

Renewable Energy STEM Exercise.

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Ticket to Ride – This is an introduction to the five renewable energy resources we have access to today. The game is relatively simple requiring the students to study the five posters and answering a few true or false questions. A ticket punch can make this into a neat classroom game.

Reading the posters gives the students an introduction to renewable energy and will provide a number of concepts and “buzz words” that they can use to research the topics further.

The STEM challenge to the students is to **research, decide, and present** which renewable energy resource (or resources) would be the best for them to use if they lived in different parts of the USA.

Suggested locations for the studies to be undertaken are the Southwest, the Northwest, the Midwest, the Northeast and the Southeast.

No correct solutions are provided for this exercise – the solutions are those presented and defended by the students.

Hints: These are the most prevalent renewable resources available in the target areas.

Southwest – Solar, biomass, biogas, geothermal

Northwest – Hydropower, biogas, wind, biomass

Midwest – Wind, biomass, biogas

Northeast – Wind, hydro, biogas, biomass

Southeast – Biomass, solar, biogas

