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## The Current Energy Issues in Canada

Dear Future Self,

Hello there! How have you been? I hope all is well and that you have a great day. I wanted to reach out to you regarding the energy crisis in Canada. Before we go any further, let's take a look at what energy usage entails now.

To start, energy usage is our process of using energy or the amount of energy that is used. More than half of the electricity in Canada (61%) is generated from hydropower sources. It is by far the most important form of renewable energy produced in Canada. Wind and bioenergy also make an important contribution to Canada's energy mix. The majority of the world's energy comes from a combination of fossil fuels, nuclear power, and renewable sources such as solar and wind. Energy fuels our lives and is so important because it is a basic human need. Humanity has used energy to power homes, buildings, and vehicles for centuries. It has become an integral part of our day-to-day life as we rely on it for transportation, food, communication, and more. Energy is an essential need that cannot be substituted by any other form of resource. All of our existing transportation models including cars, trains, buses, and planes are powered by energy.

Additionally, we divide our energy use across four economic sectors: Residential, Commercial, Transportation, and Industrial. Energy is a necessity in the modern era. Whether it be used to heat or cool our homes, provide light in office buildings, power cars, and trucks so they can move freight, or be used to produce products that we rely on in our day-to-day lives, energy is indispensable. Energy is also used when watching television, washing clothes, lighting the home, taking a shower, working from home on your laptop or computer, running appliances, and cooking. Residential uses of energy account for around forty percent of total global energy consumption.

Lastly, here are the energy-related issues that I find alarming; Greenhouse gas emissions, Climate change, Water pollution, Thermal pollution, and Solid waste disposal. These are all important issues that need to be addressed in the interest of protecting not only future generations but also our own. For example, Greenhouse gasses contribute significantly to global warming and other environmental changes which can have disastrous consequences for human health. A new study conducted by the World Health Organization has shown that climate change is already having a major effect on human health. The study found that as the earth gets warmer, it leads to higher levels of air pollution, which in turn causes respiratory disease. They also contribute to climate change, which has already been linked to extreme weather events, food supply disruptions, and increased wildfires. As one of the most dangerous weather

phenomena, excessive heat can put lives at risk. Climate change is causing heat waves to become more intense and frequent, which increases the risk for people to experience heat-related illnesses or being killed by suffocation, which can lead to a range of indirect deaths. In turn, increased pollution levels and energy usage due to global warming will further create new water pollution problems, such as oil spills. One issue with oil spills is that they can happen in any petroleum-handling operation. Though it may be rare, there is always a chance that an oil spill will occur and this would lead to the pollution of the earth or a body of water. Coal mining can also pollute the air because when coal is burned, a lot of heat energy will be released in the process. Solid waste is also one of the byproducts of some forms of energy usage. Improper disposal of municipal solid waste can create unsanitary conditions, and these conditions in turn can lead to pollution of the environment and outbreaks of diseases transmitted by insects and rodents.

If there are a lot of energy-related issues currently then what did Canada do to fix these issues? I also wanted to ask some questions regarding energy in your generation. I wanted to know if Canada invested in future energy technologies? Is Canada continuing to extract fossil fuels such as coal and oil from our natural resources? Has Canada issued new policies that would incentivize the use of electric cars? Have Canadians focused more on renewable energy as opposed to non-renewable energy? Finally, did Canada educate its citizens about their future energy use? I'm hoping to hear back from you!

Sincerely,  
Raveena