School-based Energy Conservation Programs

10 Points

Note: This action was retired in January 2017. Municipal green teams can earn points for working with their schools under the Community Education and Outreach action.

The purpose of the School Energy Conservation Programs toolkit is to promote school participation in existing energy conservation/education programs: Energy Education, Inc.; “See the Light™ Energy Toolkits (new for 2012), or SEE -- Schools for Energy Efficiency®, which have been proven to promote energy conservation and reduce energy costs. Schools can choose from any of these programs, which are correlated with the NJ Core Curriculum Content Standards, and which provide lessons for students to educate them about the importance of energy conservation. Energy Education, Inc., See the Light and SEE all provide schools with qualitative measurements of reduced energy consumption, and cost savings.

Schools that enroll in one of these programs and publicize their energy savings to their municipal government can earn 10 points for their municipality through Sustainable Jersey.

If a school is participating in other Energy Conservation programs, the municipality should contact Sustainable Jersey to discuss whether their program will be eligible for certification points.

Who should lead and be involved with this action?

School Green Teams (consisting of administration, faculty, students and facilities management staff) will receive training and on-going support and will lead the initiatives in each school. Each program focuses on participation throughout the entire school district.

Timeframe

The first step is to establish a School Green Team – estimated time: 1 month. The SEE program is designed to be a 5 year program; Energy Education, Inc. requires a four year contract period (but provides ongoing support after the four years at no additional cost). See The Light is designed as a 12-month implementation, with ongoing software support and coaching. However, it is recommended that schools institutionalize energy conservation programs to optimize and reinforce the behavioral energy savings opportunities.

Project Costs and Resource Needs

The most important resource needed is staff time dedicated to providing leadership on sustainability initiatives. SEE requires an initial investment, ($5000/building and a part-time coordinator). However, the return on this investment in terms of energy savings is significant. Energy Education, Inc. requires a 4 year contract and hiring of an Energy Education Specialist (cost is approximately $50,000; however, EEI offers a guarantee that the program will pay for itself from energy savings). In addition, as an extension to its professional development program, Energy Education provides a free software program that staff and children can take home to track and monitor savings in their own homes. These programs offer professional development for teachers, lessons, and analysis of energy savings. See The Light requires an initial investment of $999, which includes a “master” Energy Toolkit for the district; one license for energy benchmarking software (for benchmarking all District facilities); and sufficient training materials for a single school building. Satellite Toolkits for additional school buildings are $250 each. There is no mandate to hire additional staff for
implementing See The Light. Districts should select an overall See The Light program Champion, individual school program Monitors, and a software resource to maintain the energy database.

For 2012, schools in the NJ Natural Gas Service Territory will have the opportunity to pilot the See The Light toolkit and have its cost underwritten by NJ Natural Gas. Contact Gary Markowitz at 866-670-5928 or garym@kilojolts.com to learn more.

**Why is it important?**

Programs that educate about energy conservation have been shown to reduce energy usage, and thus reduce operating costs for schools.

By educating students (and staff) about energy conservation, these programs give students a greater understanding of the implications of their behaviors, and enable them to transfer this knowledge and behavior to their personal lives. The SEE, See The Light and Energy Education programs have been proven to have a direct correlation to reduced operating costs for schools. Efficient operations use taxpayer money wisely and redirect money toward educational needs. Instilling wise energy habits in students creates lifelong conservationists and teaches them to care about the impact of their actions. Staff members engaged in these programs learn new behavioral strategies that will translate beyond the school/work environment.

**What to do, and how to do it (“How to”)**

Below we have listed the requirements for earning points for this action.

To receive credit/points, schools must demonstrate active participation in one of these programs during the previous or current school year in which you are applying for certification. If a school is participating in another energy conservation effort, and can provide documentation of its energy reductions through behavioral modifications, Sustainable Jersey points may be awarded for participation. The main distinction is that the School Energy Conservation Actions focus on programs that promote behavioral modification (turning off computers, turning out lights etc) rather than improvements to infrastructure.

We have provided recommendations for implementing the action. You do not need to follow this guidance exactly as long as your final product meets the requirements.

