

Design and Access Statement – Village Hall
24/01/2012



Design and Access Statement

DAS Solar
2 Hamilton Place
Hamilton Way
Mansfield
Notts
NG18 5FA

24th January 2012

Date: 25/01/2012
Ref: 03-00002

Dear Sir/ Madam,

I am supplying supporting information to Barnsley Metropolitan Borough Council Planning Department in relation to a roof mounted solar panel installation for a commercial building.

My client's name and address is:

Sandra De-Donno
Village Hall
Darton Road
Mapplewell
Barnsley
S75 6AL





1. Use

- 1.1 The proposal is to install on site micro generation in the form of a Photovoltaic system.
- 1.2 The sites current use is as a Commercial building for warehousing and manufacturing. The current primary use of the building will not be affected by the proposals.
- 1.3 The proposal will not impact on the access needs of users of the building as it is situated on the building's roof.

2. Amount

- 2.1 The proposal is for the installation of 132 Topray 250Wp P.V. Solar Panels. The overall system size will therefore be 33.0kWp.
- 2.2 PV is a modular system and can therefore be adapted to suit the size of the building. The number of panels accommodated is to be maximized for optimal energy generation and efficiency. Smaller systems are proportionally more expensive and this would make the investment less viable for the client.
- 2.3 The amount and layout of panels involved in the proposal has been designed in order to provide the most aesthetically pleasing solution for the roof space.

3. Layout

- 3.1 The system will be installed on top of the existing roof, fixed to the building's roof structure.
- 3.2 As a technology PV is unobtrusive sitting as close to the roof as possible and is silent in operation. The proposed location is along Darton Lane, the installation will be partially visible along Darton Lane and Towngate. The installation will have no impact on lighting or shadowing to neighbours.
- 3.3 The proposed arrays sit in the most southward facing direction whilst ensuring the maximal optimisation of the roof space available in order to maximise energy generation. The array is visible from the highway and as such may promote sustainable energy sources to the local community.
- 3.4 The proposed installation will be visible from the highway.

4. Scale

- 4.1 As mentioned above the scale of the proposal relates to the available south facing roof space and the economic viability of the proposal in relation to the number of panels.



4.2 The proposals will have minimal effect on the overall massing of the building.

4.3 The individual panels themselves measure 1650mm x 992mm x 50mm, are spaced with a 20mm gap. The panels will be fitted as close to the roof as possible (within 200mm) and situated below the ridge line.

5. Landscaping

5.1 The panels will be sloped at the angle of the roof to allow for some self-cleaning due to rainwater.

5.2 The high-performance photovoltaic modules used in the system are made of dark blue monocrystalline silicon, with an anodised aluminium 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.

5.3 The panels are arranged in a uniform fashion horizontal to the buildings eaves.

5.4 The PV system has no effect upon accessibility and therefore does not impede on the needs of the disabled or elderly.

5.5 The installation is not within the environment agency's flood risk area.

6. Appearance

6.1 The appearance of the system has been dictated by the scale of the roof and fixing systems available to attach the panels to the roof.

6.2 The proposal is intended to reduce the visual impact of the array by sitting the panels as close to the roof as possible. The installation also works hard to reduce the less aesthetic elements of the system. As such the rails and fixings used are largely hidden from view.

6.3 The location is a commercial setting. The array is just visible from the adjacent highway. The PV array would be unobtrusive and silent in operation.

Please call or email me to discuss or if you have any questions that you think will help us smooth our passage through the planning process.

Yours sincerely,

Dan Janes BArch(Hons) DipArch
Solar Design Consultant