

Nelson Family Home Including 27 kWh battery system

Ron Nelson

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Company

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Solar details



System size

14.26 kW DC

Panels

REC460AA Pure-RX

Inverters

Powerwall 3 [11.5KW]

CEC-AC rating

13.263 kW AC

Estimated First Year Production

19,504 kWh

Consumption Offset

162%

Array details

Panel: REC460AA Pure-RX

Quantity: 13	Watts: 460	Azimuth: 227° (SW)	Tilt: 28.26°	Mounting: flush
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Panel: REC460AA Pure-RX

Quantity: 5	Watts: 460	Azimuth: 228° (SW)	Tilt: 28.26°	Mounting: flush
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Panel: REC460AA Pure-RX

Quantity: 13	Watts: 460	Azimuth: 228° (SW)	Tilt: 28.26°	Mounting: flush
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Battery details



Battery capacity

27 kWh

Operating power

23 kW

Battery system

Tesla Inc. - 2 Powerwall 3

Battery mode

Time-based control

Calculations assume battery is used in

Time-based control mode at all times

Installed battery images are provided

only for representational purposes.

Actual results may vary

Ensemble Choice 9.1 - 25.399.30.1.9875

Loan amount	\$86,119.15
Loan APR	3.99%
Loan term	25 years
Initial monthly payment * (No payment for the first 2 months)	\$329.21/month
Old utility bill	\$465.05/month
Estimated new utility bill	\$28.92/month
Estimated new total monthly payment	\$358.13/month

Actual new utility bill may vary if there are changes in utility rates, adjustments to energy usage, or modifications to the consumption profile.

* If you do not pay the pay-down amount by 18 month, then your monthly loan payments will increase to \$470.53 . Please see the terms of your loan agreement for additional details regarding timing and amount of the said pay-down.

*The pay-down amount is \$25,835.75.

The loan information on this proposal may not be an exact representation of your actual financing loan agreement.

Provided by:



Pricing

	Price	Discounts & rebates	Total price
Base Price for Solar Based on a 14.26 kW installation	\$54,429.01		
Battery - 2 Powerwall 3 Based on a 27 kWh installation	\$31,690.14		
Gross Cost	\$86,119.15	-\$0.00	\$86,119.15
Federal Tax Credit Residential Renewable Energy Tax Credit - 30%		-\$25,835.75	
Cost after rebates & incentives*	\$86,119.15	-\$25,835.75	\$60,283.41

Note:

* Not everyone is eligible for credits, incentives, or rebates or can fully use them. Please consult your tax professional or legal professional for further information.
* Incentives are subject to change. The actual amount can be higher or lower than what is quoted, and may not stay at a fixed rate over time. It can also change based on the tax bracket you are in.

Materials

REC Solar - REC460AA Pure-RX

Quantity **31**
Type: **hjt**
Wattage: **460 Watts**

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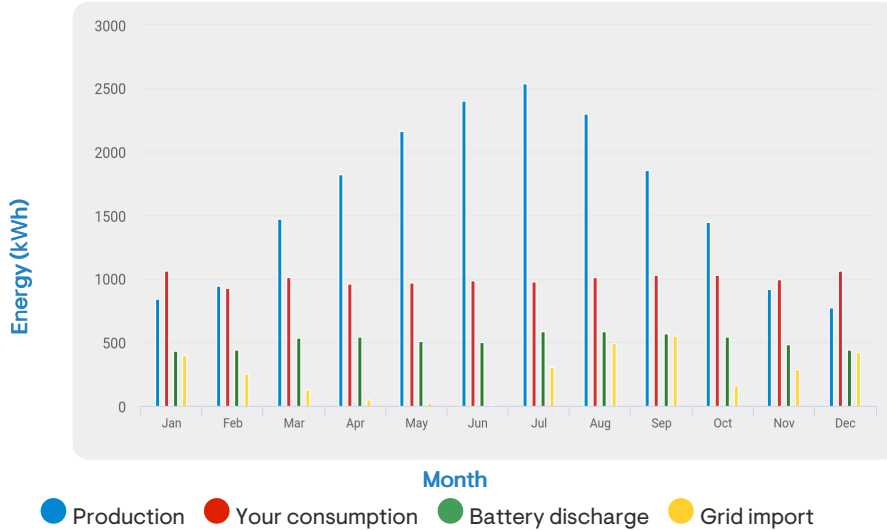
Tesla Inc. - 27 kWh: 2 Powerwall 3

