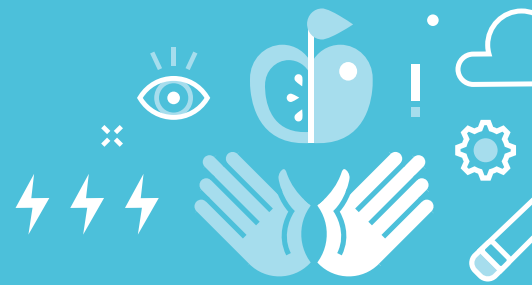




THE NEED PROJECT



The NEED Project

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 19-21, 2018 at Tri-State headquarters in Westminster, Colorado
- Available to 4th -12th grade teachers who are 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.regonline.com/needtristate2018

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

4th-12th

3 days

most expenses paid

TEACHERS

LENGTH

COST

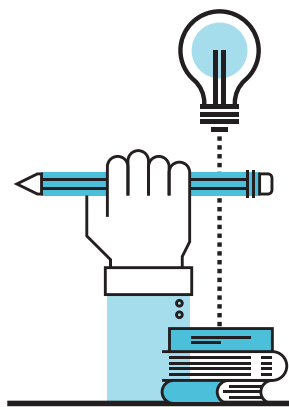


TRI-STATE G&T

Schedule, June 19-21, 2018

JUNE 19, DAY 1

- 08:30 **Registration**
- 09:00 **Welcome, Introductions, Energy Bingo**
- 10:00 **Science of Energy**
Learn about the different forms of energy and explore inquiry activities designed to teach these concepts.
- 12:00 **Story Behind the Switch**
Participate in this hair-raising electric safety program that can be facilitated in your very own classroom.
- 12:30 **Lunch at Tri-State**
- 01:30 **Energy Roundup**
Explore properties and characteristics of the ten major sources of energy.
- 02:00 **Energy Enigma**
Apply what you've learned so far in this critical-thinking activity.
- 03:00 **Exploring Coal and Natural Gas**
Learn more about coal and natural gas using NEED activities.
- 04:30 **NEED Internet Resources**
- 05:00 **Adjourn**
Check into hotel, dinner on your own.



JUNE 20, DAY 2

- 08:00 **Field Trip: Tour of JM Shafer Generating Station, Ft. Lupton, Colorado**
- 11:00 **Exploring Wind and Solar**
Explore the generation of electricity using wind and solar power.
- 12:30 **Lunch at Tri-State**
- 01:15 **Tour of Tri-State Operations and Energy Markets / Baseload Balance Activity**
- 03:00 **Electric Connections**
Understanding the electricity generation mix in the United States.
- 03:15 **Global Trading Game**
Consider energy, the environment and economics in inter-relationships between entities and countries.
- 05:30 **Dinner at Tri-State HQ**

JUNE 21, DAY 3

- 08:00 **Science of Electricity Model**
Build your own 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**