Create a School Green Team. Ideally, one of the members of the School Green Team will act as a liaison to the municipal Green Team. It is recommended that the School Green Team be comprised of administration, students, faculty, staff members, and parents and include a liaison from the Municipal Green Team. For the SEE program, the school must appoint a part-time coordinator to work collaboratively with a school leadership group. For Energy Education, the school must hire a part-time Energy Manager, who will be trained to utilize a software program, and conduct weekly audits of energy consumption. See The Light requires an initial investment of $999, which includes a “master” Energy Toolkit for the district; one license for energy benchmarking software (for benchmarking all District facilities); and sufficient training materials for a single school building. Satellite Toolkits for additional school buildings are $250 each. See The Light Districts should select an overall program Champion, individual school program Monitors, and a software resource to maintain the energy database.

Enroll in one of the programs listed below:

**ENERGY EDUCATION, INC.**

http://www.cenergistic.com/school-districts

Energy Education, Inc. works with K-12 school districts, institutions of higher education and large churches to develop “customized, comprehensive, people-driven energy conservation programs that help organizations reduce their consumption of electricity, natural gas, fuel oil and water, allowing the financial savings which result to be invested in teachers’ positions or other educational or operations programs that are essential to the client Districts. Over 24 years and in more than 1,000 school districts around the country, Energy Education’s program has achieved an average of 20-30% in reduced energy consumption, allowing the District to redirect thousands of dollars back to educational or other
operational needs. Additionally, the Energy Education program provides a contractual guarantee that all the costs to implement the program are paid from the savings, thus ensuring that the program will be cost free to the District.

**SCHOOLS FOR ENERGY EFFICIENCY® (SEE)**

http://www.seeprograms.com/overview.htm

SEE is a comprehensive program to help K-12 schools save energy and money by changing behavior throughout the district.

SEE provides a systemized plan, awareness materials, training, and utility tracking for immediate and sustainable savings. The goals of the program include:

- Reducing annual energy use 10%
- Achieving national recognition through ENERGY STAR® for building and organizational improvements
- Engaging students and staff

**SEE THE LIGHT™ ENERGY AWARENESS PROGRAM**

The All-In-One Toolkit to Boost Energy Efficiency

http://www.energytoolkits.com

See The Light is a behavior-based energy efficiency solution that engages employees and students in a district-wide effort to use less energy and be more sustainable. See The Light Energy Toolkits have helped other school districts cut their energy costs and reduce their carbon footprint by introducing energy-efficient best practices and instilling a culture of conservation among employees and students. While relatively new to New Jersey, this program has been used by municipalities in New England to help them achieve up to 15% savings on their energy consumption.

Each Energy Toolkit contains tangible tools and online materials designed just for schools. Contents include Energy Benchmarking Software, a step-by-step How-To Handbook, Energy Tips & Posters, and training resources for students and staff.

Municipalities within New Jersey Natural Gas’ service territory may be able to participate in a pilot at no additional cost. The first 30 schools to apply from municipalities within New Jersey Natural Gas’ service territory will be eligible for the free kit. The NJNG point person is Raquel Phillips, Outreach Program Specialist, SAVEGREEN Project, New Jersey Natural Gas: (o) 732-378-4928, (m) 732-684-7806, rphillips@njng.com

Other Sustainable Jersey participants can implement See The Light directly through the vendor, KCG Energy, for a fee. Contact Gary Markowitz at 866-670-5928 or garym@kilojolts.com to learn more

Your school may also opt to participate in other Energy Conservation/Efficiency programs, which incorporate energy conservation actions and education, such as the program created by the Alliance to Save Energy. If your school can provide documentation of its energy savings and education efforts, it will be eligible for Sustainable Jersey credit. The main distinction is that the School Energy Conservation Actions focus on programs that promote behavioral modification (turning off computers, turning out lights etc.) rather than improvements to infrastructure.

For additional information, see Resources below.

**What to submit to get credit/points**

In order to earn points, your submission must meet the following standards:

Schools must demonstrate active participation in one of these energy conservation programs during the previous or current school year in which you are applying for certification.

Document that you are currently enrolled in either the Energy Education, SEE or See The Light program by uploading documentation as specified in the “Submission Requirements.” You may also upload documentation of participation in
other Energy Conservation and Education programs, which will be reviewed to insure that an educational component was integrated with the school’s energy efficiency and conservation measures.

You must also provide documentation that shows how you conducted outreach to the municipal government about your energy savings. For example, you can upload a newsletter article or other publicity about the energy program or an Agenda from a council meeting where you spoke to the council about the school’s energy savings. You should also include information in your narrative about how you let the municipal government know about the school’s participation, or ideally, how the municipality was involved in the school’s conservation efforts.

Submit documentation to verify the action was completed to the above standards.

