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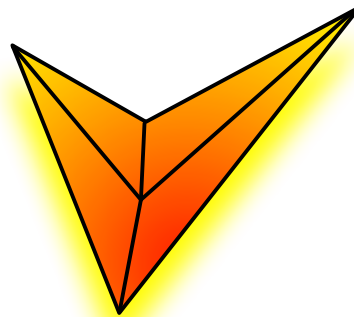
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# Grid Connected Photovoltaic Generator.



## Cost Savings.

Selecting a Grid Connected Photovoltaic Generator can be confusing due to a large number of factors, including how jobs are priced, how systems are advertised, what components are used and what type of feed in tariff is available.

The Queensland Government recently cut the feed in tariff back to \$0.06 / kWh (NET feed in tariff) and while most solar sales people can advise cost savings based on assumptions with a NET feed in tariff, they cannot give much help in working out what **realistic cost savings will be generated for a specific user**, often guessing a percentage of power that **might** be fed to the grid or self used during the day (and in the majority of cases guessing is all they are doing).

I would be very hesitant to invest in an expensive asset such as PV solar based on a guess, luckily there is no need to guess since there is an accurate power meter installed in your meter box which will tell you how much power you use.

Your power bill will tell you the **total** amount of power that you use, however it can not tell you how much power you might feed to the grid during the daytime ( a grid connected PV system can only generate during the daytime when the sun is shining ) and therefore you need to know how much power you use during the daytime before you are able to know how much power you will feed to the grid (or not feed to the grid).

You will need to take the difference of 2 meter readings from your general supply tariff ( tariff 11 ) electricity meter at 8am & 4pm on the same day .

Averaging readings from several days will help to work out your typical “**daytime electricity usage between 8am & 4pm**” .

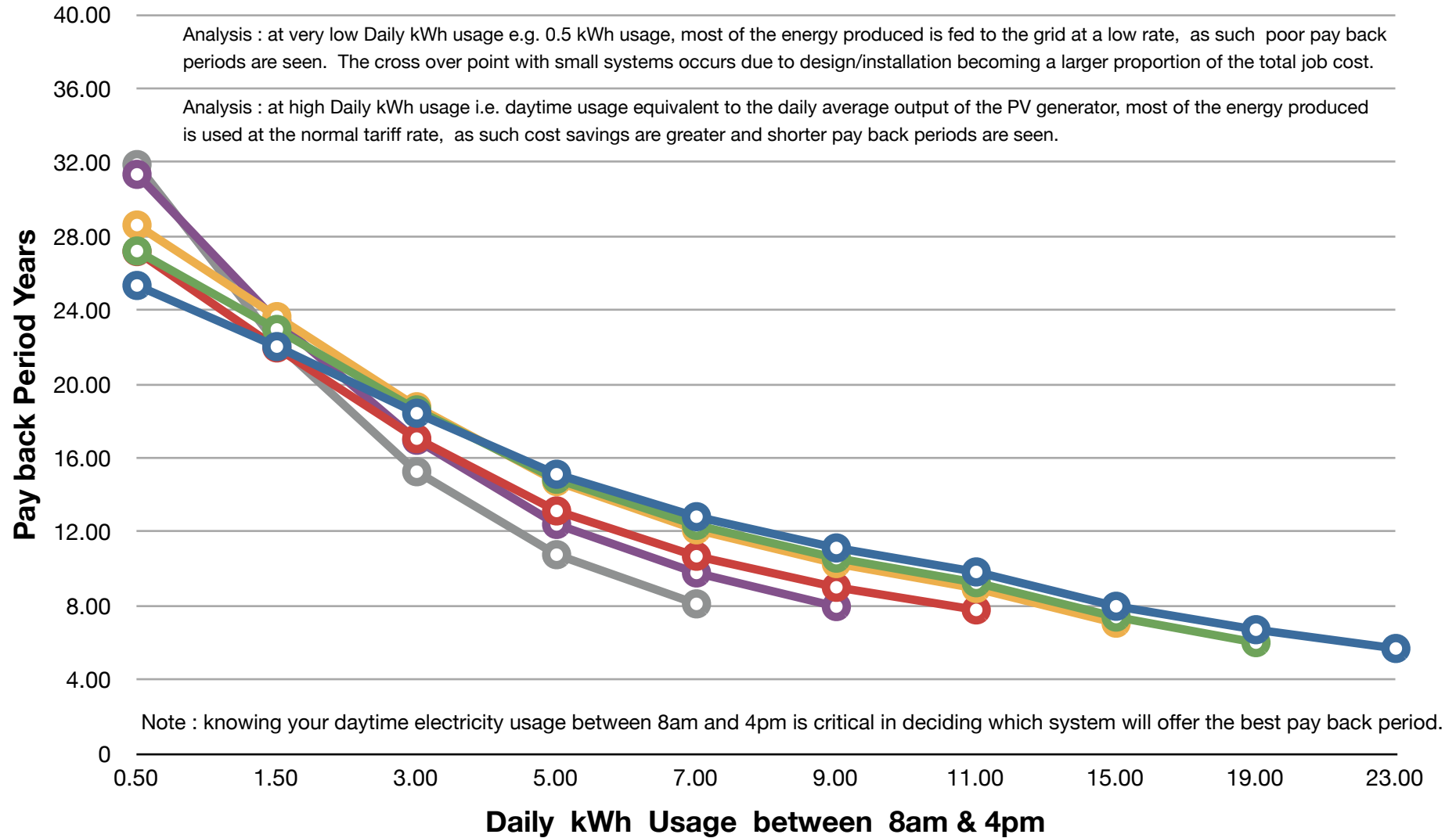
This “daytime electricity usage between 8am & 4pm” is the critical information required to work out how much power will feed to the grid - for which you will be payed a pittance \$0.06 / kWh (unless you can find a retailer which offers a better price for energy fed to the grid).

Due to the feed in tariff being several times less than the amount you pay for electricity, you will notice that the pay back periods are better for smaller systems if your “daytime electricity usage between 8am & 4pm” is between 3kWh to 11 kWh. However, when your “daytime electricity usage between 8am & 4pm” is greater than 11kWh larger systems will have better payback periods. This is why battery systems are now becoming more popular on larger systems, since they collect energy during the day to be used at night time, however this paper is only looking at Non- battery (PV only) systems. Note : quality battery systems are quite expensive, and should ideally be designed for a specific user.

Given that a Grid Connected Photovoltaic Generator should have a life of around 25 years, keeping your payback period under 12 years represents great value for your long term budget.

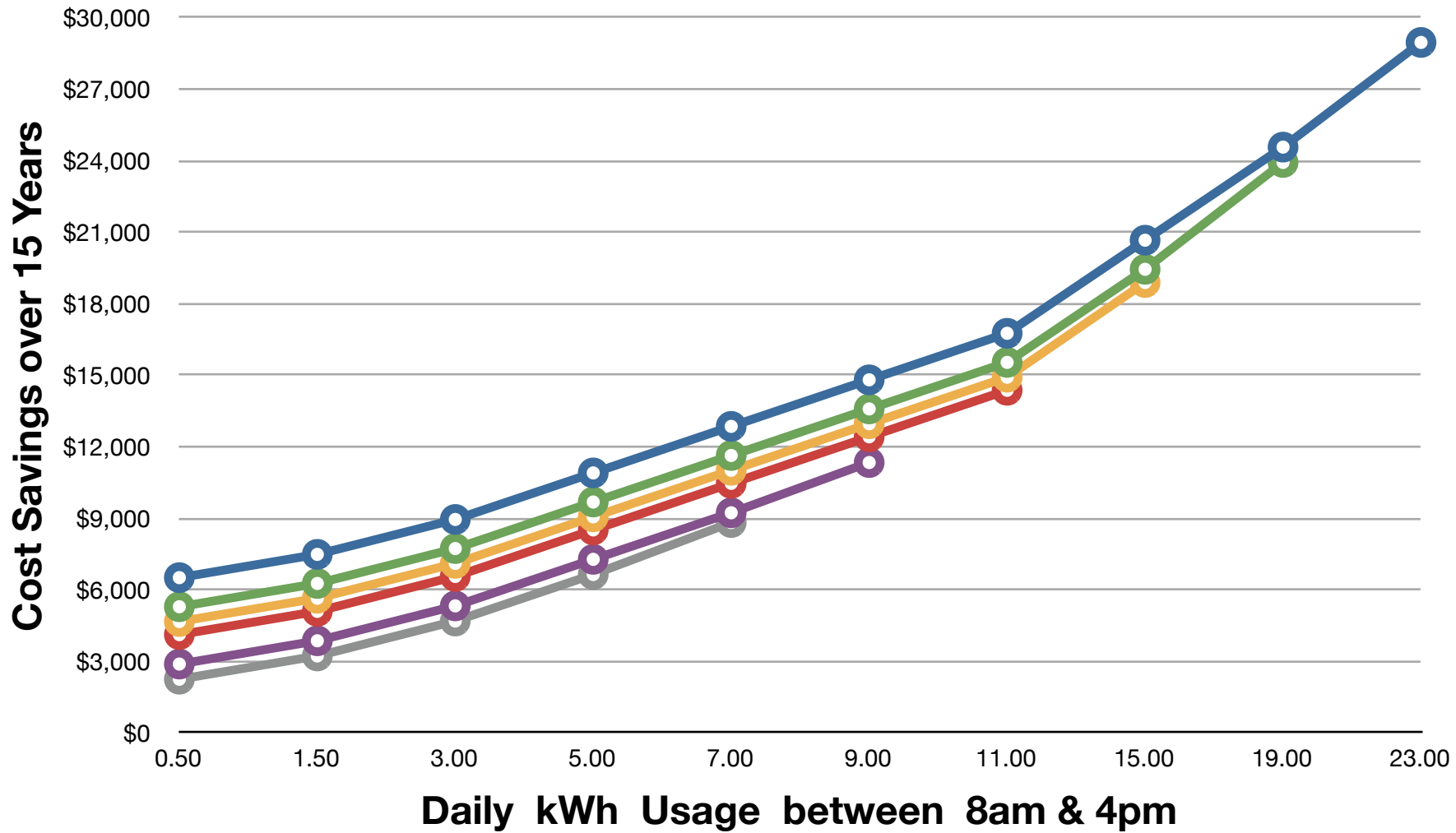
Compare your **measured kWh** (from 8am to 4pm) with those in our tables / graphs and you will get a realistic idea of cost savings for each system.

