

Solar System Payback Times Based on Estimated Savings

Projected Savings on 150 Liter, 10 Tube Hills Solar System, 1 to 2 people

Month	Electrical Element Hrs/day Without Solar	Solar %	Year 1 -2011	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
January	3	100%	R 207.90	R 259.88	R 298.86	R 358.63	R 412.42	R 474.28	R 545.43	R 627.24	R 721.33	R 829.53
February	3	100%	R 207.90	R 259.88	R 298.86	R 358.63	R 412.42	R 474.28	R 545.43	R 627.24	R 721.33	R 829.53
March	3.5	100%	R 242.55	R 303.19	R 348.67	R 418.40	R 481.16	R 553.33	R 636.33	R 731.78	R 841.55	R 967.78
April	3.5	80%	R 194.04	R 242.55	R 278.93	R 334.72	R 384.93	R 442.67	R 509.07	R 585.43	R 673.24	R 774.23
May	5	50%	R 173.25	R 216.56	R 249.05	R 298.86	R 343.68	R 395.24	R 454.52	R 522.70	R 601.11	R 691.27
June	5	50%	R 173.25	R 216.56	R 249.05	R 298.86	R 343.68	R 395.24	R 454.52	R 522.70	R 601.11	R 691.27
July	5	50%	R 173.25	R 216.56	R 249.05	R 298.86	R 343.68	R 395.24	R 454.52	R 522.70	R 601.11	R 691.27
August	4	50%	R 138.60	R 173.25	R 199.24	R 239.09	R 274.95	R 316.19	R 363.62	R 418.16	R 480.89	R 553.02
September	3.5	70%	R 169.79	R 212.23	R 244.07	R 292.88	R 336.81	R 387.33	R 445.43	R 512.25	R 589.08	R 677.45
October	3	100%	R 207.90	R 259.88	R 298.86	R 358.63	R 412.42	R 474.28	R 545.43	R 627.24	R 721.33	R 829.53
November	3	100%	R 207.90	R 259.88	R 298.86	R 358.63	R 412.42	R 474.28	R 545.43	R 627.24	R 721.33	R 829.53
December	3	100%	R 207.90	R 259.88	R 298.86	R 358.63	R 412.42	R 474.28	R 545.43	R 627.24	R 721.33	R 829.53
TOTAL ANNUAL SAVINGS			R 2,304.23	R 2,880.28	R 3,312.32	R 3,974.79	R 4,571.01	R 5,256.66	R 6,045.16	R 6,951.93	R 7,994.72	R 9,193.93
ACCUMULATED SAVINGS			R 2,304.23	R 5,184.51	R 8,496.83	R 12,471.62	R 17,042.62	R 22,299.28	R 28,344.44	R 35,296.37	R 43,291.09	R 52,485.01

Retrofit 150 l, 10 Tube System payback time after rebate about 3 ½ years

Full 150 l, 10 Tube System payback time after rebate about 5 years

Element Power in kW **3**

Projected Savings on 200 Liter, 22 Tube Hills Solar System, 2 to 4 people

Month	Electrical Element Hrs/day Without Solar	Solar %	Year 1 -2011	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
January	3	100%	R 277.20	R 346.50	R 398.48	R 478.17	R 549.90	R 632.38	R 727.24	R 836.32	R 961.77	R 1,106.04
February	3	100%	R 277.20	R 346.50	R 398.48	R 478.17	R 549.90	R 632.38	R 727.24	R 836.32	R 961.77	R 1,106.04
March	3.5	100%	R 323.40	R 404.25	R 464.89	R 557.87	R 641.54	R 737.78	R 848.44	R 975.71	R 1,122.07	R 1,290.38
April	3.5	80%	R 258.72	R 323.40	R 371.91	R 446.29	R 513.24	R 590.22	R 678.75	R 780.57	R 897.65	R 1,032.30
May	5	50%	R 231.00	R 288.75	R 332.06	R 398.48	R 458.25	R 526.98	R 606.03	R 696.94	R 801.48	R 921.70
June	5	50%	R 231.00	R 288.75	R 332.06	R 398.48	R 458.25	R 526.98	R 606.03	R 696.94	R 801.48	R 921.70
July	5	50%	R 231.00	R 288.75	R 332.06	R 398.48	R 458.25	R 526.98	R 606.03	R 696.94	R 801.48	R 921.70
August	4	50%	R 184.80	R 231.00	R 265.65	R 318.78	R 366.60	R 421.59	R 484.82	R 557.55	R 641.18	R 737.36
September	3.5	70%	R 226.38	R 282.98	R 325.42	R 390.51	R 449.08	R 516.44	R 593.91	R 683.00	R 785.45	R 903.26
October	3	100%	R 277.20	R 346.50	R 398.48	R 478.17	R 549.90	R 632.38	R 727.24	R 836.32	R 961.77	R 1,106.04
November	3	100%	R 277.20	R 346.50	R 398.48	R 478.17	R 549.90	R 632.38	R 727.24	R 836.32	R 961.77	R 1,106.04
December	3	100%	R 277.20	R 346.50	R 398.48	R 478.17	R 549.90	R 632.38	R 727.24	R 836.32	R 961.77	R 1,106.04
TOTAL ANNUAL SAVINGS			R 3,072.30	R 3,840.38	R 4,416.43	R 5,299.72	R 6,094.68	R 7,008.88	R 8,060.21	R 9,269.24	R 10,659.62	R 12,258.57
ACCUMULATED SAVINGS			R 3,072.30	R 6,912.68	R 11,329.11	R 16,628.82	R 22,723.50	R 29,732.38	R 37,792.58	R 47,061.82	R 57,721.45	R 69,980.02