In the text box, please provide a short narrative (300 word max) to summarize how this action was accomplished. Detail here how you publicized the school’s efforts to the municipal government, or ideally, how the municipality supported the school’s conservation efforts.

- Upload: For schools participating in the Energy Education, Inc. program, upload the report from EnergyCap which documents the District’s participation and results of the program.

OR

- Upload: For schools in the SEE program, submit copies of your school’s energy baseline benchmarking reports and annual energy conservation milestones achieved, if available. If not, provide documentation of your school’s participation in the program.

OR

- Upload: For schools participating in See The Light and using See The Light software, submit copies of your school’s energy baseline and benchmarking reports demonstrating changes in consumption over time.

OR

- Upload: For schools participating in another energy savings/education program, upload copies of your energy baseline benchmarking reports and annual conservation milestones achieved.

OR

- Upload File: Please provide documentation of how you publicized the school’s efforts to the municipal government.

- Upload: (OPTIONAL): Please answer the questions in the attached Qualitative Assessment template. Please click here to view the file.

IMPORTANT NOTES: You can upload up to six separate documents for each action. Please excerpt relevant information from large documents. Please remember that your submissions will be viewable by the public as part of your certified report.

Spotlight: What NJ towns are doing

FRANKLIN TOWNSHIP PUBLIC SCHOOLS

www.franklinboe.org

Franklin Township, Somerset County, NJ


Franklin Township Public Schools implemented the Schools for Energy Efficiency (SEE) program in November of 2010, engaging everyone in the district to become more energy efficient. The ten school buildings plus an administration participate in utility tracking and learned how to run their buildings more efficiently to rack up an 11% reduction in energy use and cost-avoidance of over $270,000 in the first year alone. The district is also an Energy Star Partner, and has enrolled all of its buildings into Energy Star’s Portfolio Manager Tool to determine how Franklin schools’ efficiency compares to other schools around the country, earning ratings ranging from 38 to 81. The ratings have steadily improved as the district continues to save energy, and after one year Franklin Township’s portfolio averages 64!
Saving energy in any school district is a collaborative effort. Custodians and building operators are certainly on the front lines of the energy conservation efforts, but other departments, such as IT, Food Services, Athletics and Administration, have contributed solutions that helped Franklin reduce its energy use by more than 1 million kilowatt hours in one year. Lighting schedules, network computer shutdowns and consolidating frozen food storage in the summer months are examples of coordinated and cooperative energy conservation strategies the district put into place.

During the second year of the SEE program, students form SEE Squads to monitor and reduce energy waste in the buildings. They often report their findings to others in the building and find that teachers and staff will change their energy-use habits to help save energy in the school! SEE Squads deliver post-its with reminders to save energy when they find lights on in empty rooms, computer monitors left on or unit ventilators covered with books! They also remember to give “shout outs” when they find teachers who remember to use energy wisely!

The district has had energy audits performed in conjunction with grant opportunities from the Somerset County Energy Council and NJ Clean Energy’s Local Government Energy Audit program. The audit findings will assist the district in long-range planning for energy conservation goals.

The district also installed rooftop photo-voltaic systems through the Somerset County Improvement Authority’s Renewable Energy program in 2011. The solar panels, located on four schools in the district, are projected to generate 1.3 megawatts of electricity annually. The district utilizes the monitoring kiosk displays to track building load and to teach students about renewable energy first-hand. Franklin Park School students have seen their building export electricity to the grid on a sunny day!

**SOUTHERN REGIONAL SCHOOL DISTRICT**

http://www.srsd.net/default.aspx

In schoolyear 2008-09, the Southern Regional School District implemented a rigorous energy savings program with the help of Energy Education, Inc. The program, which guarantees savings and requires no new district money has worked to maintain class time comfort and the educational goals of the district.

“We are achieving real and significant energy conservation at the district. Since the program began our district has saved over $353,443,” said Superintendent Craig Henry. Electric consumption has declined, natural gas use is down and better water consumption habits are in place. The average reduction for the overall district energy consumption is 25.79%.

Energy Manager, Dean Adams, said this program has been so successful due to the cooperative effort of many. “It is a people program, which includes administrators, teachers, staff and custodians. Everyone has been doing their part in order for the district savings to be successful,” Adams said.

According to the EPA, the decrease in energy use from electricity alone is equivalent to taking 129 cars off the roads or planting 267 acres of trees in our community. “We have an opportunity to realize significant environmental and financial savings for decades to come,” said Henry.

