

Solar Power and Battery Storage

In December 2016 the generous 60 cent per kWh Feed-In Tariff (FIT) will be history.



Many electricity users are now considering new ways to permanently reduce their power bills or to go off the grid altogether as power retailers up the charges for solar system owners.

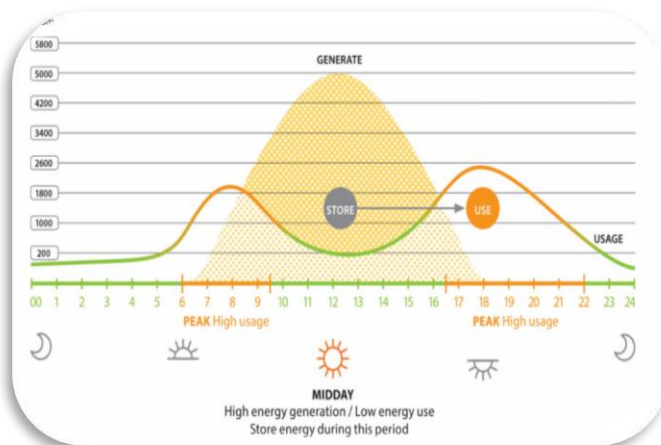
It won't be long before dozens of sales reps will be knocking on your door trying to sell more solar panels, storage batteries, smart inverters and energy saving technology.

There is no one-size-fits-all approach. We at **PowerSmart Energy Efficiency** and **GOODBYEGRID** have many years of experience in the field of energy efficiency and renewable energy. We work by assessing your power bills and your major consumers of power, giving you custom-tailored professional advice on:

- *Hybrid Solar or Grid Independent system?*
What is best for me?
- *Is it worth upgrading my solar power system?*
- *Do I need to change my FIT electricity meter?*
- *Do I need to change the way I use power?*
- *What type of battery storage is best for me?*
- *How much capacity would I need?*
- *Do I buy outright or on a payment plan?*
- *How much is it going to cost me and what's the payback period?*

NO SOLAR YET?

Secure the lowest ever
prices NOW!



**Save thousands of dollars with our special
early bird assessment:**

- ✓ Power bill assessment
- ✓ Succinct report on how to beat the power companies for good
- ✓ Our recommendations for the best technology for your home or business
- ✓ Cost / benefit estimations with payback periods and ROI

from \$250.00 Residential

from \$450.00 SME

www.power-smart.com.au
www.goodbyeGRID.com.au

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Our customers include Lismore City Council, Byron Shire Council, Lismore Workers Club, Ballina RSL Club, Rous Water and more than 170 other local businesses as well as numerous households.

p.t.o

HYBRID versus GRID INDEPENDENT - What does it mean?

HYBRID Solar

You stay connected to the GRID, but use batteries to:

- Either store solar power generated during the day for nightly use; OR
- Store cheaper OFF PEAK power for use during the next day in PEAK or SHOULDER periods; OR
- Both of above

BENEFITS: Lower cost at the most expensive TOU* times. No waste of solar power. Medium capital outlay.

CONS: You still have to pay the metering charge and other fixed fees (which may go up in the future...)

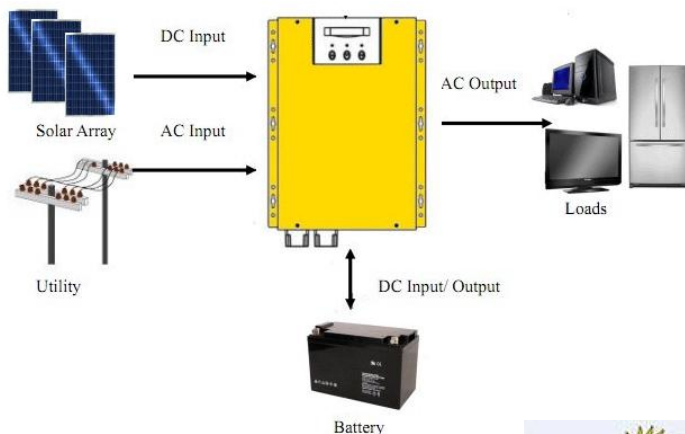
GRID INDEPENDENT POWER SUPPLY

Disconnect from the Grid altogether. You'll need enough solar panels to charge your batteries at least partially on overcast days, plus a backup power source (e.g. diesel powered generator) for longer spells of rainy days to be able to recharge your batteries.

BENEFITS: No power charges at all; however, be prepared for a small petrol or diesel bill

CONS: Higher capital expenditure for solar panels, batteries, inverter/controller and generator set.

Image 1: Hybrid Solar system



Solar Batteries

Which technology to use?

- Lead Acid: VRLA, GEL
- Lithium: LiFePo4, NMC, NCA
- AHI (Sodium Ion): e.g. AQUION
- Aluminium Ion, Zinc Air (in development)

Choosing the right battery type for your application can save you thousands of dollars!

Image 2: Grid independent power supply

Selection of suppliers of LiFePo4 or Sodium Ion batteries:

- Tesla (various distributors)
- LG Chem (various distributors)
- SAMSUNG (mainly through power retailers)
- SONNEN battery
- SUNVERGE (mainly through power retailers)
- AQUION (AHI - various distributors)
- SUNBANK (Ampetus)

For a full review of all current battery offers as of January 2016 visit www.goodbyegrid.com.au

* Time of Use

