Energy in Today's Classroom

August 1st - Tuesday

8:00 a.m. **Registration**

- Visit with other teachers from around the state and prepare for this interactive experience.

8:30 a.m. **Introductions, Goals and Objectives** **(Class will officially begin)**

- Introductions to the class, knowledge on electric cooperatives, and what we hope you learn from this class.

Energy Fundamentals

- What is energy? Learn some electrical terms, such as, generation, transmission, distribution, power supply, fuel sources, and much more.

Economics of Energy

- Fixed and variable cost, supply and demand, prices, and how these topics effect the cost of energy.

Introduction to Electric Vehicles

- Different types of E.V.'s will be available for viewing.

11:30 a.m. **Lunch** (Provided)

Recent Power Requirements in Missouri

Panel Discussion

- Interactive discussion about residential solar, energy and the environment.

Circuitry and Wiring Experience

- Understanding circuits, successfully wiring a two-way switch, and building your own extension cord.

4:30 p.m. **End of the First Day**

5:30 p.m. **Group Dinner**

Energy in Today's Classroom

August 2 – Wednesday

Day of Touring

7:00 a.m. **Load Bus at Courtyard and travel to Central Electric Power Cooperative**

Breakfast and Shopping

Enjoy a fresh breakfast and learn how to shop for your Teaching Aids

Central Electric Power Cooperative

Enjoy visiting and touring a Generation and Transmission Cooperative. We will give an electrical safety demonstration, visit with the Electric Service Coordinators, look in at the Transmission System Operators, and experience a live line demo!

Travel to Ashland

Tour of Ashland Substation

Teachers will tour a working substation and Central employees will be on hand to answer any questions. Hard hats, enclosed shoes, and safety glasses will be handed out to educators. Group pictures. Smile!!

Travel to University Power Plant - Columbia

12:00 p.m. **Lunch (Provided) at the University Power Plant.**

Tour of the University Power Plant

Teachers will see the many types of power generation including solar, wind, biomass, and coal, and how this power plant provides energy and heat for the University of Missouri – Columbia.

3:00 p.m. **Travel back to Courtyard – Jefferson City**

4:00 p.m. **End of Workshop**