**All Systems - fixed monocrystalline, optimum orientation, Nil shading. Net Feed intariff @ \$0.06/kWh. Normal tariff @ \$0.26/kWh.**



Legend -      5 kW      4 kW      3.5 kW      3 kW      2 kW      1.5 kW

All Systems - fixed monocrystalline, optimum orientation, Nil shading. Net Feed intariff @ \$0.06/kWh. Normal tariff @ \$0.26/kWh



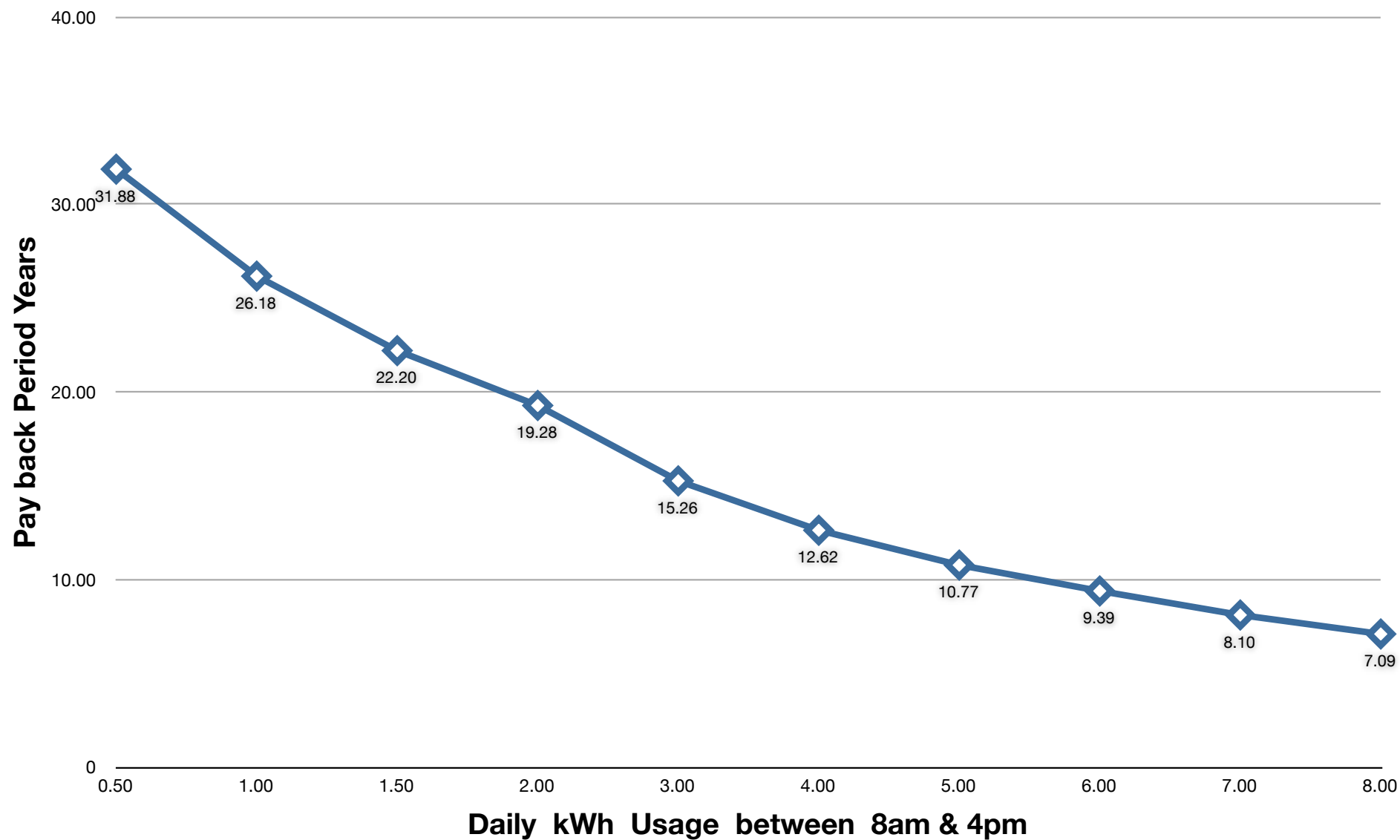
Legend - ○ 5 kW ○ 4 kW ○ 3.5 kW ○ 3 kW ○ 2 kW ○ 1.5 kW

**Projected cost savings - Fixed Monocrystalline Array - Nil Shading, Optimum Orientation**

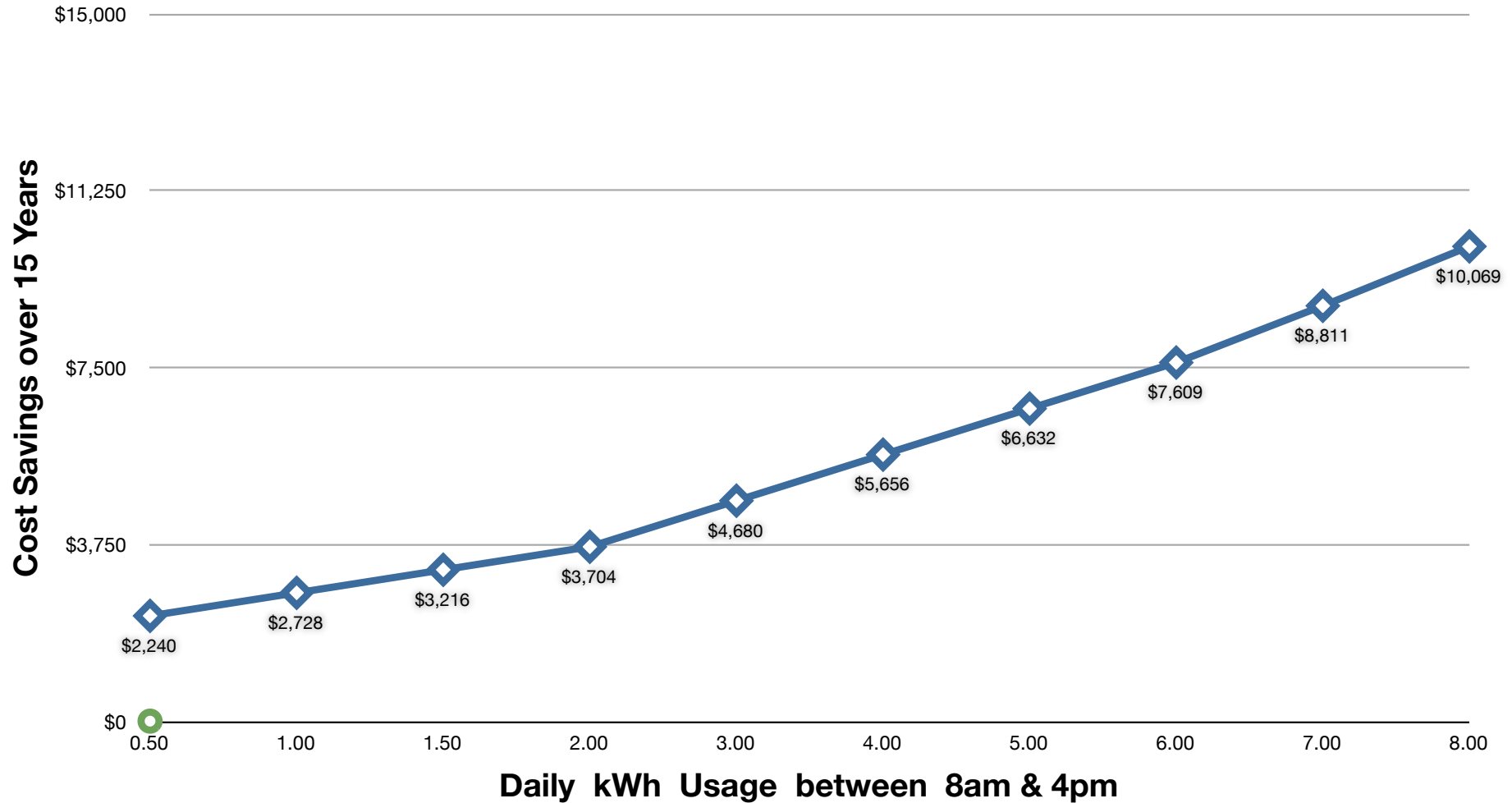
Current Elec Price \$ / kWh	Feed in Rate	Your Daily kWh usage between 8am-4pm	System Size (kW)	Average Daily Output (kWh)	Average Annual Output (kWh)	Difference between usage and Ave Daily kWh 8am-4pm	Annual CO2 Reduction (tonnes)	Direct Annual Cost Saving at 100% self use	Annual NET savings from self use (@current elec \$ / kWh) 8am-4pm usage	Annual Cost Savings from Feed in (8am-4pm)	Annual Cost Savings at Feed in Rate with "Your Daily kWh usage 8am-4pm"	Pay Back period (years)	Cost Savings Total over 15 years	CO2 reduction after 15 years (tonnes)	Cost after REC's : from
\$0.2673	\$0.06	<b>0.50</b>	1.5 kW	6.20	2263	5.70	2.26	\$604.90	\$48.78	\$124.83	<b>\$173.61</b>	31.88	\$2,240	29.19	\$5,535
		<b>1.00</b>	1.5 kW	6.20	2263	5.20	2.26	\$604.90	\$97.56	\$113.88	<b>\$211.44</b>	26.18	\$2,728	29.19	\$5,535
		<b>1.50</b>	1.5 kW	6.20	2263	4.70	2.26	\$604.90	\$146.35	\$102.93	<b>\$249.28</b>	22.20	\$3,216	29.19	\$5,535
		<b>2.00</b>	1.5 kW	6.20	2263	4.20	2.26	\$604.90	\$195.13	\$91.98	<b>\$287.11</b>	19.28	\$3,704	29.19	\$5,535
		<b>3.00</b>	1.5 kW	6.20	2263	3.20	2.26	\$604.90	\$292.69	\$70.08	<b>\$362.77</b>	15.26	\$4,680	29.19	\$5,535
		<b>4.00</b>	1.5 kW	6.20	2263	2.20	2.26	\$604.90	\$390.26	\$48.18	<b>\$438.44</b>	12.62	\$5,656	29.19	\$5,535
		<b>5.00</b>	1.5 kW	6.20	2263	1.20	2.26	\$604.90	\$487.82	\$26.28	<b>\$514.10</b>	10.77	\$6,632	29.19	\$5,535
		<b>6.00</b>	1.5 kW	6.20	2263	0.20	2.26	\$604.90	\$585.39	\$4.38	<b>\$589.77</b>	9.39	\$7,609	29.19	\$5,535
		<b>7.00</b>	1.5 kW	6.20	2263	0.00	2.26	\$604.90	\$682.95	\$0.00	<b>\$682.95</b>	8.10	\$8,811	29.19	\$5,535
		<b>8.00</b>	1.5 kW	6.20	2263	0.00	2.26	\$604.90	\$780.52	\$0.00	<b>\$780.52</b>	7.09	\$10,069	29.19	\$5,535

