Gippsland Solar

Your Complete Solar & Storage Experts

Battery Storage -

IS IT WORTHWHILE FOR ME?

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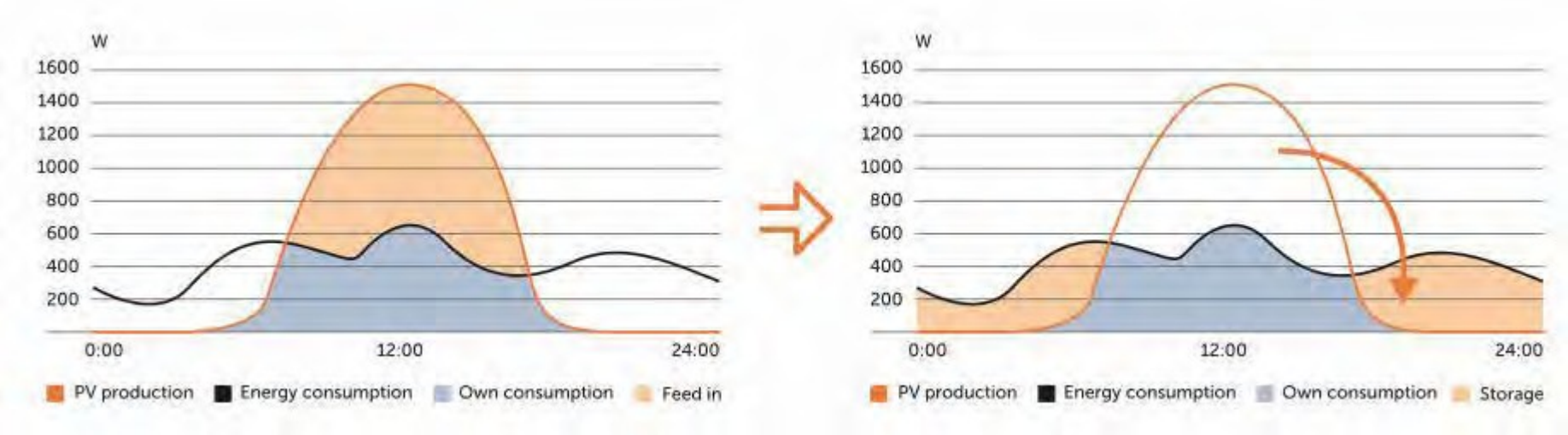
Approx 2,500 Solar systems installed across the region - up to 300kW
30-35 grid-connected systems with battery storage (AKA hybrid)
Many dozens of off-grid systems - becoming more viable for new homes
Our Traralgon showroom runs entirely off lithium battery storage and solar
20 full-time staff, including 6 F/T electricians with off-grid experience
Full-time tech support electrician (working for our affiliated business Solar Fix)

What is Battery Storage?



- Battery Storage enables you to store surplus solar power, and to use it at night
- Charge your batteries during the day for free, when you are not at home
- Use that power for free at night, saving you from using peak electricity from the grid
- Provide power to your home during a brownout or blackout

Pro's and con's of Battery Storage

Benefits of Battery Storage

- Charge your batteries during the day, instead of exporting to the grid for 5-6c per kiloWatt hour
- Use the stored solar power at night, saving you 30-40c per kWh (at current rates)
- Also possible to charge the batteries at off-peak rates (11pm-7am) for 19c per kWh
- Power when the grid goes down (major advantage in rural areas/end of the line)
- Ability to increase your battery storage later, disconnect totally from the grid (not all systems will allow this)

Downsides of Battery Storage

- Batteries are still expensive, haven't reached mass production yet
- It won't suit every situation (eg people who use power during the day)
- It still has a long financial payback (between 8-12 years)
- Some types of batteries won't last 10 years, if they aren't treated well
- You still need a smart meter, and to stay connected to the grid

What does it cost?

- Lithium batteries (Tesla Powerwall, LG Chem etc) - $7,500 - $11,000 installed
- This will provide between 5.5kWh and 8kWh of USEABLE battery storage
- Systems available with 2kWh-30kWh of battery storage
- Commercial applications - anywhere from 50kWh - 5,000kWh of storage

What will it save me?

