

Impact of Energy Sources Answer Key

Part A - Renewable Energy Chains

1. **Cause:** A city invests in building more wind farms.
 - **Effect 1:** Less reliance on fossil fuels.
 - **Effect 2:** Air pollution decreases.
 - **Final Outcome:** Cleaner energy supports a healthier environment.
2. **Cause:** A school installs solar panels on its roof.
 - **Effect 1:** The school saves money on electricity bills.
 - **Effect 2:** Less fossil fuel energy is needed from the grid.
 - **Final Outcome:** The school becomes an example of sustainable energy use.

Part B - Nonrenewable Energy Chains

3. **Cause:** A country relies heavily on coal to generate electricity.
 - **Effect 1:** Large amounts of greenhouse gases are released.
 - **Effect 2:** Climate change impacts become more severe.
 - **Final Outcome:** The country faces environmental and health challenges.
4. **Cause:** Cars and trucks continue to burn gasoline as the main fuel.
 - **Effect 1:** Smog and harmful emissions increase.
 - **Effect 2:** Nonrenewable oil supplies are used up faster.
 - **Final Outcome:** Air quality worsens, and energy insecurity grows.

Part C - Reflection

5. **Sample Answer:** Switching to renewable energy helps reduce pollution, slows climate change, saves limited fossil fuels, and provides sustainable power for the future.