- **System Output is based on a mean average for the year, for a system with optimum orientation / tilt.**
- **An accurate site survey is required to ensure that correct derating factors are applied.**
- **Daily Outputs will vary depending on the season (may be higher in Summer and lower in Winter) and atmospheric conditions.**
- **15 year projection, includes a reduction in system output of 1% annually (in line with the solar module's guarantee on power output being 90% after 10 years & 80% after 25 years).**
- **Annual Cost Savings may be different than shown in the table due to fluctuations in power usage, these are averaged values.**

## 1.5 kW - fixed monocrystalline, optimum orientation, Nil shading



## 1.5 kW - fixed monocrystalline, optimum orientation, Nil shading



The more power you use between 8am & 4pm, the greater the cost savings will be, which reduces your payback time.

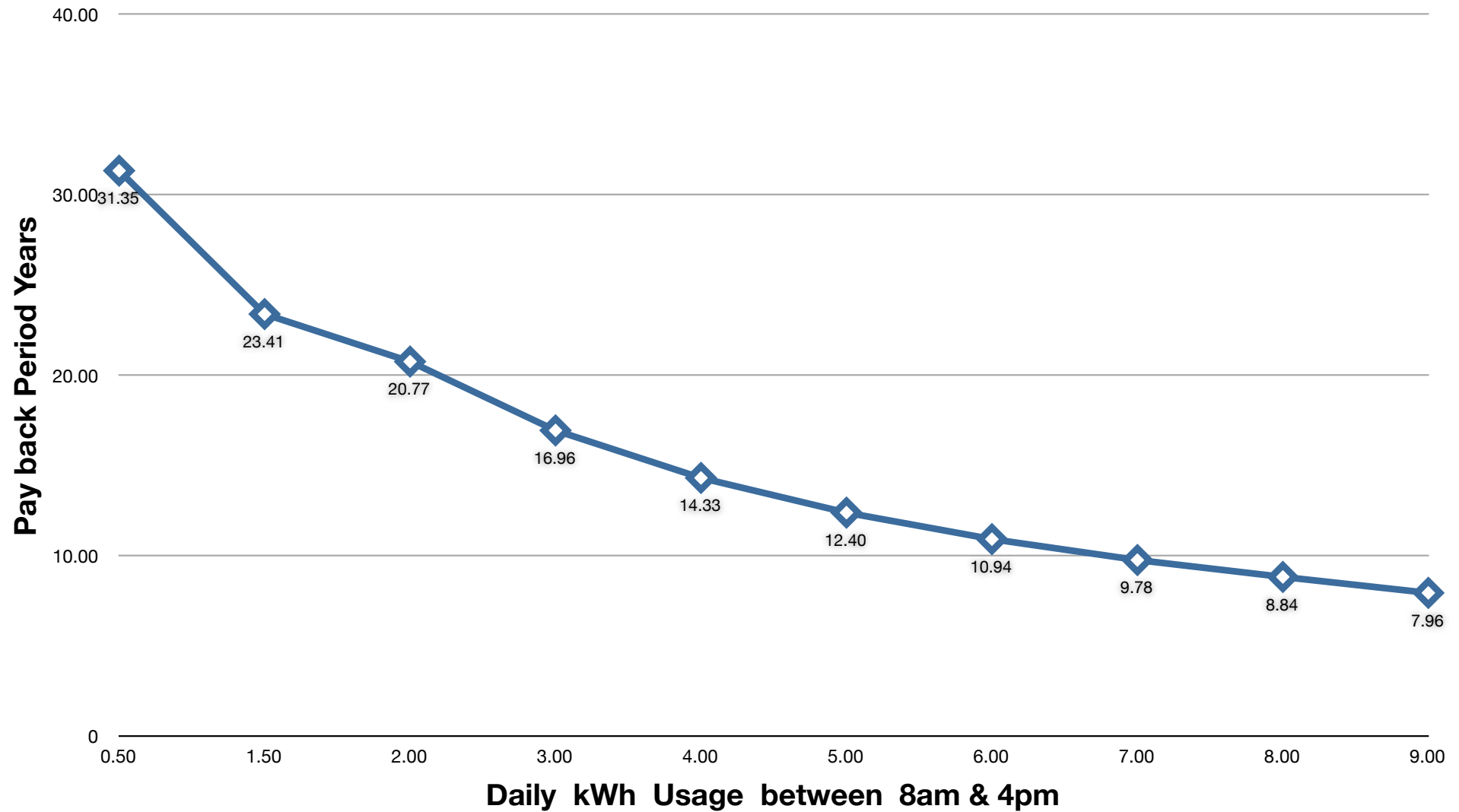
**Projected cost savings - Fixed Monocrystalline Array - Nil Shading, Optimum Orientation**

Current Elec Price \$ / kWh	Feed in Rate	Your Daily kWh usage between 8am-4pm	System Size (kW)	Average Daily Output (kWh)	Average Annual Output (kWh)	Difference between usage and Ave Daily kWh 8am-4pm	Annual CO2 Reduction (tonnes)	Direct Annual Cost Saving at 100% self use	Annual NET savings from self use (@current elec \$ / kWh) 8am-4pm usage	Annual Cost Savings from Feed in (8am-4pm)	Annual Cost Savings at Feed in Rate with "Your Daily kWh usage 8am-4pm"	Pay Back period (years)	Cost Savings Total over 15 years	CO2 reduction after 15 years (tonnes)	Cost after REC's : from
\$0.2673	\$0.06	<b>0.50</b>	2 kW	8.45	3084	7.95	3.08	\$824.42	\$48.78	\$174.11	<b>\$222.89</b>	31.35	\$2,875	39.79	\$6,988
		<b>1.50</b>	2 kW	8.45	3084	6.95	3.08	\$824.42	\$146.35	\$152.21	<b>\$298.55</b>	23.41	\$3,852	39.79	\$6,988
		<b>2.00</b>	2 kW	8.45	3084	6.45	3.08	\$824.42	\$195.13	\$141.26	<b>\$336.38</b>	20.77	\$4,340	39.79	\$6,988
		<b>3.00</b>	2 kW	8.45	3084	5.45	3.08	\$824.42	\$292.69	\$119.36	<b>\$412.05</b>	16.96	\$5,316	39.79	\$6,988
		<b>4.00</b>	2 kW	8.45	3084	4.45	3.08	\$824.42	\$390.26	\$97.46	<b>\$487.71</b>	14.33	\$6,292	39.79	\$6,988
		<b>5.00</b>	2 kW	8.45	3084	3.45	3.08	\$824.42	\$487.82	\$75.56	<b>\$563.38</b>	12.40	\$7,268	39.79	\$6,988
		<b>6.00</b>	2 kW	8.45	3084	2.45	3.08	\$824.42	\$585.39	\$53.66	<b>\$639.04</b>	10.94	\$8,244	39.79	\$6,988
		<b>7.00</b>	2 kW	8.45	3084	1.45	3.08	\$824.42	\$682.95	\$31.76	<b>\$714.71</b>	9.78	\$9,220	39.79	\$6,988
		<b>8.00</b>	2 kW	8.45	3084	0.45	3.08	\$824.42	\$780.52	\$9.85	<b>\$790.37</b>	8.84	\$10,196	39.79	\$6,988
		<b>9.00</b>	2 kW	8.45	3084	0.00	3.08	\$824.42	\$878.08	\$0.00	<b>\$878.08</b>	7.96	\$11,328	39.79	\$6,988

