

Solar PV Payback Calculation

Estimated Installed Cost (£)	£14,152.55
Cost per Watt Installed (£)	£3.93
Size of the Array (kWp)	3.600
Load Factor	0.8
Solar Radiation Factor	1073
Overshading Factor	1

Calculations ignore the time value of money
Assumes inverter lasts 25 years

Starting Rate for Retrofit Up to 4kW FIT (p/kWh)	43.3 p
Starting Rate for New Build & 4-10 kW FIT (p/kWh)	36.1 p
Installation Type - Enter "Retrofit" or "New Build"	Retrofit
Export Tariff (p/kWh)	3.1 p

Accumulative Total PAYBACK reached in year where cells turn **GREEN**

Year	Estimated Output (kW/h)	3,090.24	Assumed Annual Rate of RPI Inflation 2.5%	Generation Tariff including inflation (p/wKWh)	Total Generation Tariff annual income (£)	Export Tariff including inflation (p/wKWh)	% of Energy		Current Energy Cost per kWh Unit (p)	Annual Increase in Energy Cost	Annual Maintenance Cost (£)	Savings from Energy Used (£)	Total Income & Saving per year (£)	Accumulative Pay Back (£)
							Exported (no smart meter) 50%	Actual % of Energy Used on Site 65%						
1	3090		102.5%	43.3 p	£1,338.07	3.1 p	£47.90	2009	12.0 p			£241.04	£1,627.01	£1,627.01
2	3090		105.1%	45.5 p	£1,405.81	3.2 p	£49.10	2009	13.2 p			£265.14	£1,720.05	£3,347.06
3	3090		107.7%	46.6 p	£1,440.96	3.3 p	£50.32	2009	14.5 p			£291.66	£1,782.94	£5,130.00
4	3067		110.4%	47.8 p	£1,465.91	3.3 p	£51.19	1994	16.0 p			£318.42	£1,835.52	£6,965.52
5	3044		113.1%	49.0 p	£1,491.28	3.4 p	£52.08	1979	17.6 p			£347.63	£1,891.00	£8,856.52
6	3021		116.0%	50.2 p	£1,517.10	3.5 p	£52.98	1964	19.3 p			£379.53	£1,949.61	£10,806.13
7	2999		118.9%	51.5 p	£1,543.37	3.6 p	£53.90	1949	21.3 p			£414.35	£2,011.61	£12,817.74
8	2976		121.8%	52.8 p	£1,570.09	3.7 p	£54.83	1934	23.4 p			£452.36	£2,077.28	£14,895.03
9	2954		124.9%	54.1 p	£1,597.27	3.8 p	£55.78	1920	25.7 p			£493.87	£2,146.92	£17,041.95
10	2932		128.0%	55.4 p	£1,624.92	3.9 p	£56.75	1906	28.3 p			£539.18	£2,220.85	£19,262.80
11	2910		131.2%	56.8 p	£1,653.05	4.0 p	£57.73	1891	31.1 p			£588.65	£2,299.43	£21,562.23
12	2888		134.5%	58.2 p	£1,681.67	4.1 p	£58.73	1877	34.2 p			£642.66	£2,383.06	£23,945.29
13	2866		137.9%	59.7 p	£1,710.79	4.2 p	£59.75	1863	37.7 p			£701.62	£2,472.16	£26,417.45
14	2845		141.3%	61.2 p	£1,740.40	4.3 p	£60.78	1849	41.4 p			£766.00	£2,567.18	£28,984.63
15	2823		144.8%	62.7 p	£1,770.53	4.4 p	£61.83	1835	45.6 p			£836.28	£2,668.65	£31,653.28
16	2802		148.5%	64.3 p	£1,801.19	4.5 p	£62.90	1821	50.1 p			£913.01	£2,777.10	£34,430.37
17	2781		152.2%	65.9 p	£1,832.37	4.6 p	£63.99	1808	55.1 p			£996.77	£2,893.14	£37,323.51
18	2760		156.0%	67.5 p	£1,864.09	4.7 p	£65.10	1794	60.7 p			£1,088.23	£3,017.42	£40,340.93
19	2740		159.9%	69.2 p	£1,896.36	4.8 p	£66.23	1781	66.7 p			£1,188.07	£3,150.67	£43,491.60
20	2719		163.9%	71.0 p	£1,929.20	5.0 p	£67.37	1767	73.4 p			£1,297.08	£3,293.65	£46,785.25
21	2699		168.0%	72.7 p	£1,962.59	5.1 p	£68.54	1754	80.7 p			£1,416.09	£3,447.22	£50,232.47
22	2678		172.2%	74.5 p	£1,996.57	5.2 p	£69.73	1741	88.8 p			£1,546.01	£3,612.31	£53,844.78
23	2658		176.5%	76.4 p	£2,031.14	5.3 p	£70.93	1728	97.7 p			£1,687.86	£3,789.93	£57,634.71
24	2638		180.9%	78.3 p	£2,066.30	5.5 p	£72.16	1715	107.5 p			£1,842.72	£3,981.18	£61,615.90
25	2619		185.4%	80.3 p	£2,102.07	5.6 p	£73.41	1702	118.2 p			£2,011.79	£4,187.28	£65,803.17