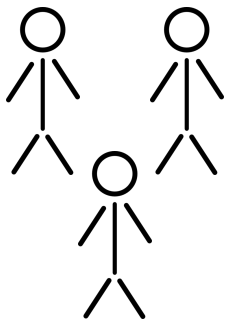


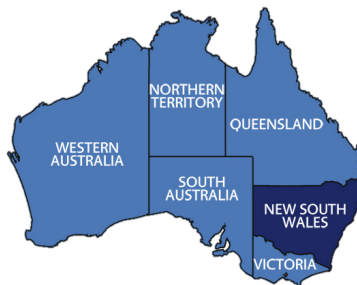


Assessment Report Residential Grid tied solar

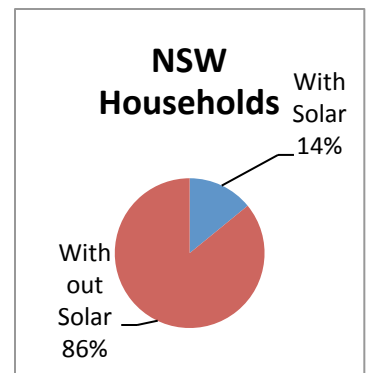
Prepared for
Malcolm Silver



Household size



Sydney, NSW



Dear Malcolm,

Thank you for choosing Solarwisely.

Scope of this report:

- Provide independent and unbiased assessment of solar for homeowners.
- Help gain confident and facilitate a savvier solar investment.
- Help establish realistic expectations on electricity bill savings.
- Determine the right PV size for your home based on the bill you provided.
- Personalized estimate of annual savings in your electricity bill based on your system size and average sunlight available for your area.
- A much needed spring board to the solar world.

Out of scope and Limitations of this report:

- This is not a design report, accounting report or investment report.
- No site visit was conducted for this report.
- No shading analysis of the roof was done.
- No Energy storage system.
- Assumptions made in Savings calculation (any changes to these conditions may significantly change the annual savings amount)
 - 5% annual bill inflation up to 30 years from the current rate of electricity.
 - Export rate (FiT) stays at 4.5 cents (very unlikely, but earnings from export is already not so significant at 4.5 cents, detail breakdown shown below)
 - 15% power loss considered during generation due to heat, dust, cable, inverter efficiency, etc.
 - 0.8% annual cell degradation.
 - North facing roof.

External Resources used to generate this report:

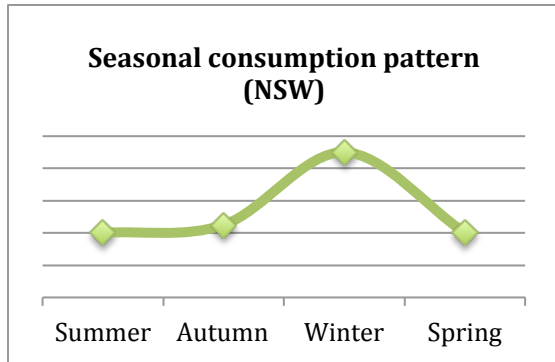
- Homeowner provided electricity bill.
- Bureau of Meteorology (<http://www.bom.gov.au>)
- Google map
- ACIL Allen Electricity Benchmarks final report v2 (For residential customers)

Thank you for your business

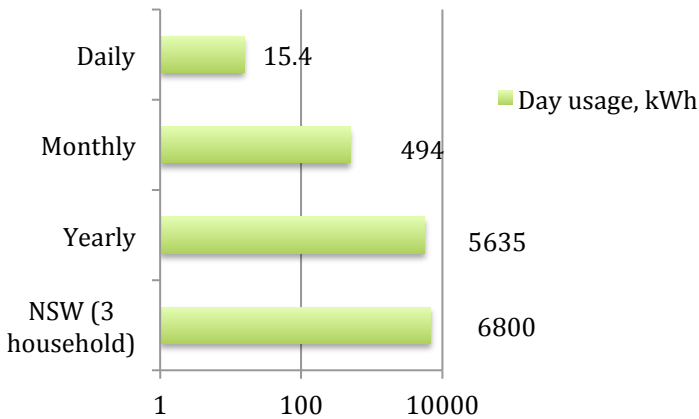
**Report prepared by,
Yogendra Poudel
Solarwisely.com.au**

