

Solar PV Cost and Payback Analysis - SAP/2012

, 20 The Grove, South Wales, SA12 6AL

Year	System Efficiency	Expected System Yield (kWh)	FIT Rate (p)	Total Generation Income	50% Energy Exported (kWh)	Export Rate (p)	Export Earnings	50% Energy Used On Site (kWh)	Electricity Cost (p/kWh)	Consumed Electricity Savings	Income and Savings	Maintenance Cost	Loan Interest	Effective Income	Cumulative Benefit	Year
1	100%	3,796	14.38	£546	1,898	4.77	£90.53	1,898	15.3	£289.45	£926	£0	£0	£926	£926	1
2	100%	3,796	14.88	£565	1,898	4.94	£93.76	1,898	16.8	£318.10	£977	£0	£0	£977	£1,903	2
3	99%	3,763	15.40	£580	1,882	5.11	£96.17	1,882	18.4	£346.56	£1,022	£0	£0	£1,022	£2,925	3
4	98%	3,730	15.94	£595	1,865	5.29	£98.66	1,865	20.2	£377.53	£1,071	£0	£0	£1,071	£3,996	4
5	97%	3,697	16.50	£610	1,849	5.47	£101.14	1,849	22.2	£411.24	£1,122	£0	£0	£1,122	£5,118	5
6	97%	3,664	17.08	£626	1,832	5.67	£103.87	1,832	24.4	£447.93	£1,178	£0	£0	£1,178	£6,296	6
7	96%	3,631	17.68	£642	1,816	5.86	£106.42	1,816	26.9	£487.85	£1,236	£0	£0	£1,236	£7,532	7
8	95%	3,598	18.30	£658	1,799	6.07	£109.20	1,799	29.5	£531.28	£1,299	£0	£0	£1,299	£8,831	8
9	94%	3,565	18.94	£675	1,783	6.28	£111.97	1,783	32.5	£578.53	£1,366	£0	£0	£1,366	£10.2k	9
10	93%	3,532	19.60	£692	1,766	6.50	£114.79	1,766	35.7	£629.93	£1,437	£0	£0	£1,437	£11.6k	10
11	92%	3,499	20.28	£710	1,750	6.73	£117.78	1,750	39.2	£685.83	£1,513	£0	£0	£1,513	£13.1k	11
12	91%	3,467	20.99	£728	1,733	6.96	£120.62	1,733	43.1	£746.63	£1,595	£0	£0	£1,595	£14.7k	12
13	90%	3,434	21.73	£746	1,717	7.21	£123.80	1,717	47.3	£812.75	£1,683	£0	£0	£1,683	£16.4k	13
14	90%	3,401	22.49	£765	1,700	7.46	£126.82	1,700	52.0	£884.64	£1,776	£0	£0	£1,776	£18.2k	14
15	89%	3,368	23.28	£784	1,684	7.72	£130.00	1,684	57.2	£962.80	£1,877	£0	£0	£1,877	£20.1k	15
16	88%	3,335	24.09	£803	1,667	7.99	£133.19	1,667	62.8	£1,047.76	£1,984	£0	£0	£1,984	£22.1k	16
17	87%	3,302	24.93	£823	1,651	8.27	£136.54	1,651	69.1	£1,140.11	£2,100	£0	£0	£2,100	£24.2k	17
18	86%	3,269	25.81	£844	1,634	8.56	£139.87	1,634	75.9	£1,240.48	£2,224	£0	£0	£2,224	£26.4k	18
19	85%	3,236	26.71	£864	1,618	8.86	£143.35	1,618	83.4	£1,349.55	£2,357	£0	£0	£2,357	£28.7k	19
20	84%	3,203	27.65	£886	1,601	9.17	£146.81	1,601	91.7	£1,468.05	£2,500	£0	£0	£2,500	£31.2k	20
21	84%	3,170	0.00	£0	1,585	0.00	£0.00	1,585	100.7	£1,596.79	£1,597	£0	£0	£1,597	£32.8k	21
22	83%	3,137	0.00	£0	1,569	0.00	£0.00	1,569	110.7	£1,736.63	£1,737	£0	£0	£1,737	£34.6k	22
23	82%	3,104	0.00	£0	1,552	0.00	£0.00	1,552	121.7	£1,888.51	£1,889	£0	£0	£1,889	£36.5k	23
24	81%	3,071	0.00	£0	1,536	0.00	£0.00	1,536	133.7	£2,053.45	£2,053	£0	£0	£2,053	£38.5k	24
25	80%	3,038	0.00	£0	1,519	0.00	£0.00	1,519	147.0	£2,232.52	£2,233	£0	£0	£2,233	£40.8k	25

System Configuration

Array Size: 4.00 kWp
 Installation Type: 4kW or Below
 Annual Yield: 3796 kWh pa
 Export Amount: 50%
 Inverter: SMA
 Panels: Solarworld 250w Monocrystalline

Financial Details

Installation Cost: £7,000
 Inflation Rate: 3%
 Energy Inflation: 9%

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 and is given as guidance only. It should not be considered as a guarantee of performance.

Note: This system performance calculation has been undertaken using estimated values for array orientation, inclination or shading. Actual performance may be significantly lower if the characteristics of the installed system vary from the estimated values.