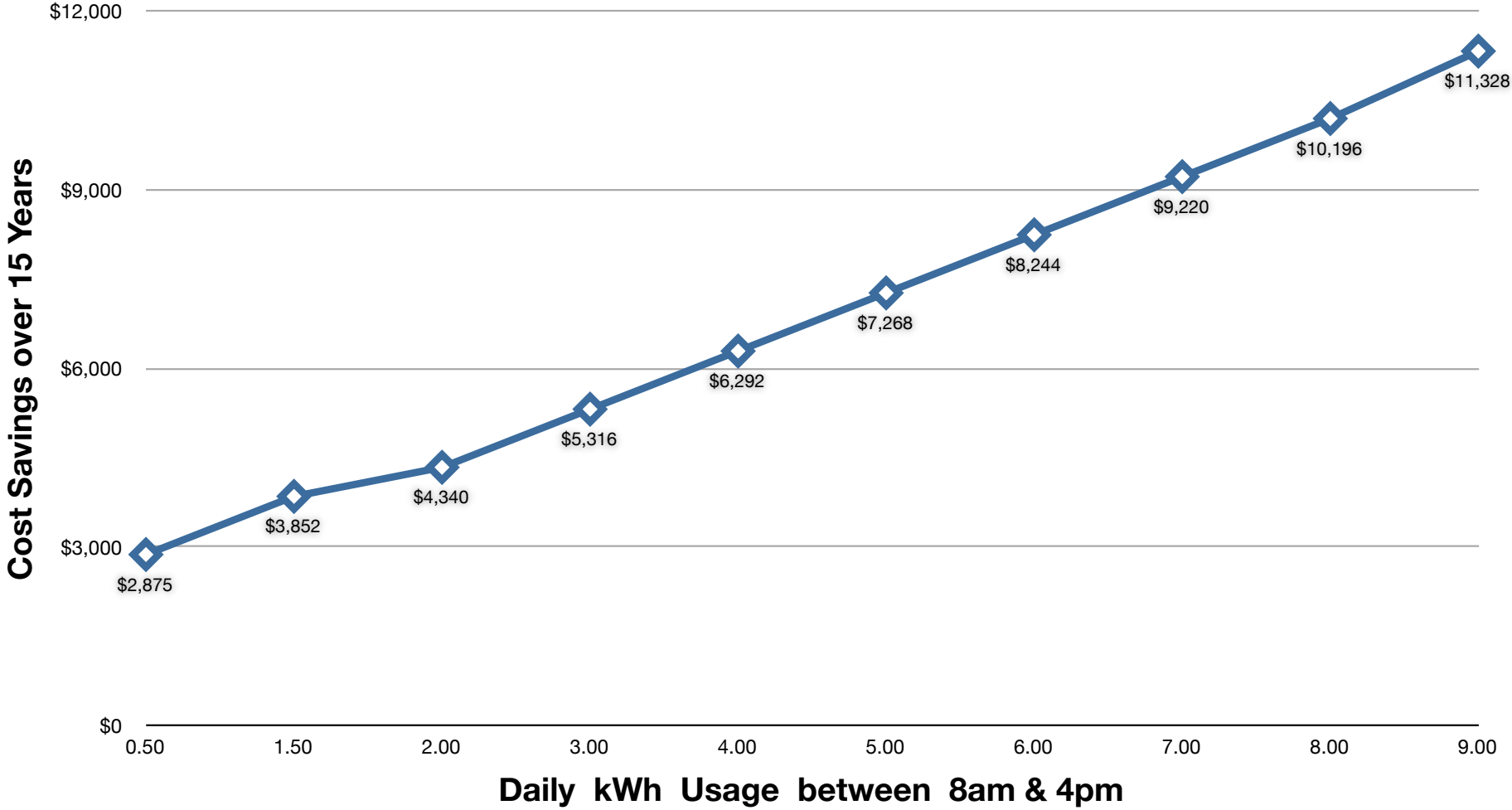
- **System Output is based on a mean average for the year, for a system with optimum orientation / tilt.**
- **An accurate site survey is required to ensure that correct derating factors are applied.**
- **Daily Outputs will vary depending on the season (may be higher in Summer and lower in Winter) and atmospheric conditions.**
- **15 year projection, includes a reduction in system output of 1% annually (in line with the solar module's guarantee on power output being 90% after 10 years & 80% after 25 years).**
- **Annual Cost Savings may be different than shown in the table due to fluctuations in power usage, these are averaged values.**



## 2 kW - fixed monocrystalline, optimum orientation, Nil shading



### 2 kW - fixed monocrystalline, optimum orientation, Nil shading



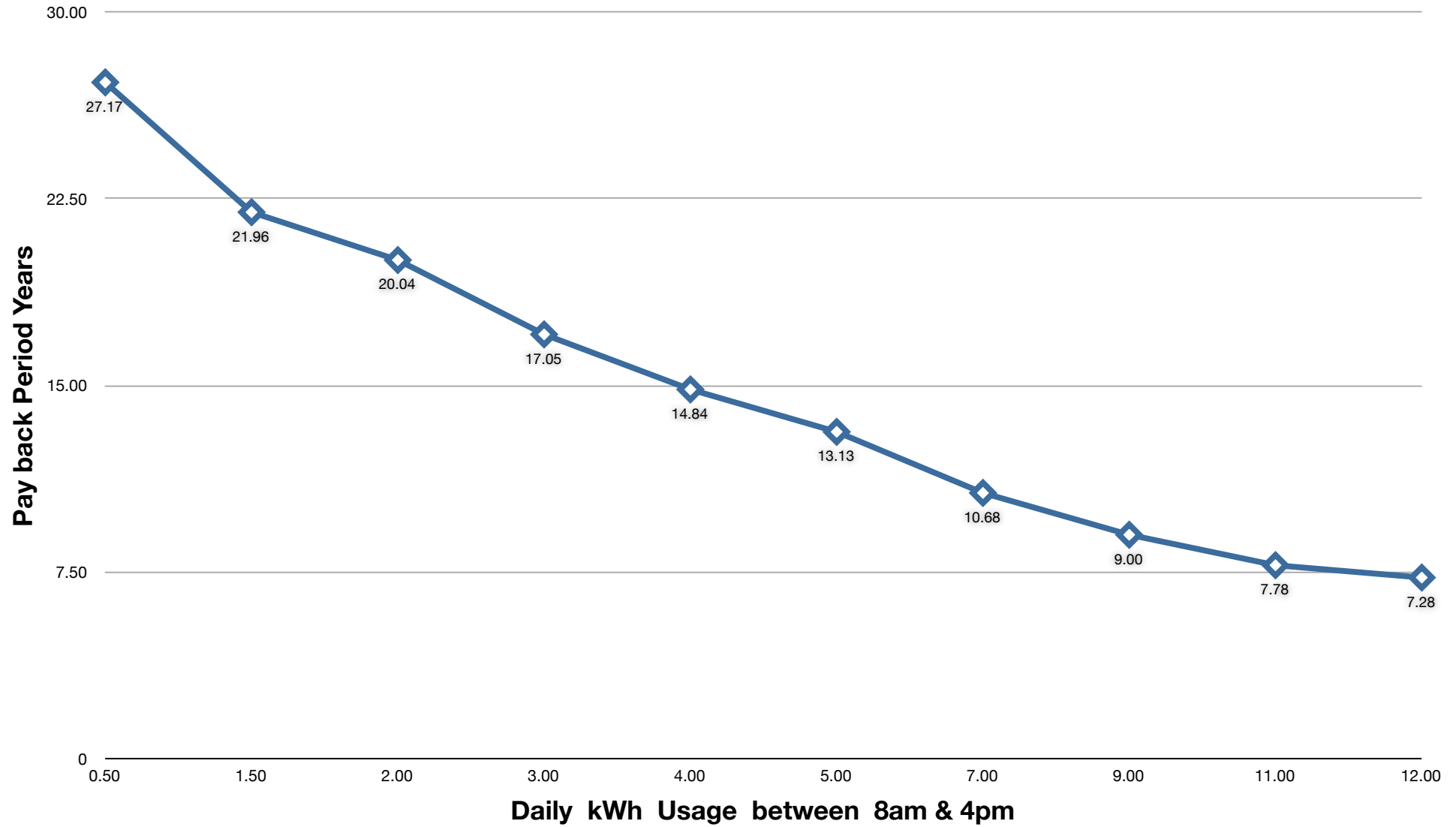
The more power you use between 8am & 4pm, the greater the cost savings will be, which reduces your payback time.

