

# Renewable & Non-Renewable

Name:

Date:

**INQUIRY**

**China installed more solar panels in 2023 than the entire world did in 2022. Is solar the answer?**

Discuss with your partner. Write your initial ideas below:

## Key Vocabulary

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Term	Definition
<b>Renewable</b>	Won't run out: solar, wind, hydro, geothermal, tidal.
<b>Non-renewable</b>	Will run out: coal, oil, gas, nuclear.
<b>Carbon footprint</b>	Total greenhouse gases from an activity.

## Part A — Classifying

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1. Classify as renewable or non-renewable: solar, coal, wind, natural gas, hydroelectric, nuclear, tidal, oil. [4 marks]

## Part B — Comparing

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2. Compare solar power in Nanjing (lat 32N) vs Berlin (lat 52N). Which city gets more sunlight? Why? Does this affect the efficiency of solar panels? [3 marks]

**3.** South Korea gets 70% of electricity from nuclear and fossil fuels. Germany is closing its nuclear plants. Compare their strategies. Which is better for the environment? [4 marks]