For more information about the Energy Education, Inc. program, contact info@energyed.com

**Resources**

There are numerous resources available to interested educators and schools. In addition to those listed below, please see the toolkit links on the Sustainable Jersey website for additional information about Education for Sustainability; Green Purchasing; Green Cleaning; Green Fleets; Green Design etc.

In submitting reports on initiatives undertaken by a school or community, cite any resources that you have found particularly helpful.

**ENERGY EDUCATION, INC.**

Energy Education, Inc. works with K-12 school districts, institutions of higher education and large churches to develop “customized, comprehensive, people-driven energy conservation programs that help organizations reduce their consumption of electricity, natural gas, fuel oil and water, allowing the financial savings which result to be invested in the
lives of the people our clients serve…"

The program "typically saves clients 20-30% off their utility bills" by offering clients savings recommendations specific to their environment and utilizing a methodology called the Transformational Energy Management Process™ which consists of 4 specific components. These are:

1) Assessment and Planning: On-site assessments include examining every facility and area of the client’s site and analyzing use and requirements at all hours of the day and night. A log of temperature, humidity and many other components important to equipment and facility use is kept, and clients learn how to document their environment. Based on the data collected, Energy Education, Inc. works with clients to develop a detailed action plan that identifies priorities, savings opportunities, points of responsibility, optimized building scheduling profiles, and proven implementation strategies.

2) Coordination and Communication: Engaging the entire campus community in conservation efforts includes constant reinforcement, generating customized messages on a broad and individual level, employing printed, digital and face-to-face communication, facilitating effective meetings and more. "Maximizing savings requires that everyone who consumes energy be engaged in also understanding how to save it."

3) Leadership and Focus: Energy Education helps clients to hire an Energy Education Specialist who will provide onsite leadership to their energy program. Energy Education, Inc. helps with the hiring process, and provides training. This includes many monthly on-site visits and on-the-job training during the 4 year contract period. Training also includes three national client conferences/seminars a year, and assimilating a monthly implementation mailing that offers additional support and development.

4) Measurement and Verification: One of the distinctions of Energy Education is that clients are responsible for measuring and verifying the efficacy of the program. Every client is a licensed user of EnergyCAP, a third-party software product that calculates energy savings based on industry standards.

Fees are billed over several years, but the program is perpetual. As long as clients implement the energy savings program, Energy Education, Inc. continues to support them.

The program comes with a no-risk guarantee. If clients do not save at least as much as they spend to implement the program, Energy Education, Inc. will write them a check for the difference. By redirecting a small percentage of the district’s current utility budget to fund its energy savings program, a greater share of the budget is recaptured and reinvested in teachers, curriculum, books and facilities improvements.

http://www.cenergistic.com/school-districts

SCHOOLS FOR ENERGY EFFICIENCY® (SEE)

SEE is a comprehensive program to help K-12 schools save energy and money by changing behavior throughout the district.

SEE provides a systemized plan, awareness materials, training, and utility tracking for immediate and sustainable savings. The goals of the program include:

- Reducing annual energy use 10%
- Achieving national recognition through ENERGY STAR® for building and organizational improvements
- Engaging students and staff

The Program provides:

- A systemized plan which is customized for schools.
- Immediate and sustainable energy cost savings. (The program advertises annual energy savings of 10-20%)
- Efficient facility operations through behavior modification
- Multi-year approach with annual focus
- Utility tracking which measures progress

http://www.cenergistic.com/school-districts
Management by the school district and integration throughout the school district. (Nearly 600 schools in Minnesota, New Jersey, and Louisiana have participated in the SEE program. SEE school districts lead the nation with 16 ENERGY STAR Leader awards for continuous improvement in energy efficiency district-wide - only 61 districts in the nation have received this award.)

The program has reduced greenhouse gas emissions by 117,685 metric tons of CO2. This is equivalent to the annual emissions of 21,554 passenger vehicles or emissions from the electricity use of 16,323 homes for a year.

SEE provides schools with the strategies, resources, and support necessary to implement an energy management program. The program is meant to be flexible and can be customized to fit the needs of the school district.

The 5 year program seeks to Empower, Engage, Energize, Educate and Envision.

Year 1: “You have the Power:"

Year 2: “See and Save”

Year 3: “Charge Up!”

Year 4: “Where is Energy?”

Year 5: “Imagine a World Where...”

