

Planning Application Design and Access Statement

Installation of Roof Mounted Solar PV

Client:

ThermoFisher Scientific
Langhurst Wood Rd
Horsham
RH12 4QD

Agent:

EvoEnergy Ltd
27 Eldon Business Park
Eldon Road
Nottingham
NG9 6DZ

Site:

ThermoFisher Scientific
Langhurst Wood Rd
Horsham
RH12 4QD

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27 Eldon Business Park, Nottingham, NG9 6DZ



HV/LV



SOLAR



BATTERY



EV



O&M

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Our Ref: 123-2041

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:

**Thermofisher Scientific
Langhurst Wood Rd
Horsham
RH12 4QD**



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 science and clinical research company. 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 UK's targets that it is legally committed to achieving net-zero greenhouse gas emissions by 2050, meaning a 100% reduction compared to 1990 levels. This target is enshrined in the Climate Change Act. Interim targets include a 68% reduction by 2030 and an 89% reduction by 2040.
- 1.5. Allowing for all system losses, the proposed installation is expected to generate an estimated 890732 kWh per year. The equivalent energy generated from conventional fossil fuel sources would give rise to the emission of 249735 kg CO₂/year based on 0.28037 kgCO₂/kWh.
- 1.6. Parking Provisions will not be altered from the current arranged
- 1.7. There will be no change the current landscaping.

2. DESIGN

- 2.1. The proposed installation will comprise of 2005 x Trina Solar 450Wp solar photovoltaic panels for rooftop.
- 2.2. The high performance photovoltaic solar panels used within the system are made from dark blue/black monocrystalline 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 for rooftop are 1762mm x 1134mm x 30mm and weigh 21kg.
- 2.5. The overall active area of the array will be 4006.2 m². The array will be positioned no less than 1000mm away from the eaves and ridge.

- 2.6. The height of the entire array will not protrude from the roof by more than 200mm.
- 2.7. The solar panels will be mounted to the roof by use of an aluminium rail mounting system.
- 2.8. The electrical output from the solar panels will be cabled using a suitably sized DC cable, which will then be connected to an inverter together with suitably sized DC and AC isolators, before being connected to the existing electrical panel board.

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 minimal 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. This will consist of scissor lifts and tele-handlers.

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

Yours sincerely,

Abdullah Zameer Msc BEng MIET
Junior Design Engineer