrewsbury Sixth Form College and Shrewsbury College. The College is now Shropshire's largest provider of post-16 education, teaching 70% of all 16-18 students in the county.

SCG's long-running drive towards creating a more sustainable college reached a high point the end of 2021 as the installation of 731 solar panels on the roof of the Engineering & Construction Centre was completed. The solar panels will make a significant contribution towards reducing the amount of electricity that the campus draws from the national grid. Even though SCG already buys its electricity on a green energy tariff, it will help to further combat the carbon impact of the college.

Building: Engineering and Construction Centre at the London Road Campus.

<https://www.scg.ac.uk>



Renewable energy installation: Solar PV

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.

Additional capacity: 200 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: 195,130 kWh
A kilowatt hour (kWh) is the energy consumed by a 1,000-watt or 1-kilowatt electrical appliance operating for 1 hour.

CO₂ saving per year: 54.11 tonnes
Based on an emission conversion factor of 0.2773 of a kilogram of carbon dioxide per kilowatt hour.

Financials

System Cost: £161,630.06 including VAT

Funding: 50% Marches Renewable Energy grant;
50% Shrewsbury Colleges Group own funds

Predicted payback time from energy cost saving:
4 years with the 50% 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

www.herefordshire.gov.uk/MarRE