

SUGGESTED SKILL

 *Environmental Solutions*

7.A

Describe environmental problems.



AVAILABLE RESOURCES

- Classroom Resource > [AP Environmental Science Teacher's Guide](#)
- The Exam > [Chief Reader Report 2018, Q1](#)
- The Exam > [Samples and Commentary 2018, Q1](#)

TOPIC 6.5

Fossil Fuels

Required Course Content

ENDURING UNDERSTANDING

ENG-3

Humans use energy from a variety of sources, resulting in positive and negative consequences.

LEARNING OBJECTIVE

ENG-3.E

Describe the use and methods of fossil fuels in power generation.

ENG-3.F

Describe the effects of fossil fuels on the environment.

ESSENTIAL KNOWLEDGE

ENG-3.E.1

The combustion of fossil fuels is a chemical reaction between the fuel and oxygen that yields carbon dioxide and water and releases energy.

ENG-3.E.2

Energy from fossil fuels is produced by burning those fuels to generate heat, which then turns water into steam. That steam turns a turbine, which generates electricity.

ENG-3.E.3

Humans use a variety of methods to extract fossil fuels from the earth for energy generation.

ENG-3.F.1

Hydrologic fracturing (fracking) can cause groundwater contamination and the release of volatile organic compounds.