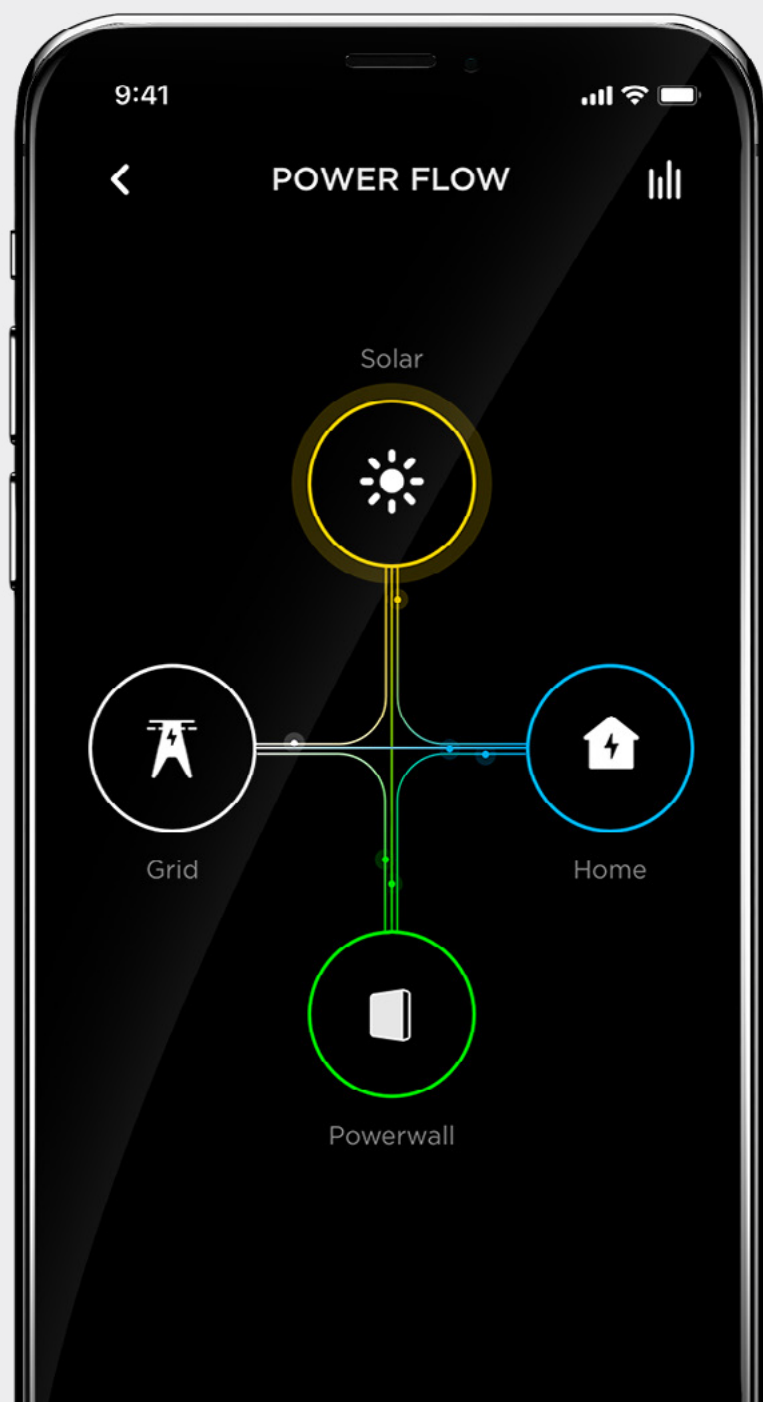


# Tesla Energy Plan South Australia Customer User Guide



TESLA

## Overview

Connecting Tesla Energy Plan, Powerwall and solar together as part of the Tesla Virtual Power Plant (VPP) maximises the value of your system while helping stabilise the grid to prevent outages in your community.

Each system is working collectively as a network using Tesla's world-leading software, creating the grid of the future and ensuring energy is distributed where it is needed most. You are helping the grid be more stable, preventing the use of fossil fuel and reducing your energy costs.



## Value

- Reduce your electricity bill with \$0 daily supply charges saving you \$300 per year on average.
- Benefit from a low competitive energy rate.
- An upfront Powerwall discount of \$4,700 (or \$5,000 for energy concession holders) (including SA home battery rebate).
- Backup power reserve in case of a grid outage.
- Supporting South Australia's energy security.