**Projected cost savings - Fixed Monocrystalline Array - Nil Shading, Optimum Orientation**

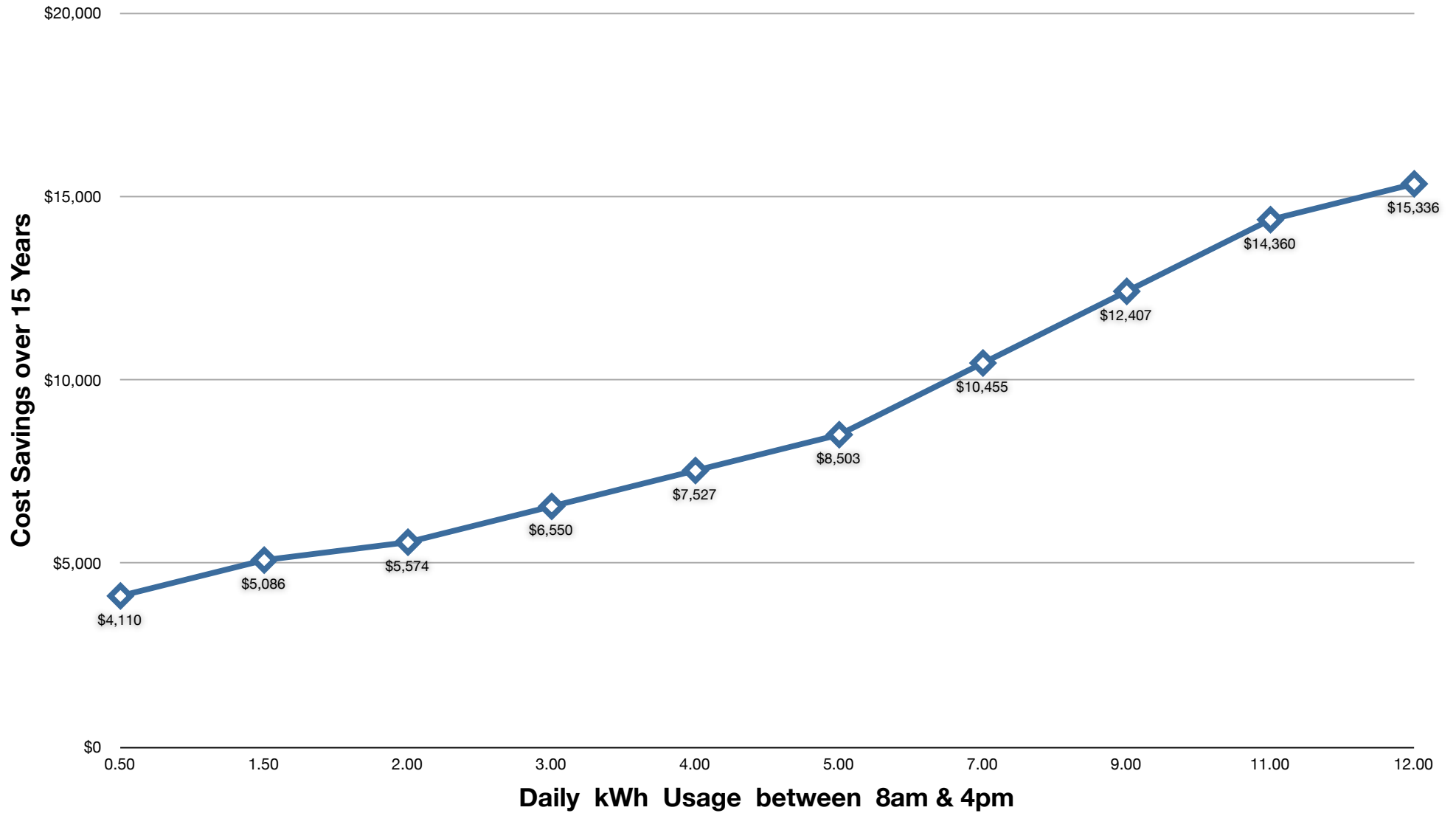
Current Elec Price \$ / kWh	Feed in Rate	Your Daily kWh usage between 8am-4pm	System Size (kW)	Average Daily Output (kWh)	Average Annual Output (kWh)	Difference between usage and Ave Daily kWh 8am-4pm	Annual CO2 Reduction (tonnes)	Direct Annual Cost Saving at 100% self use	Annual NET savings from self use (@current elec \$ / kWh)	Annual Cost Savings from Feed in	Annual Cost Savings at Feed in Rate with "Your Daily kWh usage 8am-4pm"	Pay Back period (years)	Cost Savings Total over 15 years	CO2 reduction after 15 years (tonnes)	Cost after REC's : from
\$0.2673	\$0.06	0.50	3 kW	12.82	4679	12.32	4.68	\$1,250.78	\$48.78	\$269.81	<b>\$318.59</b>	27.17	\$4,110	60.37	\$8,657
		1.50	3 kW	12.82	4679	11.32	4.68	\$1,250.78	\$146.35	\$247.91	<b>\$394.25</b>	21.96	\$5,086	60.37	\$8,657
		2.00	3 kW	12.82	4679	10.82	4.68	\$1,250.78	\$195.13	\$236.96	<b>\$432.09</b>	20.04	\$5,574	60.37	\$8,657
		3.00	3 kW	12.82	4679	9.82	4.68	\$1,250.78	\$292.69	\$215.06	<b>\$507.75</b>	17.05	\$6,550	60.37	\$8,657
		4.00	3 kW	12.82	4679	8.82	4.68	\$1,250.78	\$390.26	\$193.16	<b>\$583.42</b>	14.84	\$7,527	60.37	\$8,657
		5.00	3 kW	12.82	4679	7.82	4.68	\$1,250.78	\$487.82	\$171.26	<b>\$659.08</b>	13.13	\$8,503	60.37	\$8,657
		7.00	3 kW	12.82	4679	5.82	4.68	\$1,250.78	\$682.95	\$127.46	<b>\$810.41</b>	10.68	\$10,455	60.37	\$8,657
		9.00	3 kW	12.82	4679	3.82	4.68	\$1,250.78	\$878.08	\$83.66	<b>\$961.74</b>	9.00	\$12,407	60.37	\$8,657
		11.00	3 kW	12.82	4679	1.82	4.68	\$1,250.78	\$1,073.21	\$39.86	<b>\$1,113.07</b>	7.78	\$14,360	60.37	\$8,657
		12.00	3 kW	12.82	4679	0.82	4.68	\$1,250.78	\$1,170.77	\$17.96	<b>\$1,188.73</b>	7.28	\$15,336	60.37	\$8,657

- **System Output is based on a mean average for the year, for a system with optimum orientation / tilt.**
- **An accurate site survey is required to ensure that correct derating factors are applied.**
- **Daily Outputs will vary depending on the season (may be higher in Summer and lower in Winter) and atmospheric conditions.**
- **15 year projection, includes a reduction in system output of 1% annually (in line with the solar module's guarantee on power output being 90% after 10 years & 80% after 25 years).**
- **Annual Cost Savings may be different than shown in the table due to fluctuations in power usage, these are averaged values.**

### 3 kW - fixed monocrystalline, optimum orientation, Nil shading



### 3 kW - fixed monocrystalline, optimum orientation, Nil shading



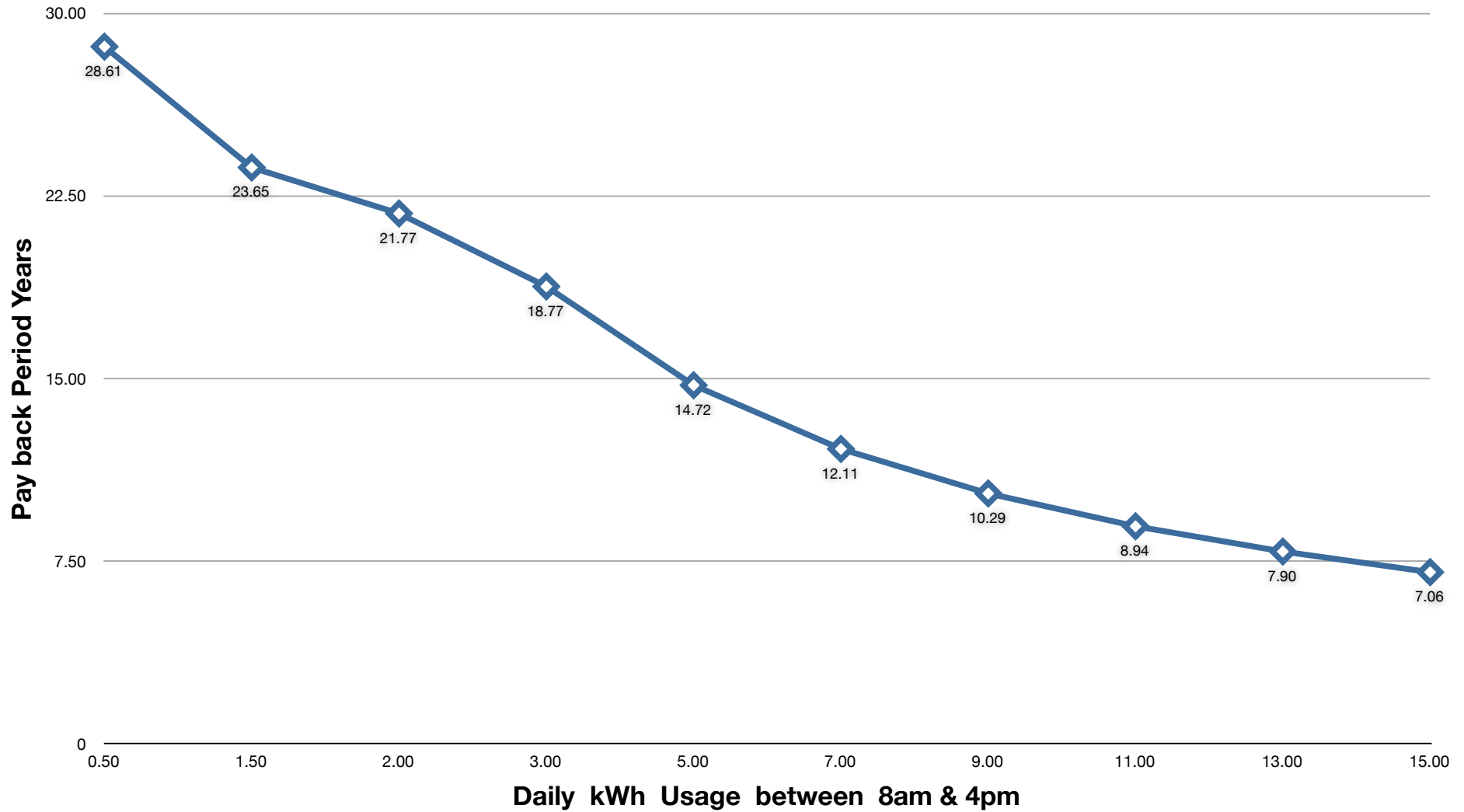
The more power you use between 8am & 4pm, the greater the cost savings will be, which reduces your payback time.

