

Energy Resources Quiz

Time: 30 min. 8 questions.

Instructions

Answer each question using what you have learned about energy resources. Read each question carefully, and write your answers in full sentences where asked. You may use words like renewable, non-renewable, advantage, and disadvantage in your answers.

Questions

- Which of the following is a non-renewable energy resource?
A) Wind
B) Solar
C) Fossil fuels
D) Biomass
([Knowledge](#))
- In your own words, explain the difference between a renewable energy resource and a non-renewable energy resource. Give one example of each. ([Skills](#))
- True or False: Alberta relies only on non-renewable energy resources to meet its energy needs. ([Knowledge](#))
- How many renewable energy resources are named in your energy resources chart? Write the number. ([Knowledge](#))
- According to the Heat the Home comparison, which of these is listed as an advantage of solar energy?
A) It is easy to extract from Alberta
B) Solar panels last more than 20 years
C) It causes deforestation
D) It is a fossil fuel
([PDF p.1](#))
- Name one disadvantage of using fossil fuels to heat a home. ([PDF p.1](#))
- True or False: Solar panels are expected to last more than 20 years before needing to be replaced. ([PDF p.1](#))
- According to the Heat the Home comparison, solar panels last for more than how many years? Write the number. ([PDF p.1](#))

Curriculum coverage

Question	Outcome alias
1	Knowledge
2	Skills
3	Knowledge
4	Knowledge
5	PDF p.1
6	PDF p.1

7	PDF p.1
8	PDF p.1

Answer key

1. C) Fossil fuels. Fossil fuels are named as a non-renewable energy resource, since they are depleted over time and are not naturally replenished for thousands or millions of years ([Knowledge](#)).
2. Renewable resources, such as solar or wind, can be naturally replenished if handled responsibly, while non-renewable resources, such as fossil fuels or nuclear, are depleted over time and will not be replenished for thousands or millions of years ([Skills](#)).
3. False. Alberta relies on both renewable resources, such as water, hydro, wind, and biomass, and non-renewable resources, such as fossil fuels, to meet its energy needs ([Knowledge](#)).
4. 6. The renewable resources listed are solar, wind, biomass, geothermal, tidal, and water and hydro ([Knowledge](#)).
5. B) Solar panels last more than 20 years. This is listed as an advantage of solar energy in the Heat the Home comparison ([PDF p.1](#)).
6. Any one of: burning fossil fuels harms the environment, or fossil fuels are depleted over time. Both are listed as disadvantages of fossil fuels ([PDF p.1](#)).
7. True. The source states that solar panels last more than 20 years as one of the advantages of solar energy ([PDF p.1](#)).
8. 20. The source states that solar panels last more than 20 years ([PDF p.1](#)).