Prepared By: Ian

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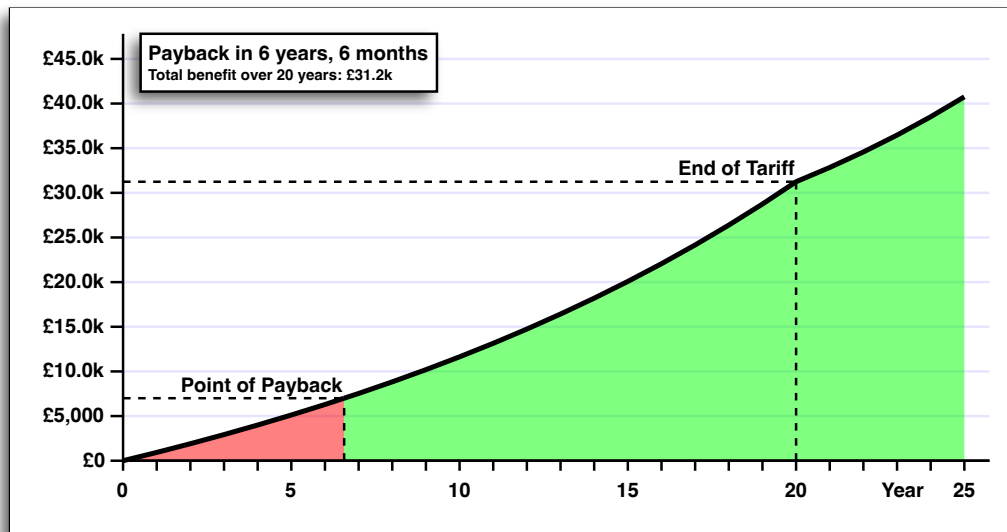
E: solarsurgeon@gmail.com
 W: www.thesolarconsultancy.co.uk
Project Reference: Mr / Mrs Jones



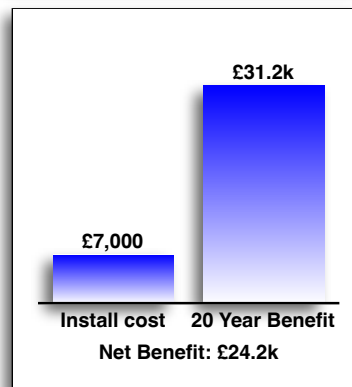
iSolarPayback
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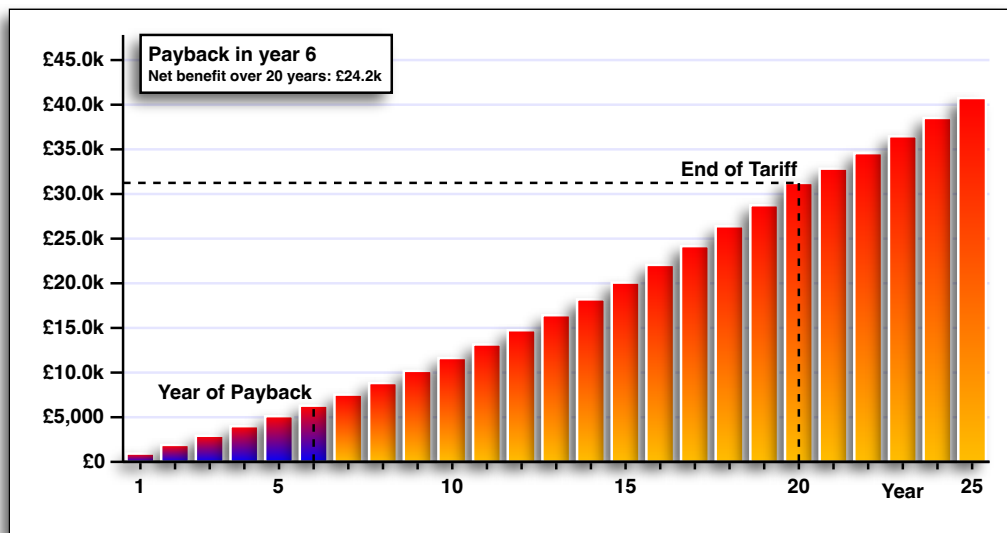
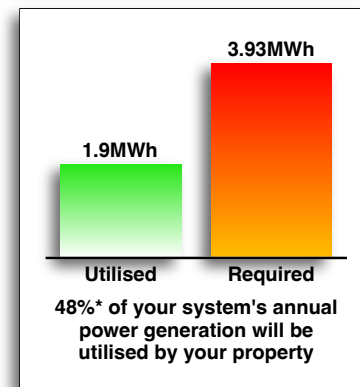
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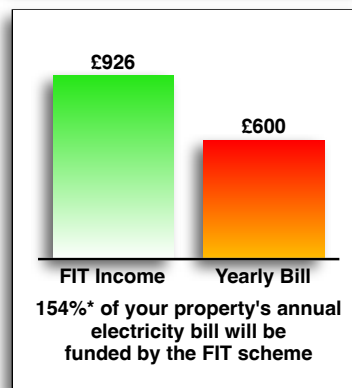
System Payback
Payback in 6 years, 6 months



3.8MWh
of Electricity Generated
in Year 1*



37 Tonnes
of Co2 saved
over 20 years



Note: Please refer to the note(s) on Page 1 of this report for important information and assumptions about the calculation of figures within this report.

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Project Reference: Mr / Mrs Jones

* Based on first year's calculated output.
NOTE: Your electricity bill and property's electrical consumption figures are based on an energy price of 15.25p/kWh and a bill of £50 per month.

Every effort has been made to ensure accuracy of results. Alphatronic will not accept any responsibility for inaccuracies or errors which affect the results shown here. The user must satisfy themselves of likely paybacks and financial results before investing in a PV system.
iSolarPayback Version: 4.0

