

Engaging Schools on Energy & Climate: Lessons from the Make an Impact Program

November 20, 2013

Center for Climate and Energy Solutions

The Center for Climate and Energy Solutions (C2ES), formerly the Pew Center on Global Climate Change, brings together business leaders, policy makers, scientists, and other experts to provide credible information, straight answers and innovative solutions to address global climate change.

Our areas of focus and expertise include:

- **Policy analysis** (state, federal, and international)
- Innovative technology solutions
- **Climate science** (impacts, adaptation, communication)
- Markets and business



Business Environmental Leadership Council (BELC)





Make an Impact has grown from an employee engagement project to a full-scale program that **empowers individuals and communities to take meaningful action toward sustainability and dollar savings**.

- 4 corporate partners
- 7 branded websites and calculators
- 43 events in 20 states
- Programs on 4 continents

Benefits are far-reaching:

- Enhances organization's reputation
- Engages and empowers employees and communities
- Leverages existing tools and programs
- Detailed reporting quantifies impact

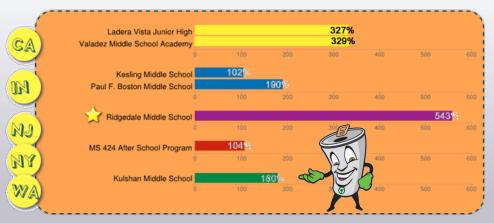
Make an Impact: CO2 Schools' Challenge is a school and community program designed to promote energy efficiency in our homes through a fun and engaging online competition

- 25,000 people engaged
- 24 schools across the US
- 41 million lbs CO2 commitments (same amount captured by 15,000 acres of forests!)



Change Our 2morrow \Rightarrow (CO2)

\$29,000 in grants awarded



Online Program Tools

Student Resource Center





Carbon Calculator

me Can Make an Impact

hank You

dges you have fulfilled and also recalculate your carbon footprint.

TOTAL POTENTIAL SAVINGS

\$170 M 1200 lbs C

P

personalized recommendations provide tips and ideas on how you can save energy and reduce personal carbon footprint. To receive information that is even more tailored to you, be sure to plete all questions in the calculator and update your recommendations by identifying those actions ntend to complete. When you return to the calculator next time, identify the recommendations you completed and recalculate if you made any changes that may affect your carbon footprint.



Share My Scores

Click on the tabs below to Click "Save Pledges" on each tab when you are Check off the actions you will take this year. see your recommended actions donel (=0 lbs/v

eview your recommendations and check off the actions you will take. Save your pledges and int them to PDF for your reference! When you return to the calculator next time, identify the

DONE - ESTIMATED SAVINGS

0 lbs CO

Resources & Educational Materials

| Maks an Impack | | |
|---|--|---|
| Change Our 2morrow | An Energy Expedition: | |
| Teacher's Guide | Seeking Out Our | Lighting Choices |
| Suggested Grade Level: Grades 6-8 Subject Focus: Science Energy Environment Cilmate Change Materials & Preparations: | Summary of Lesson: The Teacher will demonstrate ten two types of light bulbs and then actions that save money and ene about ideas related to energy use will link and connect these conce | introduce other energy efficient rgy at home. Students will learn and energy efficiency. Students ots to what actions can be taken |
| A lamp | ⇒(C02)€ | Change Our 2r |
| One CFL bulk, 13 watt One incandescent bulk 60 watt A kilowatt meter A thermometer A calculator Time: Demonstration: 10 to 1 minutes Mathematic portion: 12 to 25 minutes | Teacher's Guide Suggested Grade Level: Grades 6-8 Subject Focus: Energy Environment Climate Change Materials & Preparations: Blank BINGO boards Pen or pencil List of catchwords and definitions (for teacher only) CO2 Schools' Challenge Efficiency Toolkit Incentive or prize Incet BINGC: 10 to 20 minutes per round (depending on the number of BINGOs called) Class discussion of vocabulary: 10 to 15 minutes | Catchword E Dijectives: Students will learn energy saving common Schools' Challenge ter experience real energy savings CO2 Schools Challenge Efficien Introduction & Background: Being aware of your own energy In order to reduce your impact a community, it is necessary to le your part by actively participating sharing what you learn at home techniques will help combat the create a better tomorrow. Procedures: 1. Hand out to each student o 2. Have students prepare theil catchword in each square, 1 be extra terms left over). TT the BINGO board, at the bol 3. To Play: Read aloud one rar definition at a time to stude from the CO2 Schools Chall students can see the item. term with any type of symbo box has been called. The C 4. Continue this process until catchwords in a row, columni 5. Have the student read aloud definitions are correct and i 6. Decide on an incentive or p |

Mabe an

morrow

Bingo

ing tips and become familiar with erminology. Students will see and s by interacting with tools from the ncy Toolkit.

rgy use is important for many reasons. and the impact of your family, or learn about energy efficiency. Do ting in classroom learning, and then ne. Implementing energy saving he impacts of climate change and

- one blank BINGO board.
- eir BINGO boards by writing one until all squares are filled (there will The catchwords are listed underneath ottom of the page.
- andomly chosen catchword and its lents. If the catchword is an item llenge Kit, make sure that all Have students mark each matching ool or mark in the box to show that CFL space is a "free" space.
- a student announces they have 5 mn, or diagonally, which is BINGO.
- ud the catchwords to ensure the it is a valid BINGO.
- prize for the winning students. This an upcoming assignment, a special pass, to name a few options. It is at the leisure of the Teacher to decide.
- Have etudente endade in se manu rounde se time allowe



Lessons Learned

- Media attention is a great tool ٠
- Informed & excited location leads are critical
- Technology: stay one step ahead ۲





ALCOA MIDDLE SCHOOL PRINCIPAL JIM KIRK holds up the \$1,000 check that the school won for being named a regional runner up in th





BY MATTHEW STEWART natts@thedailvtimes.com Alcoa Middle School's students are taking steps to reduce their carbon

mportant, and the st ents really respond when they see larger companies like ALCOA supporting and leading the charge

Making a lasting impact

Local middle school students taking part in challenge to help manage energy use



LA PORTE - Boston a Kesling middle schools are in the midst of a fight. The battle is to see which on can make the greatest enviro

mental impact The schools are competing Alcoa Howmet's natio fake an Impact: Change Ou ion that urges str

ple can log in usi ing in a study. learn they can stop i r on Global Climate Cha s designed to help reduce the carbon footprint in local com-munities, said Tera Grinnell, the uman resources manager at Alcoa Howmet La Porte

le School students fill out surveys about how much energy is used in homes. Kesling middle schools are competing in Alcoa Howmet's nationwide Make an Impact: Change r challenge, which urges students to recruit as many households as they can in effec-ing energy use. Photo by Gob Wellinski



Thank you for your time!

For more information please contact Amy Morsch Program Manager morscha@c2es.org