

## SEASUN Power Systems Energy Cycle

**Objectives:** As a result of this lesson, students will understand how their energy can be transformed into electrical, light, heat, and sound energy, and how all forms of energy originate from the sun. Students will be able to analyze the impacts of technology and human activity on the environment and argue how our use of energy can be made more efficient.



The energy cycle is a bicycle that is attached to a generator and when pedaled, will produce electricity! The generator is attached to a play board that will allow students to see how many volts they are producing as well as *feel* the difference required to light an incandescent versus a fluorescent bulb. Included with this kit is an Energy Cycle Activity Book. This book provides teachers with information on the energy cycle, facts about energy, classroom help, several activities, handouts and answer keys for students.

**This kit includes:**

- Energy Cycle bicycle
- Generator
- Bike stand
- Rubber mat
- Display board
- Energy Cycle binder with activity books and extra informational materials
- VHS Tape
- Wrench
- Screw driver
- Sun Mask
- Hand Towel

\*Any materials that are lost or broken must be replenished before being returned. If the bicycle or play board is damaged during classroom use, we may require a financial compensation for repair.