

A typical 2.5 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	System Size	2.5 kWp	Energy Price Inflation	10.0% per annum
Roof Pitch	30°	FIT rate	21 Pence/kWh	Drop in system performance	0.5% per annum
Overshadowing	Light or none <20%	Productivity	2,683 kWh / Year *	Imported electricity cost	13.0 pence / kWh
Retrofit or Newbuild	Retrofit			Percentage of self consumption	50%
Your System				Electricity export rate	3.1 pence / kWh
Number of Panels	10			Percentage of export	50%
Size of Panels	250 Watts				

	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 £	
<b>Year 1</b>	2683	21.0	£563.33	13.0	£174.36	3.1	£41.58	<b>£779.27</b>	<b>£779.27</b>	
<b>Year 2</b>	2669	22.1	£588.53	14.3	£183.08	3.4	£43.66	<b>£815.27</b>	<b>£1,594.54</b>	
<b>Year 3</b>	2656	23.2	£614.87	15.7	£192.23	3.6	£45.84	<b>£852.95</b>	<b>£2,447.48</b>	
<b>Year 4</b>	2642	24.3	£642.39	17.3	£201.85	3.8	£48.13	<b>£892.37</b>	<b>£3,339.85</b>	
<b>Year 5</b>	2629	25.5	£671.13	19.0	£211.94	3.9	£50.54	<b>£933.61</b>	<b>£4,273.46</b>	
<b>Year 6</b>	2616	26.8	£701.17	20.9	£222.54	4.1	£53.07	<b>£976.77</b>	<b>£5,250.23</b>	
<b>Year 7</b>	2603	28.1	£732.54	23.0	£233.66	4.4	£55.72	<b>£1,021.93</b>	<b>£6,272.15</b>	
<b>Year 8</b>	2590	29.5	£765.32	25.3	£245.35	4.6	£58.51	<b>£1,069.18</b>	<b>£7,341.33</b>	
<b>Year 9</b>	2577	31.0	£799.57	27.9	£257.61	4.8	£61.43	<b>£1,118.62</b>	<b>£8,459.95</b>	
<b>Year 10</b>	2564	32.6	£835.35	30.7	£270.49	5.0	£64.50	<b>£1,170.35</b>	<b>£9,630.30</b>	
<b>Year 11</b>	2551	34.2	£872.74	33.7	£284.02	5.3	£67.73	<b>£1,224.48</b>	<b>£10,854.78</b>	
<b>Year 12</b>	2539	35.9	£911.79	37.1	£298.22	5.6	£71.11	<b>£1,281.12</b>	<b>£12,135.90</b>	
<b>Year 13</b>	2526	37.7	£952.59	40.8	£313.13	5.8	£74.67	<b>£1,340.39</b>	<b>£13,476.29</b>	
<b>Year 14</b>	2513	39.6	£995.22	44.9	£328.79	6.1	£78.40	<b>£1,402.41</b>	<b>£14,878.70</b>	
<b>Year 15</b>	2501	41.6	£1,039.76	49.4	£345.23	6.4	£82.32	<b>£1,467.31</b>	<b>£16,346.01</b>	
<b>Year 16</b>	2488	43.7	£1,086.29	54.3	£362.49	6.8	£86.44	<b>£1,535.21</b>	<b>£17,881.23</b>	
<b>Year 17</b>	2476	45.8	£1,134.90	59.7	£380.61	7.1	£90.76	<b>£1,606.27</b>	<b>£19,487.50</b>	
<b>Year 18</b>	2463	48.1	£1,185.69	65.7	£399.64	7.4	£95.30	<b>£1,680.63</b>	<b>£21,168.12</b>	
<b>Year 19</b>	2451	50.5	£1,238.74	72.3	£419.62	7.8	£100.06	<b>£1,758.43</b>	<b>£22,926.56</b>	
<b>Year 20</b>	2439	53.1	£1,294.18	79.5	£440.61	8.2	£105.07	<b>£1,839.85</b>	<b>£24,766.41</b>	
<b>Year 21</b>	2427	55.7	£1,352.09	87.5	£462.64	8.6	£110.32	<b>£1,925.05</b>	<b>£26,691.46</b>	
<b>Year 22</b>	2414	58.5	£1,412.60	96.2	£485.77	9.0	£115.84	<b>£2,014.20</b>	<b>£28,705.66</b>	
<b>Year 23</b>	2402	61.4	£1,475.81	105.8	£510.06	9.5	£121.63	<b>£2,107.50</b>	<b>£30,813.16</b>	
<b>Year 24</b>	2390	64.5	£1,541.86	116.4	£535.56	10.0	£127.71	<b>£2,205.12</b>	<b>£33,018.28</b>	
<b>Year 25</b>	2378	67.7	£1,610.85	128.0	£562.34	10.5	£134.10	<b>£2,307.29</b>	<b>£35,325.57</b>	
The first year shown in black is the year when the system reaches break-even								<b>TOTAL Benefit over 25 years</b>		<b>£35,325.57</b>
<b>Return on investment writing off system after 25years</b>								<b>Cost of installation including VAT @ 5.00%</b>		<b>£7,312.52</b>
383% equivalent to 15.3% 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.