



*Planning Application
Supporting Information*

GO SOLAR WITH **EVOENERGY**

PROVIDING CLEAN ENERGY WITH

EFFICIENT SOLAR POWER SYSTEMS

DESIGN AND ACCESS STATEMENT

DESIGN AND ACCESS STATEMENT

Thursday, 15 December 2011
Page 2 of 4



Evo Energy Ltd
27 Eldon Business Park
Eldon Road
Nottingham
NG9 6DZ

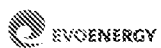
T: 08448 150 200
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E: info@evoenergy.co.uk
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Our Ref: PV 45-00359

Dear Sir/ Madam,

I am supplying this Design and Access Statement as supporting information with regards to the proposed installation of solar panels at the following address:

**Flat 1 Strange Garden House
Strange Garden Estate
Bognor Regis
P021 4AL**



27 ELDON BUSINESS PARK, ELDON ROAD, NOTTINGHAM, NG9 6DZ

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Page 3 of 4

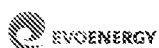


1. USE

- 1.1. The proposal set out within this planning application is to install solar photovoltaic panels on the roof of the property.
- 1.2. The current use of the site is as a dwelling. This current use will not be affected or changed by the proposal.
- 1.3. The proposed installation of solar photovoltaic panels may be completely removed after 25 years, when the solar panels have reached their life expectancy and beneficial use. The site and surroundings will be returned to its original state, without leaving any traces of the installation having ever been there.
- 1.4. Solar photovoltaic panels are proven to be a beneficial source of renewable energy, as it is accredited with the Microgeneration Certificate Scheme. The introduction of greener methods of generating energy to British homes and businesses is encouraged by the government through the Feed-in-Tariff. This solar installation will therefore contribute towards the government incentive scheme of reducing the carbon footprint of the building and the surrounding area. It also helps to contribute towards achieving the EU 20:20:20 goal of delivering 20% of renewable energy by the year 2020, and in addition the targets set in the 2008 Climate Change Act.
- 1.5. Allowing for all system losses, the proposed installation is expected to generate an estimated 2,465 kWh per year. The equivalent energy generated from conventional fossil fuel sources would give rise to the emission of 1,304 kg CO²/year based on 0.586 kgCO²/kWh.

2. DESIGN

- 2.1. The proposed installation will comprise of 12 Sanyo HIT-H250EO1 solar photovoltaic panels, which are arranged in two portrait rows of six panels.
- 2.2. The high performance photovoltaic solar panels used within the system are made from black mono-crystalline silicon, with an anodised aluminum frame. As a renewable energy source, this material will make a positive environmental contribution. All efforts have been made during manufacture to minimise the environmental impact of the product.
- 2.3. The solar panels are designed to be self-cleaning when it rains, therefore, there is little maintenance involved.
- 2.4. The solar panels are 1610mm x 861mm x 35mm and weigh 16.5kg.
- 2.5. The solar panels will have 20mm spacing between them. This allows space for the fixing clamps, to conform to Sanyo's fixing warranty obligations, and also allows natural ventilation around the panels.
- 2.6. The overall dimensions of each array will be 5266mm x 1610mm. The array will be positioned no less than 500mm away from the eaves and ridge.
- 2.7. The solar panels will be fixed to the roof by clamping them to aluminium rail (two aluminium rails per solar panel). The weight of the aluminium rail is 1.01 kg/m. The aluminium mounting rail will be attached to aluminium 'A' frames which will be fixed at certain points into the existing rafters,



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Thursday, 15 December 2011

Page 4 of 4

which would remain in-situ and additional lead flashing will be used to ensure water integrity is maintained.

- 2.8. The electrical output from the solar panels would be led under the eaves using a suitably sized DC cable, which will then be connected to an inverter, located within the house, together with suitably sized DC and AC isolators, before being connected to the existing electrical consumer unit.

3. ACCESS

- 3.1. There will be no alterations made to any existing public or private highways.
- 3.2. No new public or private highways are being proposed.
- 3.3. There will be no heavy vehicular movements in and around the site area, when the solar panels are being installed, therefore, minimising risks of damaging the site and surrounding area.
- 3.4. The proposed solar array will be seen from strange garden which will promote green energy in the area.
- 3.5. The solar panels can be accessed at any time with the use of scaffolding.

If you should require any further information or have any questions regarding this application, please do not hesitate to contact me.

Yours sincerely,



Callum O'Sullivan BA(Hons) Arch
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Commercial Planning Team



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