Your Energy Usage

Sampled Bill period
 April 14th to May 14th (2015), 32 days

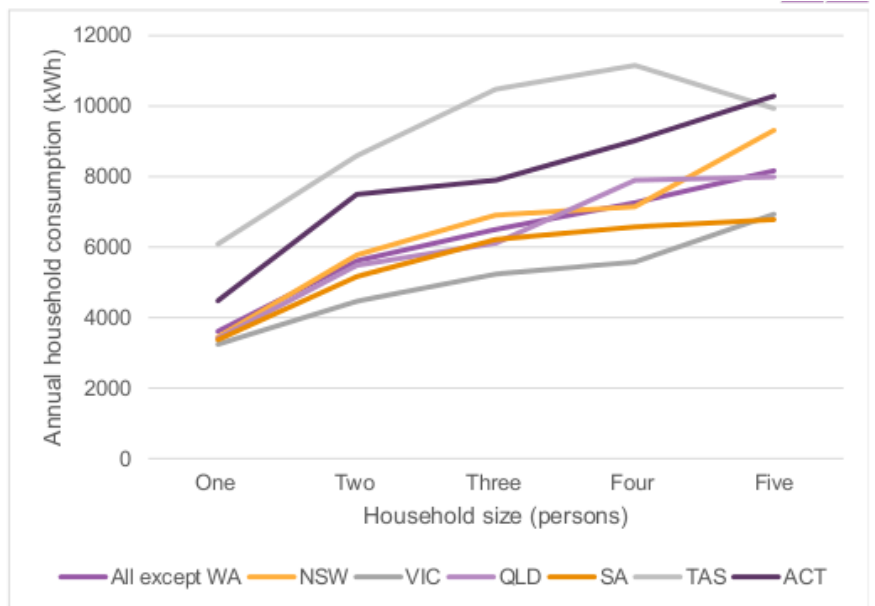


Usage, kWh



Item Description	
NMI of Bill	12345678123
Sampled Bill period	14 April 2015 to 14 May 2015
Total usage	494 kWh
Number of Days	32
Daily average usage	15.4 kWh, 5635kWh
Approx. annual usage (365 days)	5621 kWh
Approx. 3-household annual average consumption in NSW (see chart below, 2014)	6800 kWh

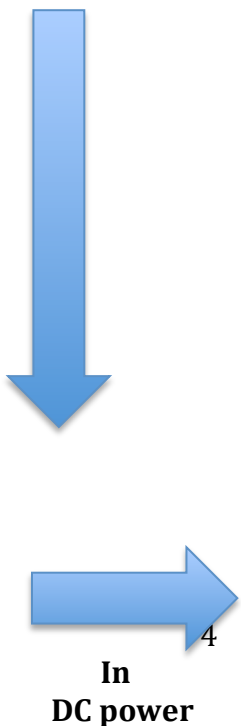
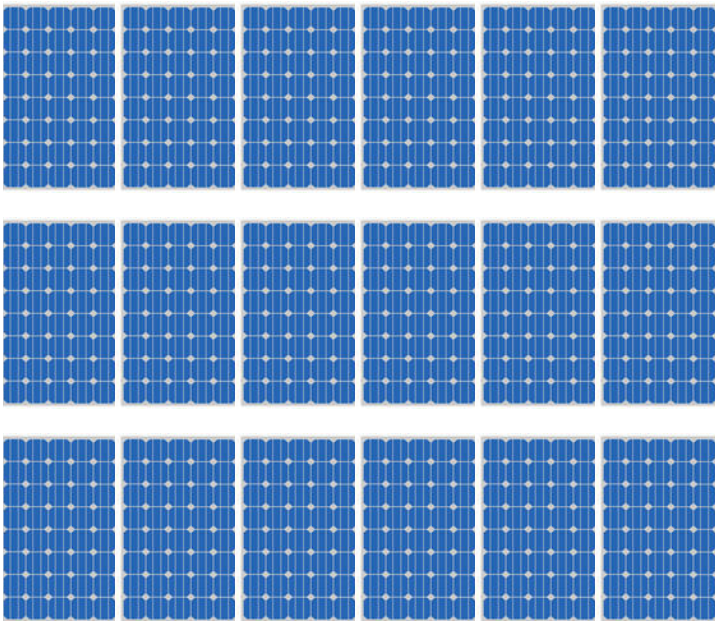
Source:
 ACIL Allen electricity
 benchmarks survey, 2014



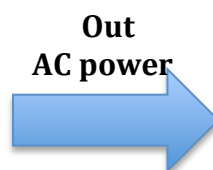
Source: ACIL Allen Consulting

Solar system size

System size **4.4 kilowatts**
 Number of panels **18 @ 250watts/panel**
 Enough roof space? **Yes**



String Inverter size
5 Kilowatt



Commonly available panels in the market

Mono-crystalline: Highly efficient, expensive
Poly-crystalline: Less efficient, less expensive
Thin-film: 3-4x less efficient than mono. Requires more roof space. Cheap.

