Easy PV

Solar design made simple

Neil Munroe

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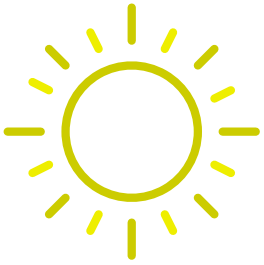
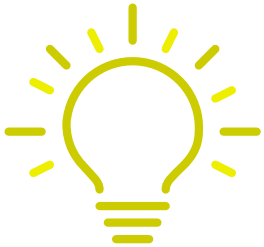
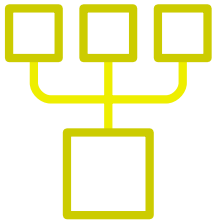
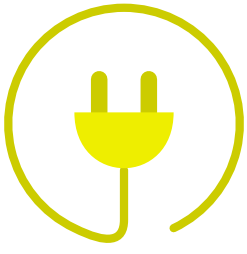
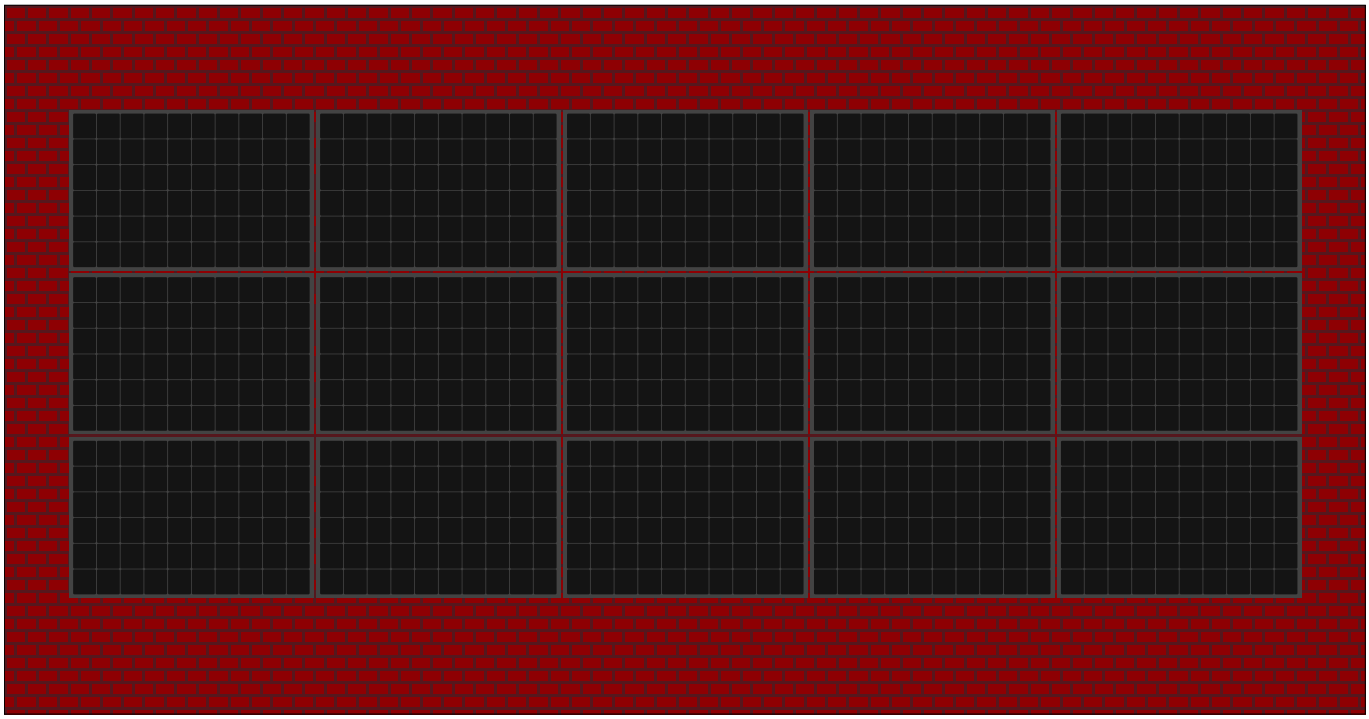
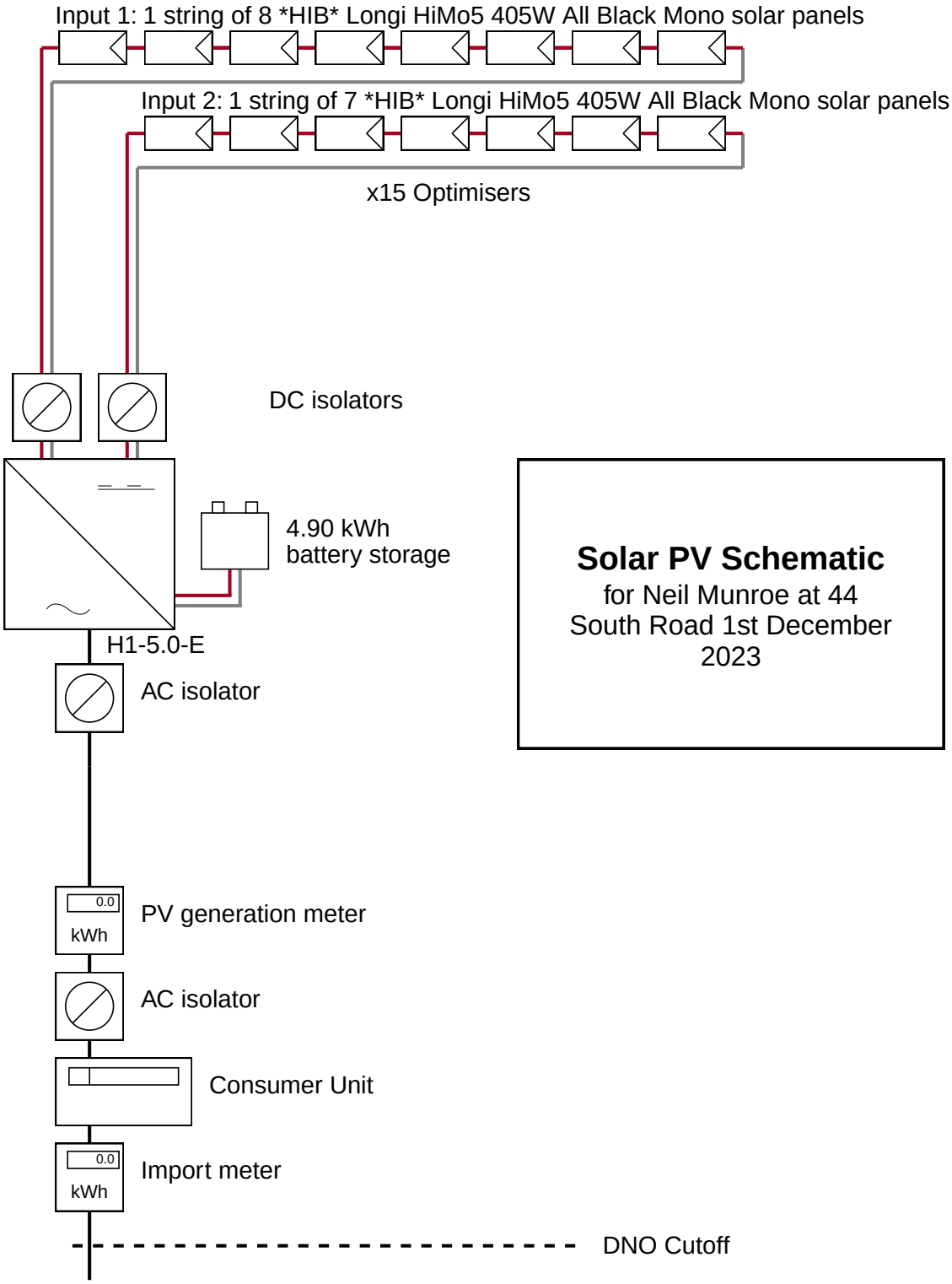





