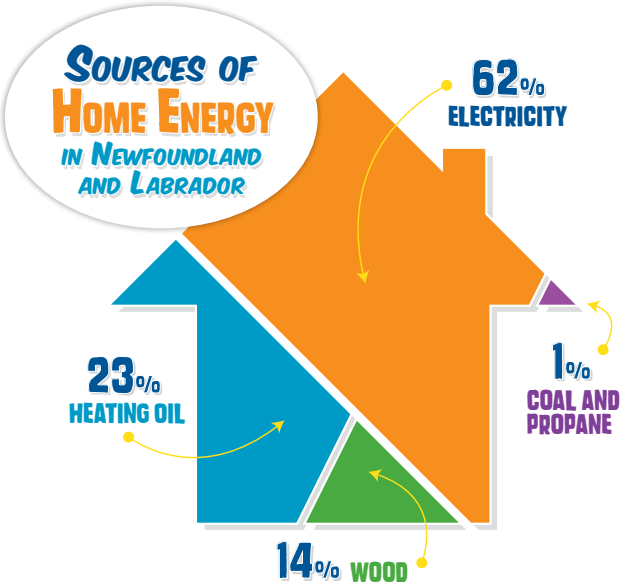
WHERE DOES ENERGY COME FROM IN NEWFOUNDLAND AND LABRADOR?

SOURCES OF ENERGY

The energy we use comes from a variety of sources. We use energy to run our cars, trucks and buses. This energy is usually generated by burning gasoline or diesel. We also use a lot of energy in our homes. This includes burning oil and wood for heating, as well as using electricity for heating and to run appliances.

Electricity is by far the largest source of energy used in our homes.



SOURCES OF ELECTRICITY

HYDROELECTRICITY is a renewable energy source that comes from hydroelectric plants built throughout our province. It's one of the cleanest sources of energy, which is good because hydroelectricity provides 89% of our province's electricity! This will increase to 98% when the Muskrat Falls Project is completed in 2017/18 and the Holyrood Thermal Generating Station is decomissioned.

OIL is burned at the Holyrood Thermal Generating Station on the Avalon Peninsula to generate electricity. This station provides between 15–25% of the island of Newfoundland's electricity. However, once the Muskrat Falls Project comes in-service, this station will be decomissioned.

DIESEL FUEL is burned to generate electricity for communities that are not connected to the Labrador or island electricity grids. It is also burned to generate backup electricity and to provide voltage support.

WIND ENERGY is generated at three wind farms in Newfoundland and Labrador, creating enough electricity to power over 12,300 homes every year.

BIOMASS (including wood chips) is used in Corner Brook to generate electricity.

WHAT'S AN ELECTRICITY GRID?

Before electricity reaches our homes or schools, it travels through a complex system of transmission and distribution lines known as an **electricity grid**. In Newfoundland and Labrador, there are over 18,000 km of transmission and distribution lines, which is long enough to stretch from St. John's to Vancouver, and back again.