

Name: _____

Energy Resources Study Guide

Know positives and negatives for all energy sources

	Positive	Negative
Coal	Abundant, cheap, and reliable	Produces air pollution and greenhouse gases
Oil	High energy density, easy to transport	Finite resource, produces air pollution and greenhouse gases
Natural gas	Cleaner burning than coal and oil	Finite resource, produces greenhouse gases
Solar	Renewable, clean, and abundant	Intermittent, requires large area for panels
Hydrogen fuel cell	Clean, efficient, and versatile	Expensive to produce and store
Hydroelectric	Renewable, clean, and reliable	Requires large dams, can disrupt ecosystems
Nuclear	High energy density, low greenhouse gas emissions	Produces radioactive waste, risk of accidents
Geothermal	Renewable, clean, and reliable	Location specific, can cause land subsidence
Wind	Renewable, clean, and abundant	Intermittent, can be noisy and affect bird migration

What is the process called when uranium is split for nuclear power? How much uranium is needed for this process?

What are the three fossil fuels?

What happened to the Chernobyl nuclear power plant?

Which produces more power fossil fuels or renewable energies?

What are photovoltaic cells used in?

What element is used in photovoltaic cells?

What country has the highest reserve of petroleum?

What renewable energy is the most widely available to use?

What causes acid rain?

Why is geothermal such a limited resource?

What are some examples of biomass fuels?