Roof Layout

Roof 1



Schematic diagram



Performance Estimate

Site details

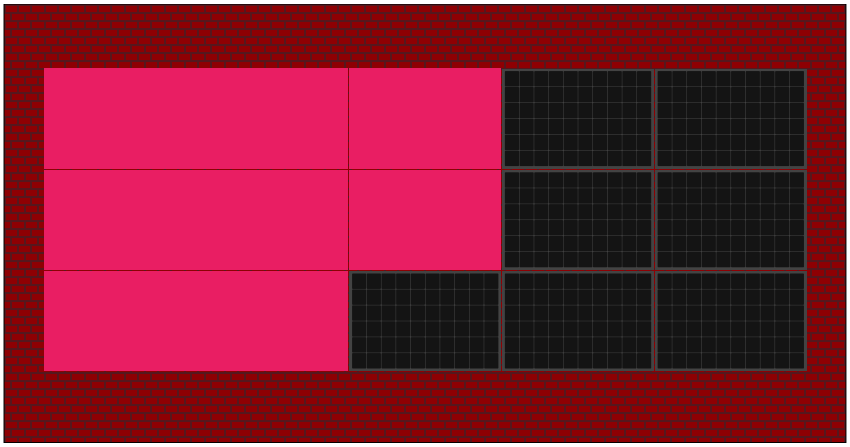
Client	Neil Munroe
Address	44 South Road

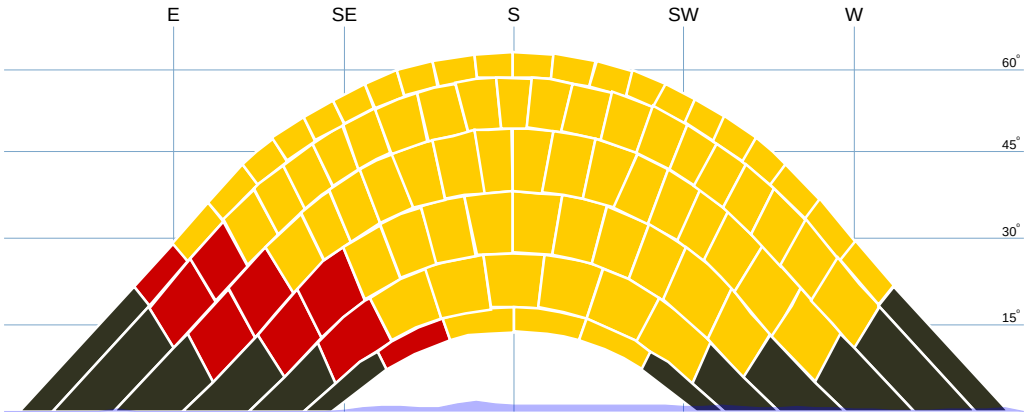
The sunpath diagram shows the arcs of the sky that the sun passes through at different times of the day and year as yellow blocks. The shaded area indicates the horizon as seen from the location of the solar array. Where objects on the horizon are within 10m of the array, an added semi-circle is drawn to represent the increased shading. Blocks of the sky that are shaded by objects on the horizon are coloured red, and a shading factor is calculated from the number of red blocks. The performance of the solar array is calculated by multiplying the size of the array (kWp) by the shading factor (sf) and a site correction factor (kk), taken from tables which take account of the geographical location, orientation and inclination of the array.

