

**AP® ENVIRONMENTAL SCIENCE
2011 SCORING GUIDELINES**

Question 3

- (a) Iceland's position on the graph is due in part to its access to geothermal energy sources. Describe how electricity is generated from a geothermal source.
(2 points; 1 point for indicating how steam is produced to turn a turbine and 1 point for stating that the energy from the turbine is used to run a generator that produces electrical current)

Steam production (thermal energy into mechanical energy). Any of the following are correct responses:

- High-pressure hot water is pumped out of the earth and put into a low-pressure container to produce steam, which will in turn run a turbine (flash steam plant).
- Wells are drilled, and steam is piped directly to turn a turbine (dry steam plant).
- Hot water is pumped out of the earth; a heat exchanger is used to heat another liquid to produce vapor that is then used to turn a turbine (binary cycle).

Electrical production (mechanical energy into electrical energy)

- The energy from the turbine is used to run a generator.

- (b) Despite its low GDP per capita and low annual electrical energy consumption per capita, China has become the world's largest emitter of CO₂. Explain this apparent contradiction.
(1 point)

Although the per capita electrical energy consumption is low, China is the most populous country on the planet. The sum of individual consumption is large.

- (c) In addition to contributing to increased atmospheric CO₂ concentrations, China is facing other air pollution issues related to the generation of electricity. Identify one such issue and describe the impact it has on human health.
(2 points; 1 point for identifying an issue and 1 point for explaining its impact on human health)

Students can earn 1 point for naming an air pollution issue without mentioning an impact on human health. In order to earn both points, students must correctly link the impact on human health to the air pollution issue.

Issue (1 point)	Impact on human health (1 point)
SO ₂ or SO _x emissions from coal-burning power plants	• Respiratory irritant • Aggravate asthma, bronchitis • Can lead to emphysema • Throat irritant
Particulate matter	• Decreases lung function (lung irritant) • Aggravates asthma • Throat irritant
NO _x from coal and petroleum combustion	• Respiratory irritant • Aggravates heart disease
Ozone, PAN from photochemical smog	• Lung irritant • Eye irritant

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