

A typical 4 kW system
 which could be installed
 at your address.
 Start getting free electricity now.
 We offer an excellent Return on Investment (ROI).



Contemporary Energy Ltd
 Telephone: 01962 735478
 Email: info@contemporaryenergy.co.uk
 Web: www.contemporaryenergy.co.uk

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	4 kWp	
Retrofit or Newbuild	Retrofit	FIT rate	21 Pence/kWh	
Your System		Productivity	4,292 kWh / Year *	
Number of Panels	16	Imported electricity cost		13.0 pence / kWh
Size of Panels	250 Watts	Percentage of self consumption		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	4292	21.0	£901.32	13.0	£278.98	3.1	£66.53	£1,246.83	£1,246.83	
Year 2	4271	22.1	£941.65	14.3	£292.93	3.4	£69.85	£1,304.44	£2,551.26	
Year 3	4249	23.2	£983.79	15.7	£307.58	3.6	£73.34	£1,364.71	£3,915.97	
Year 4	4228	24.3	£1,027.82	17.3	£322.95	3.8	£77.01	£1,427.78	£5,343.76	
Year 5	4207	25.5	£1,073.81	19.0	£339.10	3.9	£80.86	£1,493.78	£6,837.54	
Year 6	4186	26.8	£1,121.87	20.9	£356.06	4.1	£84.91	£1,562.83	£8,400.37	
Year 7	4165	28.1	£1,172.07	23.0	£373.86	4.4	£89.15	£1,635.08	£10,035.45	
Year 8	4144	29.5	£1,224.52	25.3	£392.55	4.6	£93.61	£1,710.68	£11,746.13	
Year 9	4123	31.0	£1,279.32	27.9	£412.18	4.8	£98.29	£1,789.79	£13,535.91	
Year 10	4103	32.6	£1,336.57	30.7	£432.79	5.0	£103.20	£1,872.56	£15,408.47	
Year 11	4082	34.2	£1,396.38	33.7	£454.43	5.3	£108.36	£1,959.17	£17,367.64	
Year 12	4062	35.9	£1,458.87	37.1	£477.15	5.6	£113.78	£2,049.80	£19,417.44	
Year 13	4041	37.7	£1,524.15	40.8	£501.01	5.8	£119.47	£2,144.63	£21,562.07	
Year 14	4021	39.6	£1,592.36	44.9	£526.06	6.1	£125.44	£2,243.86	£23,805.93	
Year 15	4001	41.6	£1,663.61	49.4	£552.36	6.4	£131.72	£2,347.69	£26,153.62	
Year 16	3981	43.7	£1,738.06	54.3	£579.98	6.8	£138.30	£2,456.34	£28,609.96	
Year 17	3961	45.8	£1,815.84	59.7	£608.98	7.1	£145.22	£2,570.03	£31,179.99	
Year 18	3941	48.1	£1,897.10	65.7	£639.43	7.4	£152.48	£2,689.00	£33,869.00	
Year 19	3922	50.5	£1,981.99	72.3	£671.40	7.8	£160.10	£2,813.49	£36,682.49	
Year 20	3902	53.1	£2,070.69	79.5	£704.97	8.2	£168.11	£2,943.76	£39,626.25	
Year 21	3883	55.7	£2,163.35	87.5	£740.22	8.6	£176.51	£3,080.08	£42,706.33	
Year 22	3863	58.5	£2,260.16	96.2	£777.23	9.0	£185.34	£3,222.73	£45,929.06	
Year 23	3844	61.4	£2,361.30	105.8	£816.09	9.5	£194.61	£3,372.00	£49,301.05	
Year 24	3825	64.5	£2,466.97	116.4	£856.89	10.0	£204.34	£3,528.20	£52,829.25	
Year 25	3806	67.7	£2,577.37	128.0	£899.74	10.5	£214.55	£3,691.66	£56,520.91	
The first year shown in black is the year when the system reaches break-even								TOTAL Benefit over 25 years		£56,520.91
Return on investment writing off system after 25years				438%	equivalent to		17.5% pa	Cost of installation including VAT @ 5.00%		£10,500.00

* 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.