The School District provides a point of contact, a district-wide commitment, and site involvement. The SEE Program provides a systematized plan. There is a measurement tool which includes utility tracking and reporting incorporates Energy Star ranking. SEE utilizes sophisticated software to track and analyze district energy use, as well as ENERGY STAR®’s Portfolio Manager benchmarking tools.

http://www.seeprograms.com/overview.htm

Contact Information

Interested School District Inquiries: Schools for Energy Efficiency® (SEE) Program: Barry Coriell at Barry.Coriell@IEnergyPartners

I-Energy Partners is the exclusive distributor and implementation organization for the Schools for Energy Efficiency® (SEE) program in New Jersey and Pennsylvania

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www.seeprograms.com

SEE THE LIGHT™ ENERGY AWARENESS PROGRAM

The All-In-One Toolkit to Boost Energy Efficiency

www.energytoolkits.com

See The Light is a behavior-based energy efficiency solution that engages employees and students in a district-wide effort to use less energy and be more sustainable. See The Light Energy Toolkits have helped other school districts cut their energy costs and reduce their carbon footprint by introducing energy-efficient best practices and instilling a culture of conservation among employees and students. While relatively new to New Jersey, this program has been used by municipalities in Massachusetts and Rhode Island to help them achieve up to 15% savings on their energy consumption.
Municipalities within New Jersey Natural Gas service territory may be able to participate in a pilot at no additional cost (see more below). Other Sustainable Jersey participants can implement See The Light directly through the vendor, KCG Energy, for a fee.

See The Light is designed for a 12-month implementation, with a goal to have energy-efficient work practices “baked in” to the district culture by the end of the first year. These practices would be incorporated into new employee training, codified in student handbooks, and celebrated at regular assemblies. The vendor also provides resources to help customers “sustain the gains” with regular e-Tips and training Webinars.

What’s in the See The Light Energy Toolkit?

Plan & Implement

- How-To Handbook with step-by-step directions on implementation
- Training Syllabus to educate employees and students on energy-conserving work practices
- Curriculum materials for classroom integration

Communicate

- Training and motivational videos
- Promotional materials—vibrant posters, stickers, and energy guides
- Customizable employee communications documents
- Customizable Intranet sites for participating schools

Measure

- Energy audit sheets—customizable for each District’s school buildings
- Temperature gauges—tools to measure temperatures
- Energy benchmarking software –benchmark, manage, and track energy usage for all school facilities within a District (on a single workstation)

Fees

For Schools within the New Jersey Natural Gas Service territory

For the 2012 Sustainable Jersey program, schools in NJ Natural Gas’ service territory are eligible to receive the $1000 kit. Schools should Contact Raquel Phillips at 732-378-4928 or rphilips@njng.com to inquire about potential participation in their pilot program at no cost. The first 30 schools to apply will be eligible to participate in the pilot.

For all other Sustainable Jersey Participants

The base cost of a single Master Energy Toolkit for a school district is $999, which includes:

- One energy benchmarking software license (benchmark all District facilities on a single computer)
- Digital files: Templated communication documents, PowerPoint presentations, Energy Guides, and audit forms for District customization and distribution
- Hard-copy materials: Sufficient promotional and training documents (Manager’s Handbook, posters, sticky-back note pads, stickers, thermometers) for one school building

Additional satellite Toolkits with all of the digital and hard copy materials (no software included) of the Master Toolkit begin at $250/Toolkit. Ask vendor about volume pricing. Program implementation assistance/coaching is available from KCG Energy for an additional fee.**

Contact Information

For more information contact Gary Markowitz, KCG Energy LLC at 866-670-5928 or garym@kilojolts.com.

ADDITIONAL RESOURCES FOR ENERGY EDUCATION:

See also Education for Sustainability Tool for additional resources on Sustainability Education:

Energy Conservation (K-12) - Resources for Formal Educators:

Alliance to Save Energy

The Alliance to Save Energy offers educators a wide range of tools and resources to bring energy efficiency into the classroom to save energy while helping students build vital real-world skills. Schools spend more on energy than on computers and textbooks combined. Reducing energy use is an effective way to help cash-strapped schools funnel more money into the classroom instead of on energy bills. Just as important, the concept of energy efficiency provides multidisciplinary learning opportunities in math, science, and language arts. This website provides links for “Kids” as well as links to Green Schools and Green Campuses programs. Free, hands-on, multi-disciplinary lessons are available for download.

http://ase.org/topics/education

One of the site’s links is to the Energy Hog Challenge. These activities and lessons challenge children to learn where energy comes from, how we use energy, and why it's important to save energy at home. Kids are empowered to take the lead at home in identifying Energy Hogs and to help their families save energy and money. Thoughtful activities, including fun energy conservation based video games, are best suited for grades 3-6 but can be adapted for older or younger students.

http://www.energyhog.org/

Bonus: If your school is located in the service territory for New Jersey Natural Gas, you can book an “Energy Hog” Road Show assembly at no charge by contacting Carolyn Cannon at ccannon@njng.com or 732-938-1035.