The estimated payback period is under 7 years on the Tesla Energy Plan compared with a 10 year payback period for an outright purchase.\*

## System Behaviour

Your system will behave differently compared to regular operation. The Tesla Energy Plan creates value from both energy arbitrage (a buy energy low, sell high method) as well as frequency support, helping smooth fluctuations in the grid. Traditionally, Fossil Fuels have been used to perform these services, but Powerwall can react 100 x times faster with clean energy.

Tesla shares this value with customers through the upfront Powerwall discount, \$0 daily supply charge and best energy rate in South Australia\*. Tesla's VPP algorithm is constantly assessing the best action to participate in the energy market and minimise grid fluctuations by:

- Charging your Powerwall from the grid
- Exporting solar or stored energy from Powerwall to the grid
- Holding the battery constant in standby mode

### For example:

If there is an oversupply of electricity in the grid (e.g. during off-peak times) Tesla may charge your battery or import energy from the grid to take advantage of low or negative wholesale prices and cover your home's energy use.

If there is an undersupply of energy in the grid (e.g. during peak times or unexpected outages) Tesla may export your solar system or Powerwall's energy to the grid to take advantage of high wholesale prices or to help stabilise the network.

If there is a forecasted grid event (e.g. grid outage), Tesla may charge your battery from the grid and supply back later to help stabilise it.

Alternatively, your Powerwall may export energy so it can be charged to full capacity at a different stage.

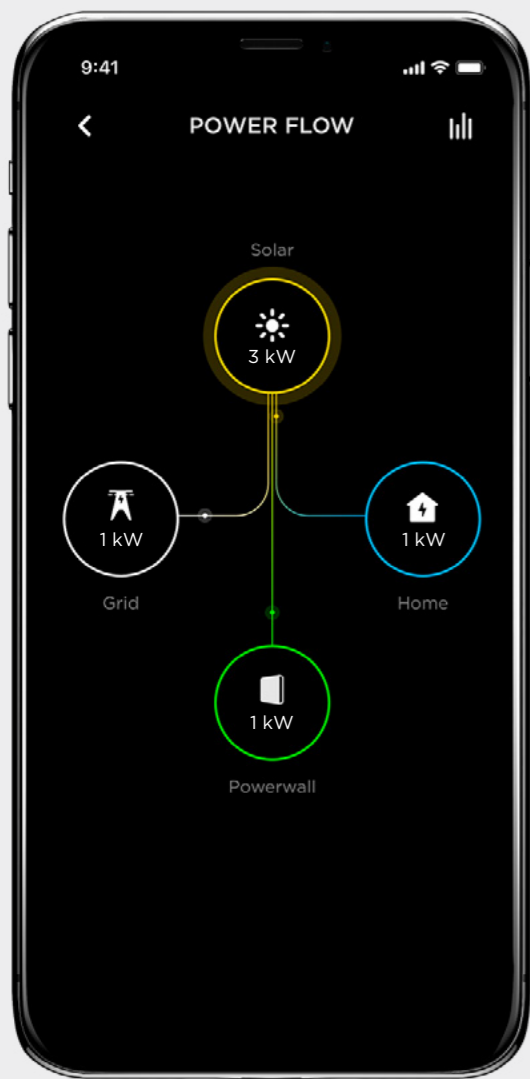
Although Tesla manages your solar and Powerwall to maximise the financial benefits for all within the VPP, your solar will still be used to power your home.

In times where your home needs to be powered by the grid, it will be done so with some of the lowest energy rates in the state.

While your Powerwall is being cycled more, the standard warranty applies of 70% Powerwall capacity available at 10 years even on the VPP.

Thanks for joining the Tesla Energy Plan and helping accelerate the world's transition to sustainable energy.

