About the Sponsor

Kentucky Office of Energy Policy (KOEP)

The Kentucky Office of Energy Policy (KOEP) is housed within the Kentucky Energy and Environment Cabinet. KOEP is responsible for developing and overseeing energy-related programs and initiatives aligning with the Governor's Energy Strategy, *KYE3: Designs for a Resilient Economy*. The strategy promotes secure, affordable energy resources and a strong economy. KOEP grant-funded programs focus on energy education, affordability, and resilience and strive to fulfill OEP's Mission: To utilize Kentucky's energy resources for the betterment of the Commonwealth while protecting and improving our environment. The Energy and Environment Cabinet and OEP aim to achieve energy and environmental outcomes that are fair, robust, and balanced and that neither show favoritism nor discrimination.

Presented by

National Energy Education Development (NEED) Project

The NEED Project designs and delivers teacher- tested educational materials, evaluation techniques and tools, recognition of student achievement, and professional development for educators. NEED materials and training programs provide comprehensive, objective information about the scientific concepts of energy and the sources of energy – their use and their impact on the environment, the economy and society.

Who Should Attend?

- 4th – 12th Science Teachers who teach Grades 4 through 12
- Student Energy Team Sponsors
- Non-formal educators who teach about energy
- School and district leaders
- STEM-related club advisors, mentors, or coaches

Why Attend?

- **FREE** professional development aligning with Kentucky Academic Standards
- Program includes certification of professional development recertification hours
- Excellent facilitators and guest speakers
- Network with colleagues from other districts and schools
- First 20 registrants receive substitute reimbursement
- Free food – breakfast, lunch, and snack

What Does the Curriculum Include?

- General energy content on the Science of Energy, including energy forms, sources, transformations; electricity, energy efficiency, and conservation
- Hands-on, fun student activities that simplify energy's complexity, increase knowledge of energy and energy efficiency, and allow students to see energy in action
- Information on emerging technologies and careers in the energy industry, with a special focus on Kentucky

Will Attendees Receive Resources?

- NEED Curriculum Packet
- NEED Resources for the classroom.
- NEED Science of Energy Kit
- Support for classroom activities
- Certified professional development recertification hours

What Is the Date and Location?

- March 19, 2026 from 8:30 a.m. to 3:45 p.m. (ET)
- Mercer County Extension Office, 1007 Lexington Road, Harrodsburg, KY 40330

How Do I Register?

Register **HERE**!
https://needorg.my.salesforce-sites.com/event/home/oepsep031926
Registration must be completed 10 days prior to the workshop.

Who Is the Contact?

Wendi Moss, who can be reached by phone at 1-800-875-5029 or email (Wmoss@need.org)

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March 19, 2026
Mercer County Extension Office
1007 Lexington Road
Harrodsburg, KY 40330
Agenda

8:30 a.m. **Registration, Welcome, and Expectations**

9:00 a.m. **The Science of Energy**
Learn more about the forms of energy and energy transformations while experimenting with the Science of Energy kit.

10:30 a.m. **Kentucky Energy Picture and Electric Connections**

11:00 a.m. **Energy Enigma**
This cooperative learning activity accesses language arts and critical thinking skills as participants try to conceal their own energy source while guessing the opposing teams' sources.

12:00 p.m. **Lunch and Speaker**

1:00 p.m. **Hands on Energy Activities**
- **Hydropower – Penstock and Volume**
  - Participants will be able to identify variables that affect the force of water flow at a dam.
- **Solar – PV Ping Pong**
  - This activity will show participants how the layers of a photovoltaic cell work

1:45 p.m. **Nuclear 101**
- **Candy Chemistry**
  - Participants will learn about radioactive decay and the energy emitted to become stable isotopes.

2:30 p.m. **Understanding Energy Efficiency and Conservation**
An overview of Energy Efficiency and Conservation and how to make their classroom a living laboratory on thermal energy transfers, electricity, lighting and conducting energy audits.

2:45 p.m. **Conservation in the Round**
This activity will reinforce terms and information about energy efficiency and conservation.

3:15 p.m. **Exploring the NEED Website and Starting School Energy Teams**

3:30 p.m. **Q&A and Wrap Up Paperwork**

3:45 p.m. **Adjourn**