RENEWABLE ENERGY INVESTMENT ANALYSIS



KEYWORDS

renewable energy finance

project development

return on investment

financial modeling

energy economics

Renewable energy finance specialists analyze the costs and benefits of investing in solar, wind, and other clean energy projects. They work with investors, governments, and energy companies to decide which projects make financial sense. Their work includes calculating payback periods, energy savings, and environmental benefits. They also consider risks, incentives, and financing options. These green jobs help make renewable energy affordable for more people and businesses, speeding up the transition away from fossil fuels. Finance is a key part of growing the global clean energy market and fighting climate change.

AGE RANGE

12-16 years

INDIVIDUAL ACTIVITY

with group discussion

DURATION 40 minutes

MATERIALS

- Energy cost data
- Calculators
- Investment scenario cards
- Spreadsheet templates
- Presentation guidelines



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PROCEDURE

- 1. Receive specific renewable energy investment scenario
- 2. Calculate installation costs and energy savings
- 3. Determine payback period and return on investment
- 4. Factor in available incentives and financing options
- 5. Make investment recommendations with supporting data
- 6. Present analysis in 2-minute pitch format

INSTRUCTIONAL GUIDELINES FOR FACILITATOR

- Provide realistic but simplified financial data
- Help students understand ROI and payback concepts
- Use spreadsheet templates to speed calculations
- Connect to renewable energy finance careers



LEARNING OUTCOMES

- Understand renewable energy economics
- · Learn about clean energy finance careers
- Practice financial analysis and presentation skills

EXTENSION SUGGESTIONS

- Research local renewable energy incentives
- Interview renewable energy installers
- Create family energy efficiency plan

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