

# Classroom Energy Challenge/KiloWatch

The Classroom Energy Challenge and KiloWatch are free programs that were developed to broaden student understanding of energy conservation and sustainability. It reaches diverse school audiences and promotes cost-effective strategies to reduce energy consumption in homes and schools.

**The Classroom Energy Challenge** is a flexible, six-unit program for 5th and 6th grade students in enrichment classes and their families. It integrates science, math, and language arts instruction and provides learning experiences that correspond to state and national learning standards. Homework assignments involve students and their families in order to incorporate energy conservation methods in their everyday lives. Hands-on equipment provides additional opportunities for students and their families to investigate energy use for heating, cooling, ventilation, and lighting in their homes.

**KiloWatch** involves middle school students in monitoring energy use throughout their school. They use professional auditing equipment to learn about technologies and practices that save energy. Then students employ proven social intervention strategies to promote conservation behaviors and decrease energy use. This STEM-based, student-led learning experience lowers district utility bills and reduces the district's carbon footprint.

The Classroom Energy Challenge and KiloWatch were developed as a partnership between the Central New York Regional Planning and Development Board and Energy Training Solutions. For additional information about how your school can participate, contact the Central New York Regional Planning and Development Board at [asaltman@cnyrpd.org](mailto:asaltman@cnyrpd.org) or (315) 422-8276 ext. 206.

***The CEC is a convenient way to teach students about energy conservation and sustainability at school and at home***



***Classroom Energy Challenge/KiloWatch schools receive a comprehensive collection of instructional tools for teachers and students, including the following:***

***The Classroom Energy Challenge Student Guide*** (56 pages) contains instruction and homework assignments for the following topics: energy sources, utility bills, lighting, energy use by electrical devices, heating and cooling, hot water efficiency, and home energy assessments.

***The Classroom Energy Challenge Teacher Guide*** (19 pages) contains lesson plans, learning objectives, and classroom procedures for each of the topics presented in the Student Guide.

***The KiloWatch 3-ring Binder*** (100 pages) includes creative instruction for student teams to teach them how to monitor energy use in their school buildings.

***Equipment*** for student use at school and at home.

***Educational literature*** and promotional material.

***Training and on-site guidance for teachers*** during the school year.