Entering Solar PV in DEAP

The following procedure can be used to enter Solar PV in the DEAP software. This example uses a house with a floor space of 200m² with a South-west facing roof and a pitch of 45° and no shading.

Using the Part L calculator on our website (click here), select the house size, and drop-down options for roof pitch and orientation.

In our example, this gives a figure of 995 Watts as the minimum panel size required to meet the renewable energy obligations of part L. So you would use 4 no. 250w or 260w panels.

Calculating Power Produced for DEAP

You now need to select an array of panels and enter this data in DEAP to see if CPC and EPC targets are met. In this example, we will choose four Risen 250W poly panels to make up a 1,000W array.

Use the Power Production Estimator on our website (click here) to calculate the amount of power this system will provide.

Enter the size of panel and quantity you plan to use – in this case we enter 4 X 250W panels. Select also again the roof pitch and orientation from the dropdown menus

This shows that according to how energy is calculated using the DEAP methodology, the system should produce 804KwHrs per year.

At ConstructionPV, we can use more accurate assessment software to provide a better simulation based on the location, but this is not permitted for the purposes of DEAP.
Entering Results in DEAP Software

In the DEAP software, click on the Energy requirements button and select the fuel data tab.

On the lower section for renewable energy, enter the power produced under Part L contribution, and Delivered Energy (in this case, 804KwHrs. Fill in the figures for Primary Energy Conversion Factor and CO₂ Emission Factor. Currently these are 2.19 and 0.473 respectively. You can get the latest version by clicking HERE.

Now click on the results button and see if CPC and EPC compliance have been met. If not, other energy or carbon reductions are required. If the results are close, you may find that one or two extra solar panels are the easiest way to achieve CPC / EPC compliance. Otherwise, other measures may be required to meet CPC and EPC. In the example shown here, one additional panel will get this house over the line for CPC.