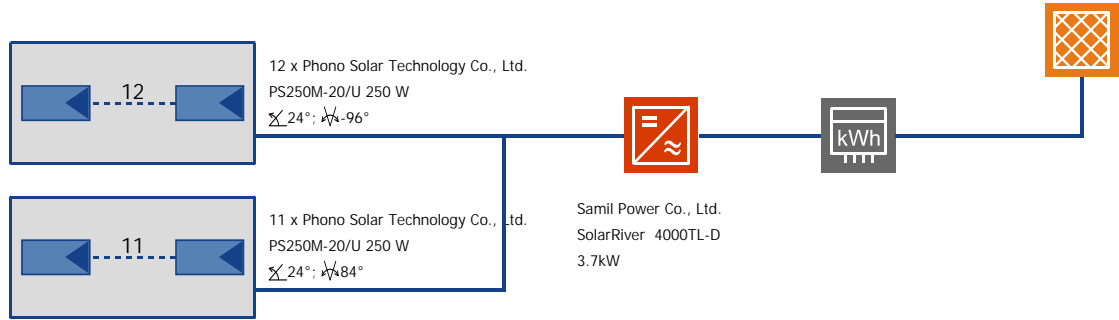


Project Name: 5.75kW east/west system 22/02/2014
 Variant Reference:
 Designer: Stuart Reid



Location: Clayton le Woods, Chorley
 Climate Data Record: Preston (1981-2000)
 PV Output: 5.75 kWp
 Gross/Active PV Surface Area: 37.42 / 37.41 m²

PV Array Irradiation: 34,827 kWh
 Energy Produced by PV Array (AC): 4,627.0 kWh
 Grid Feed-in: 4,627.0 kWh

System Efficiency: 13.3 %
 Performance Ratio: 86.3 %
 Inverter Efficiency: 94.7 %
 Specific Annual Yield: 803.2 kWh/kWp
 CO2 Emissions Avoided: 4,092 kg/a

The results are determined by a mathematical model calculation. The actual yields of the photovoltaic system can deviate from these values due to fluctuations in the weather, the efficiency of modules and inverters, and other factors. The System Diagram above does not represent and cannot replace a full technical drawing of the solar system..

Simulation Results for Total System:

Irradiation onto Horizontal:	36,245 kWh	Own Use:	8.4 kWh
PV Array Irradiation:	34,827 kWh	Energy Produced by PV Array:	4,875 kWh
Irradiation minus Reflection:	33,510 kWh	System Efficiency:	13.3 %
Energy from Inverter (AC):	4,627 kWh	Performance Ratio:	86.3 %
Consumption Requirement:	0 kWh	Final Yield:	2.2 h/d
Energy from Grid:	8 kWh	Specific Annual Yield:	803 kWh/kWp
Inverter Efficiency:	94.7 %		

Array Results: Rear roof

Irradiation onto Horizontal:	18,911 kWh	System Efficiency:	13.3 %
Array Irradiation:	17,955 kWh	Performance Ratio:	86.6 %
Energy Produced (AC):	2,390 kWh	Specific Annual Yield:	797 kWh/kWp
Energy Produced (DC):	2,516 kWh	Array Efficiency:	14.0 %

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Project Name:	5.75kW east/west system	22/02/2014
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Array Results: Front roof

Irradiation onto Horizontal:	17,332 kWh	System Efficiency:	13.3 %
Array Irradiation:	16,872 kWh	Performance Ratio:	86.3 %
Energy Produced (AC):	2,237 kWh	Specific Annual Yield:	813 kWh/kWp
Energy Produced (DC):	2,359 kWh	Array Efficiency:	14.0 %

