



DIVE DEEPER: Energy Teacher Lesson Plan

SYNOPSIS

How do our energy choices impact climate change, and what can we do about it? What are the global trends in fossil fuel and renewable energy use? What energy solutions can we apply nationally and in our homes? This course teaches the main concepts in the *Just Have a Think Global Emissions Rebound video #148* and goes beyond to help students learn additional climate change or energy concepts.

TOTAL TIME

45-50 min (one class period).

ACTIVITY

Watch the relevant video as a class (10-15 minutes); then have the students work either in small groups or individually online through active student responding (answering questions, receiving hints and feedback for each question). The students should use the hints if they don't know the answer. The video is embedded in the online course and is also available on YouTube at: https://youtu.be/me_cwc7hHUI **Optional discussion on connections:** What suggestions do the students have to save energy in their own home? At school? What factors do we consider, both good and bad, when we're evaluating different energy choices?

LEARNING OUTCOMES

Modified Bloom's Taxonomy: Definition/Conceptual; Explain/Identify; Apply

- Students will **define key terms** underlying the connection between energy and climate change including: fossil fuels, renewable energy, and electric grids.
- Students will **analyze and interpret data** to **explain/identify** global trends in energy use, the energy sources, sectors, and products of greatest importance to climate change, the relationship between energy choices, temperature, and CO2 emissions, and between countries, population, and CO2 emissions.
- Students will **apply energy-saving solutions** at home and for their nation.

PLANNING

Register your class by emailing: support@behaviordevelopmentsolutions.com

SCIENCE STANDARDS

NGSS

Common
Core



HS-LS2-7

HS-PSS3-3

HS-ESS3-4

HS-ESS3-6

CCSS.ELA-
LITERACY.
RST 9-10.2/
11-12.2.

CCSS.ELA-
LITERACY.
RST 9-10.4/
11-12.4.