Retrofit 200 l, 22 Tube System payback time after rebate about 3 ½ years

Full 200 l, 22 Tube System payback time after rebate about 5 years

Element Power in kW **4**

Projected Savings on 300 Liter, 30 Tube Hills Solar System, 4 to 6 people

Month	Electrical Element Hrs/day Without Solar	Solar %	Year 1 -2011	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
January	3	100%	R 346.50	R 433.13	R 498.09	R 597.71	R 687.37	R 790.47	R 909.05	R 1,045.40	R 1,202.21	R 1,382.55
February	3	100%	R 346.50	R 433.13	R 498.09	R 597.71	R 687.37	R 790.47	R 909.05	R 1,045.40	R 1,202.21	R 1,382.55
March	3.5	100%	R 404.25	R 505.31	R 581.11	R 697.33	R 801.93	R 922.22	R 1,060.55	R 1,219.64	R 1,402.58	R 1,612.97
April	3.5	80%	R 323.40	R 404.25	R 464.89	R 557.87	R 641.54	R 737.78	R 848.44	R 975.71	R 1,122.07	R 1,290.38
May	5	50%	R 288.75	R 360.94	R 415.08	R 498.09	R 572.81	R 658.73	R 757.54	R 871.17	R 1,001.84	R 1,152.12
June	5	50%	R 288.75	R 360.94	R 415.08	R 498.09	R 572.81	R 658.73	R 757.54	R 871.17	R 1,001.84	R 1,152.12
July	5	50%	R 288.75	R 360.94	R 415.08	R 498.09	R 572.81	R 658.73	R 757.54	R 871.17	R 1,001.84	R 1,152.12
August	4	50%	R 231.00	R 288.75	R 332.06	R 398.48	R 458.25	R 526.98	R 606.03	R 696.94	R 801.48	R 921.70
September	3.5	70%	R 282.98	R 353.72	R 406.78	R 488.13	R 561.35	R 645.55	R 742.39	R 853.75	R 981.81	R 1,129.08
October	3	100%	R 346.50	R 433.13	R 498.09	R 597.71	R 687.37	R 790.47	R 909.05	R 1,045.40	R 1,202.21	R 1,382.55
November	3	100%	R 346.50	R 433.13	R 498.09	R 597.71	R 687.37	R 790.47	R 909.05	R 1,045.40	R 1,202.21	R 1,382.55
December	3	100%	R 346.50	R 433.13	R 498.09	R 597.71	R 687.37	R 790.47	R 909.05	R 1,045.40	R 1,202.21	R 1,382.55
TOTAL ANNUAL SAVINGS			R 3,840.38	R 4,800.47	R 5,520.54	R 6,624.65	R 7,618.34	R 8,761.10	R 10,075.26	R 11,586.55	R 13,324.53	R 15,323.21
ACCUMULATED SAVINGS			R 3,840.38	R 8,640.84	R 14,161.38	R 20,786.03	R 28,404.37	R 37,165.47	R 47,240.73	R 58,827.28	R 72,151.81	R 87,475.02

Retrofit 300 l, 30 Tube System payback time after rebate about 3 years

Full 300 l, 30 Tube System payback time after rebate about 4 ½ years

Element Power in kW **5**

Electrical Tariff cents/kW hour	2011	2012 + 25%	2013 + 25%	2014 + 20%	2015 + 15%	2016 +15%	2017 + 15%	2017 + 15%	2017 + 15%	2017 + 15%
	0.77	0.96	1.11	1.33	1.53	1.76	2.02	2.32	2.67	3.07

These are estimates only and are subject to variables including:
 - Variances in current hot water system.
 - Differing usage patterns
 - Number of people in household
 - Variance in electrical tariffs