

Client Hydro Usage w Alectra - Asymmetrical Pricing and Credits

Energy Target for initial design: 16,659 kWh/yr

Due to ASHP and 2nd EV added after installation, it is now about 20,800 kWh/yr

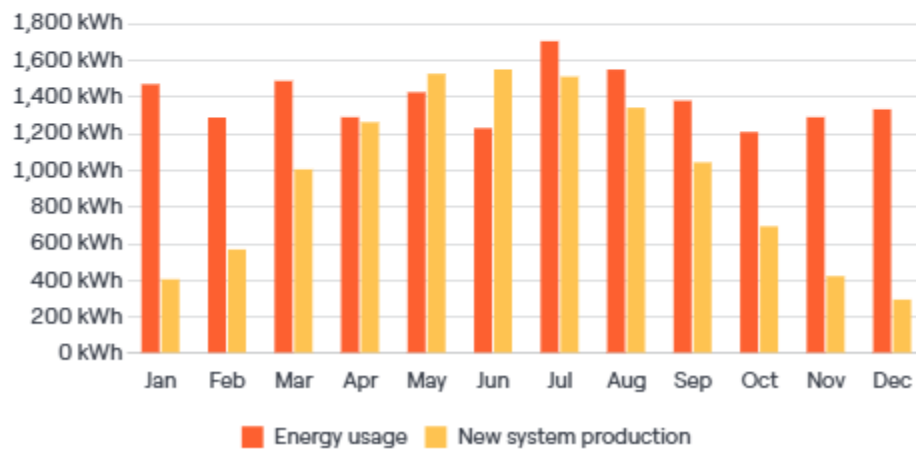
System: 28x Longi 410W = 11.48 kW DC (Maximum practical size for available roof space)

Projected Energy Production: 11,625 kWh/yr

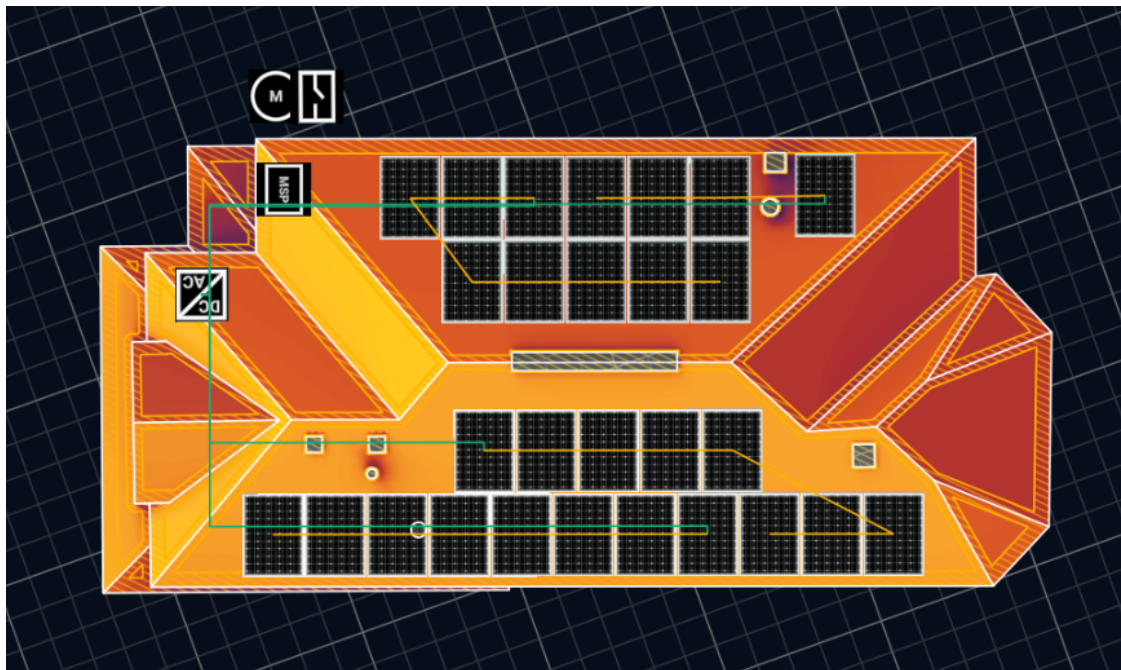
Production

Panels	Annual energy	Energy offset
28	11,625 kWh	70 %

Monthly production (kWh)



Installed Hardware: Tesla Powerwall 3 + TEG2 + DC Exp Pack x1 + TWC x2 + Combo MB



++++++

May 2025 Usage

Sent: Friday, June 13, 2025 1:50 PM



So far, a success – and we have a 2nd electric car now so even without solar (but with Powerwall 3) I would recommend going on Ultra Low – The Powerwall(s) and car(s) all charge between 11pm-7am at \$0.028 while we send solar to the grid during peak (4pm-9pm) at \$0.284 (10X difference)!