**Projected cost savings - Fixed Monocrystalline Array - Nil Shading, Optimum Orientation**

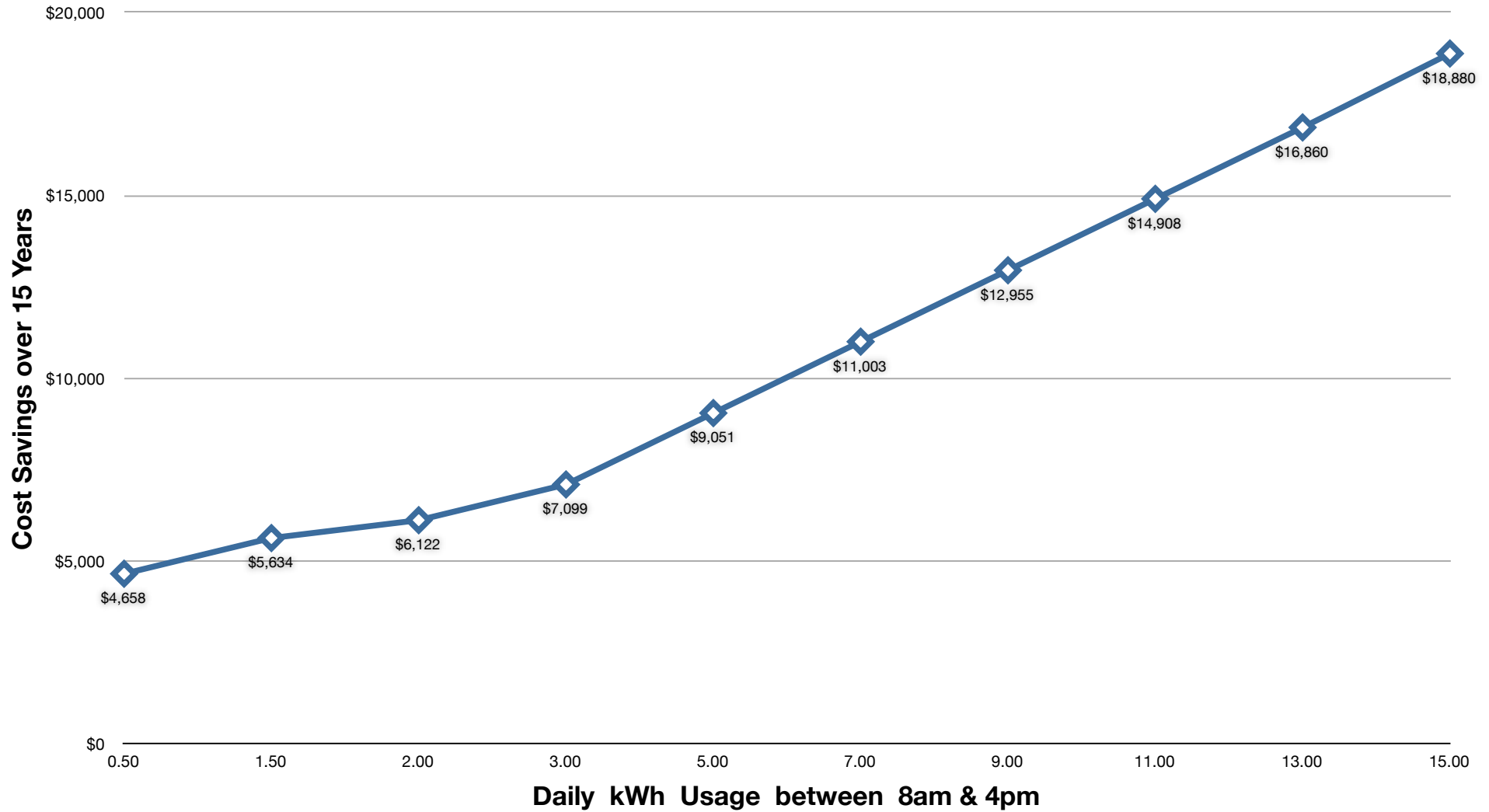
Current Elec Price \$ / kWh	Feed in Rate	Your Daily kWh usage between 8am-4pm	System Size (kW)	Average Daily Output (kWh)	Average Annual Output (kWh)	Difference between usage and Ave Daily kWh 8am-4pm	Annual CO2 Reduction (tonnes)	Direct Annual Cost Saving at 100% self use	Annual NET savings from self use (@current elec \$ / kWh)	Annual Cost Savings from Feed in	Annual Cost Savings at Feed in Rate with "Your Daily kWh usage 8am-4pm"	Pay Back period (years)	Cost Savings Total over 15 years	CO2 reduction after 15 years (tonnes)	Cost after REC's : from
\$0.2673	\$0.06	<b>0.50</b>	3.5 kW	14.76	5387	14.26	5.39	\$1,440.05	\$48.78	\$312.29	<b>\$361.08</b>	28.61	\$4,658	69.50	\$10,330
		<b>1.50</b>	3.5 kW	14.76	5387	13.26	5.39	\$1,440.05	\$146.35	\$290.39	<b>\$436.74</b>	23.65	\$5,634	69.50	\$10,330
		<b>2.00</b>	3.5 kW	14.76	5387	12.76	5.39	\$1,440.05	\$195.13	\$279.44	<b>\$474.57</b>	21.77	\$6,122	69.50	\$10,330
		<b>3.00</b>	3.5 kW	14.76	5387	11.76	5.39	\$1,440.05	\$292.69	\$257.54	<b>\$550.24</b>	18.77	\$7,099	69.50	\$10,330
		<b>5.00</b>	3.5 kW	14.76	5387	9.76	5.39	\$1,440.05	\$487.82	\$213.74	<b>\$701.57</b>	14.72	\$9,051	69.50	\$10,330
		<b>7.00</b>	3.5 kW	14.76	5387	7.76	5.39	\$1,440.05	\$682.95	\$169.94	<b>\$852.90</b>	12.11	\$11,003	69.50	\$10,330
		<b>9.00</b>	3.5 kW	14.76	5387	5.76	5.39	\$1,440.05	\$878.08	\$126.14	<b>\$1,004.22</b>	10.29	\$12,955	69.50	\$10,330
		<b>11.00</b>	3.5 kW	14.76	5387	3.76	5.39	\$1,440.05	\$1,073.21	\$82.34	<b>\$1,155.55</b>	8.94	\$14,908	69.50	\$10,330
		<b>13.00</b>	3.5 kW	14.76	5387	1.76	5.39	\$1,440.05	\$1,268.34	\$38.54	<b>\$1,306.88</b>	7.90	\$16,860	69.50	\$10,330
		<b>15.00</b>	3.5 kW	14.76	5387	0.00	5.39	\$1,440.05	\$1,463.47	\$0.00	<b>\$1,463.47</b>	7.06	\$18,880	69.50	\$10,330

- **System Output is based on a mean average for the year, for a system with optimum orientation / tilt.**
- **An accurate site survey is required to ensure that correct derating factors are applied.**
- **Daily Outputs will vary depending on the season (may be higher in Summer and lower in Winter) and atmospheric conditions.**
- **15 year projection, includes a reduction in system output of 1% annually (in line with the solar module's guarantee on power output being 90% after 10 years & 80% after 25 years).**
- **Annual Cost Savings may be different than shown in the table due to fluctuations in power usage, these are averaged values.**

### 3.5 kW - fixed monocrystalline, optimum orientation, Nil shading



### 3.5 kW - fixed monocrystalline, optimum orientation, Nil shading



The more power you use between 8am & 4pm, the greater the cost savings will be, which reduces your payback time.