Energy Information Administration’s “Energy Kids -- a New Place to Play and Learn”

The Energy Information Administration (EIA)’s “Energy Kids” redesigned website features more than 100 pages of fun educational content for kids, parents, and teachers.

Kids can learn about energy and challenge their brains with energy Sudoku, crossword puzzles, and word searches. Teachers can submit energy lesson plans, share their expertise and get chosen as contributor of the month. The site also features energy-related stories, hands-on activities, and research articles for the classroom. The goal of the site is to make energy fun so young people develop an understanding of energy and its increasingly important role in our daily lives, economy, and environment."

Energy Kids includes information and activities about energy, organized in easy-to-use sections:

- What is Energy?
- Sources of Energy
- Using and Saving Energy
- History of Energy
- Games and Activities
- For Teachers – sign up for Energy Kids updates via email
- Energy Calculators and Glossary

The site also includes new features:

- Interesting tidbits about energy in “Did You Know?” boxes
- “Submit a Lesson Plan” where teachers can send lessons to post and share with others
- Energy Sliders - fun and challenging puzzles for all age groups

http://www.eia.doe.gov/kids
**ENERGY STAR program** helps schools track performance for individual buildings and groups of buildings. ENERGY STAR can tell you how your school’s energy performance compares with similar schools across the country. Additional resources are also available on the site.

Information about how to green your school and additional links can be found at:

http://www1.eere.energy.gov/education/school_buildings.html

www.energystar.gov

**U.S. Environmental Protection Agency (EPA) ENERGY STAR For Buildings Program**

For more than a decade, EPA has worked with businesses and organizations to reduce greenhouse gas emissions through strategic energy management practices. To qualify for the ENERGY STAR, a building or manufacturing plant must score in the top 25 percent based on EPA's National Energy Performance Rating System. To determine the performance of a facility, EPA compares energy use among other, similar types of facilities on a scale of 1-100; buildings that achieve a score of 75 or higher may be eligible for the ENERGY STAR. The EPA rating system accounts for differences in operating conditions, regional weather data, and other important considerations.

http://www1.eere.energy.gov/education/school_buildings.html

**USEPA is partnering with the Boys and Girls Clubs and PTO today to reach out to America's youth and encourage them to get out and "Change the World, Start with ENERGY STAR." At least 50 regional Boys and Girls Clubs will be participating in projects in their own communities, including community energy efficiency initiatives, home energy audits, energy fairs, and other youth-driven activities. The events will educate and involve youth in a meaningful way in the ENERGY STAR campaign, plus result in measurable energy savings and testimonial, which can be shared with other Clubs regions and youth organizations to encourage other youth to take action on energy efficiency.**

As a partner with EPA's "Change the World, Start with ENERGY STAR" campaign, School Family Media will help build environmental awareness and understanding among the America's families by creating a program of family-oriented, school-based events with the working title of "Go Green with ENERGY STAR Family Night" for use by PTOs nationwide.

Additional materials available from EPA's “Change the World, Start with ENERGY STAR” campaign include:

- A Lorax Activity Book (for grades K-2), as well as other fact sheets, booklets and campaign ideas.
- Materials are available for order or download at:

https://www1.eere.energy.gov/education/school_buildings.html

http://www1.eere.energy.gov/education/school_buildings.html

**ENERGY CONSERVATION (ELEMENTARY SCHOOL AND OLDER) - RESOURCES FOR FORMAL EDUCATORS**

**Princeton University**

In order to reduce CO2 emissions, a variety of strategies could be utilized to create a “stabilization wedge” approach to reducing emissions. These existing technologies are presented in an already developed lesson and powerpoint presentation that offers an overview of actions that could be taken to mitigate effects of carbon emissions and greenhouse gases. Additional information about the Carbon Stabilization Wedges game is found at http://cmi.princeton.edu/wedges/game.php -- This website has information about how to play the Carbon Stabilization Wedges game. This is a game for middle school students and older.

http://cmi.princeton.edu/wedges/intro.php