

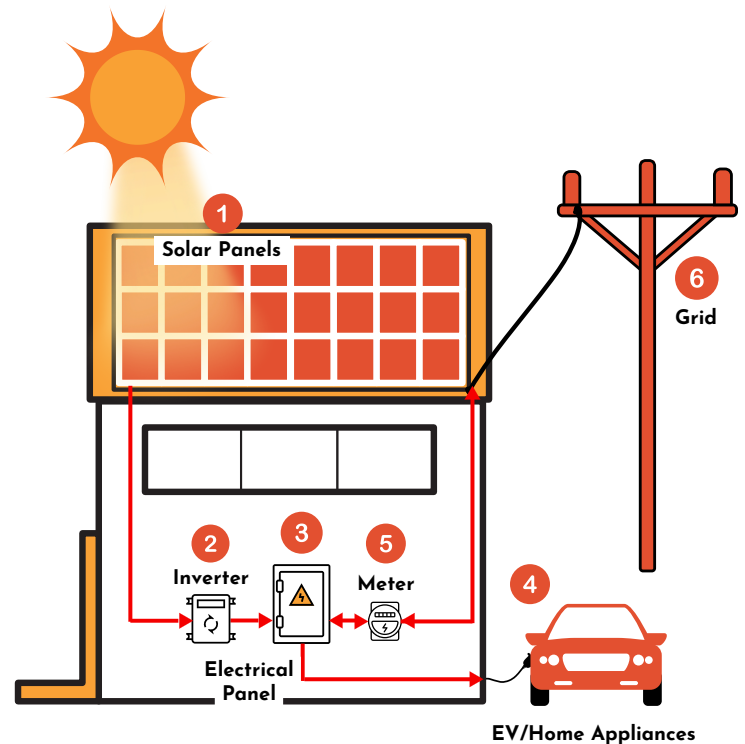
Learn About Solar

Solar photovoltaic (PV) modules harness the sun's light to produce electricity.

Solar PV modules generate electricity in a quiet and clean way over a long period of time. They are typically warrantied for 25 years and can last much longer!

How does it work?

- 1 Sunlight hits the solar modules and they generate electricity.
- 2 This electricity travels to the inverter, which converts the direct current (DC) into alternating current (AC).
- 3 This electricity is fed into the house's main electrical panel.
- 4 The electricity from the solar system will be used to power all appliances and devices (or even an electric vehicle) that are using electricity in your home at that time. Since this energy is coming directly from your solar system rather than the electricity grid, you won't have to pay for that electricity.
- 5 A bi-directional meter keeps track of the energy taken from the grid as well as the energy put onto the grid.
- 6 Extra electricity that you generate will go to the main power grid. This will show up as a credit on your electricity bill.



Benefits of Solar

- **Significantly** reduces electricity bills
- **Protects** against rising energy costs
- **Pays for itself** over time
- May **increase** your property value
- Protects the **environment**
- Demonstrates your **commitment to sustainability**

Learn About Solar

How to find an installer:

- 1 Visit solaralberta.ca to use the **Installations Near You Map** and **Solar Alberta Directory** to:
 - Find installers who have agreed to abide by the **Alberta Solar Business Code of Conduct**
 - Review length of time in business, number of systems installed, and certifications of company
 - Try the **Request for Proposals/Quotes** form
- 2 Enquire about:
 - **Warranties** for products & workmanship
 - Maintenance & disposal **commitments**
 - **References** & proof of **insurance**
 - Do they have a **Journeyperson Electrician** or a Registered Apprentice under the supervision of a Certified Electrician to pull permits?
- 3 Solicit **at least 3 quotes**



Did you know?

- An Edmonton-based study on the roof of NAIT found that **snow only reduced solar module production by ~3%** over the course of a year.
- Approximately **95% of a solar panel can be recycled**. Solar panels are made of glass, plastic, metals and other recyclable materials, and are being integrated into standard electronic recycling systems.
- Globally, the **price of solar PV modules dropped by 90%** from 2010 to 2020!

The Cost of Solar

The cost of an installation will be unique and will depend on factors such as the installation size, home's geographic location, roof's design and shading, equipment and hardware specifications, and current solar incentives.

The Size of Solar

The Government of Alberta's Microgeneration Regulation stipulates that solar systems may be sized to meet all or a portion of the customer's total annual on-site electricity consumption. They may not exceed this size under that regulation. The Small Scale Generation Regulation enables a larger system size if desired (but more paperwork!).

About Solar Alberta

We are a non-profit society dedicated to accelerating a just and sustainable energy transition.

-  www.solaralberta.ca
-  hello@solaralberta.ca
-  780-443-7788

