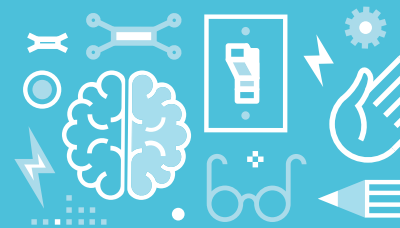


# SCIENCE THAT SPARKS

NEED ENERGY CONFERENCE



## Science that Sparks: The NEED Conference

Tri-State Generation and Transmission Association, in conjunction with The National Energy Education Development (NEED) Project, offers a conference to provide educators with the most up-to-date information on all aspects of energy so they may implement hands-on lessons in their classrooms.

- June 18-20, 2019 at Tri-State headquarters in Westminster, Colorado
- Available to 4th -12th grade teachers who are electric co-op members or teach electric co-op members
- Educators receive:
  - Hands-on Science of Energy kit for the classroom (\$300 value).
  - Professional development credit.
  - STEM curriculum regarding the science of energy, sources of energy, electricity efficiency and more. The NEED Project has over 30 years of energy education and curriculum development experience.
  - Assistance meeting math and language arts Common Core Standards.
  - Most travel expenses are covered, including lodging, meals and transportation.
- Apply at [www.tristate.coop/NEEDapplication](http://www.tristate.coop/NEEDapplication)

For more information contact Wendi Moss, The NEED Project, at [wmoss@need.org](mailto:wmoss@need.org) or Michelle Pastor, Tri-State, at [mpastor@tristategt.org](mailto:mpastor@tristategt.org).

4th-12th	3 days	most expenses paid
TEACHERS	LENGTH	COST



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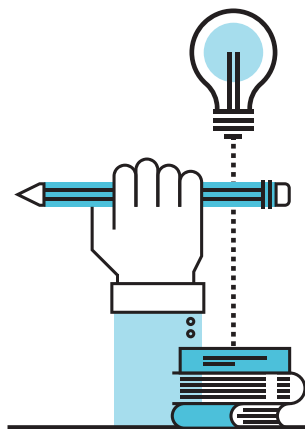


TRI-STATE G&T

# Schedule, June 18-20, 2019

## TUE., JUNE 18, DAY 1

- 08:00 **Registration and hot breakfast**
- 08:30 **Welcome, introductions, Energy Bingo**
- 09:30 **Science of Energy**  
Learn about the different forms of energy and explore inquiry activities designed to teach these concepts.
- 11:30 **Story Behind the Switch**  
Participate in this hair-raising electric safety program that can be facilitated in your very own classroom.
- 12:15 **Lunch at Tri-State**
- 01:00 **Energy Roundup**  
Explore properties and characteristics of the ten major sources of energy.
- 01:30 **Energy Enigma**  
Apply what you've learned so far in this critical-thinking activity.
- 02:30 **Exploring coal and natural gas**  
Learn more about coal and natural gas using NEED activities.
- 04:00 **NEED internet resources**
- 04:30 **Adjourn**  
Check into hotel, dinner on your own.



## WED., JUNE 19, DAY 2

- 08:00 **Field trip: Tour of J.M. Shafer Generating Station, Ft. Lupton, Colorado**
- 11:00 **Electric Connections**  
Understanding the electricity generation mix in the United States.
- 11:20 **Global Trading Game**  
Consider energy, environment and economics inter-relationships between entities and countries.
- 12:30 **Lunch at Tri-State**
- 01:00 **Baseload Balance Activity**
- 01:45 **Tour of Tri-State Operations and Energy Markets**
- 03:45 **Break**
- 04:00 **Exploring wind and solar**  
Explore the generation of electricity using wind and solar power.
- 05:30 **Dinner at Tri-State HQ**

## THU., JUNE 20, DAY 3

- 08:00 **Science of Electricity Model**  
Build a Science of Electricity demonstration for your classroom.
- 09:15 **Introduction to Energy Efficiency and Conservation**  
Understand the simple, low-cost ways to reduce energy consumption and the science behind energy efficiency.
- 10:00 **Energy House**  
Learn about efficiency, conservation and economic returns by building and insulating a cardboard house.
- 12:00 **Lunch and Networking with Tri-State Staff**
- 01:30 **Exploring the NEED website**  
Curriculum available to teachers.
- 02:15 **Energy Jeopardy**
- 03:30 **Adjourn**