



## SOLAR ENERGY IN A CHANGING WORLD

The solar energy workshop teaches students about the power of the sun on earth. They will learn about how solar energy works and how it contributes to a model of environmental sustainability. We will discuss solar power as a solution for communities where energy is less accessible. We will learn about electricity in a solar system. We will give the students a chance to assemble a solar light kit.

### Presentation Outline

#### Students will be able to:

1. Explain Energy For All and our mission.
2. Understand the need for solar energy in places where electricity can be unreliable.
3. List conventional forms of energy production in Alberta.
4. Explain how solar energy reduces greenhouse gas emissions.
5. Identify how sustainable energy production helps to mitigate the effects of climate change.
6. Understand solar panels and electricity production.
7. Explain each component of a solar circuit.
8. Understand principles of electrical circuits.
9. Talk about an up-and-coming solar project in Tanzania.
10. Assemble a solar circuit with light and switch components.
11. Consider purchasing a solar caddy for the classroom to support our Tanzania project.



### Links to Alberta Curriculum:

The workshop ties into the Alberta Science Curriculum while addressing learner skills and attitudes. The workshop relates best to the following grades and their topics.

Grade	Topic
5	A, B, D
7	C
9	D

- **Duration:** 50-70 minutes
- **Cost** \$5 per student