What you may see when there is sun



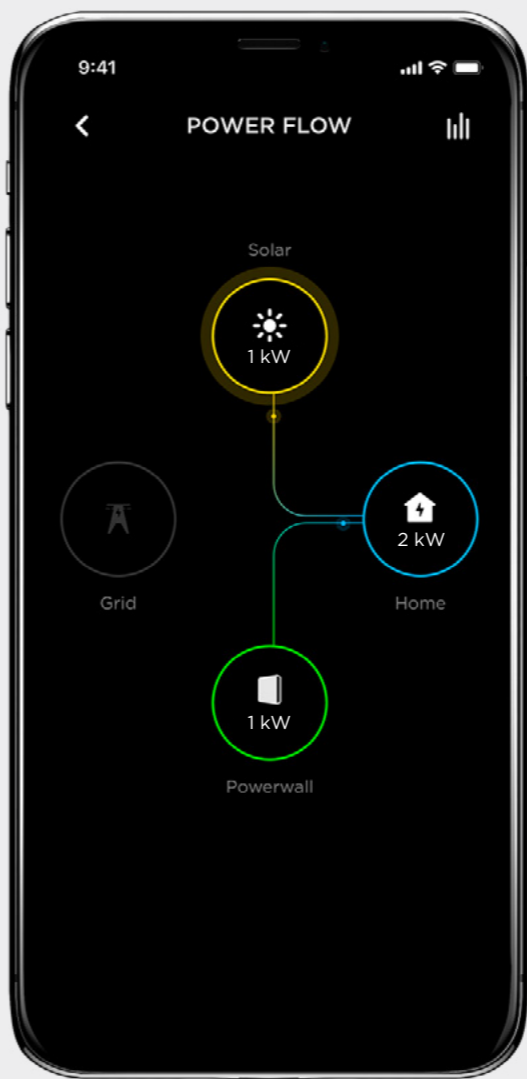
Solar powering the home, Powerwall & grid

Solar is generating energy, covering your home's energy use, charging Powerwall and exporting to the grid. You are receiving a feed in tariff for your solar exports.



Solar powering the home & exporting to grid

Solar is generating energy to power your home. Powerwall is not charging as it may be full or in standby mode. Excess energy is sent to the grid and you receive a feed in tariff.



Solar & Powerwall powering the home

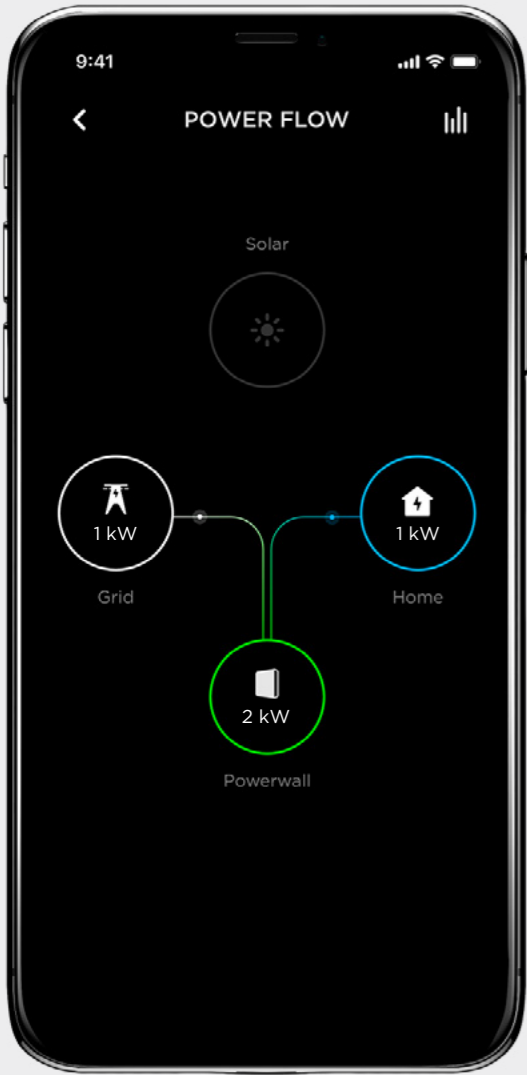
Not enough solar energy is being generated to power your home, so Powerwall provides the additional energy.



Solar & grid powering the home

Not enough solar energy is being generated to power your home, so the grid provides additional energy. Powerwall is not charging, and is either empty or in standby mode. Powerwall will charge when there is excess sun available or rates are low. You are charged an anytime usage rate for electricity used.

What you may see when there is no sun



Powerwall discharging to grid while powering the home

Powerwall is powering your home while also sending energy to the grid (for grid services or high wholesale prices). You receive a feed in tariff for grid exports.



