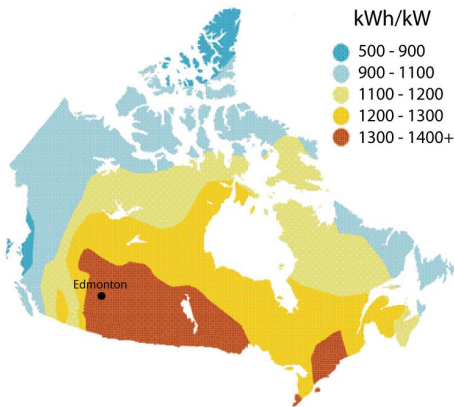


# Solar Power Information Sheet

## Renewable Energy Sources

Solar power is just one example of a renewable source of energy that can be used in conjunction with or to replace energy generated from fossil fuels. Other examples of renewable energy sources include wind, tidal and geothermal. However, solar has the greatest potential for Edmonton and area.



Solar radiant (sunlight) in Canada  
Source: Natural Resources Canada

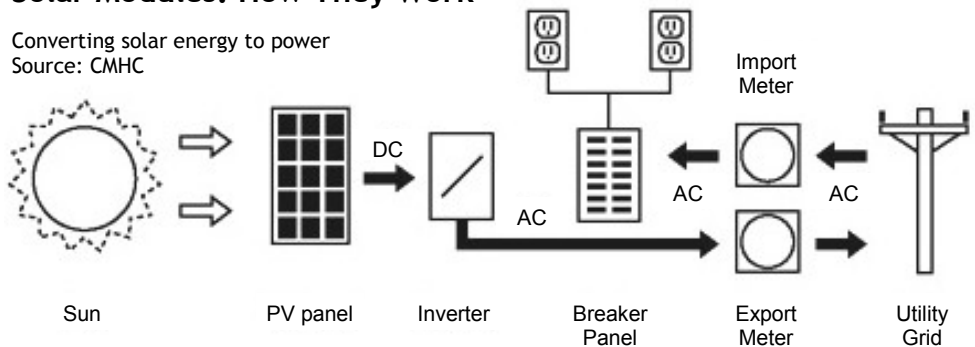
## Why solar power?

- Edmonton gets a lot of sun
- Solar energy will never run out
- Cost of solar PV systems continues to decline
- Once system is paid for, energy is free
- Reduce greenhouse gas emissions
- Support renewable energy

A 1 kW solar system will generate 1,245 kWh per year in Edmonton.

## Solar Modules: How They Work

Converting solar energy to power  
Source: CMHC



## Feeding Back to the Grid

When there is insufficient energy generated by the sun, the electrical system will seamlessly draw electricity from the grid. Conversely, when the solar PV system generates excess energy over and above what is required, the electricity will be exported to the grid. By supplying electricity to the grid, a credit will appear on one's electrical bill.

## Solar and Energy Savings Program



[www.efcl.org](http://www.efcl.org)

The Solar and Energy Savings Program (SESP) is designed to help community leagues improve building energy efficiency and save money while also generating a portion of their energy from solar power.

The program was funded by the participating leagues, the City of Edmonton and the Municipal Climate Change Action Centre.

## Importance Of Energy Audits

1. Energy audits (or assessments) help you to understand and prioritize your retrofit and efficiency efforts.
2. Energy assessments report on the state of appliances, lighting, building envelope, insulation, windows and more.
3. The report will help you understand what actions will give you the highest return on your investments in energy efficiency.
4. Energy assessments are typically required in order to qualify for retrofit rebates (when applicable).



C Returns is a non-profit organization that helps building and home owners through the entire process of organizing audits, retrofit contractor selection and applying for rebate programs.

## EFCL Program Partners and Websites

### THE WAY WE GREEN

City of Edmonton  
[www.edmonton.ca/TheWayWeGreen](http://www.edmonton.ca/TheWayWeGreen)



Solar Energy Society of Alberta  
[www.solaralberta.ca](http://www.solaralberta.ca)



Take Action to Manage Energy  
(TAME) Buildings Initiative  
[www.mccac.ca](http://www.mccac.ca)



Howell-Mayhew Engineering Inc.  
[www.hme.ca](http://www.hme.ca)