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15/07/2010

Design and Access Statement

In support of the proposition to install the following:

Solar Photovoltaic installation of 16 x 250W modules output 4kWp

At:

15 Andrew Close
Stoke Golding
Nuneaton
Warwickshire
CV13 6EL

For:

Mr B Panther

This Design and Access Statement relates to a proposal for the installation of an array of 16 no. solar photovoltaic (PV) as indicated in the introduction.

The Property

This property is a detached 2-story cavity wall built domestic dwelling with a North / South facing gabled roof of concrete tiles. The property is situated in a close at the end of a dead end section. At the North West end of Andrews Close

The proposed array

The proposed system will comprise of 16 x 250W modules combined to give a total output of 4kWp (*detailed output figures page 3*) Photovoltaic needs to be positioned in a southerly direction, in this case that will mean mounting the modules on the front roof pitch of the property (South facing elevation) as the only suitable location.
In order to reduce the visual impact we propose to mounting the system on a frame finished with end caps and quadrant, we think this will enhance the aesthetics as much as possible, it will allow us to mount the modules in 4 rows of 4 in landscape orientation giving a total area of 6.6m x 4.12m. Frame mounting gives a low profile of approx 150mm; all cabling will run internally and have no visual effect on the exterior of the property.

Example of the mounting proposed



Figure 1 details of finish



Figure 3 Small array of 7 modules blended in



Figure 2 Finished edging

Local planning restrictions

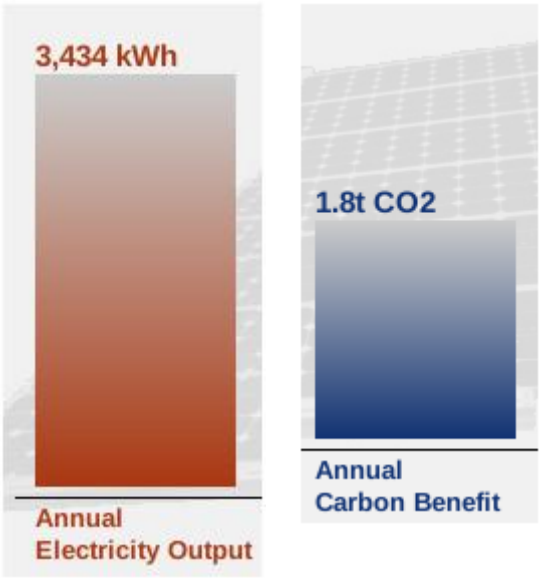
On submission of a pre planning request the local planning authority have requested a full planning permission submission due to the property being part of an area designated as a conservation area since June 2004. This removes the instance of permitted development. However, there is a drive toward the need for sustainable energy and on site generation. While visible from the road this array will have a low impact on the area due to the nature of the Close only being accessible to residents and their visitors as there is no through route. Yet yields of renewable energy will be significant while lowering CO^2 emissions (*see details below*)

Installation practicalities

In order to maintain the quality of the installation we use laser levellers to get the modules in just the right position and then take time to get cable through the building with the minimum of disruption. We would need to erect scaffold to the roof to ensure we maintain a strict health and safety assurance this would be in place for a maximum of 5 working days however we anticipate that the work will take only 3, scaffold would be to the front of the building only with safety rails to the sides as required. Only 1 vehicle would attend the site and be parked considerately during normal working hours, we would not work on the property before 09:00 am and while we would use small power tools there should be very little noise pollution for the duration. No heavy plant or machinery will be used.
All waste material is removed from site and where possible re-cycled

The benefits of the system

By installing this system the follows benefits would apply



Conclusion

We believe that we have taken all reasonable precautions to minimise the impact on the area, using a frame mounting will lessen the visual disturbance, we are limited to the only pitch on the roof available for PV to function and will take all the necessary steps to minimise disruption during installation