

A typical 2 kW system
 which could be installed
 at your address.
 Start getting free electricity now.
 We offer an excellent Return on Investment (ROI).



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Solar PV Cost / Benefit Analysis

Below is a calculation of the energy that your panels would produce and the economic value of that. It is based upon the orientation and pitch of your roof and the location of your property.

Your Property		FIT & Export rate inflation (RPI)		5.0% per annum	
Roof Orientation	South	Energy Price Inflation		10.0% per annum	
Roof Pitch	30°	Drop in system performance		0.5% per annum	
Overshadowing	Light or none <20%	System Size	2 kWp		
Retrofit or Newbuild	Retrofit	FIT rate	21 Pence/kWh		
Your System		Productivity	2,146 kWh / Year *	Imported electricity cost	
Number of Panels	8			Percentage of self consumption	
Size of Panels	250 Watts			50%	
				Electricity export rate	
				3.1 pence / kWh	
				Percentage of export	
				50%	

	Production kWh	FIT Rate pence / kWh	FIT revenue £	Cost of Electricity pence / kWh	Electricity Saving £	Export Rate pence / kWh	Export revenue £	Annual benefit £	Cumulative Benefit £	
Year 1	2146	21.0	£450.66	13.0	£139.49	3.1	£33.26	£623.41	£623.41	
Year 2	2135	22.1	£470.83	14.3	£146.46	3.4	£34.93	£652.22	£1,275.63	
Year 3	2125	23.2	£491.90	15.7	£153.79	3.6	£36.67	£682.36	£1,957.99	
Year 4	2114	24.3	£513.91	17.3	£161.48	3.8	£38.51	£713.89	£2,671.88	
Year 5	2103	25.5	£536.91	19.0	£169.55	3.9	£40.43	£746.89	£3,418.77	
Year 6	2093	26.8	£560.93	20.9	£178.03	4.1	£42.45	£781.41	£4,200.18	
Year 7	2082	28.1	£586.03	23.0	£186.93	4.4	£44.58	£817.54	£5,017.72	
Year 8	2072	29.5	£612.26	25.3	£196.28	4.6	£46.80	£855.34	£5,873.06	
Year 9	2062	31.0	£639.66	27.9	£206.09	4.8	£49.14	£894.89	£6,767.96	
Year 10	2051	32.6	£668.28	30.7	£216.39	5.0	£51.60	£936.28	£7,704.24	
Year 11	2041	34.2	£698.19	33.7	£227.21	5.3	£54.18	£979.59	£8,683.82	
Year 12	2031	35.9	£729.43	37.1	£238.58	5.6	£56.89	£1,024.90	£9,708.72	
Year 13	2021	37.7	£762.07	40.8	£250.50	5.8	£59.74	£1,072.31	£10,781.03	
Year 14	2011	39.6	£796.18	44.9	£263.03	6.1	£62.72	£1,121.93	£11,902.96	
Year 15	2001	41.6	£831.81	49.4	£276.18	6.4	£65.86	£1,173.85	£13,076.81	
Year 16	1991	43.7	£869.03	54.3	£289.99	6.8	£69.15	£1,228.17	£14,304.98	
Year 17	1981	45.8	£907.92	59.7	£304.49	7.1	£72.61	£1,285.02	£15,590.00	
Year 18	1971	48.1	£948.55	65.7	£319.71	7.4	£76.24	£1,344.50	£16,934.50	
Year 19	1961	50.5	£991.00	72.3	£335.70	7.8	£80.05	£1,406.75	£18,341.25	
Year 20	1951	53.1	£1,035.34	79.5	£352.48	8.2	£84.05	£1,471.88	£19,813.13	
Year 21	1941	55.7	£1,081.67	87.5	£370.11	8.6	£88.26	£1,540.04	£21,353.17	
Year 22	1932	58.5	£1,130.08	96.2	£388.61	9.0	£92.67	£1,611.36	£22,964.53	
Year 23	1922	61.4	£1,180.65	105.8	£408.04	9.5	£97.30	£1,686.00	£24,650.53	
Year 24	1912	64.5	£1,233.48	116.4	£428.45	10.0	£102.17	£1,764.10	£26,414.63	
Year 25	1903	67.7	£1,288.68	128.0	£449.87	10.5	£107.28	£1,845.83	£28,260.46	
The first year shown in black is the year when the system reaches break-even								TOTAL Benefit over 25 years		£28,260.46
Return on investment writing off system after 25years								Cost of installation including VAT @ 5.00%		£6,200.00
356% equivalent to 14.2% pa										

* 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 Government's standard assessment procedure for energy rating of buildings (SAP) and is given as guidance only. It should not be considered as a guarantee of performance.