



The NEED Project
National Energy Conference for Educators
July 13-17, 2025
Louisville, KY

TENTATIVE AGENDA

July 13th	Sunday	Registration, Introduction to NEED
2:00 p.m. – 4:00 p.m.	Registration & Refreshments	Pick up your registration packet, swag, and other materials. Light refreshments provided.
2:00 p.m. – 4:00 p.m.	Icebreaker Activities	Meet fellow conference participants and engage in some hands-on energy challenges and activities.
4:15 p.m.	Introduction to the National Energy Conference for Educators	Learn more about NEED, who we are, why we matter, and why we are glad to have you as part of the NEED program. Meet your NEED facilitators this week. The conference sessions are designed to improve your own energy knowledge as a consumer, to provide you lessons and activities to return to the classroom with, and to allow you to explore ways to integrate more energy into your classroom programs.
	Land Acknowledgement	
	Energy Bingo Icebreaker & Door Prizes!	
5:30 p.m.	Dinner (all together)	
July 14th	Monday	Science of Energy, Sources of Energy, and Electricity
6:30 a.m. - 7:55 a.m.	Breakfast	Breakfast is free flowing each day, buffet opens at 6:30 a.m. and closes at 7:55 a.m.
8:00 a.m.	Science of Energy	These breakout sessions explore the forms of energy and energy transformations. <ul style="list-style-type: none">○ Science of Energy○ EnergyWorks○ Thermodynamics
10:00 a.m.	Brain Break	
10:10 a.m.	Connecting Energy Education to Your Science Standards	
10:45 a.m.	Energy Expos	How do the forms and sources connect? Learn more about the energy sources we use, transportation fuels, electricity, and energy efficiency and conservation.

- 12:30 p.m. Lunch and Energy Expo Explorations**
Enjoy lunch but be sure to explore the Energy Expos created by fellow conference participant groups and vote for your favorite Expo board!
- 1:30 p.m. Hands-On Energy Activities (Breakout Rooms)**
- Energy Escape Room
 - Peak Oil
 - Cookie Coal Mining
- 2:45 p.m. Electricity, Circuits, and Storage**
Learn about the nation's electric grid system and the ways technology is being used to modernize it.
- 4:00 p.m. NEED Resources, Q&A, Planning Guide Connections and Evaluation (Play Energy Kahoot!)**
- 4:15 p.m. Special Recognition to the 2025 Bob Thompson Excellence in Energy Education Award Winners!**
- 4:30 p.m. Think Tank: Synthesizing the Conference**
Working in grade level groups, participants synthesize the knowledge and process skills showcased during the day to discuss and plan integration into their classrooms.
- 5:00 p.m. Dinner (all together)**

July 15th Tuesday Sources of Energy and Climate Science

- 6:30 a.m. - Breakfast** - Breakfast is free-flowing until 7:55 a.m.
- 8:00 a.m. Exploring Energy Sources (Breakout Sessions)**
- Solar
 - Oil and Natural Gas
 - Hydropower and Hydroelectricity
- 9:30 a.m. Brain Break**
- 9:45 a.m. Introduction to Nuclear Energy**
Learn about nuclear energy and how we use uranium to provide electric power.
- 10:15 a.m. Nuclear Simulation**
Participants will become part of a nuclear reactor (simulation), demonstrating how power is produced by nuclear fission.
- 11:00 a.m. Exploring Energy Outside the Science Classroom (Breakout Session)**
- Connecting Literacy and Energy Literacy
 - Energy Careers Excursion
 - Blueprint for Energy Teams & Fundraising Tips
- 12:00 p.m. Lunch**
- 1:00 p.m. Understanding Climate Science Introduction**
- 1:15 p.m. Hands-on with Climate Science**
- 2:30 p.m. NEED Resources, Q&A, Planning Guide Connections and Evaluation**
- **Kids Teaching Kids** - See examples of the winning projects and how other teachers have used NEED.

3:00 p.m.	Energy Carnival and Think Tank Participants will play Energy Carnival Games and earn drink tickets to enjoy beverages during this fun synthesis activity. Participants have the opportunity to chat with fellow conference peers to synthesize the knowledge and activities showcased to help plan and integrate into their classrooms.	
3:30 p.m.	Adjourn for the Evening; Dinner on Your Own	
July 16th	Wednesday	Energy Efficiency & Conservation and New Energy Technologies
6:30 a.m. - 7:55 a.m.	Breakfast - Breakfast is free-flowing	
8:00 a.m. - 12:00 p.m.	Introduction to Energy Efficiency and Conservation: Investigating Energy Use Participants split into groups to investigate energy use in the conference building using simple energy management tools. Energy House Working in small groups, create the most energy efficient house! This Week in Energy Conservation and Energy Live! These activities allow for interdisciplinary integration of language arts skills. Groups make quick presentations about energy conservation at home and on the road.	
12:00 p.m.	Lunch	
1:00 p.m.	Hands-on Energy Explorations (Breakout Sessions) <ul style="list-style-type: none"> ○ Ocean Energy ○ Hydrogen ○ Wind/Offshore Wind 	
2:30 p.m.	NEED Resources, Q&A, Planning Guide Connections and Evaluation Let's recap what we did today and strategize planning connections. Be sure to complete your conference evaluation daily!	
3:00 p.m.	Think Tank: Synthesizing the Conference Working in grade level groups, participants synthesize the knowledge and process skills showcased during the day to discuss and plan integration into their classrooms.	
3:30 p.m.	Adjourn for the Evening; Dinner on Your Own	
July 17th	Thursday	Transportation, Evaluation, and Recognition
6:30 a.m. - 7:55 a.m.	Breakfast - Breakfast is free-flowing until 7:55 a.m.	
8:00 a.m.	Transportation Resources Participants explore the nation's leading transportation fuels. Understand your carbon footprint and engage in hands-on activities on fuel efficiency, as well as modeling the energy flow from the sun to an electric vehicle. Full Circle - Full Conference Group Synthesizing Exploring NEED's Website and Other Great Resources What do I get? Complete your order form for classroom energy resources.	
~10:00 a.m.	Evaluation and Paperwork; Adjourn! Safe Travels Home!	