Grid powering the home

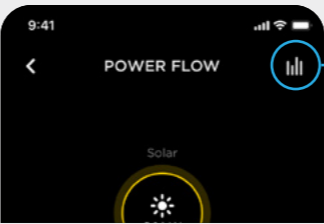
Your home is powered by the grid and you are charged the anytime usage rate for electricity. Powerwall is either on standby mode or has been fully discharged.



Grid importing to Powerwall

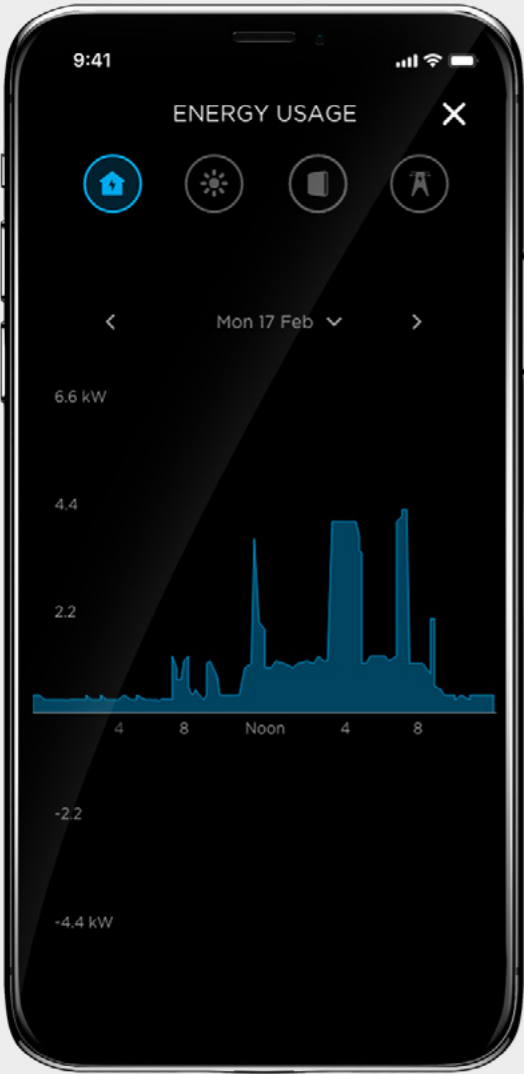
Powerwall is being charged from the grid to take advantage of grid services or low/negative wholesale energy prices. You pay the anytime usage rate to import from grid, but receive grid credit and then receive feed in tariff for any exports back to the grid.

Understanding Energy Flows - High Solar PV Production

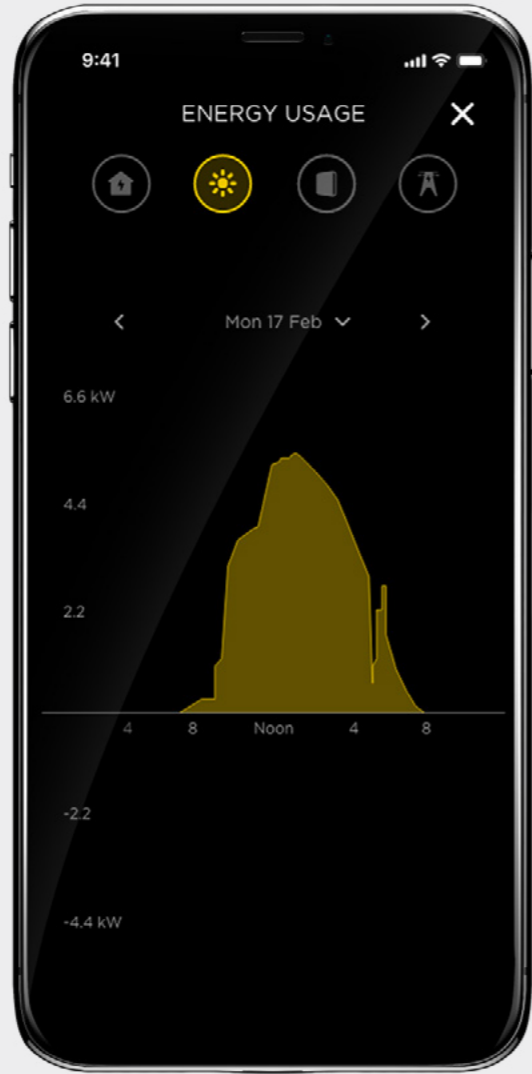


In POWER FLOW, click the graph icon in the right hand corner for detailed performance across the day, week, month and year. As you're part of the Tesla VPP, your Powerwall is optimised and managed to maximise its value. This is normal, is included in your warranty and is creating value for you and others on the VPP.

