

Planning Application Design and Access Statement

Installation of Roof Mounted Solar PV

Client:

Big Yellow Group PLC
2 The Deans
Bridge Road
Bagshot
GU19 5AT

Agent:

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

Site:

Big Yellow Self Storage Reading
27 Rose Kiln Ln,
Reading
RG2 0JZ

evoenergy.co.uk

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27 Eldon Business Park, Nottingham, NG9 6DZ



HV/LV



SOLAR



BATTERY



EV



O&M

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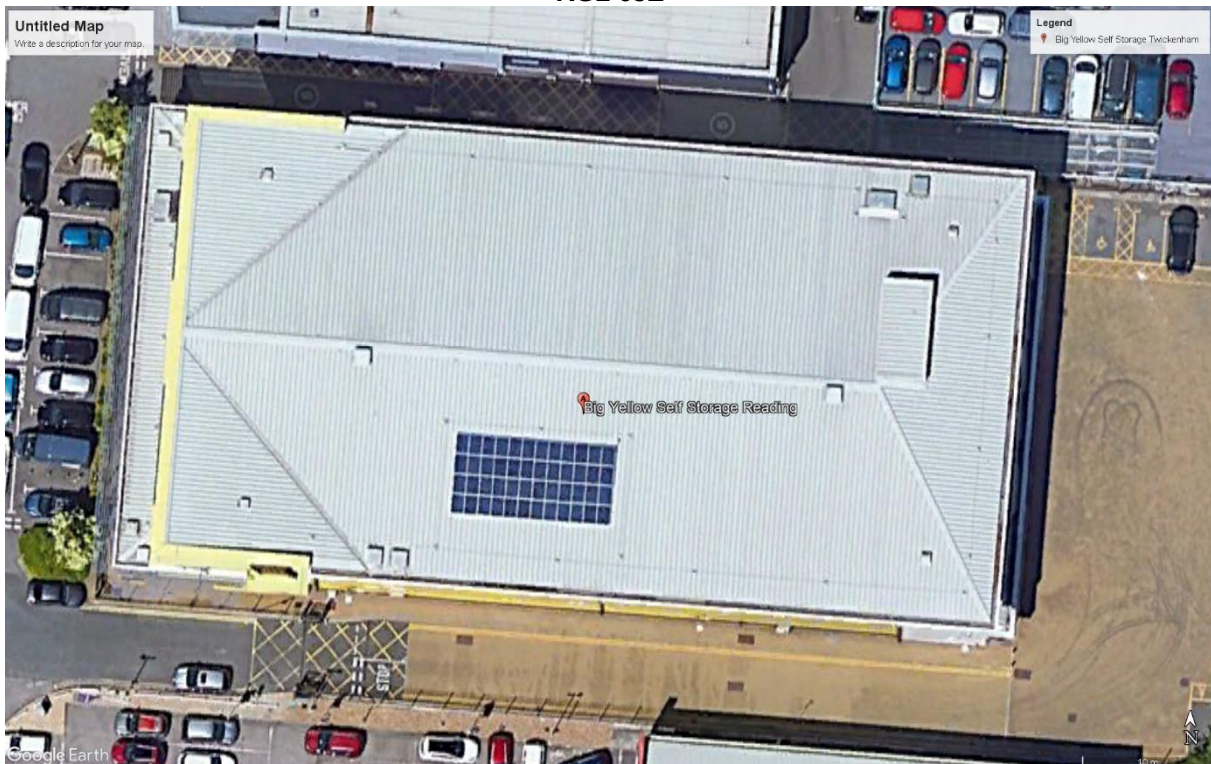
W: www.evoenergy.co.uk

Our Ref: 90-00932

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:

Big Yellow Self Storage Reading
27 Rose Kiln Ln,
Reading
RG2 0JZ



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 self-storage building. 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 137632 kWh per year. The equivalent energy generated from conventional fossil fuel sources would give rise to the emission of 38587.8 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 374 x REC 460 Alpha RX solar photovoltaic panels.
- 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 are 1728mm x 1205mm x 30mm and weigh 23.4kg.
- 2.5. The overall active area of the array will be 778.74 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,

Nadja Oun MArch
Design Planner