



Member Education & Public Safety

Programs & Presentations for Tennessee Public School Systems

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Public School Systems:

AEC would be available to any classroom teacher for presentations about electricity.

Grade 3: Classes can participate in field trip visits to AEC main office facilities. Three classes per visit / 60 students max. Students could view facilities and be introduced to their Cooperative. Learning by hands-on educational experiences.

Grade 5: High Voltage demonstration presentation in classroom. Sharing information on electrical safety. Using "Science and Safety of Electricity" as a workbook. Several materials and equipment could be shown and usages explained.

Grade 7: "In Concert with the Environment" program is coordinated through the science classes/teachers. A home energy survey and education in the area of conservation is included.

Grade 9: Video presentation, "Zap Rap" provides education on awareness and electrical safety. There are also presentations about the history of electricity, rural electrification, TVA, and the formation of AEC. This could be coordinated through the social studies/Tennessee history classes/teachers.

Grade 11: The 11th grade Essay contest, a short story creating writing project, is coordinated with teachers through the English and Advance Placement classes.

These are just a few of the many programs that AEC has to offer our students in the public school system. For more information, or to schedule a presentation, please contact Appalachian Electric Cooperative.

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**Program Information for Public School Systems
AEC Member Education & Public Safety
2006-2007**

General presentations on electricity include topics such as:

- Conservation
- Electrical safety
- History & development of electricity
- Renewable energy sources
- Arbor programs
- Home energy surveys
- Environmental health
- Citizenship/civics (community partnerships)
- Weather safety
- Leadership

Field Trips to AEC Facilities:

These experiences allow students to become familiar with the facilities and activities of their local power company through hands-on experiences. Students will tour the service department and discover what it would be like to apply for electrical service. Next, students will visit the bookkeeping offices to learn about billing and paying their electric bill. From there, students will visit the engineering offices and view drawings and sketches about proposed construction projects. Students will tour the central dispatch area and receive an overall view of the entire AEC service area, as well as see how crews are dispatched to job sites. Student will also enjoy our warehouse facilities where they will view the materials and equipment that is necessary for electric lines to be installed. Finally, the tour will visit our meter shop, where students will see how electric meters are tested and calibrated for use on homes and businesses. AEC offers an assembly room for gathering as a group to discuss our tours and answer any questions that students might have. We can accommodate a total of 60 students at a time and tours take about 1- 1 ½ hours(s).

High Voltage Demonstration:

AEC personnel are able to bring an incredible demonstration box into the classroom, that allows students to view the power and dangers of electricity. The demonstration depicts our community, our electrical distribution lines and our service drops to individual homes and businesses. Various scenarios are reviewed and safe actions are discussed.

In Concert with the Environment:

The In Concert with the Environment® (ECWE) Program is designed to educate middle and secondary school students and their households about energy efficiency, resource management and the positive environmental results from

wise energy use. The program encourages participation by all household members. The student is asked to investigate the many ways his or her household uses energy. Part of the process may include interviews with other household members. The program is brought to students who will soon be making decisions that will impact our country's energy supply and the environment. We believe that wise energy use today can best be achieved by linking environmental benefits to wise energy-use activities and by educating both present and future consumers on how to live *in concert with the environment*.

The In Concert with the Environment® is a comprehensive program which provides a great deal of information for both you and your students and includes:

- Energy surveys for you and your students to complete;
- Student handbooks that challenge and educate;
- An interactive computer session, in some instance, where you and your students enter collected data into specially programmed computers;
- An Eco-Benefits® Report and Annual Energy Expenditure Report for you and your students to study, use in class, and then take home to share with their households;
- A suggested lesson plan that has been created by teachers and is included for you to use as you wish;
- Class activities which are fully explained on teacher instructions sheets and a student worksheet which can be reproduced;
- Resource lists from books to catalogs to government and lobby groups, which will provide you with good information to help your students learn;
- Data sheets, overhead masters, and topics for classroom discussion to help students learn about the link between energy use and their environment.

The program's theme shares the important message that, like a symphony in concert, everyone must do his/her part to use energy resources wisely to preserve the health of our planet. As you journey together with your students through this experience, we hope that you will feel positive about what you can do to make a difference in our planet's future. *Let the concert begin...*

Program Goals and Objectives

The primary goal of the live *In Concert with the Environment*® program is for the participating students and their households to use energy more wisely and efficiently, thus creating a healthier environment for us all. This goal can be divided into four primary objectives?

- Participants will use energy and water resources wisely and change their energy-use habits.
- Participants will understand the connection which exists between their personal energy use and the quality of our environment.
- Participants will become sensitive to energy related environmental concerns.
- Participants will understand what energy is and how it is produced.

Video Presentations:

A variety of video presentations are available for high school students, designed to share information and promote safety. We also have several programs on the history of electricity and the formation of rural electrification. Through the development of TVA and the birth of the Appalachian Electric Cooperative, we can help students understand the journey of bringing electricity to rural America.

Essay Contest:

Every year, AEC sponsors a creative short story writing contest. This encourages our students to express themselves through their knowledge and creative abilities, in an educational setting. Working through our English teachers at eh high school, students are encouraged to participate. Each entry is judged locally and two winners are announced from each high school. These winners join hundreds of others from across the country to take a trip to our nations capitol. Once there, they experience all the educational and civic histories that Washington D.C. has to offer. Our students can earn scholarships for their efforts. This program is open to all 11th grade students.