Quantity **1**
Battery: **27 kWh**

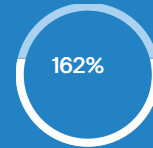


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Usage Breakdown



Consumption Offset



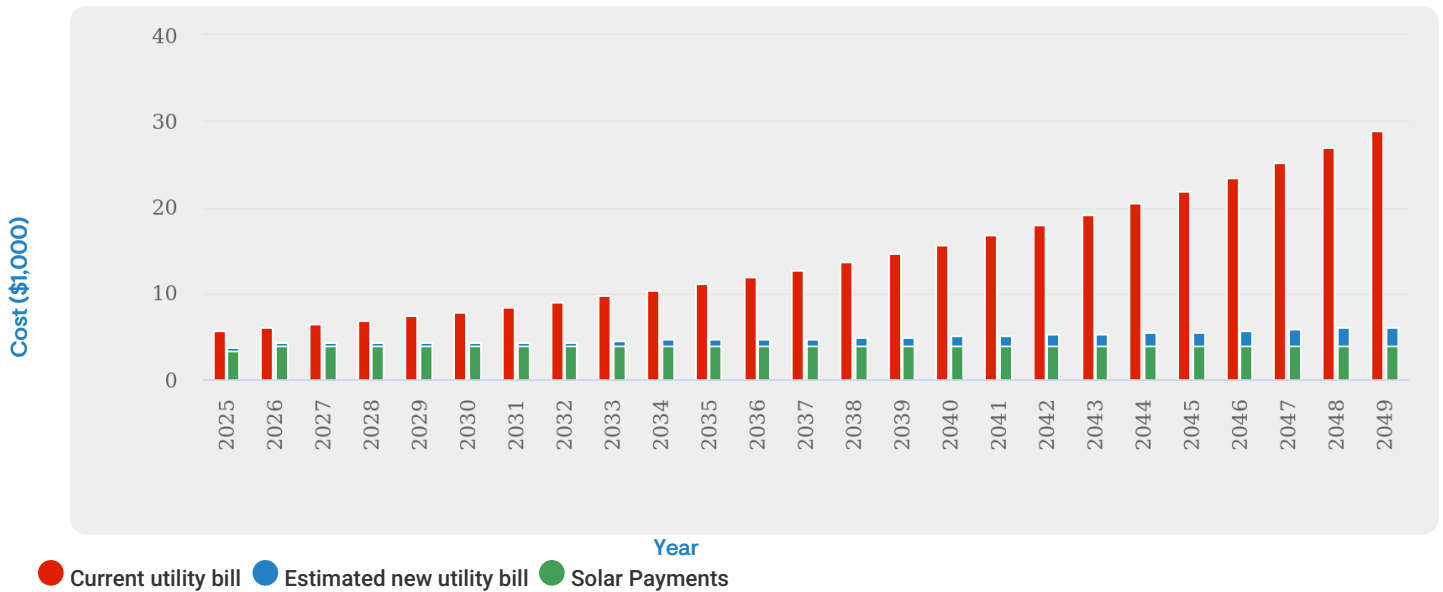
Estimated First Year Consumption

12,045.0 kWh

Estimated First Year Production

19,504.3 kWh

Estimated Savings



Assuming a 7.00% escalation rate on utility rate



Estimated Solar Savings Over 25 Years
\$333,651.21

Month-by-month details

Month (2025)	Production AC (kWh)	Grid usage (kWh)	Solar payment	New utility bill	Net credits	Net savings
JAN	843.5	397.69	\$0.00	\$138.34	\$0.00	\$365.01
FEB	949.77	254.28	\$0.00	\$84.07	\$0.00	\$355.01
MAR	1,475.28	131.93	\$329.21	\$0.00	\$0.00	\$93.39
APR	1,823.84	47.79	\$329.21	\$14.78	\$8.77	\$111.10
MAY	2,166.66	24.12	\$329.21	\$15.28	\$36.52	\$115.22
JUN	2,402.99	4.8	\$329.21	\$14.78	\$171.63	\$121.83
JUL	2,538.29	303.31	\$329.21	\$15.28	\$203.03	\$117.13
AUG	2,301.24	495.97	\$329.21	\$15.28	\$673.07	\$133.20
SEP	1,857.77	555.9	\$329.21	\$14.78	\$1,253.30	\$143.64
OCT	1,448.55	159.51	\$329.21	\$0.00	-\$2.31	\$101.02
NOV	923.59	292.77	\$329.21	\$14.76	-\$84.41	\$127.19
DEC	772.79	426.29	\$329.21	\$87.60	-\$63.98	\$89.80
Total	19,504.3 kWh	3,094.36	\$3,292.10	\$414.96	\$0.00	\$1,873.54

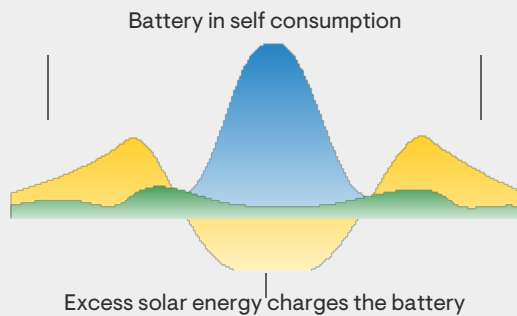
Benefits of Adding Battery

Battery capacity : 27 kWh Operating power : 23 kW Battery system :
27 kWh: 2 Powerwall 3

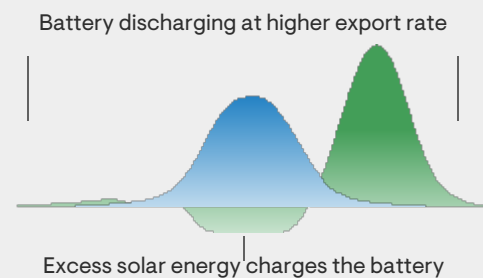


Additional bill savings using high export rates

NEM 3.0 brings changes to solar energy calculations that include on average lower export rates, but don't worry – your solar system can still be optimised to maximize its value and reduce your electricity bill. The new NEM 3.0 structure also features higher export rates that occur in September evenings, which can be factored in to save you money year-around



Battery will provide energy to your home when solar is not present



Battery will export energy to grid during high export rate periods for additional savings



Cloudy days backup

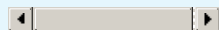
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Sunny days backup

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Cloudy and Sunny day backup hours could not be generated. Please try again later by opening the battery design tool.



Adding a battery provides peace of mind and energy security by keeping the lights on and the fridge running during a power outage. On a sunny day, your solar and battery will work together to maximize your backup power. On a cloudy day with little solar production, your battery backup will keep your essential appliances running.



More self-consumption

74%

35%

Solar

74%

Solar + Battery

Your Self Consumption score indicates how much of your power is self-generated instead of used from the utility grid. With batteries in your system, you can store the surplus solar energy produced during the day and use it to power your home at night.

With your current system design, your Self Consumption score should range between 100% during summer months to 46% during winter months.

Appliances selected for back up

Microwave x(1),Television x(1),Laptop / Home PC x(2),Lights x(8),Mobile Charger x(2),Coffee Machine x(1),Refrigerator x(1),WiFi Router x(1)



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Signature

I hereby agree to move forward with the solar project as described above.

Ron Nelson

Date of signature (MM-DD-YYYY)