Screenshot, at left, of the Tesla app showing the overnight charging, and the electricity breakdown of my latest Alectra bill:

Your Electricity Charges: Net Metered Residential

*Electricity provided by Alectra Utilities Corporation as Standard Supply Service

Net Metering Accumulated Credit Banked	\$127.38
Ultra-Low Overnight	
On-Peak 4.152 kWh @ \$0.284	\$1.18
Mid-Peak 34.088 kWh @ \$0.122	\$4.16
Off-Peak 128.897 kWh @ \$0.076	\$9.80
Overnight 1,289.386 kWh @ \$0.028	\$36.10
GEN On-Peak -187.502 kWh @ \$0.284	\$53.25 CR
GEN Mid-Peak -738.366 kWh @ \$0.122	\$90.08 CR
GEN Off-Peak -463.37 kWh @ \$0.076	\$35.22 CR
GEN Overnight -2.342 kWh @ \$0.028	\$0.07 CR
Delivery	\$36.33
Delivery Net Metering Accumulated Credit	\$4.54 CR
Regulatory Net Metering Accumulated Credit	\$0.72 CR
Regulatory	\$0.97
Your Total Electricity Charges	\$32.04

++++++

June 2025 Usage

Sent: Tuesday, July 15, 2025 12:13 PM

Just an FYI, the latest bill which has quite a bit of air conditioning now plus we now have 2xEVs that charge between 11p-7a – look at that overnight usage of 1800kW for only \$51 easily covered by the generation.

Accumulated credit so far is \$266.

Ultra-Low Overnight

On-Peak 1.81 kWh @ \$0.284	\$0.51
Mid-Peak 28.323 kWh @ \$0.122	\$3.46
Off-Peak 34.146 kWh @ \$0.076	\$2.60
Overnight 1,831.173 kWh @ \$0.028	\$51.27
GEN On-Peak -218.938 kWh @ \$0.284	\$62.18 CR
GEN Mid-Peak -752.545 kWh @ \$0.122	\$91.81 CR
GEN Off-Peak -614.437 kWh @ \$0.076	\$46.70 CR
GEN Overnight -3.36 kWh @ \$0.028	\$0.09 CR

++++++

July 2025 Usage

Sent: Friday, August 15, 2025 1:13 PM

We're in the *heat* of things now with AC constantly running and 2x vehicles charging and still managed ~\$100 credit banked! Total accumulated credit so far is \$364.88.

"Ultra Low" is a game changer. In the winter with a lot less generation but also no AC running, I'd be surprised if we can't offset most of our usage to Ultra Low with the 2x PW3s.

Your Electricity Charges: Net Metered Residential

*Electricity provided by Alectra Utilities Corporation as Standard Supply Service

Net Metering Accumulated Credit Banked	\$119.84
Ultra-Low Overnight	
On-Peak 2.022 kWh @ \$0.284	\$0.57
Mid-Peak 36.212 kWh @ \$0.122	\$4.42
Off-Peak 69.933 kWh @ \$0.076	\$5.31
Overnight 1,874.183 kWh @ \$0.028	\$52.48
GEN On-Peak -230.194 kWh @ \$0.284	\$65.38 CR
GEN Mid-Peak -680.734 kWh @ \$0.122	\$83.05 CR
GEN Off-Peak -449.753 kWh @ \$0.076	\$34.18 CR
GEN Overnight -0.319 kWh @ \$0.028	\$0.01 CR
Delivery	\$50.26
Delivery Net Metering Accumulated Credit	\$17.40 CR
Regulatory Net Metering Accumulated Credit	\$4.18 CR
Regulatory	\$4.43
Your Total Electricity Charges	\$33.11

+++++

August 2025 Usage

Sent: Monday, Sep 15, 2025, 11:53 AM

September bill:

Your accumulated generation credit balance is \$-364.88. On this bill, your credit balance changed by \$-93.22 after accounting for consumption. The accumulated generation credit balance for your next bill is **\$-458.10**.

Net Metering Accumulated Credit Banked	\$104.85
Ultra-Low Overnight	
On-Peak 0.589 kWh @ \$0.284	\$0.17
Mid-Peak 35.927 kWh @ \$0.122	\$4.38
Off-Peak 38.533 kWh @ \$0.076	\$2.93
Overnight 1,458.918 kWh @ \$0.028	\$40.85
GEN On-Peak -157.296 kWh @ \$0.284	\$44.67 CR
GEN Mid-Peak -575.021 kWh @ \$0.122	\$70.15 CR
GEN Off-Peak -504.683 kWh @ \$0.076	\$38.36 CR
Delivery	\$42.36
Delivery Net Metering Accumulated Credit	\$9.50 CR
Regulatory Net Metering Accumulated Credit	\$2.13 CR
Regulatory	\$2.38
Your Total Electricity Charges	\$33.11

++++++

September 2025 Usage

Sent: Thursday, Oct 23, 2025, 1:05 PM

October bill:

Your accumulated generation previous credit balance is \$-458.10. On this bill based on usage and generation, your credit balance changed by \$-35.71. The accumulated generation credit balance available for your next bill is \$-493.81.

