

Energy Project Case Studies

Learning Goal:

Students will understand various sources of electrical energy from real examples and articulate the environmental, economic, and social implications of these energy projects.

Instructions:

Working in pairs or small groups, choose two case studies (try to choose two different technologies) from the list below. Read through the case studies and complete the table on the next page. Do additional research to expand your answers.

Wind energy

- [Suncor Energy Adelaide Wind Power Project](#)
- [Wind Energy Projects in Alberta](#)

Solar energy

- [The Travers Solar Project - Largest in Canada](#)
- [Solar Farm near Innisfail, Lease Amendments with Town](#)
- [Tsilhqot'in First Nation opens B.C.'s Largest Solar Farm](#)

Geothermal energy

- [Geothermal Power Facility](#)

Natural gas

- [Renewable Natural Gas](#)

Oil

- [Cogeneration at Oil Sands](#)

Household waste

- [Southern AB Waste Refinery Turning Trash into Biodiesel](#)

Energy storage

- [The Potential for Using Electric Vehicle Batteries for Renewable Energy Storage](#)

Hydro

- [Generating Power from Tap Water](#)

Names: _____ Homeroom: _____

Not all case studies will answer every question. When the articles do not provide the answer, try and research a possible answer. Please strengthen all of your responses with additional research.

Question	Case Study 1:	Case Study 2:
How much energy is/will be generated by this project?		
How many jobs is the project expected to create?		
Are communities or stakeholders involved? How so?		
What are potential environmental impacts and how are they being addressed? What else could be done to reduce the impact?		