**Energy use in Canada**

Canada is the largest per capita use of energy because



Energy can be divided into 2 categories

1. Conventional
2. Alternative

**Conventional Energy**

Energy that is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ used as sources of:



**Renewable Sources of Energy**

An energy supply that can **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** itself fairly quickly (can make more within our lifetime)

* Example: **wood**
  + It grows relatively quickly (especially bamboo) and is used for \_\_\_\_\_\_\_\_\_\_, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ & \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. **Hydro-electric Power**

Definition - Power that is created by \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

Example: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

About \_\_\_\_\_\_\_\_\_\_ of all of Canada’s electricity comes from hydroelectric power

2 Benefits of Hydro Electric Power

1.

2.

2 Problems with Hydro Electric Power

1.

2.

**Non Renewable Sources of Energy**

Definition: Energy that **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** reproduce itself (once it’s gone, it’s gone forever!)

Examples

1.

2.

3.

1. **Nuclear Power**

* Inside a nuclear power plant, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (neutrons) are fired at \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_atoms.
* As the uranium atoms shatter apart, they release \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
* The heat energy is then converted to \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ inside the power plant
* This process uses up the uranium which is a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* Nuclear reactors produce about \_\_\_\_\_\_\_\_\_\_\_ of Canada’s electricity

2 Benefits with Nuclear Electric Power

1.

2.

2 Problems with Nuclear Electric Power

1.

2.

1. **Fossil Fuels**

* Fossil fuels contain the stored \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_of things that were once \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* Examples are: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* About \_\_\_\_\_\_\_\_ of Canada’s electricity comes from burning non-renewable fossil fuels
* They power almost all our modes of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* They \_\_\_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_\_\_ most of our homes, businesses and industries (and schools!)

2 Benefits with Fossil Fuels

1

2.

2 Problems with Fossil Fuels

1.

2.

3.

4.

1. **Thermal Electric Power**

* Energy created by \_\_\_\_\_\_\_\_\_\_\_ and/or \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* This is the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ form of the conventional energy systems

How does it work ?

* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_is burned in furnaces to provide enough heat to \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_water and create \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
* The steam spins \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ that produce electricity

Benefit

* It is the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ expensive type of conventional energy

Problem

* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_from burned fossil fuels harms the atmosphere causing…

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