

## **The following overview hopefully provides a clearer understanding of Jasmin Solar's 3kW, 4kW, 5kW benefit tables already supplied to the ACCC.**

### **5kW System Example**

A prospect of Jasmin Solar currently has a quarterly electricity bill from Origin Energy for \$500 for all Grid-supplied electricity as they currently don't have a Solar System installed.

If they continue without a Solar System, this quarterly bill will continue to increase over the next 15 years as inflationary and other power distributor increases adds between 3% to 10% per annum to the cost of Grid-supplied electricity.

Now this same customer purchases a 5kW Solar System from Jasmin Solar for \$1.

Three months after the system has been installed by Jasmin Solar and the Solar Meter has been installed by Energex, the customer will receive their first new Solar/Grid-electricity bill from Diamond Energy.

Industry research shows that on-average, a household transitioning to using a Solar System will utilise at least 50% of the available Solar Power during the day. This is due to the fact that householders are advised to actively change their energy consumption habits so as to maximise their use of the FREE energy created by their Solar System.

By this, I mean that householders are advised to run their washing machine, dishwasher, clothes dryer, pool pump/s, electric hot water system etc. during the DAY, whereas for the past 40 years they were advised to only run such devices at off-peak times during the evening. Jasmin Solar has written to each and every customer advising them to do this.

Based on Solar radiation figures pertinent to SE QLD, we estimate that the 5kW Solar System, properly sited etc. can generate, on average, 25kWh of renewable energy during the day.

Therefore if the householder is using just 50% of this energy, they are using 12.5kWh/day for FREE that previously they had to pay for when they were using Grid-supplied electricity. If this figure is then extrapolated-out over a 90-day quarterly period, the householder will receive (12.5 x 90)kWh of totally FREE electricity each month that previously they had to pay \$\$\$\$ for. At the current tariff of approx. 23c/kWh this equals a saving of a massive \$258.75 per quarter, or \$1,035 per annum.

Statistics show that once a Solar System is installed in a home, the householder actively does change their energy consumption habits to attempt to utilise as much of the daily FREE energy as possible, once they experience the incredible cost savings they can achieve as a result of having the Solar System in place.

Jasmin Solar's expectation is that our customers will utilise somewhere between 50% - 70% of the daily FREE energy output from their systems.

The following table shows an estimate of what the installation of a Solar System really means to the bills of a normal household:-

Comparison of Estimated Electricity Costs to a Household with and without a Solar System based on 50% utilisation of the FREE Solar energy generated

\$	<u>2013</u>				<u>2014</u>				<u>2015</u>			
	<u>Q1</u>	<u>Q2</u>	<u>Q3</u>	<u>Q4</u>	<u>Q1</u>	<u>Q2</u>	<u>Q3</u>	<u>Q4</u>	<u>Q1</u>	<u>Q2</u>	<u>Q3</u>	<u>Q4</u>
<b>Grid Supplied Electricity no Solar System in place</b>	500	500	500	500	540	540	540	540	583	583	583	583
<b>Solar System Supplemented by Grid Electricity during the Night</b>	270	270	270	270	290	290	290	290	312	312	312	312

The above table can easily be extrapolated out to the year 2028 with results being similar to the above 3 year example.

As you can see, by utilising the Solar System effectively to the householder's benefit, their quarterly Electricity bill is significantly reduced, providing them with solid \$\$\$\$ savings each quarter. Please note that every householder will be different and that this information is designed to show that installation of a Solar System can, and does, significantly assist a householder reduce their electricity costs. I know that I personally would prefer to pay \$270/quarter for my electricity bill rather than \$500/quarter, as I could use the \$230/quarter saved, to spend on other essentials.

In addition, the results will be relative and similar in magnitude to the above example when using either a 3kW or 4kW Solar System as an example. Jasmin Solar has only installed a small number of 3kW and 4kW systems with the vast majority being 5kW systems