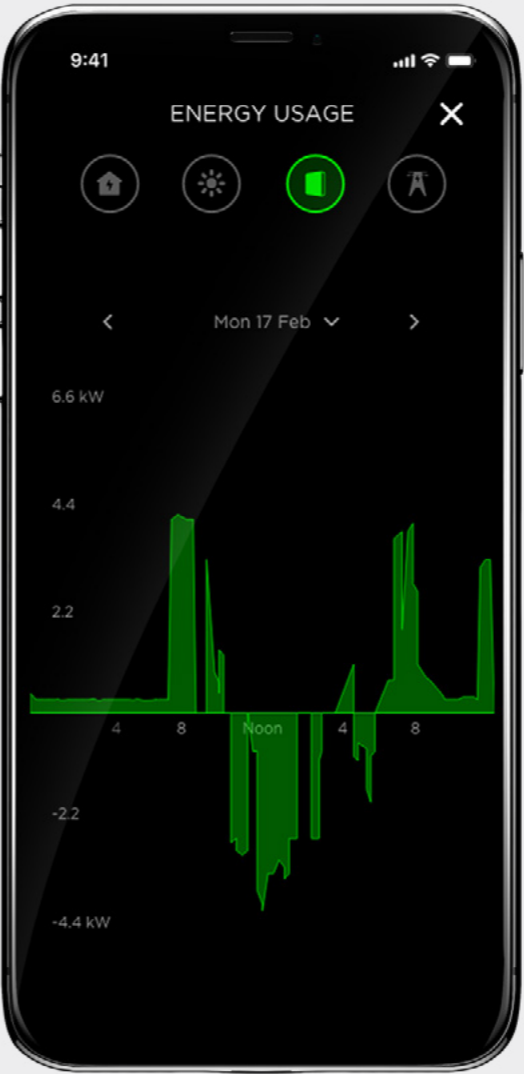
Energy consumed by the home



Solar energy produced

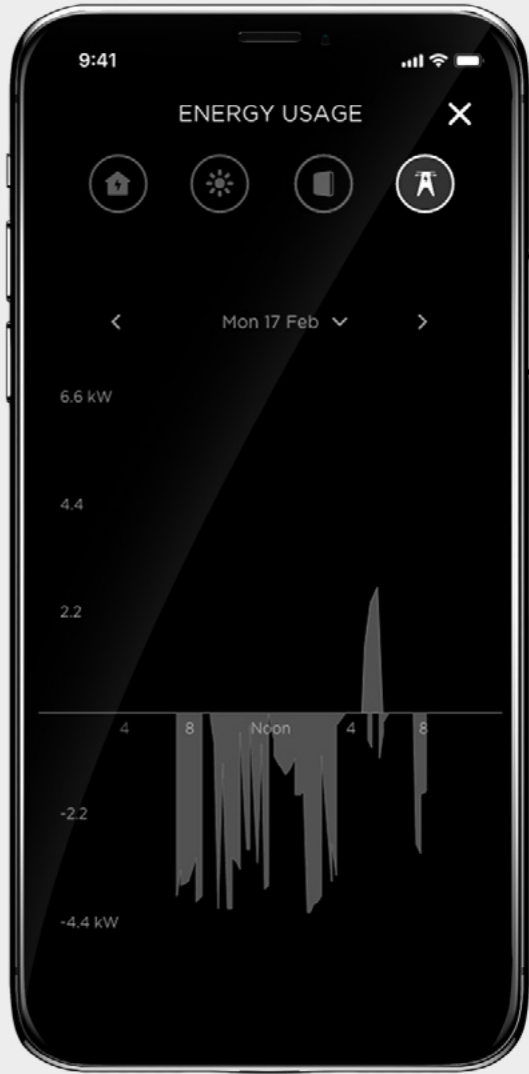


Energy charged & discharged by Powerwall



Battery charge +  
- Battery discharge

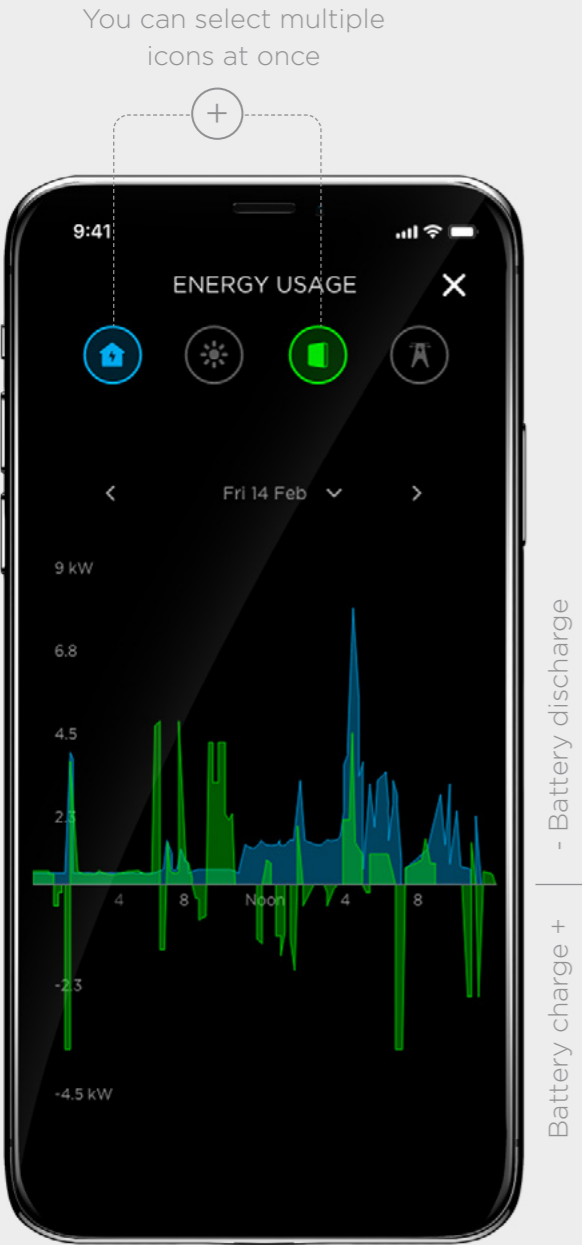
Energy imported & exported from the grid



Grid exports  
|  
Grid imports

Understanding Energy Flows - Low Solar PV Production

Scenario 1  
Powerwall discharging  
to cover your home's  
energy use



Scenario 2  
Solar energy produced +  
excess energy not used  
by your home or Powerwall  
exported to the grid



Scenario 3  
Grid imports +  
Powerwall charging due  
to an oversupply of energy  
in the grid or low/negative  
energy prices



Tesla Energy Plan Electricity Bill

Your Tesla Energy Plan bill will convey the value of participating in the VPP every month through four line items below, found on the first page of your monthly bill;

1.  
\$0 daily supply charge, equating to an automatic \$300 savings per year on average.

2.  
All imports from the grid (to home or to charge the Powerwall) are charged at a low competitive energy rate.

Usage Charges

Type	Description	Charge Period	Quantity	Rate	Unit	Total
RETAIL	Daily Supply Charge	01 Jan 2020 to 31 Jan 2020	31.000	0.000	x c/Day =	\$0.00
	Anytime Peak	01 Jan 2020 to 31 Jan 2020	217.356	28.300	x c/KWh =	\$61.51
	Solar Feed-in	01 Jan 2020 to 31 Jan 2020	-1,089.500	10.000	x c/KWh =	(\$108.95)
	Grid Charging Credit	01 Jan 2020 to 31 Jan 2020	-87.905	22.630	x c/KWh =	(\$19.89)
Total Excluding GST				x		(\$67.33)
GST				x		\$6.15
Total Including GST				x		(\$61.18)

3.  
Customers receive a 10c/kWh feed in tariff for all solar and Powerwall exports to the grid.

4.  
The grid charging credit reimburses customers for energy imports that charge their Powerwall. Customers are fully reimbursed if the imported energy is all exported to the grid. If the energy is used to power the home, customers enjoy energy at a discounted rate.

Our goal is to give you a transparent breakdown of the energy used for grid services to charge your Powerwall. You will notice the quantity of your imports may increase on this plan, but this is offset by grid charging credits and increased exports from both your solar and Powerwall. Your energy is being managed to maximise your savings.

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