How to decide which?

If you can afford, mono-crystalline is the best option.
 Poly-crystalline, a right balance of price and quality.
 If there is an ample roof space, budget constraint, then thin-film could be an option.

Inverter

String inverter: One inverter, usually installed inside the house, safe and easy replacement.
 One panel shaded = All panel shaded.
Micro-inverter: Each panel has a small inverter called micro-inverter. Slightly expensive. Best in partially shaded roof.
 One panel shaded = One panel shaded.

Finding the right type of panels and inverter system for your home based on your preference is beyond the scope of this report.

Savings

Self-Consumption



Export of unused power



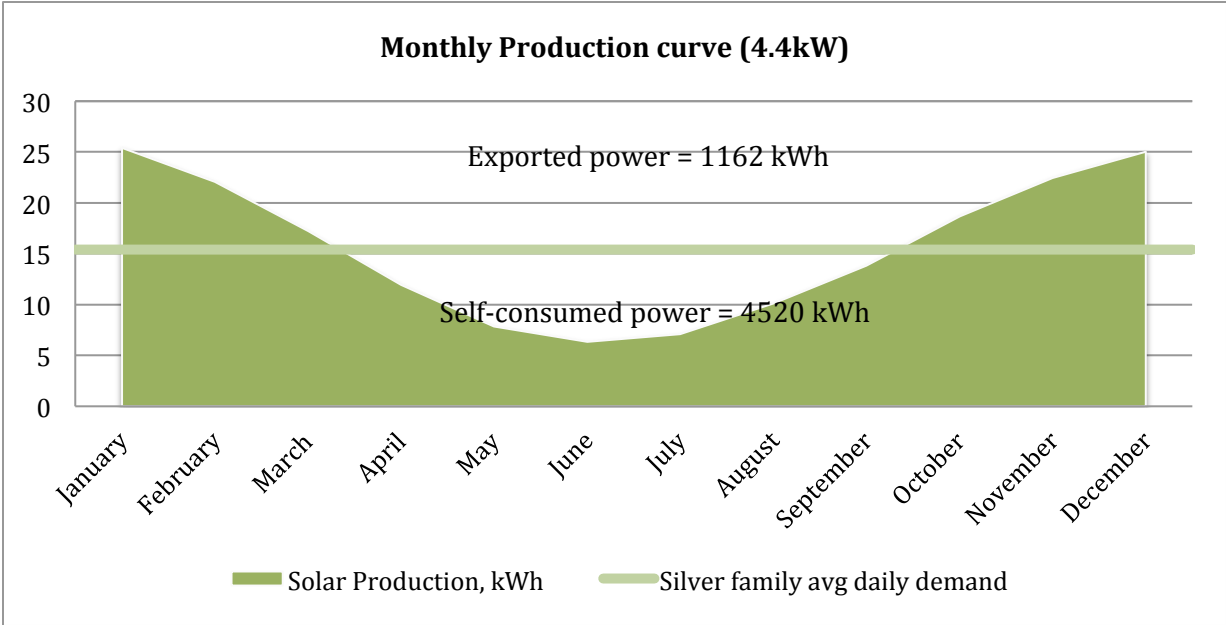
\$859
(4520 kWh x 19 cents)




\$52
(1162 kWh x 4.5 cents)



\$911/year



Recommendation: You have North/North East facing roof, which is ideal for solar. There should be no issues fitting 18 panels on that roof unless there is other limitation that's beyond the scope of the mapping tool. You should discuss any such limitations with your solar company before signing a deal. A 4.4-kilowatt system is ideal for your energy consumption. Any larger system may not guarantee return worth the extra investment (due to low FiT on export). You may choose to buy your system outright, which means the highest return on solar investment. Think solar for self-consumption, not export. Recommend weighing all options such as budget, roof space/condition and personal preferences before choosing the type of solar panels and inverter that's right for you.