

# »» GSM Ltd

**HEATING > COOLING > RENEWABLE ENERGY**

Old Station Road, Newent, Gloucestershire, GL18 1BB  
Telephone 01531-828782 [www.gsmlimited.com](http://www.gsmlimited.com)

Mr N Duberley  
"Rose Cottage"  
Ross on Wye  
Herefordshire  
HR9 5RD

Tuesday 27<sup>th</sup> May 2014

Dear Mr Duberley,

**Quotation for Solar Photovoltaic panels at Rose Cottage: Quotation Reference: PV3812/2**

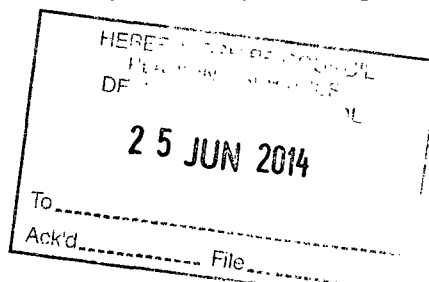
Solar Photovoltaic Panels

Proposal: 3.27 kWp system – 327W BenQ Solar Panels

We would propose to install 10 off 327w BenQ panels in a single string formation along the south facing roof pitch of your property arranged in a landscape formation as per the attached drawing. The inverter will be mounted in your airing cupboard near the kitchen and then wired through your existing electrical distribution board. The generation meter will be located next to your existing electrical DB board.

Due to there being partial shading in this design during early morning hours we have proposed to install the Solar Edge inverter along with the associated individual power optimisers. This system will prove an effective way of maximising the yield when certain panels are blinded due to shading. The inverter also allows a greater level of system interrogation, by allowing you to monitor individual panel performance.

The BenQ Panels offer a high power output making them ideal for applications where space is limited. These panels achieve high efficiency's and provide a uniform array every time. These panels will work perfectly with the Solar Edge inverters low DC start up voltage to maximise power output during cloudy days



**Summary of equipment schedule and performance:**





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- 10 off 327W BenQ High Powered Panels(20.1 % Efficiency)
- Fischer Fixing High Density Solar Rail complete with finishing caps
- 1 off Solar Edge inverter (98.1 % Efficiency ) 12 year warranty
- 10 off Solar Edge DC power Optimizers
- 1 off EPC certificate
- 2 off DC Isolators
- 1 off AC Isolator
- 1 off Generation Meter

|                                    |                       |
|------------------------------------|-----------------------|
| <b>Total annual energy yield :</b> | <b>2920 kWh/annum</b> |
|------------------------------------|-----------------------|

Please see system performance sheet for more financial information.

**MCS Note:**

The performance of solar PV systems is impossible to predict with certainty due to the variability in the amount of solar in the amount of solar radiation (sunlight) from location to location and from year to year. This estimate is based upon the Government's standard assessment procedure for energy rating of buildings (SAP) and is given as guidance only. It should not be considered as a guarantee of performance.

The above works would be expected to take one week from start to completion and handover, and we would require access to the property for the duration of the installation. The installation would be carried out by employees of GSM Limited.

