



### About PECO

Founded in 1881 and based in Philadelphia, PECO is an electric and natural gas utility whose 2,400 employees serve 1.6 million electric and 486,000 natural gas customers in southeastern Pennsylvania. PECO is one of the Greater Philadelphia Region's most active corporate citizens, providing leadership, volunteer and financial support to numerous arts and culture, education, environmental, economic development and community programs and organizations.

### About The Franklin Institute

Founded in honor of America's first scientist, Benjamin Franklin, The Franklin Institute is a renowned and innovative leader in the field of science and technology learning, as well as a dynamic center of activity. It is dedicated to creating a passion for learning about science and technology by offering new and exciting access to science and technology in ways that would dazzle, delight and inform its namesake. Please visit The Franklin Institute's two new exhibits, Electricity and Changing Earth, and for more information, visit [www.fi.edu](http://www.fi.edu).

### About NEED

NEED is the nation's leading provider of energy education programs and materials for schools. Its mission is to promote an energy conscious and educated society. All NEED learning activities are correlated to Pennsylvania state standards for science and technology.

*"We received great feedback from the teachers and their students."*

Launched in 2009, the PECO Energizing Education Program has grown and adapted based on teacher and student feedback. "We decided to continue the program based on the success we saw," said Jeff Gordon, manager of Corporate Relations. "We received great feedback from the teachers and students. With the increased school participation, we hope to do additional evaluation that will guide us in our efforts to develop an outstanding energy and environmental education program for the entire PECO community."

Five schools took part in the program in 2009, and that number doubled in 2010. In 2011, 14 schools participated, proving even further the success of the program. PECO provides opportunities for current and past participants to continue their involvement.

#### Current participants include:

*Creighton Elementary, E.B. Barth Elementary, E.N. Peirce Middle School, East Norriton Middle School, Gotwals Elementary, Greenberg Elementary, Harrison Elementary, James Rhoads School, M.H. Stanton, Southwark Elementary, Tinicum School, Universal Daroff School, Universal Institute Charter, Upper Merion School. A total of 1,668 students are participating this year.*

#### How to Participate

All schools taking part must agree to abide by the goals of the program.

**If your school is interested in participating in the PECO Energizing Education program or for more information about the program or NEED, please contact, Mellanie Lassiter at [mellanie.lassiter@exeloncorp.com](mailto:mellanie.lassiter@exeloncorp.com)**



*"This a fantastic program. The curriculum and the kits are top notch. All of the individuals associated with PECO, NEED, and the Franklin Institute are knowledgeable, helpful, and patient!"*

**- Jennifer Winterbottom**  
Pottstown Middle School

*"I gained a better understanding of how to teach about energy and am better prepared to implement any other curriculum for hands on learning."*

**- Scott Knoflicek**  
McCall Elementary School



Funded in part by the Exelon Foundation  
Presented in partnership with The Franklin Institute and National Energy Education Development (NEED) project



Funded in part by the Exelon Foundation  
Presented in partnership with The Franklin Institute and National Energy Education Development (NEED) project



Announcing  
an exciting  
**Environmental  
Educational Opportunity**  
for 6th, 7th and  
8th Grade Students



The PECO Energizing Education Program is designed in partnership with the National Energy Education Development Project (NEED) and The Franklin Institute with funding from the Exelon Foundation. The hands-on, project-based curriculum explores the sources and uses of energy and the important role of energy efficiency in environmental conservation. Following classroom learning and other projects, students put their knowledge to practical use by completing an energy efficiency/conservation community project.

All of the materials used meet, align, and exceed the National Science Education Content Standards and the Pennsylvania standards.



### What's the PECO Energizing Education Program?

The PECO Energizing Education Program is "project-based", combining a classroom component with a school energy audit, a field trip and/or in-school program (PECO will cover the cost for either), a community project and an opportunity for students to present their energy projects at a community event.

### What Resources are Provided?

PECO provides schools with:

- Teacher training
- Curriculum and hands-on kits to teach about energy transformations, solar energy, wind energy, hydroelectric power, and energy efficiency.
- Beyond-the-classroom field trips or in-school program
- An energy audit of the school facility
- Teacher and Student Support for Program Implementation and Project Planning

### Teacher Training

Teacher professional development is a primary component of the program. Schools are asked to send a team of educators to the two-day teacher training which launches the program. Breakfast, lunch, parking, and substitute reimbursement are provided. All participants will receive Act 48 credit. In addition, all school districts will be reimbursed for substitute teachers and a stipend will be given for weekend participation (where applicable).

### The curriculum and Hands-on Kits

NEED materials are divided into two levels: Intermediate 6-8, and Secondary 8-12. NEED encourages teachers to review the materials before using them with their students. The program will include NEED's hands-on classroom kits including: The Science of Energy, Exploring Solar, Exploring Wind, Exploring Hydropower, Monitoring and Mentoring School Energy Management Kit, as well as Home Energy Efficiency Kits for students to share with their families.

**All of the materials used meet, align, and exceed the National Science Education Content Standards and the Pennsylvania standards.**

Educators who use NEED materials report that their students score better on grade-level testing, are more actively engaged in learning, and develop leadership skills as members of the community.

### Teacher Guides

NEED/PECO have chosen from more than 120 teacher and student guides for teaching the science of energy, sources of energy, electricity and transportation, and efficiency and conservation. All educators participating in the PECO Program will receive a class set of NEED's Energy Infobooks at grade level. These student readers serve as the text for a comprehensive energy education program.

### A "Learn By Doing" Approach

The PECO Program was designed with a Systems Thinking approach to energy and environmental education. The program encourages students to learn about energy through direct engagement – discovering and applying knowledge to the energy choices and challenges we all face, both now and in the future.

### Educational Energy Audits

Teams of students and teachers will work with NEED's certified energy manager on an Educational Energy Audit of their school building. Students will learn about energy efficiency while taking measurements and collecting data about energy usage.

### Field Trips/In-school programs

PECO and Exelon Generation offer opportunities for field trips or in-school programs to learn about various types of energy.

### In Summary

The PECO Environmental Education Program is a dynamic and teacher/student centered program – designed to teach students about the energy they use today and will use in the future. Visit [www.need.org/peco](http://www.need.org/peco)

