

Solar PV Panels

Sunlight → **Renewable Energy**

HOW DO THEY WORK?

Solar photovoltaic (PV) technology captures energy from the sunlight and converts it to electricity.



HOW MUCH ENERGY DOES A SOLAR PANEL PRODUCE?

Large enough to just fit in a pickup truck bed, a 300W solar panel tilted at 60 degrees will generate 300 kWh per year in Igiugig.

A TYPICAL FRIDGE USES ~ 300 KWH PER YEAR

DO THEY WORK IN THE WINTER?

Solar PV can be a viable source of energy in more than just the sunny summer, even when there are clouds. Snow reflection on the ground, called albedo, creates energy in the spring.



WHAT CAN I DO?

1 Talk with local & regional energy professionals in your community!

2 Find out:
What is an inverter?
Do I need a battery?
Is a panel easy to install?

3 Check these out to answer the questions above:
 Alaska Solar Design Manual Economics of a home installation



Photo courtesy of Kacey Miller and family