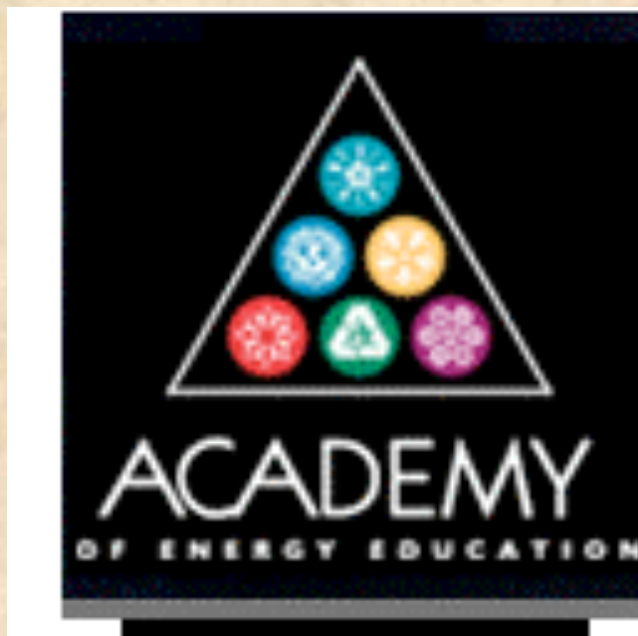


The Academy of Energy Education



Mary-Jo Salzburg
Johnson Controls, Inc.

Customer Need

✓ Student achievement

- NCLB
- Standardized tests
- Teacher accountability
- School-to-work

✓ Strained budgets



Market Need

- ✓ Recognition of sustainability and the importance of renewable energy is increasing - and must be integrated into education.
- ✓ Public education is continually searching for **private industry support** for functional and financial assistance.
- ✓ Integrating energy education into our deliverable to K12 compliments the overall project and the district's academic need.

Energy Education

supports your district's student achievement goals by:

- Students in well-maintained facilities score higher on standardized tests than students in poor facilities.
- Curriculum-enhancement material correlates to state standards and provides fresh, timely teaching material
- Save additional dollars by raising awareness of students, teachers, building occupants

Academy Partners

- ✓ National Energy Foundation - develops and supports materials as well as assists in training and on-going teacher support

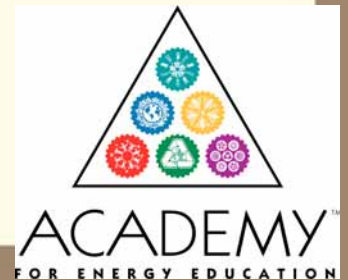


- ✓ Utah State University - provides college credit to teachers and college students who participate in the program



History of The Academy

- ✓ Initiated in 1994 as a **business-to-education partnership** based on energy management.
- ✓ Partnered with **National Energy Foundation** to develop and deliver materials.
- ✓ Initially created as a “soft” compliment to facility improvement project.
- ✓ Focused only on **middle school grades**.



What is it TODAY?

- ✓ A K-12+ curriculum-enhancement program designed to increase awareness and participation in natural resource conservation.
- ✓ Classroom-ready materials, plans, and activities that align with current K-12 curriculums (math and science).
- ✓ High school and college school-to-work programs to prepare for careers.

What is it ? (cont'd)

- ✓ Includes a number of “motivational” aspects for teacher and student participation:
 - ◆ *Graduate college credit for teacher participation*
 - ◆ *Credit for school-to-work participation*
 - ◆ *Energy Action Challenge component for personal and home energy conservation*
 - ◆ *Certificates of achievement*
- ✓ A way schools can save *even more money* through the energy conservation of students and teachers

Education Modules

- ✓ **Energy Fun (K-3)**- Have fun while learning about energy conservation.
- ✓ **Energy Fundamentals (4-6)**- Teaches important fundamental energy concepts.
- ✓ **Energy Action Patrols (5-7)**- Involves students in energy management in schools and homes through patrolling, monitoring, and reporting.
- ✓ **Energy Action Teams (6-9)**- Applies energy concepts in preparing a school energy policy to save energy and money.
- ✓ **Energy Action Technology (9-12)**- Focuses on energy technology and school-to-work and high school-to-college transitions.

Energy Action Challenge

- ✓ “Behavior Modification” component
- ✓ Walks teachers, students, and families through analysis of current energy-using habits
- ✓ Challenges to make specific changes
- ✓ Comes in every Academy program
- ✓ Young child and adult versions too



Academy Website

- ✓ www.academyofenergy.org
- ✓ For students and teachers
- ✓ Student contests
- ✓ Interactive site with lessons, activities, energy hints, chat room, resources, links, and more!



Renewable Energy

✓ The importance of renewable energy has been a sustaining message in The Academy program since its inception.

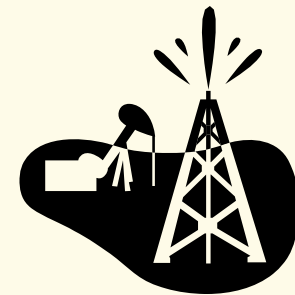
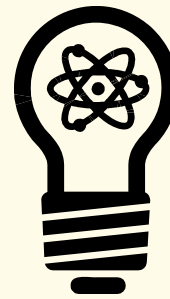
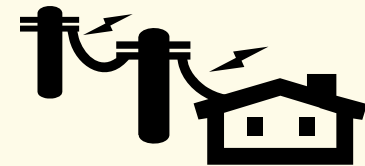
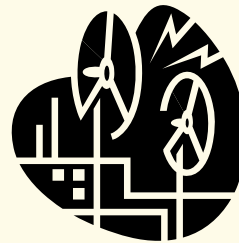
✓ Wind

✓ Solar

✓ Biomass

✓ Water

✓ Geothermal



Igniting Creative Energy Challenge

A National Student Contest

- ✓ 1) Learn how an individual's wise energy and environmental choices can help reduce energy consumption and improve our communities.
- ✓ 2) Ignite your creative energy to explore new ways to make a difference.
- ✓ 3) Use your creative talents to communicate your energy ideas and actions to others.