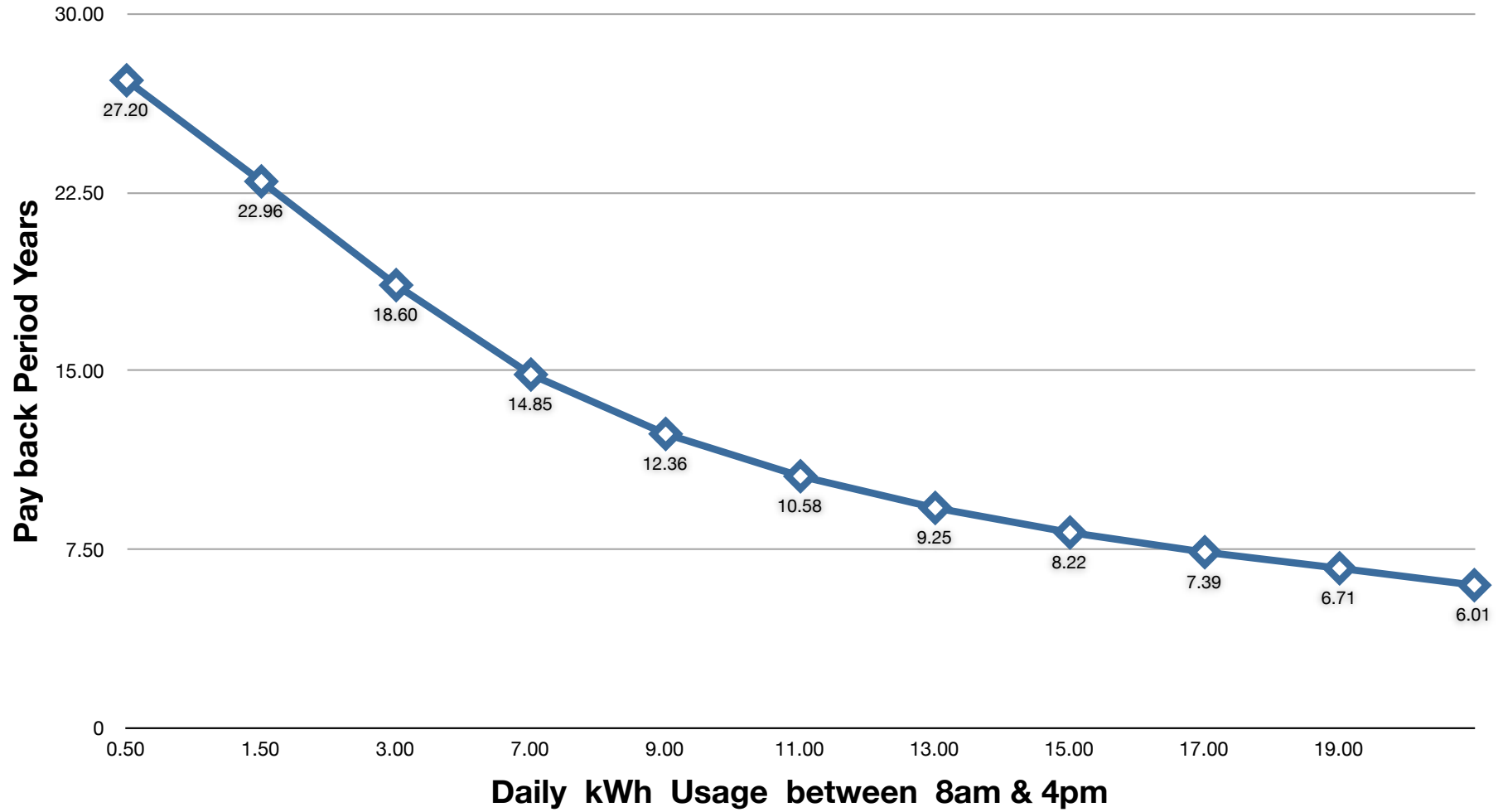


**Projected cost savings - Fixed Monocrystalline Array - Nil Shading, Optimum Orientation**

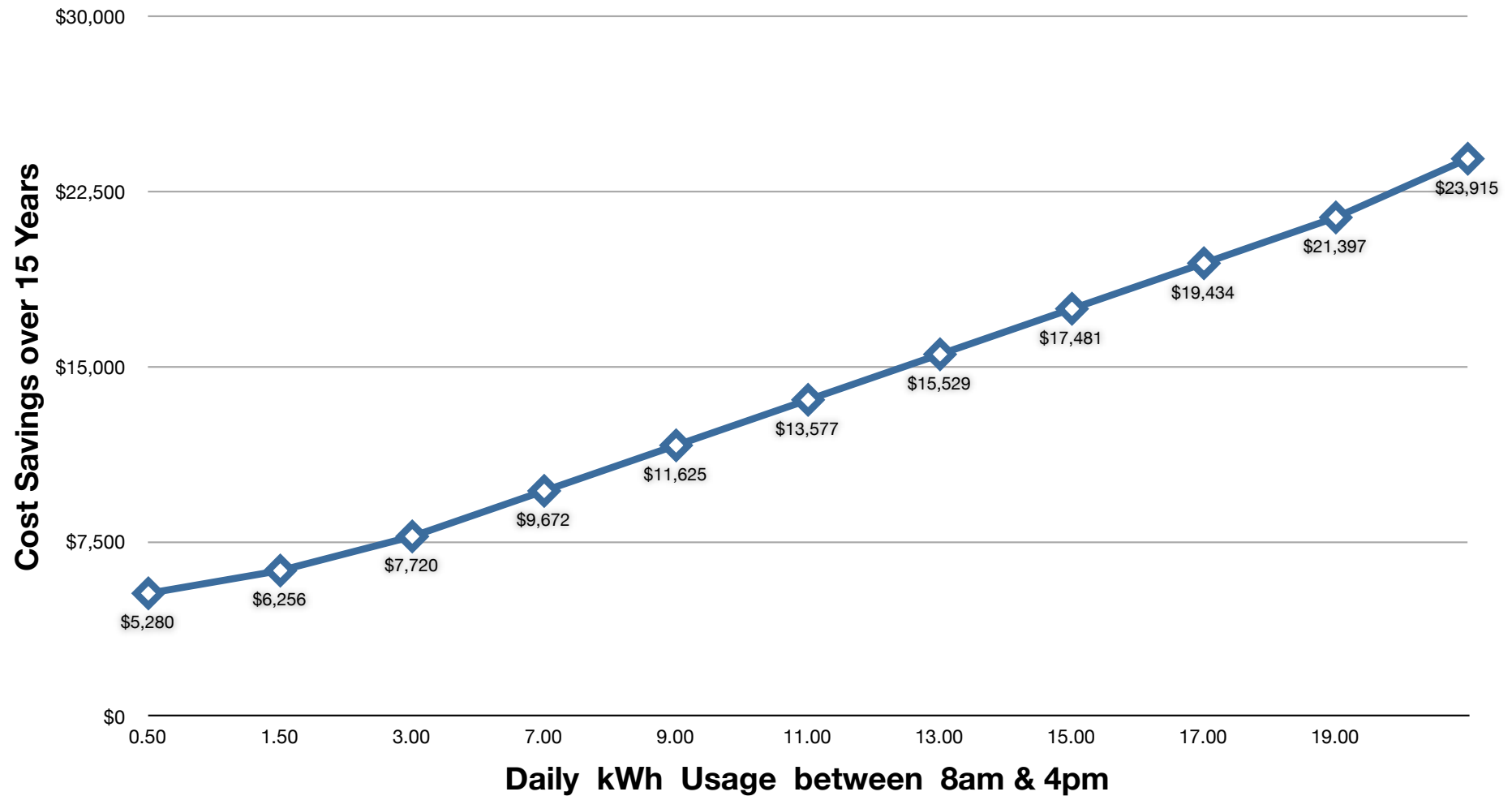
Current Elec Price \$ / kWh	Feed in Rate	Your Daily kWh usage between 8am-4pm	System Size (kW)	Average Daily Output (kWh)	Average Annual Output (kWh)	Difference between usage and Ave Daily kWh 8am-4pm	Annual CO2 Reduction (tonnes)	Direct Annual Cost Saving at 100% self use	Annual NET savings from self use (@current elec \$ / kWh)	Annual Cost Savings from Feed in	Annual Cost Savings at Feed in Rate with "Your Daily kWh usage 8am-4pm"	Pay Back period (years)	Cost Savings Total over 15 years	CO2 reduction after 15 years (tonnes)	Cost after REC's : from
\$0.2673	\$0.06	<b>0.50</b>	4 kW	16.96	6190	16.46	6.19	\$1,654.69	\$48.78	\$360.47	<b>\$409.26</b>	27.20	\$5,280	79.86	\$11,133
		<b>1.50</b>	4 kW	16.96	6190	15.46	6.19	\$1,654.69	\$146.35	\$338.57	<b>\$484.92</b>	22.96	\$6,256	79.86	\$11,133
		<b>3.00</b>	4 kW	16.96	6190	13.96	6.19	\$1,654.69	\$292.69	\$305.72	<b>\$598.42</b>	18.60	\$7,720	79.86	\$11,133
		<b>5.00</b>	4 kW	16.96	6190	11.96	6.19	\$1,654.69	\$487.82	\$261.92	<b>\$749.75</b>	14.85	\$9,672	79.86	\$11,133
		<b>7.00</b>	4 kW	16.96	6190	9.96	6.19	\$1,654.69	\$682.95	\$218.12	<b>\$901.08</b>	12.36	\$11,625	79.86	\$11,133
		<b>9.00</b>	4 kW	16.96	6190	7.96	6.19	\$1,654.69	\$878.08	\$174.32	<b>\$1,052.40</b>	10.58	\$13,577	79.86	\$11,133
		<b>11.00</b>	4 kW	16.96	6190	5.96	6.19	\$1,654.69	\$1,073.21	\$130.52	<b>\$1,203.73</b>	9.25	\$15,529	79.86	\$11,133
		<b>13.00</b>	4 kW	16.96	6190	3.96	6.19	\$1,654.69	\$1,268.34	\$86.72	<b>\$1,355.06</b>	8.22	\$17,481	79.86	\$11,133
		<b>15.00</b>	4 kW	16.96	6190	1.96	6.19	\$1,654.69	\$1,463.47	\$42.92	<b>\$1,506.39</b>	7.39	\$19,434	79.86	\$11,133
		<b>17.00</b>	4 kW	16.96	6190	0.00	6.19	\$1,654.69	\$1,658.60	\$0.00	<b>\$1,658.60</b>	6.71	\$21,397	79.86	\$11,133
		<b>19.00</b>	4 kW	16.96	6190	0.00	6.19	\$1,654.69	\$1,853.73	\$0.00	<b>\$1,853.73</b>	6.01	\$23,915	79.86	\$11,133

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### 4 kW - fixed monocrystalline, optimum orientation, Nil shading



