

Energy Education for K-12 Classrooms



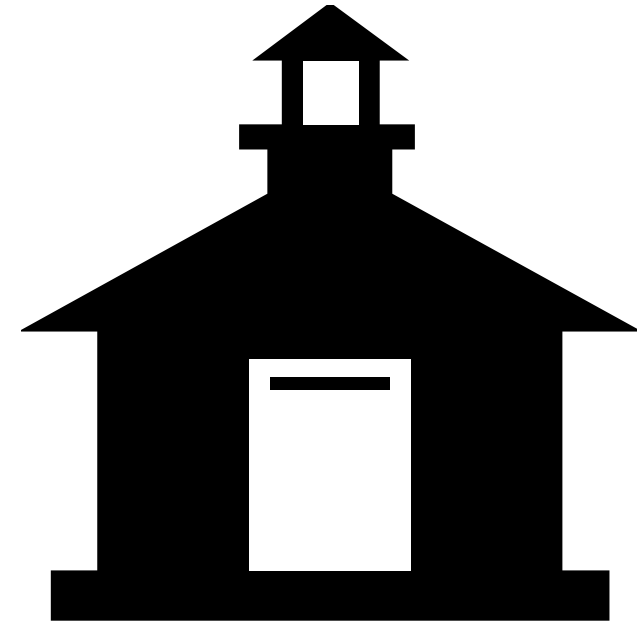
Our Schools Mission Statement

NYSERDA's holistic schools program supports investment in:

- Buildings
- Teachers & Staff
- Students

Involves all programs of NYSERDA:

- Residential
- Commercial/Institutional
- R & D



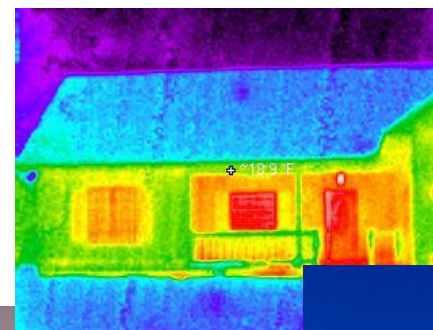
Goal of Classroom Education Programs

- Provide teachers with up-to-date energy information, exciting lessons, and training and support.
- Create energy aware young citizens who can carry the message home.
- Provide a trained work-force leading to a variety of energy careers.

Professional Development for Teachers

Workshops on these topics:

- Energy Literacy
- Energy Efficiency
- Renewables
 - Solar
 - Wind
 - Biodiesel
 - Hydrogen



School Power Naturally

- Installed 2-KW PV systems on 50 schools around the state.
- 64 free downloadable lessons on website for middle and high levels, all correlated to NYSED Learning Standards.
- Solar electric and weather data live on website.

Energy Smart Students

- Peer educators train K-12 classroom teachers in one-day, after-school and multiple day workshops. 3 core workshops.
 - ABCs of Energy – K-3
 - The 4 Es of Energy – 4-6
 - Energy Trilogy 7-12
- Materials are free to workshop attendees.

Energy Smart Students

- The National Energy Foundation (NEF) is the prime curriculum provider.
- Teacher-developed materials and classroom tested.
- New York Learning Standards ready.
- Variety of subjects --- from math, science, technology, social studies, English language arts, family and consumer science, music, art, ESL.
- K-12 spiral curriculum.

Key Features of Curriculum and Workshops

- Subject focus: energy forms & sources, efficiency and conservation.
- Take-home component.
- Use school building, home, and community as laboratory.
- Hands-on classroom activities.



Energy Bike for New York Classrooms



- Teachers trained to use Energy Bike and curriculum.
- Teachers have built them using Energy Education Grant awards.
- Teachers use the Energy Bike as a classroom and community teaching tool.

Energy Grants & Competitions

- **CFL Offer** – Students completing take-home piece receive 2 CFLs for use in their home.
- **Energy Education Grant Program** - Educators may apply for a \$500 grant
- **Energy Feedback** – Teachers who have attended workshops submit lesson plans detailing how they used the materials. Program receives feedback, educator receives stipend. Best practices shared on website.

Educator Support

- Toll-free hotline
- Energy Education Newsletter – *Energy Smarts*
- www.GetEnergySmart.org – provides on-line registration for workshops, topical information, reading lists, energy careers information, and links to other resources.

For More Information

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