Design and Access Statement

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

15th May 2012

Date: 15/05/2012
Ref: 03-00008

Dear Sir/ Madam,

I am supplying supporting information to Barnsley Metropolitan District Council Planning Department in relation to a ground mounted solar panel installation.

My client's name and the address in relation to the application is:

Mr & Mrs Fox
Hunshelf Hall
Greenwood
Sheffield
S35 7DQ



Design and Access Statement – Mr Fox
15/05/2012

1. Use

1.1 The proposal is to install on site micro generation in the form of a Photovoltaic system. The electricity generated will be used to power the farmhouse and farm office, for milking cows, cooling milk, drying corn and heating water for cleaning of dairy and milking equipment.

1.2 The sites current use is as agricultural land used for farming purposes. The current primary use of the site will not be affected by the proposals.

1.3 The proposal will not impact on the access needs of users of the site.

2. Amount

2.1 The proposal is for the installation of 200 Topray 250Wp P.V. Solar Panels. The total system size will therefore be 50.0kWp.

2.2 PV is a modular system and can therefore be adapted to suit the size of the system. The number of panels accommodated is to be maximized for optimal energy generation and efficiency. The system is sized to meet the energy requirements of the client. 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 site.

2.4 The installation is intended to reduce the farms carbon footprint and has been proposed in response to government guidance.

3. Layout

3.1 The system will be installed on a ground mounted 'Mage' fixing system.

3.2 As a technology PV is unobtrusive sitting as close to the ground as possible and is silent in operation. The proposed location is along Hunshelf Hall Lane.

3.3 The proposed array sits facing southward whilst the panels are tilted at 30 degrees to maximise energy generation. The array is visible from the public highway along Hunshelf Hall Lane and Don Hill Height.

3.4 The proposed installation will be visible from the highway and as such may promote sustainable energy sources to the local community.

4. Scale

4.1 As mentioned above the scale of the proposal relates to the clients energy requirements 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 site.

4.3 The individual panels themselves measure 1650mm x 992mm x 50mm, are spaced with a 20mm gap. The panels are tilted at 30 degrees.

5. Landscaping

5.1 The panels will be sloped at 30 degrees to allow for optimum energy generation and 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 ground.

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 clients energy requirements 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 ground 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 an agricultural setting. The array is visible from the adjacent highway. The PV array would be unobtrusive.

7. Listed Building

7.1 The proposal is on land near the grade II listed building Hunshelf Hall. The listed

building is approximately 100 yards from the installation.

7.2 The installation does not involved any alteration or demolition to the listed building.

Please feel free to call or email me to discuss the application 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