### 4 kW - fixed monocrystalline, optimum orientation, Nil shading



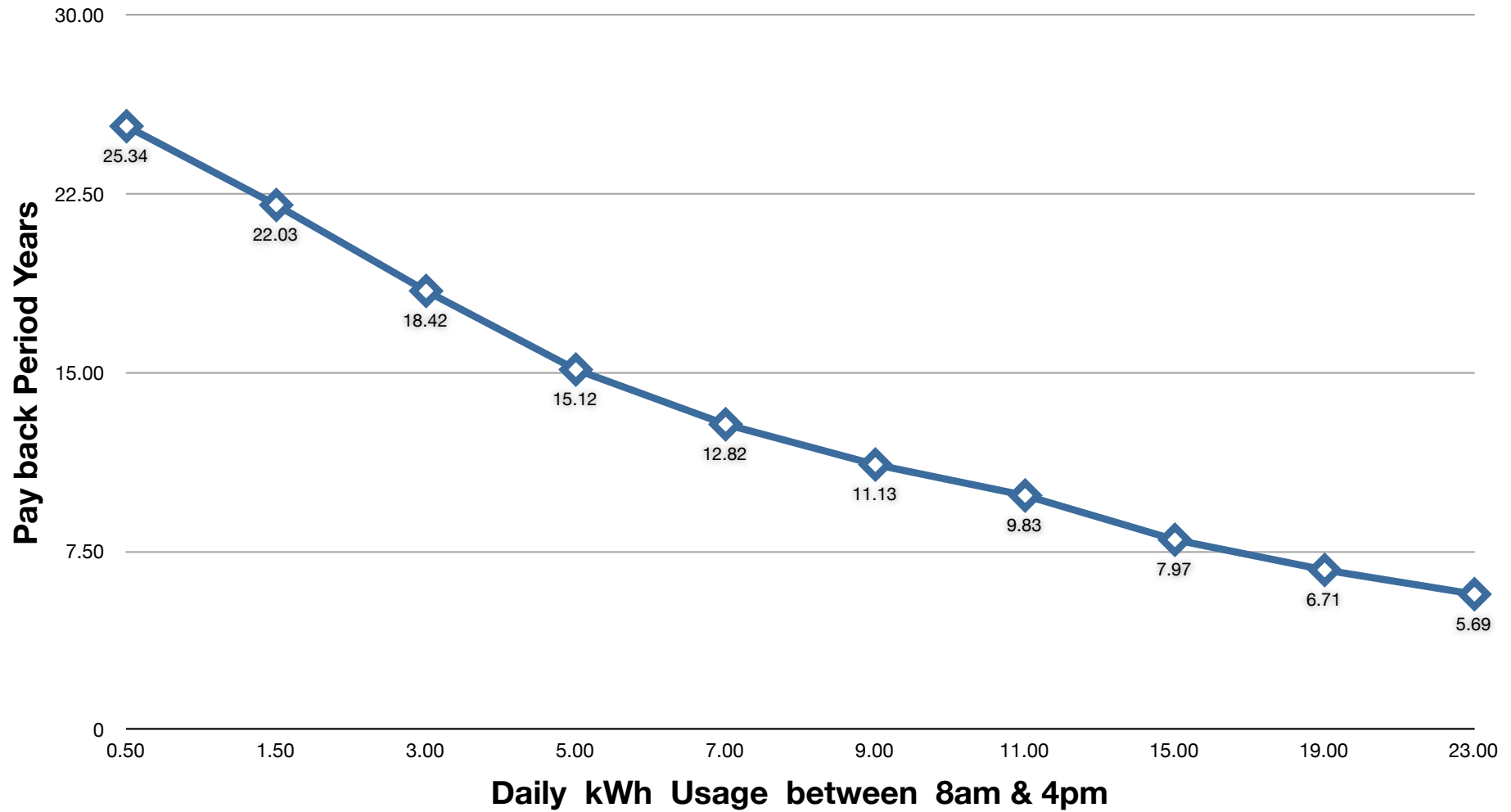
The more power you use between 8am & 4pm, the greater the cost savings will be, which reduces your payback time.

**Projected cost savings - Fixed Monocrystalline Array - Nil Shading, Optimum Orientation**

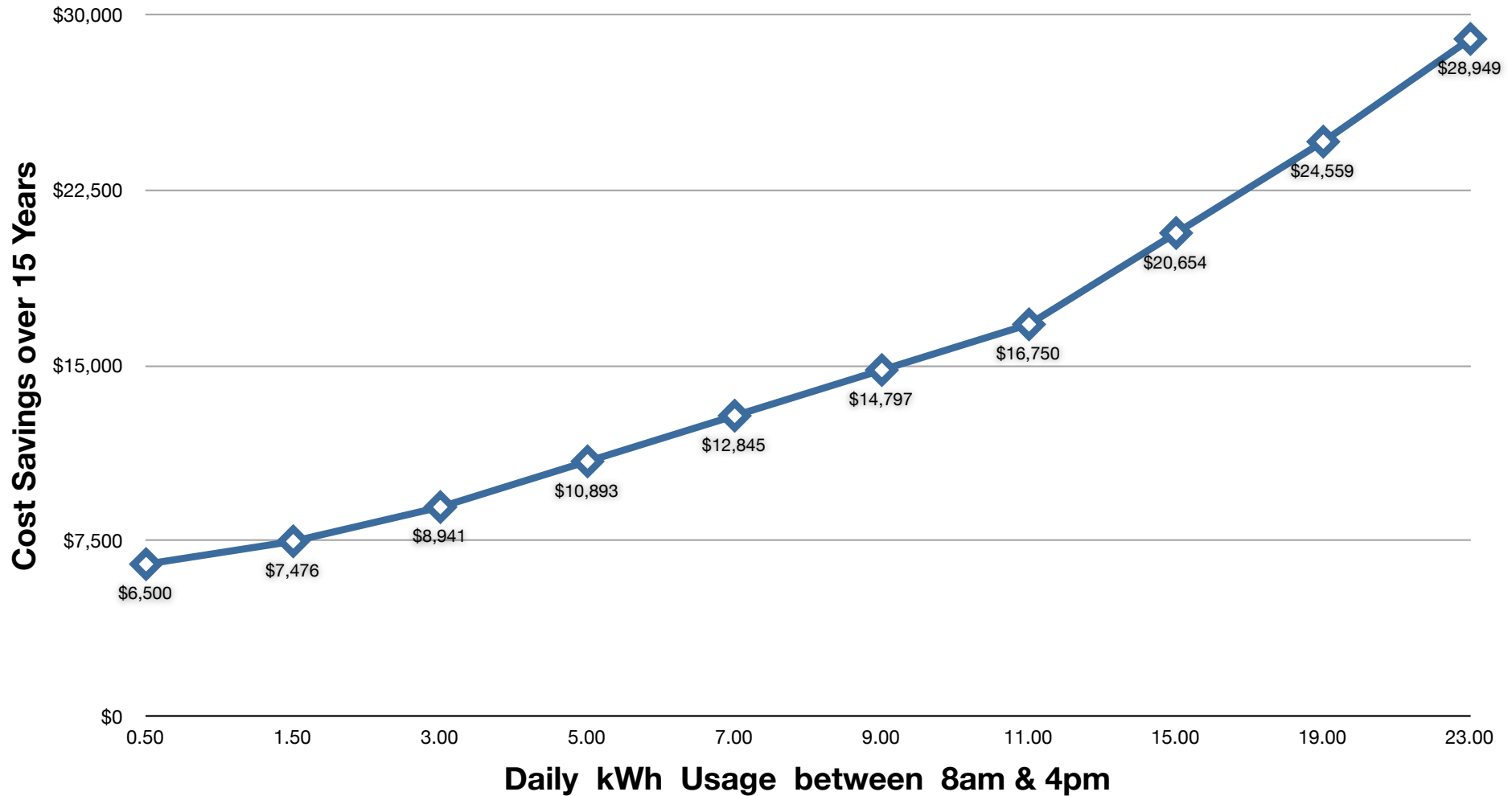
Current Elec Price \$ / kWh	Feed in Rate	Your Daily kWh usage between 8am-4pm	System Size (kW)	Average Daily Output (kWh)	Average Annual Output (kWh)	Difference between usage and Ave Daily kWh 8am-4pm	Annual CO2 Reduction (tonnes)	Direct Annual Cost Saving at 100% self use	Annual NET savings from self use (@current elec \$ / kWh)	Annual Cost Savings from Feed in	Annual Cost Savings at Feed in Rate with "Your Daily kWh usage 8am-4pm"	Pay Back period (years)	Cost Savings Total over 15 years	CO2 reduction after 15 years (tonnes)	Cost after REC's : from
\$0.2673	\$0.06	<b>0.50</b>	5 kW	21.28	7767	20.78	7.77	\$2,076.17	\$48.78	\$455.08	<b>\$503.86</b>	25.34	\$6,500	100.20	\$12,767
		<b>1.50</b>	5 kW	21.28	7767	19.78	7.77	\$2,076.17	\$146.35	\$433.18	<b>\$579.53</b>	22.03	\$7,476	100.20	\$12,767
		<b>3.00</b>	5 kW	21.28	7767	18.28	7.77	\$2,076.17	\$292.69	\$400.33	<b>\$693.03</b>	18.42	\$8,941	100.20	\$12,767
		<b>5.00</b>	5 kW	21.28	7767	16.28	7.77	\$2,076.17	\$487.82	\$356.53	<b>\$844.35</b>	15.12	\$10,893	100.20	\$12,767
		<b>7.00</b>	5 kW	21.28	7767	14.28	7.77	\$2,076.17	\$682.95	\$312.73	<b>\$995.68</b>	12.82	\$12,845	100.20	\$12,767
		<b>9.00</b>	5 kW	21.28	7767	12.28	7.77	\$2,076.17	\$878.08	\$268.93	<b>\$1,147.01</b>	11.13	\$14,797	100.20	\$12,767
		<b>11.00</b>	5 kW	21.28	7767	10.28	7.77	\$2,076.17	\$1,073.21	\$225.13	<b>\$1,298.34</b>	9.83	\$16,750	100.20	\$12,767
		<b>15.00</b>	5 kW	21.28	7767	6.28	7.77	\$2,076.17	\$1,463.47	\$137.53	<b>\$1,601.00</b>	7.97	\$20,654	100.20	\$12,767
		<b>19.00</b>	5 kW	21.28	7767	2.28	7.77	\$2,076.17	\$1,853.73	\$49.93	<b>\$1,903.66</b>	6.71	\$24,559	100.20	\$12,767
		<b>23.00</b>	5 kW	21.28	7767	0.00	7.77	\$2,076.17	\$2,243.98	\$0.00	<b>\$2,243.98</b>	5.69	\$28,949	100.20	\$12,767

- **System Output is based on a mean average for the year, for a system with optimum orientation / tilt.**
- **An accurate site survey is required to ensure that correct derating factors are applied.**
- **Daily Outputs will vary depending on the season (may be higher in Summer and lower in Winter) and atmospheric conditions.**
- **15 year projection, includes a reduction in system output of 1% annually (in line with the solar module's guarantee on power output being 90% after 10 years & 80% after 25 years).**
- **Annual Cost Savings may be different than shown in the table due to fluctuations in power usage, these are averaged values.**

### 5 kW - fixed monocrystalline, optimum orientation, Nil shading



### 5 kW - fixed monocrystalline, optimum orientation, Nil shading



The more power you use between 8am & 4pm, the greater the cost savings will be, which reduces your payback time.