Energy Net Metering Credit Banked	\$67.97	
Ultra-Low Overnight		
On-Peak 0.47 kWh @ \$0.284	\$0.13	
Mid-Peak 35.69 kWh @ \$0.122	\$4.35	
Off-Peak 56.461 kWh @ \$0.076	\$4.29	
Overnight 1,965.4 kWh @ \$0.028	\$55.03	
GEN On-Peak -109.5 kWh @ \$0.284	\$31.10	CR
GEN Mid-Peak -630.719 kWh @ \$0.122	\$76.95	CR
GEN Off-Peak -312.091 kWh @ \$0.076	\$23.72	CR
Delivery Fixed Customer Charges	\$30.74	
Delivery Net Usage Charges	\$23.35	
Delivery Net Metering Credit Utilized	\$25.76	CR
Delivery Line Loss Charge	\$2.41	
Regulatory Net Usage Charges	\$6.50	
Regulatory Fixed Standard Supply Admin Charge	\$0.24	
Regulatory Net Metering Credit Utilized	\$6.50	CR
Your Total Electricity Charges	\$30.98	

+++++

October 2025 Usage

Sent: Sunday, Nov 16, 2025, 9:57 AM

November bill... the first time I've used up some credits, which interestingly I still generated enough to cover my usage, but the extra account fees that the credits can be used for applied some 'banked credits' vs. what I generated the past month.

This bill also shows the new rates, and we're really getting hit now by the lower temperatures causing additional hot tub heating, more car battery usage, and more car battery charging!

Your accumulated generation previous credit balance is \$-493.81. On this bill based on usage and generation, your credit balance changed by \$17.53. The accumulated generation credit balance available for your next bill is \$-476.28.

Energy Net Metering Credit Banked	\$22.85
Ultra-Low Overnight	
On-Peak 0.41 kWh @ \$0.284	\$0.12
Mid-Peak 27.785 kWh @ \$0.122	\$3.39
Off-Peak 3.515 kWh @ \$0.076	\$0.27
On-Peak 0.129 kWh @ \$0.391	\$0.05
Mid-Peak 0.099 kWh @ \$0.157	\$0.02
Off-Peak 0.091 kWh @ \$0.098	\$0.01
Overnight 1,508.446 kWh @ \$0.028	\$42.24
Overnight 454.078 kWh @ \$0.039	\$17.71
GEN On-Peak -48.484 kWh @ \$0.284	\$13.77 CR
GEN Mid-Peak -369.678 kWh @ \$0.122	\$45.10 CR
GEN Off-Peak -161.528 kWh @ \$0.076	\$12.28 CR
GEN On-Peak -1.932 kWh @ \$0.391	\$0.76 CR
GEN Mid-Peak -67.055 kWh @ \$0.157	\$10.53 CR
GEN Off-Peak -43.018 kWh @ \$0.098	\$4.22 CR
Delivery Fixed Customer Charges	\$32.86
Delivery Net Usage Charges	\$29.70
Delivery Net Metering Credit Utilized	\$32.11 CR
Delivery Line Loss Charge	\$2.41
Regulatory Net Usage Charges	\$8.27
Regulatory Fixed Standard Supply Admin Charge	\$0.25
Regulatory Net Metering Credit Utilized	\$8.27 CR
Your Total Electricity Charges	\$33.11

++++++

November 2025 Usage

Sent: Tuesday, Dec 16, 2025, 5:10 PM

December bill – we're using up credits now (\$145) with very little generation in November.

Your accumulated generation previous credit balance is \$-476.28. On this bill based on usage and generation, your credit balance changed by \$143.66. The accumulated generation credit balance available for your next bill is **\$-332.62.**

Energy Net Metering Credit Utilized	\$75.13	CR
Ultra-Low Overnight		
On-Peak 0.579 kWh @ \$0.391	\$0.23	
Mid-Peak 89.694 kWh @ \$0.157	\$14.08	
Off-Peak 25.77 kWh @ \$0.098	\$2.53	
Overnight 2,373.381 kWh @ \$0.039	\$92.56	
GEN On-Peak -2.564 kWh @ \$0.391	\$1.00	CR
GEN Mid-Peak -159.633 kWh @ \$0.157	\$25.06	CR
GEN Off-Peak -83.803 kWh @ \$0.098	\$8.21	CR
Delivery Fixed Customer Charges	\$29.68	
Delivery Net Usage Charges	\$50.35	
Delivery Net Metering Credit Utilized	\$54.50	CR
Delivery Line Loss Charge	\$4.15	
Regulatory Net Usage Charges	\$14.03	
Regulatory Fixed Standard Supply Admin Charge	\$0.23	
Regulatory Net Metering Credit Utilized	\$14.03	CR
Your Total Electricity Charges	\$29.91	

Real World Generation

Here is a screenshot of this client's total actual solar generation for the year to date. Our Aurora software predicted 11.625 MWh of generation (see first page of this document) and their system has generated 11.500 MWh so far, with two more weeks of generation to go. We're almost right on the button with our prediction, in spite of an atypically snowy and grey November and December.

Note: Bar height shows total Solar Generation. The Grey portion is the generation sent out to the grid and the Blue portion is the generation used by the house.

Screenshot from 2025-12-17

