

# The Five Main Renewable Energies



## Wind Power

- Wind powers 315,000 homes and businesses in Canada
- Wind power is the world's fastest growing energy source
- Canada could reasonably meet 20% of its total energy needs with wind power
- [www.canwea.ca](http://www.canwea.ca)

## Hydroelectricity

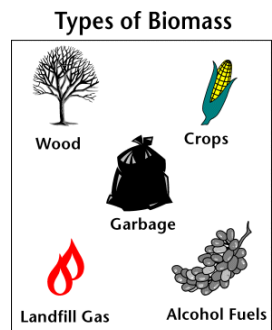
- In Canada, hydroelectricity is used so extensively that the word "hydro" is used to refer to any electricity delivered by a power utility.
- Hydroelectric power supplies 20% of world electricity, but Canada is the world's largest producer of hydro power and produces over 70% of its electricity from hydroelectric sources.
- [www.canhydropower.org](http://www.canhydropower.org)

## Solar Power is most often used for

- Cottages and Remote Residences
- Mobile and Recreational Applications
- Agriculture
- Other (calculators, telecommunications equipment, highway construction signs, parking lights, and navigational warning signals)
- Solar power could satisfy up to 47% of residential electrical energy demand in major Canadian cities
- [www.cansia.ca](http://www.cansia.ca)

**Biomass Energy** comes from many different sources (at right), each with their own pros and cons.

- Burning garbage or landfill gas results in the release of emissions that could be harmful to the environment.
- [www.canbio.ca](http://www.canbio.ca)



**Geothermal Energy** comes from the natural heat of the centre of the Earth.

- Geothermal is being used for space heating in 30,000 locations in Canada (at right) but is also being produced for electricity in the United States, Italy, France, New Zealand, Mexico, Nicaragua, Costa Rica, Russia, the Philippines, and Indonesia.
- [www.geothermal.ca](http://www.geothermal.ca)

