

How are solar panel systems sized in Lethbridge?

Let's say someone applies for a solar panel installation in January 2024 and the solar installer looks back at the previous 24 months of power usage at their location. The installer finds the following data in the tables below.

The installer will then use a string of 12 months within the whole period to find the largest total energy use. Those months must be consecutive.

1 January 2022 to December 2022
Total energy used → 8,019 kWh

2 January 2023 to December 2023
Total energy used → 8,037 kWh

3 April 2022 to March 2023
Total energy used → 7,936 kWh

4 **December 2022 to November 2023**
Total energy used → 8,090 kWh **LARGEST**

Once the installer has found the largest total energy use over a consecutive 12-month period, they add 10% to account for any inaccuracies.

8,090 kWh + 10% increase = 8,899 kWh

Once Lethbridge Electric Utility (LEU) verifies the correctness of this data, the applicant would be allowed to install a solar panel system that produces no more than 8,899 kWh of energy per year.

It's then up to the solar consultant to determine the number and orientation of rooftop solar panels it would take to produce that amount of energy.

1

Month	Energy used (kWh)
January	773
February	646
March	622
April	636
May	512
June	657
July	722
August	756
September	830
October	592
November	605
December	668
January	695
February	682
March	581
April	602
May	536
June	712
July	695
August	800
September	812
October	625
November	682
December	615

2

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4

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