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Solar PV Payback Calculation

Average Cost per kW Installed (R) **28,282**
 Estimated Installed Cost (R) **55,999**

Size of the Array (kWp) **2**
 Load Factor 1
 Solar Radiation Factor **920**
 Overshading Factor **1**

Estimated Output (kWh/annum) **1840**

Enter your own figures in ORANGE boxes
PAYBACK reached in year where cells turn GREEN in Accumulative Total

Notes:
 > Calculations ignore the time value of money
 > Assumes inverter lasts 20 years

108%
 Assumed
 Annual Rate
 of Inflation **8%**
 % of Energy
 Used on Site **100%**
 Annual
 Increase in
 Energy Cost **15%**

Year	Estimated Output Taking Degradation at 1% loss/year into Account (kWh/annum)	Efficiency of Cells	Up to 4kW FIT (p/kWh)	10+ kW FIT (p/kWh)	inflation compound factor	FIT including inflation (p/wKh)	Total Generation annual income (R)	Energy Used on Site (kWh)	Energy Cost P/W	Savings from Energy Used (R)	Total Income & Saving per year (R)	Accumulative Total (R)	Year
1	3975	100%	14.9	12.6	1.08	14.9	592	3975	2.00	79	672	672	1
2	3975	100%	14.9	12.6	1.17	17.4	691	3975	2	91	782	1,454	2
3	3975	100%	14.9	12.6	1.26	18.8	746	3975	3	105	851	2,305	3
4	3935	99%	14.9	12.6	1.36	20.3	798	3935	3	120	917	3,223	4
5	3896	98%	14.9	12.6	1.47	21.9	853	3896	3	136	989	4,212	5
6	3857	97%	14.9	12.6	1.59	23.6	912	3857	4	155	1,067	5,279	6
7	3818	96%	14.9	12.6	1.71	25.5	975	3818	5	177	1,152	6,431	7
8	3780	95%	14.9	12.6	1.85	27.6	1,043	3780	5	201	1,244	7,674	8
9	3742	94%	14.9	12.6	2.00	29.8	1,115	3742	6	229	1,344	9,018	9
10	3705	93%	14.9	12.6	2.16	32.2	1,192	3705	7	261	1,452	10,470	10
11	3668	92%	14.9	12.6	2.33	34.7	1,274	3668	8	297	1,571	12,041	11
12	3631	91%	14.9	12.6	2.52	37.5	1,362	3631	9	338	1,700	13,742	12
13	3595	90%	14.9	12.6	2.72	40.5	1,457	3595	11	385	1,841	15,583	13
14	3559	90%	14.9	12.6	2.94	43.8	1,558	3559	12	438	1,995	17,578	14
15	3523	89%	14.9	12.6	3.17	47.3	1,665	3523	14	499	2,164	19,742	15
16	3488	88%	14.9	12.6	3.43	51.0	1,781	3488	16	568	2,348	22,090	16
17	3453	87%	14.9	12.6	3.70	55.1	1,904	3453	19	646	2,550	24,640	17
18	3419	86%	14.9	12.6	4.00	59.5	2,035	3419	22	736	2,771	27,412	18
19	3384	85%	14.9	12.6	4.32	64.3	2,176	3384	25	838	3,014	30,426	19
20	3351	84%	14.9	12.6	4.66	69.4	2,327	3351	28	954	3,281	33,706	20
												R 267,698	