Inverter 1

H1-5.0-E

Input 1

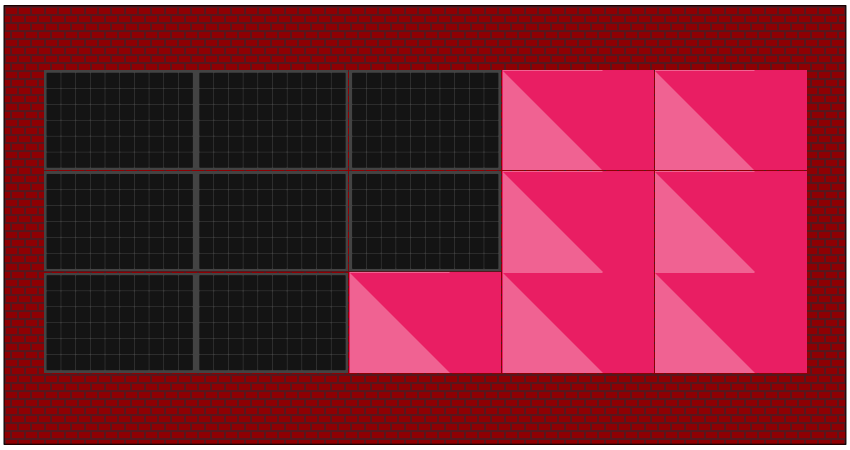


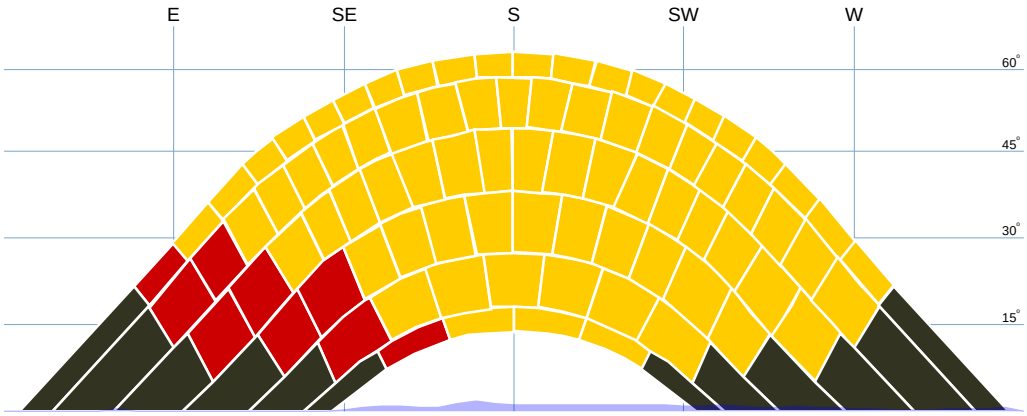


A. Installation data		
Installed capacity of PV system - kWp (stc)	**3.240**	kWp
Orientation of the PV system - degrees from South	**-47**	°
Inclination of system - degrees from horizontal	**30**	°
Postcode region	**1**	

B. Performance calculations		
kWh/kWp (Kk)	**925**	kWh/kWp
Shade factor (SF)	**0.91**	
Estimated output (kWp x Kk x SF)	**2727**	kWh

Input 2





A. Installation data		
Installed capacity of PV system - kWp (stc)	**2.835**	kWp
Orientation of the PV system - degrees from South	**-47**	°
Inclination of system - degrees from horizontal	**30**	°
Postcode region	**1**	

B. Performance calculations		
kWh/kWp (Kk)	**925**	kWh/kWp
Shade factor (SF)	**0.91**	
Estimated output (kWp x Kk x SF)	**2386**	kWh

Performance Summary

A. Installation data		
Installed capacity of PV system - kWp (stc)	**6.075**	kWp
Orientation of the PV system - degrees from South	**See individual inputs**	
Inclination of system - degrees from horizontal	**See individual inputs**	
Postcode region	**1**	
B. Performance calculations		
kWh/kWp (Kk)	**See individual inputs**	
Shade factor (SF)	**See individual inputs**	
Estimated output (kWp x Kk x SF)	**5113**	kWh

Important Note: The performance of solar PV systems is impossible to predict with certainty due to the variability in the amount of solar radiation (sunlight) from location to location and from year to year. This estimate is based upon the standard MCS procedure is given as guidence only for the first year of generation. It should not be considered as a guarantee of performance.

Shading will be present on your system that will reduce its output to the factor stated. This factor was calculated using the MCS shading methodology and we believe that this will yield results within 10% of the actual energy estimate stated for most systems.