

## Produce your own solar electricity

**Smart** - supply your own solar power to SaskPower when the sun shines and save up to 90% on power bills.

**Easy** - SaskPower supplies your power when the sun doesn't shine.

**Affordable** - a **35% rebate** helps you get started and SaskPower credits your bill for power you produce.



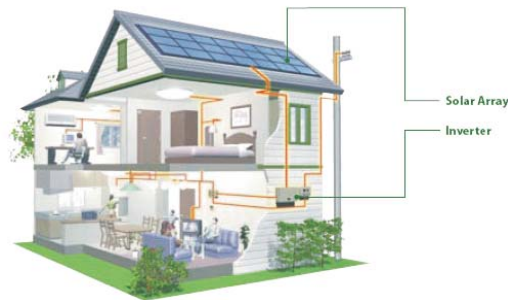
**Simple to Set Up** - call us to find out how you can start to generate your own power and savings.

**306-341-1151 or  
306-493-2355**

## A 35% Rebate will help you get started

To help home and business owners to take advantage of this clean, renewable energy source, a **35% rebate** is available in Saskatchewan, through the Saskatchewan Research Council (SRC), for the cost of setting up a grid-tied solar or wind power system.

The rebate applies to the cost of the equipment, the equipment installation and the application and installation fees for SaskPower.



A grid-tied solar or wind power system operates unobtrusively in the background as you go about your daily life, quietly generating savings. Coupled with sensible power usage, a solar and wind power system could supply all of your electrical needs.

Solar and wind energy reduce your dependence on your current fossil fuelled power systems. It's smart, easy and reliable - a great way to save money and help the environment.

**[www.suncatchersolar.com](http://www.suncatchersolar.com)  
[angie@suncatchersolar.com](mailto:angie@suncatchersolar.com)  
306-341-1151 or 306-493-2355**



## Grid-tied Solar and Wind Power Systems

Turn sunlight into electricity  
and save **up to 90%**  
on electrical bills



Receive a **35% rebate**  
on the cost of your system.  
Feed extra power back into the grid.

It's smart, easy and reliable.

Call us  
for a free estimate  
for a solar power system  
on new or existing homes.

## Solar and Wind - Clean, Renewable Power with a 35% Rebate to help you get started

**S**olar is a proven, affordable and practical source of energy. You generate solar energy right where it is needed - at your business or in your home. The benefits are real and immediate - creating energy savings for years to come while reducing Greenhouse Gas (GHG) emissions and helping the environment.



Sunlight is converted to electricity by photovoltaic cells in solar panels installed on your roof or on a pole mount in your yard.



**O**n a sunny day, solar panels will produce electricity to operate household appliances. Extra power can be fed back into SaskPower's grid and will be used against future power bills. When there is not enough electricity from the sun, SaskPower will supply the electrical needs of the home. You will pay only for the difference between the power supplied by SaskPower and the power produced by the solar panels. This is called "net metering" because you only pay for the "net" amount used. You can bank the extra electricity you produce for up to one year.

The amount of energy you produce depends on the size of the solar array. In the Saskatoon area, a 1 kW array mounted on a south facing roof will produce about 1300 kWh per year. This is about 3.7 kWh per day. A good size of array for most homes would be between 2 and 5 kW, producing 3000 to 6000 kWh per year, and offsetting 2500 to 5000 kg of GHG emissions.

Solar Array Size	1.05 kW	2.376 kW	3.564 kW	4.752 kW
Average Annual Output (kWh/yr)	1340	3032	4549	6065
Average Daily output (kWh/day)	3.7	8.3	12.5	16.6
GHG reduction (kg/yr)	1099	2487	3730	4973

A solar power system is highly reliable. There is no maintenance - solar panels have a 25 year warranty and an expected lifetime of 35 years or more.

**W**ind turbines are a good choice for acreages and farms with open spaces and strong winds. A wind turbine has a minimum wind speed of about 7 mph below which it will not produce any power. Above this cut-in wind speed the amount of power depends on the wind speed. The interesting thing about wind is that if you double the wind speed the wind turbine will produce eight times as much power - so wind generators do best in areas with frequent high winds.

Wind turbines must be mounted on a tower that is 30 feet or more above any surrounding obstructions. This is why they are not feasible in the city. In rural areas, however, a combination solar and wind power system is a very cost effective choice.

Suncatcher Solar installs Raum Energy wind turbines that are designed and manufactured in Saskatoon for Saskatchewan conditions.

**R**aum Energy wind turbines were developed to operate in just about any climate with no scheduled maintenance. Two turbine models are available: 1.4 kW and 3.5 kW.



Raum Wind Turbine	1.4 kW	3.5 kW
Average Annual Output (kWh/yr)	2400	4800
Average Daily output (kWh/day)	6.6	13.2
GHG reduction (kg/yr)	1968	3936