

Museum Institute for Teaching Science (MITS, Inc.)

1354 Hancock St., Ste. 302

Quincy, MA 02169

www.mits.org



LIGHTING THE WAY WITH WIND AND SOLAR: PATHWAYS TO A SUSTAINABLE ENERGY FUTURE

A 2-Day Workshop for Middle and High School Educators

Friday and Saturday, December 1st and 2nd, 2017

- **Engage** in an exploration of Earth's energy balance, weather patterns and climate change
- **Discover** how wind turbines and solar panels generate power that produces clean electricity and reduces carbon in the atmosphere
- **Experiment** with solar and wind powered technologies; design a solar powered house
- **Discover** how to adapt your curriculum to include energy-related investigations that meet the Revised MA Science and Engineering/Technology Standards
- **Charge up** your curriculum with a kit containing equipment ready to use in your classroom



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Date: Friday and Saturday, December 1 & 2, 2017

Time: 8:30 am – 3:30 pm

Location: Gordon Hall, Mass Audubon Headquarters,
Lincoln, MA

Fee: \$175 (includes toolkit of materials to take back to
your classroom)

Collaborators: Museum Institute for Teaching Science,
Mass Audubon

13 PDPs are available for this workshop.

Registration Deadline: Monday, November 27, 2017



Human activity affects Earth's systems in many ways. How does science help us understand these impacts, and how can engineering help us to design solutions? In *Lighting the Way with Wind and Solar*, we will set the stage for an exploration of Earth's energy balance, weather patterns, and climate change while developing a foundation for understanding how human activity is currently affecting Earth's systems at a scale never seen before. During this two-day workshop, we will investigate how renewable energy technologies can reduce the carbon in our atmosphere by generating sustainable electricity. Using your home or school as a case study, you will discover the specific energy sources your community relies on and identify the amount of energy currently coming from renewable sources. We will experiment with solar and wind powered technologies to understand how renewable energy sources can be used to produce clean electricity and reduce carbon in the atmosphere. Through hands-on, minds on activities, we will discover how wind turbines and solar panels generate power and why communities are relying increasingly on these systems to meet their energy needs. Put your creativity and know how to use by designing a solar-powered home, and work with a team to build an infrastructure to power a community for the future. Find out more about where energy, climate change, and sustainable solutions are found within the 2016 Science and Technology/Engineering standards. Discover how the problems of sustainable energy and global climate change can be addressed in the curriculum through the integration of science content with the science and engineering practices. Return home with a kit containing equipment ready to use in your classroom to charge up your curriculum. Gain an understanding of the power of inquiry-based learning, and come away energized!

To register, visit <http://www.mits.org>.

For more information, contact: Chris Harris, Museum Institute for Teaching Science
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