

RENEWABLE ENERGY ECONOMICS GAME



KEYWORDS

renewable energy finance

project development

cost analysis

energy economics

investment decisions

Renewable energy project developers, economists, and financial analysts work out how to make clean energy projects affordable and profitable. They study costs, savings, and investment returns for solar panels, wind farms, and energy storage systems. These professionals also work with governments and communities to create incentives that encourage people to use renewable energy. Their work helps more people and businesses switch to clean energy, reducing pollution and supporting climate goals. Green jobs in energy finance are crucial because they make renewable energy a smart choice for companies, cities, and homeowners alike, helping grow the clean energy economy.

AGE RANGE

9-11 years

SMALL GROUPS

(4-5 students)

DURATION

40 minutes

MATERIALS

- Energy cost data sheets
- Calculators
- Scenario cards
- Play money
- Decision worksheets



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PROCEDURE

1. Each group receives household energy scenario
2. Calculate monthly costs for different energy sources
3. Research installation costs for solar panels or wind turbines
4. Determine payback time for renewable energy investment
5. Make investment decision based on calculations
6. Present reasoning to other groups

INSTRUCTIONAL GUIDELINES FOR FACILITATOR

- Provide simplified but realistic cost data
- Help students with percentage and division calculations
- Explain concepts like payback period and return on investment
- Connect to renewable energy finance careers



LEARNING OUTCOMES

- Understand renewable energy economics basics
- Learn about clean energy finance careers
- Practice mathematical problem-solving and decision-making

EXTENSION SUGGESTIONS

- Research government incentives for renewable energy
- Calculate family energy costs
- Interview solar panel installers about economics