- Different for every consumer
- Typical situation: Steve and Sally in Leongatha- already have 4.5kW system
- Dual income - no kids - both work 9 - 5
- Currently they feed the grid for 6c per kWh during the day
- Now - Charge their batteries all day while they are at work
- Use 7kWh each night from batteries - assume they are paying 38c per kWh
- Savings of $2.60 per day - $950 per year
- They would have received 6c x 7kWh - $0.42 per day - $150 per year
- Actual savings from battery storage - $800 per year
- Cost of system $8,000 - financial payback 10 years

Electricity rates are going up

Assuming electricity price of 45c per kWh

- Savings of $3.15 per day (7kWh x $0.45)
- Savings of $1,150 per year (less the $150 for a 6c Feed-in Tariff)
- Financial return of around 7 years

Assuming electricity price of 50c per kWh

- Savings of $3.50 per day (7kWh x $0.50)
- Savings of $1,270 per year (less the $150 for a 6c Feed-in Tariff)
- Financial return of around 6.25 years

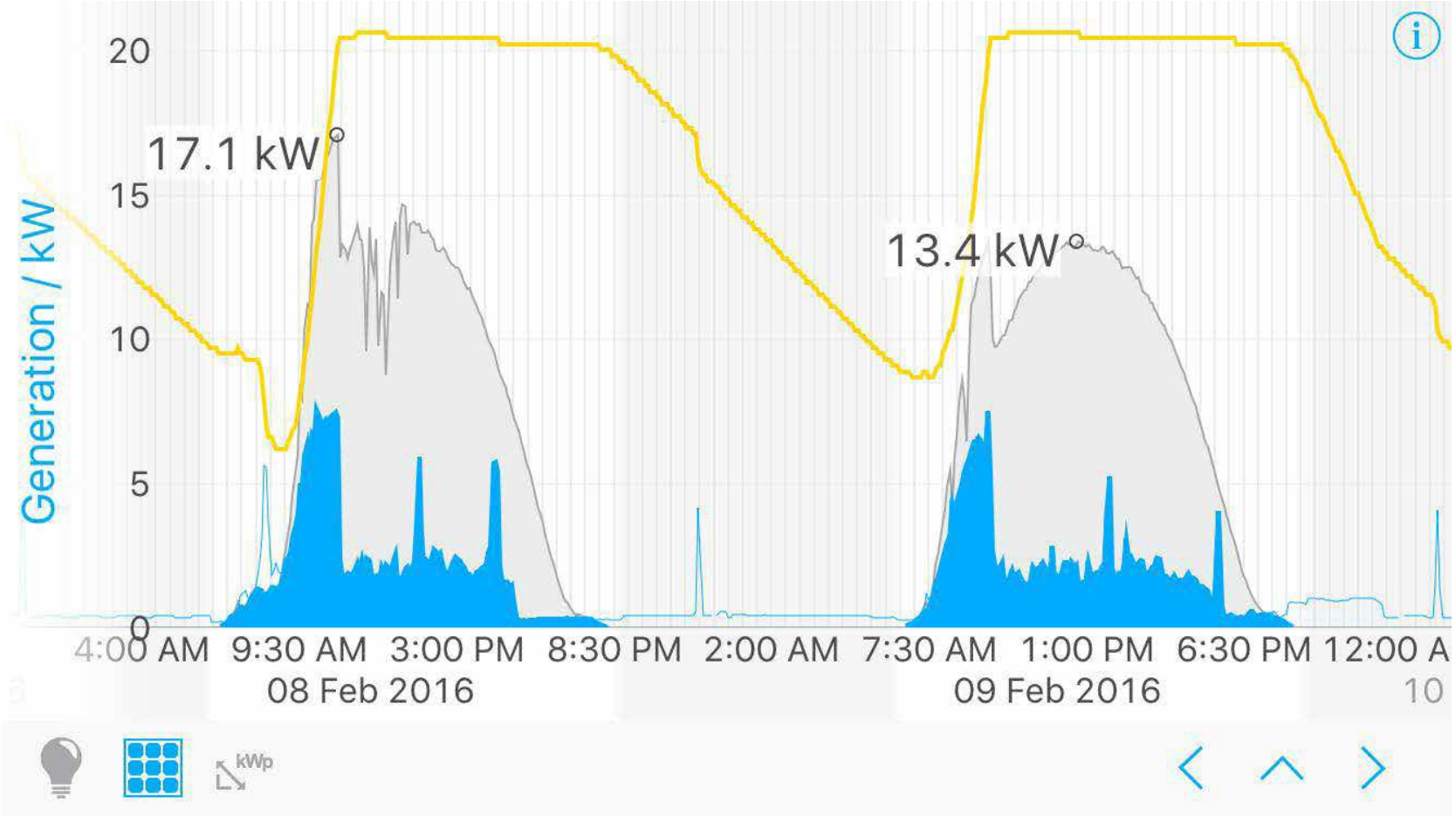
Should I wait until battery prices fall?

Best projections available - battery storage to fall by 15-20% over next 2 years

- Option 1 - install now
- Savings of $800 per year - at least $1,600 over 2 years

- Option 2 - wait for prices to come down
- Pay $1,400 - $1,800 less in 2 years

Example of how it works



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Phone: 1300 447 765

www.gippslandsolar.com.au

Live Solar / Battery Storage system on display

5 Rocla Road, Traralgon East

(cnr Princes Highway, next to BP car wash)