

Solar PV Payback Calculation													
Average Cost per kW Installed (£)	3,060	Enter your own figures in ORANGE boxes											
Estimated Installed Cost (£)	11,016	PAYBACK reached in year where cells turn GREEN in Accumulative Total											
Size of the Array (kWp)	4	Notes:											
Load Factor	0.8	> Calculations ignore the time value of money											
Solar Radiation Factor	997	> Assumes inverter lasts 25 years											
Overshading Factor	1	103%											
Estimated Output (kWh/annum)	2871	Assumed Annual Rate of Inflation											
		3%											
		% of Energy Used on Site											
		60%											
		Annual Increase in Energy Cost											
		10%											
		Annual Maintenance Cost (£)											
		25											
Year	Estimated Output Taking Degradation at 1% loss/year into Account (kWh/annum)	Efficiency of Cells	Up to 4kW FIT (p/kWh)	4-10 kW FIT (p/kWh)	inflation compound factor	FIT including inflation (p/wKWh)	Total Generation annual income (£)	Energy Used on Site (kWh)	Energy Cost (p)	Savings from Energy Used (£)	Total Income & Saving per year (£)	Accumulative Total (£)	Year
1	2871	100%	21.0	36.1	1.03	21.0	603	1723	15.00	258	836	836	1
2	2871	100%	21.0	36.1	1.06	22.3	640	1723	17	284	899	1,735	2
3	2871	100%	21.0	36.1	1.09	22.9	659	1723	18	313	947	2,682	3
4	2843	99%	21.0	36.1	1.13	23.6	672	1706	20	341	987	3,669	4
5	2814	98%	21.0	36.1	1.16	24.3	685	1689	22	371	1,031	4,700	5
6	2786	97%	43.3	36.1	1.19	51.7	1,440	1672	24	404	1,819	6,520	6
7	2758	96%	21.0	36.1	1.23	25.8	712	1655	27	440	1,127	7,647	7
8	2731	95%	21.0	36.1	1.27	26.6	726	1638	29	479	1,180	8,827	8
9	2703	94%	21.0	36.1	1.30	27.4	741	1622	32	522	1,237	10,064	9
10	2676	93%	21.0	36.1	1.34	28.2	755	1606	35	568	1,298	11,363	10
11	2650	92%	21.0	36.1	1.38	29.1	770	1590	39	618	1,364	12,726	11
12	2623	91%	21.0	36.1	1.43	29.9	785	1574	43	674	1,434	14,160	12
13	2597	90%	21.0	36.1	1.47	30.8	801	1558	47	733	1,509	15,670	13
14	2571	90%	21.0	36.1	1.51	31.8	817	1543	52	799	1,590	17,260	14
15	2545	89%	21.0	36.1	1.56	32.7	833	1527	57	870	1,678	18,937	15
16	2520	88%	21.0	36.1	1.60	33.7	849	1512	63	947	1,771	20,709	16
17	2494	87%	21.0	36.1	1.65	34.7	866	1497	69	1032	1,872	22,581	17
18	2470	86%	21.0	36.1	1.70	35.8	883	1482	76	1123	1,981	24,563	18
19	2445	85%	21.0	36.1	1.75	36.8	900	1467	83	1223	2,099	26,661	19
20	2420	84%	21.0	36.1	1.81	37.9	918	1452	92	1332	2,225	28,886	20
21	2396	83%	21.0	36.1	1.86	39.1	936	1438	101	1451	2,362	31,248	21
22	2372	83%	21.0	36.1	1.92	40.2	955	1423	111	1580	2,509	33,758	22
23	2349	82%	21.0	36.1	1.97	41.4	973	1409	122	1721	2,669	36,427	23
24	2325	81%	21.0	36.1	2.03	42.7	993	1395	134	1874	2,841	39,268	24
25	2302	80%	43.3	36.1	2.09	90.7	2,087	1381	148	2040	4,102	43,370	25
26	2279	79%					-	1367	163	2222	2,197	45,567	26
27	2256	79%					-	1354	179	2420	2,395	47,962	27
28	2233	78%					-	1340	197	2635	2,610	50,572	28
29	2211	77%					-	1327	216	2870	2,845	53,417	29
30	2189	76%					-	1313	238	3125	3,100	56,517	30