

# Solar Energy Fundamentals

## Virtual Workshop Agenda

This workshop explores the foundations of solar power, including the science and technology of solar panels and thermal energy. All times are in CT.

### 9:00 AM Welcome

Let's get to know each other and see what we know, or think we know, about solar energy. We will also go over the agenda and expectations for the day.

### 9:30 AM Measuring Electricity & Exploring DC Circuits

Teachers will head out on a Solar Scavenger Hunt to find which light sources and conditions generate the most solar power. We will gather data, record changes in variables, and measure solar power output using a variety of devices and meters.

Materials: Solar Starter Kit

### 11:00 AM Solar 101

This Informative presentation introduces wind energy foundational concepts and explores the basic science and technology behind modern wind power.

### 12:00 PM Virtual Tour Lunch/Snack Break

Grab lunch or a snack and go on a virtual tour of a solar farm!

### 12:30 PM Virtual Tools for your Classroom to Explore Solar Power

Learn about some of our favorite virtual tools for exploring circuits and solar power.

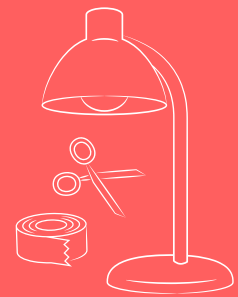
### 1:00 PM Solar Structure & Device Design

Explore how solar power can be channeled through solar panels to build solar-powered fountains, boats, rovers, and houses. Educators will construct a structure or device and upload their work to the Online KidWind Challenge.

Materials: Solar Starter Kit

### 2:30 PM KidWind Challenge

Learn about the Virtual, Online and Event KidWind Challenges and how your students can participate in solar events.



In addition to the materials provided in the KidWind box you received, you will also need the following items:

- Small Lamp
- Duct Tape
- Wire Strippers
- Scissors & Box Cutter
- Optional: Hot glue gun

