

## European Solar and Energy Storage Solutions

# Why wind can generate electricity Dress up lesson plan



## Overview

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This page provides a list of wind energy curricula and teaching materials for elementary, middle school, and high school students that can bring wind energy into the classroom, even for students at schools without a wind turbine installation. Curricula and Lesson Plans. Wind for Schools Curricula Portal on.

What do students learn about wind?

Students learn about wind as a source of renewable energy and explore the advantages and disadvantages wind turbines and wind farms. They also learn about the effectiveness of wind turbines in varying weather conditions and how engineers work to create wind power that is cheaper, more reliable and safer for wildlife.

How do students develop wind turbines?

They develop wind turbines that generate electricity by considering the Earth's surface, wind direction, average outside temperature, the impact by and on birds and insects, and the extreme forces on the turbine. After this activity, students should be able to: Explain how wind is used to generate energy.

Is there a wind energy curriculum for schools?

This page provides a list of wind energy curricula and teaching materials for schools that can bring wind energy into the classroom. Educators for the Environment: Energy for Keeps includes a wind energy section.

Can a wind turbine be used at a school?

Then students can investigate implementing a turbine at their own school with the associated activity Windmill of Your Mind — Distributed Energy Goes to School . To capture the most energy, wind turbines are mounted on a tower. At 30 meters or more above ground, they can take advantage of faster and less turbulent wind.

How do windmills work?

Moving air (wind) can turn the blades of windmills or turbines. Windmills have been used for many years to help us do work like pumping water or grinding wheat for flour. Wind turbines are now used to generate electricity. The wind is a renewable energy source as there will always be wind.

Why do we need a model wind turbine?

Making informed choices, requires an understanding of what a wind turbine is and what it does. SEP has developed a model wind turbine to support practical activities and to help to explain the science behind wind power, involving concepts such as energy and power, the conservation of energy and energy efficiency.

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### Lesson Get Charged! Introduction to Electrical Energy

Students are introduced to the idea of electrical energy. They learn about the relationships between charge, voltage, current and resistance. They discover that electrical energy is the form of energy that powers most of their household ...

### Alternative Energy STEM, Free PDF Download

ALTERNATIVE ENERGY STEM LESSON PLAN CONTENT PAGES Why We Need Alternative Energy Sources. We use energy to heat our homes, power our cars, and light up buildings. The traditional energy sources we use now ...



**TAX FREE** 

### ENERGY STORAGE SYSTEM

**Product Model**  
HJ-ESS-215A(100KW/215KWh)  
HJ-ESS-115A(50KW 115KWh)

**Dimensions**  
1600\*1280\*2200mm  
1600\*1200\*2000mm

**Rated Battery Capacity**  
215KWH/115KWH

**Battery Cooling Method**  
Air Cooled/Liquid Cooled



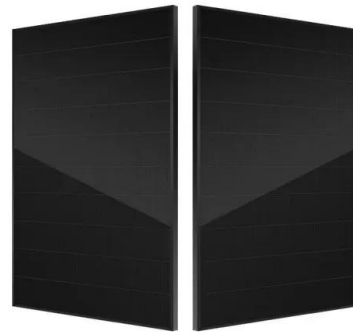
### Wind Power

Many people believe that wind power can make a vital contribution. Making informed choices, requires an understanding of what a wind turbine is and what it does. SEP has developed a model wind turbine to support practical activities ...

### Lesson: The wind as an energy source (non-statutory)

Key learning points. Moving air (wind) can turn

the blades of windmills or turbines. Windmills have been used for many years to help us do work like pumping water or grinding wheat for flour. Wind turbines are now used to generate electricity. ...



## Renewable Energy Lesson Plans for K-12 Students

The team at LEGO Education features a lesson plan for creating a wind turbine and discussing how it uses energy. Students can also come up with creative ways to use the turbine and other sources of renewable energy. This lesson plan ...

## Build a Wind Turbine To Generate Energy , Science Project

MacGyver Wind Lift Design Challenge. In this challenge, students will implement the engineering design process to design, build, test and improve a MacGyver Wind Lift. They will test and ...

**INTEGRATED DESIGN**  
EASY TO TRANSPORT AND INSTALL,  
FLEXIBLE DEPLOYMENT



## Lesson Plan Gr. 6 Natural Sciences and Technology T3 ...

Grade 6 Lesson Plan on Energy and Change & Systems and Control with focus on the CAPS Topics: Mains Electricity, addressing the Content: Fossil fuels and electricity and Renewable ways to generate electricity. It has ...

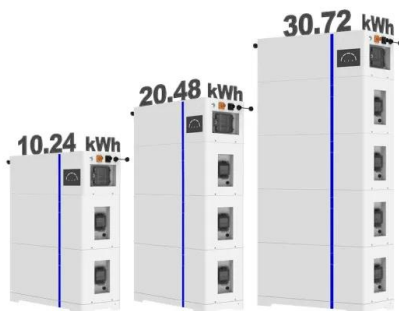


## Wind Movement Lesson Plans & Worksheets Reviewed by Teachers

Learners make a wind vane, anemometer, wind spiral, and wind streamer to calculate wind movement. In this wind lesson plan, students test each of their wind instruments, and graph ...



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## Lesson Thar She Blows! Wind as a Renewable Energy ...

Students learn about wind as a source of renewable energy and explore the advantages and disadvantages wind turbines and wind farms. They also learn about the effectiveness of wind turbines in varying weather ...

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