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## Non renewable resources worksheet answers

Describe the global and Canadian production and use of metals, fossil fuels and other non-renewable resources. Explain the heavy dependence on industrialized economies on non-renewable resources, and predict whether these essential sources of materials and energy will continue to be readily available for the foreseeable future. Outline five important energy sources available for use in industrialized countries, and describe the potential roles of these in a sustainable economy. a light hydrocarbon mixture known as gasoline, which is used to fuel cars slightly heavier fractions, such as diesel used by trucks and trains and a home-heating fuel kerosene, which is used for heating and cooking and as fuel for aircraft dense remaining oils, which are used as fuel in oil power plants and in large ships semi-solid asphalt used to pave roads and produce roofing products Run-of-the-river hydropower involves tapping the natural flow of waterways without developing a large storage reservoir. Therefore, this power production depends on the natural patterns in the river flow and is very seasonal. Reservoir-generated hydropower involves the construction of a dam in a river to store a large amount of water in a lake-like waterwater. The reservoir accumulates part of the seasonally high current so that power production can occur relatively smoothly throughout the year. Some enormous reservoirs have been developed by flooding extensive lands that had previously been covered by forests and wetlands at various locations in Canada, such as in British Columbia, Labrador, Manitoba and Quebec. Using information from this chapter, describe the Canadian and global production and use of non-renewable resources. Show how industrialized countries rely mainly on non-renewable resources to sustain their economies. Will this type of resource use be able to continue for a very long time? Why or why not? What are the various non-renewable and renewable energy sources available for use in industrialized countries? What are the future prospects for increasing the use of renewable sources? What are the main sources of energy and materials that are ultimately based on sunlight? Which of these resources would you consider being renewable and not? Outline how to use energy, both directly and indirectly. How can you reduce energy consumption for each of the most important applications? How will a decrease in energy consumption affect your lifestyle? What are the apparent barriers to the widespread introduction of renewable sources of materials and energy into advanced economies (such as Canada)? What are the roles of non-renewable and renewable resources in a sustainable economy? Biomass, wind and hydropower are all examples of renewable energy sources. Examine the energy source for several countries in Table 13.9 and discuss why they do not rely more on renewable energy sources. Make lists of the apparent benefits and risks associated with nuclear power. Focus on resource and environmental issues, such as the depletion of fossil fuels, greenhouse gas emissions and long-term disposal of toxic and hazardous waste. A committee in the House of Commons is examining the sustainability of the Canadian economy. You are an environmental scientist, and the committee has asked them to advise them on improving sustainability using materials and energy. What do you want to tell them about the sustainability of current use? What improvements would you recommend? To continue to enjoy our site, we ask that you verify your identity as a human being. Thank you very much for your cooperation. Wait... Wait... Wait...