

## **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**