

Solar PV Cost and Payback Analysis - SAP/2012

, 20 The Grove, South Wales, SA12 6AL

Year	System Efficiency	Expected System Yield (MWh)	FIT Rate (p)	Total Generation Income	50% Energy Exported (MWh)	Export Rate (p)	Export Earnings	50% Energy Used On Site (MWh)	Electricity Cost (p/kWh)	Consumed Electricity Savings	Income and Savings	Maintenance Cost	Loan Interest	Effective Income	Cumulative Benefit	Year
1	100%	47	12.13	£5,756	24	4.77	£1,132	24	15.3	£3,618	£10.5k	£0	£0	£10.5k	£10.5k	1
2	100%	47	12.55	£5,955	24	4.94	£1,172	24	16.8	£3,976	£11.1k	£0	£0	£11.1k	£21.6k	2
3	99%	47	12.99	£6,110	24	5.11	£1,202	24	18.4	£4,332	£11.6k	£0	£0	£11.6k	£33.3k	3
4	98%	47	13.45	£6,271	23	5.29	£1,233	23	20.2	£4,719	£12.2k	£0	£0	£12.2k	£45.5k	4
5	97%	46	13.92	£6,433	23	5.47	£1,264	23	22.2	£5,141	£12.8k	£0	£0	£12.8k	£58.3k	5
6	97%	46	14.41	£6,600	23	5.67	£1,298	23	24.4	£5,599	£13.5k	£0	£0	£13.5k	£71.8k	6
7	96%	45	14.91	£6,768	23	5.86	£1,330	23	26.9	£6,098	£14.2k	£0	£0	£14.2k	£86.0k	7
8	95%	45	15.43	£6,940	22	6.07	£1,365	22	29.5	£6,641	£14.9k	£0	£0	£14.9k	£101.0k	8
9	94%	45	15.97	£7,117	22	6.28	£1,399	22	32.5	£7,232	£15.7k	£0	£0	£15.7k	£116.7k	9
10	93%	44	16.53	£7,299	22	6.50	£1,435	22	35.7	£7,874	£16.6k	£0	£0	£16.6k	£133.3k	10
11	92%	44	17.11	£7,484	22	6.73	£1,472	22	39.2	£8,573	£17.5k	£0	£0	£17.5k	£150.8k	11
12	91%	43	17.71	£7,674	22	6.96	£1,508	22	43.1	£9,333	£18.5k	£0	£0	£18.5k	£169.4k	12
13	90%	43	18.33	£7,867	21	7.21	£1,547	21	47.3	£10.2k	£19.6k	£0	£0	£19.6k	£188.9k	13
14	90%	43	18.97	£8,064	21	7.46	£1,586	21	52.0	£11.1k	£20.7k	£0	£0	£20.7k	£209.6k	14
15	89%	42	19.63	£8,263	21	7.72	£1,625	21	57.2	£12.0k	£21.9k	£0	£0	£21.9k	£231.6k	15
16	88%	42	20.32	£8,470	21	7.99	£1,665	21	62.8	£13.1k	£23.2k	£0	£0	£23.2k	£254.8k	16
17	87%	41	21.03	£8,680	21	8.27	£1,707	21	69.1	£14.3k	£24.6k	£0	£0	£24.6k	£279.4k	17
18	86%	41	21.77	£8,895	20	8.56	£1,749	20	75.9	£15.5k	£26.2k	£0	£0	£26.2k	£305.6k	18
19	85%	40	22.53	£9,113	20	8.86	£1,792	20	83.4	£16.9k	£27.8k	£0	£0	£27.8k	£333.4k	19
20	84%	40	23.32	£9,336	20	9.17	£1,836	20	91.7	£18.4k	£29.5k	£0	£0	£29.5k	£362.9k	20
21	84%	40	0.00	£0	20	0.00	£0	20	100.7	£20.0k	£20.0k	£0	£0	£20.0k	£382.8k	21
22	83%	39	0.00	£0	20	0.00	£0	20	110.7	£21.7k	£21.7k	£0	£0	£21.7k	£404.5k	22
23	82%	39	0.00	£0	19	0.00	£0	19	121.7	£23.6k	£23.6k	£0	£0	£23.6k	£428.1k	23
24	81%	38	0.00	£0	19	0.00	£0	19	133.7	£25.7k	£25.7k	£0	£0	£25.7k	£453.8k	24
25	80%	38	0.00	£0	19	0.00	£0	19	147.0	£27.9k	£27.9k	£0	£0	£27.9k	£481.7k	25

System Configuration

Array Size: 50.00 kWp
 Installation Type: >10kW <= 50kW
 Annual Yield: 47450 kWh pa
 Export Amount: 50%
 Inverter: SMA
 Panels: Solarworld 250w Monocrystalline

