

Case Study Cambridge - Eco House



FUNKY RENEWABLES LTD.

A renewable system designed to blend in with the surroundings

2MS Construction Ltd. a Cambridge based Construction Company and Eco house builder contacted several PV installers looking for a suitable PV solution for their latest Eco project – to incorporate a photovoltaic system with their green living roof (need to expand on type of green roof etc).

The brief was to incorporate a PV system with a green living roof that would both compliment the surroundings while off setting carbon emissions from the property and reduce energy bills. Funky Renewables came up with a 10kWp system using Schletter specialist green roofing mounting system. This incorporated using layered felt and high wearing PV resistant plastic as a base frame. Paving stones was used as ballast with additional volcanic

rock on top. Soil and plants were then added to the volcanic rocks.

The Eco house will also incorporate an air source heat pump, solar thermal. The PV system helped the building to achieve an 'A' rating EPC.

The key component to the installation was the mounting system. The SolRack is hard wearing plastic plate made of recycled material, UV-resistant and non-ageing and very good drainage effect on vegetated roofs. Using this with the vegetated mounting system gave a clearance of 400mm above the surface – plenty of room for the plants to grow without causing any shading issues on the PV panels.



Project details

Client

2MS Construction Ltd.

Cost

£ 17,850 (incl. VAT)

Annual income from

Feed-in tariff	£ 1,159.65
Exported electricity	£ 231.93
Electrical savings	£ 446.68
In total	£ 1,838.26

Payback in years

8 - 9

Annual Output

8,590 kWh

Install Lifespan

35 - 40 Years

Carbon savings

3.7 t per year

Key kit

Panels

Jetison Solar 250W

Mounting

Schletter SolRack with vegetated mounting system

Invertors

SMA Tripower 9000TL

Contact Us



General Enquiries

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