

## K-2

1. **Sun Prints:** Use sunlight and special paper to create sun prints.
2. **Windmill Craft:** Create a simple paper windmill to understand wind energy.
3. **Solar Oven S'mores:** Build a simple solar oven using a pizza box.
4. **Nature Walk:** Identify natural energy sources like sunlight, wind, and water.
5. **Leaf Rubbing Art:** Use leaves to make rubbings, discussing energy in plants.
6. **Windsock:** Create a windsock to observe wind direction.
7. **Story Time:** Read books about the sun and wind energy.
8. **Simple Water Wheel:** Create a water wheel using plastic cups.
9. **Plant Growth:** Plant seeds to learn about solar energy for growth.
10. **Energy Songs:** Sing songs about the sun, wind, and water.

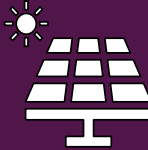


## 3-5

1. **Build a Solar Car:** Construct a simple solar-powered car.
2. **Wind Turbine Model:** Create a model wind turbine using a small motor.
3. **Energy Scavenger Hunt:** Find renewable energy sources around the neighborhood.
4. **Solar Water Heater:** Make a basic solar water heater with plastic bottles.
5. **Renewable Energy Poster:** Design posters highlighting different energy sources.
6. **DIY Anemometer:** Build an anemometer to measure wind speed.
7. **Energy Comic Book:** Create a comic book about renewable energy heroes.
8. **Solar Panel Experiment:** Use small solar panels to power tiny devices.
9. **Water Cycle Model:** Build a model to demonstrate the water cycle and energy.
10. **Energy Debate:** Discuss the pros and cons of various energy sources.

## 6-8

1. **Design a Wind Farm:** Plan a mini wind farm using paper and fans.
2. **Solar Cooker Competition:** Create solar cookers and test their effectiveness.
3. **Hydroelectric Generator:** Build a simple generator using magnets and coils.
4. **Energy Audit:** Conduct an energy audit of the school or home.
5. **Biomass Experiment:** Create a small compost bin to understand biomass.
6. **Wind Power Math:** Calculate energy output from a model wind turbine.
7. **Renewable Energy Timeline:** Create a timeline of energy technology advancements.
8. **Build a Water Wheel:** Construct a small water wheel to understand hydropower.
9. **Energy Infographic:** Design an infographic on energy consumption and conservation.
10. **Solar Art Project:** Use solar power to create art with light-sensitive materials.



# 55 Renewable Energy Ideas

## 9-12

1. **Advanced Solar Car:** Build and race solar-powered cars or boats.
2. **Wind Turbine Efficiency:** Investigate factors affecting turbine efficiency.
3. **Renewable Energy Research:** Write a paper on a specific renewable energy technology.
4. **Energy Policy Debate:** Hold debates on energy policies and sustainability.
5. **Design a Sustainable City:** Plan a city using renewable energy sources.
6. **Solar Panel Installation:** Learn about and simulate solar panel installation.
7. **Energy Simulation Software:** Use software to simulate renewable energy scenarios.
8. **Biogas Production:** Create a small biogas generator using organic waste.
9. **Wind Farm Economics:** Analyze the cost and benefits of wind farms.
10. **Renewable Energy Careers:** Research careers in the renewable energy sector.



## Activities for All Grades

1. **Energy Fair:** Organize a fair showcasing renewable energy projects.
2. **Virtual Field Trip:** Take a virtual tour of a renewable energy facility.
3. **Guest Speaker:** Invite an expert in renewable energy to speak.
4. **Energy Pledge:** Create pledges to reduce energy consumption at home and school.
5. **DIY Solar Light:** Build a solar-powered lantern or flashlight.
6. **Greenhouse Effect Experiment:** Demonstrate the greenhouse effect with jars and thermometers.
7. **Wind Power Experiment:** Test different blade designs for efficiency.
8. **Community Project:** Partner with local organizations to promote renewable energy.
9. **Energy Quiz Bowl:** Host a quiz competition on energy facts.
10. **Renewable Energy Brochure:** Design informative brochures for public distribution.
11. **DIY Solar Fountain:** Construct a solar-powered water fountain.
12. **Documentary Film:** Watch and discuss a documentary on renewable energy.
13. **Energy Consumption Diary:** Track personal energy use and propose reductions.
14. **Collaborative Mural:** Paint a mural depicting a sustainable future.
15. **Energy Jeopardy:** Create a game-style quiz to test renewable energy knowledge.