Financial Details

Installation Cost: £80,000
 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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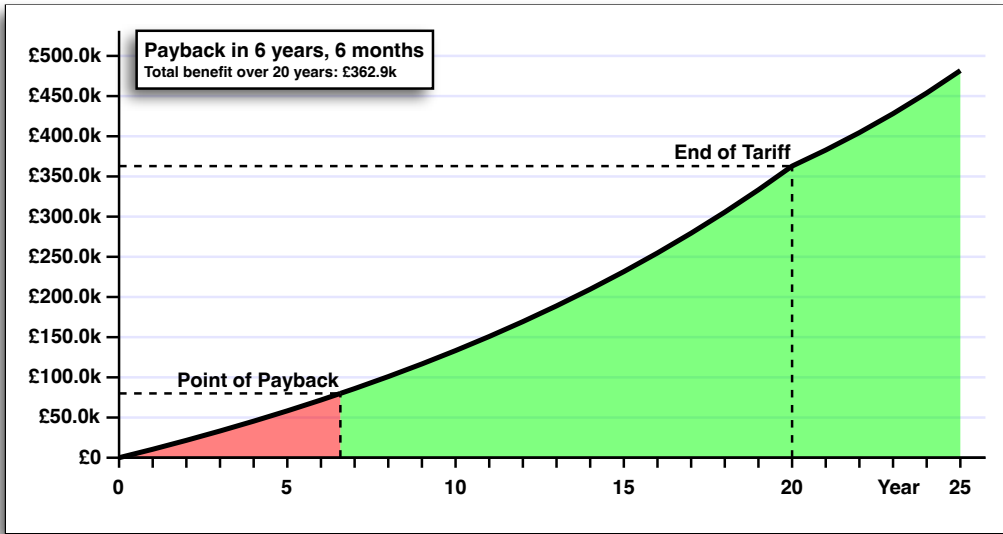
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Project Reference: Mr / Mrs Jones



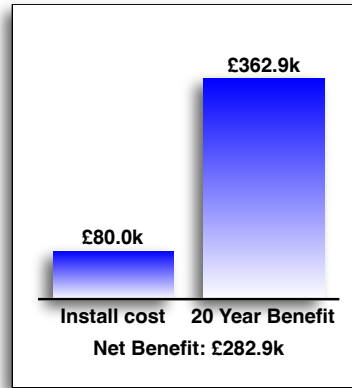
iSolarPayback
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Solar PV Cost and Payback Analysis - SAP/2012

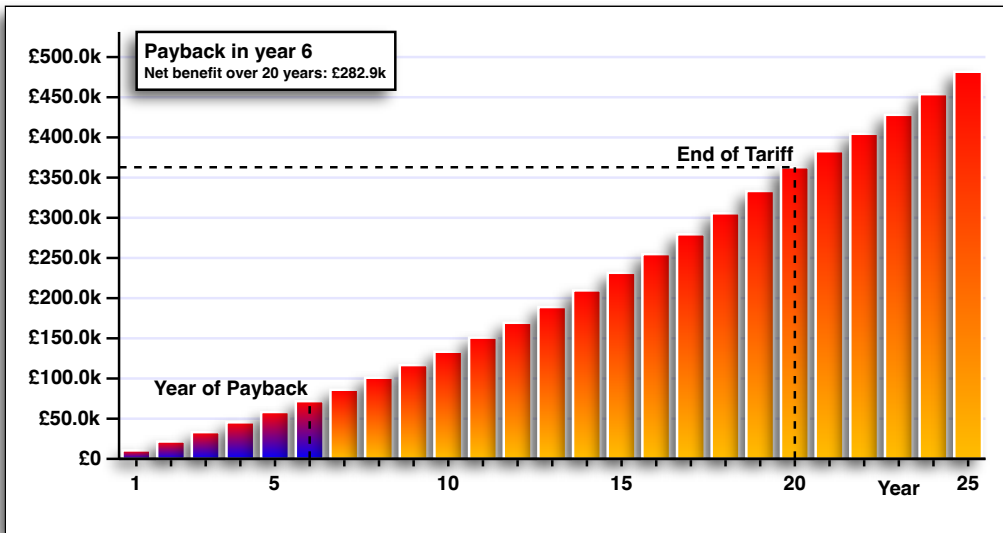
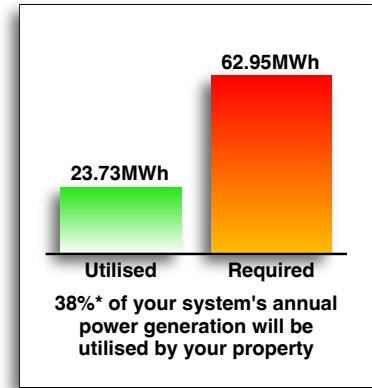
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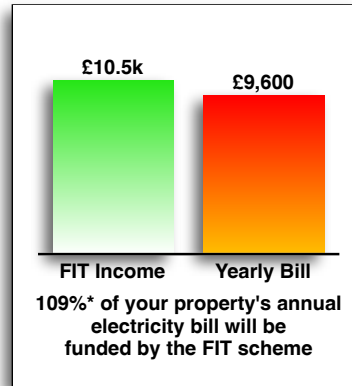
System Payback
Payback in 6 years, 6 months



47.45MWh
of Electricity Generated
in Year 1*



458 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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* 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 £800 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



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