



Go **Green** Initiative  
We're a school system of choice  
and our choice is green

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# Go Green Initiative News

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2010 NC was in the top 10 Coal using states. Good News in 2015 we are down to number 18. Could it be from all of our universities divesting their fossil fuels from their campuses? I find it interesting that most of the New England states are the lowest users or like D.C. don't use coal. At. All.

There are new infographics on the **Go Green website** that you might find interesting. Check the main page.

In 2008, the United States consumed 99 Quadrillion Btus (British thermal units) of energy mostly in the form of fossil fuels such as coal, natural gas, and oil. One Btu is equivalent to the energy released by burning one match. So, the United State's annual energy consumption adds up to a mind boggling 99,000,000,000,000 matches. That's 271 trillion each day, or roughly 1 million matches per person per day.

100 watt incandescent bulb would be sufficient to drive a Toyota Prius from San Francisco to New York  
A governmental study calculated that the gasoline equivalent of the lifetime energy savings offered by using a single 24 watt compact fluo-

rescent lamp (CFL) in lieu of a 100 watt incandescent bulb would be sufficient to drive a Toyota Prius from San Francisco to New York. Replacing that 100 Watt bulb with a CFL will prevent the release of 800 pounds of carbon dioxide over the CFL's operating life.

The amount of sunlight that falls on the Earth's surface in one minute is sufficient to meet world energy demand for an entire year.

The computer you're using right now, in all the years you'll own it, will never consume more energy than was required to create it. 81% of the life-cycle energy costs associated with a single computer is from its manufacture, only 19% from its operation. The production of a single computer also uses 42,000 gallons of water. Please recycle your used electronics and turn them off when not in use.

Recycling a single aluminum can would run a TV for three hours

15% to 30% of a home's total heating and cooling energy is lost through poorly sealed duct-work  
An estimated 15% to 30% of a home's total heating and cooling energy is lost through poorly sealed duct-work, costing consumers about \$5 billion dollars annually

Burning one gallon of gasoline creates about 19 pounds of carbon dioxide  
An average mature TREE absorbs about 48 lbs/year.

10 calories of fossil fuel energy to grow, process, and deliver 1 calorie of food energy to our tables.

Recycling one ton of paper saves 20 trees, 7,000 gallons of water, three cubic yards of landfill space, 60 pounds of air pollutants, and saves enough energy to power the average home for six months?

If the entire population of the United States washed their clothes exclusively with cold water (instead of hot), we would save \$3 billion in energy costs annually and cut national CO2 emissions by over a full percent!

Yellowstone snow shoe's may want to keep a keen eye and a can of bear spray out this winter. Park officials announced the first confirmed report of grizzly bear activity on Feb. 9 — more than a month early — and they're blaming unseasonably warm temperatures. And the early bear was hungry: It was found gorging on a bison. Carcass.

<http://grist.org/>

### Inside this issue:

Museum of Natural Sciences	2
A Joyful St. Paddies Day to you	3
Trapping CO2	3
Grants	4
No Teacher Left Inside	4
Kids.gov	5

### Special points of interest:

- Green Facts that will make your head spin
- New NC Museum Opens Nearby
- Cloud
- Amazing Object
- All about Kids

WHITEVILLE, NC-The newly renovated branch of the North Carolina Museum of Natural Sciences in Whiteville will be unveiled to the public on Saturday, February 28. The dynamic indoor-outdoor nature and science learning center has been repurposed to feature new exhibits, an investigate lab, nature exploration center, an outdoor nature play space, and a distance learning classroom. The grand opening and ribbon cutting is set for 10 a.m. The public is invited to attend.

"It is thrilling to extend the reach of our mission into Columbus County," said Emyln Koster, PhD, director of the North Carolina Museum of Natural Sciences in Raleigh. "Made possible through a partnership with the Friends of the Museum in Whiteville, this community now has an indoor-outdoor learning center to enable its students and families to explore the natural world close to home and a base from which the museum can deliver programs to the surrounding rural region."

The NC Museum of Natural Sciences, based in Raleigh, an agency of the NC Department of Environment and Natural Resources, is the largest natural sciences museum in the Southeast with Smithsonian Affiliate status. Dating to 1879, it is also the most visited museum in North Carolina and one of the most innovative institutions of its kind globally. Based in Raleigh, the museum strives to reach every region of the state, especially rural communities.

"When the doors open to this facility, we will have a new beginning to provide our children, and the entire community, with high-quality science pro-

gramming," said Harold Blanchard, president of the Friends Board in Whiteville. "Good things are ahead for the museum in Whiteville. It's an exciting time, and we look forward to being a more involved part of the North Carolina Museum of Natural Sciences."

The new museum experience in Whiteville is modeled after proven interactive programs at the museum's Raleigh-based Nature Research Center, Nature Education Center, Prairie Ridge Ecostation for Wildlife and Learning as well as several new features.

\* Investigate Lab: Visitors of all ages can discover the scientific process by trying a range of experiments through tools and techniques including microscopes, pipettes and more.

\* Naturalist Center: Featuring an extensive collection of specimens from butterflies to bear claws, snakes to seahorses, and sand dollars to spiders, visitors are encouraged to explore the natural collection.

\* Nature Play Space: Designed to celebrate the importance of outdoor play in the lives and education of children, the space includes areas for art, digging, and exploration. Children can climb over logs and boulders, roll in the grass, make mud pies, observe nature and dig for fossils.

\* Discovery Forest: Developed for young children and families to discover natural wonders from bird wings to beaver sticks, the space is an ideal area for intergenerational learning.

\* In Your Backyard Resource Center: An information area, featuring

material about state parks, aquaria, and other sites within NC Department of Environment and Natural Resources, where visitors can plan to continue their exploration of North Carolina's natural places.

\* Distance Learning Classroom: A space designed to virtually link visitors and students at the Whiteville museum with scientists at the Raleigh museum and other locations.

"As parents, grandparents, uncles and aunts we need to start getting out into nature with the young people in our lives. Families play a key role in getting kids outside."  
David Suzuki

### Sierra Club Buzz Kill

[As corn yields rise, bees are dying worldwide.](#) Not that long ago, third-generation commercial beekeeper Jim Doan was a prosperous man. He maintained as many as 5,300 hives on his farm in western New York. In addition to selling honey, he earned a good living renting out the services of his honeybees to pollinate crops such as butternut squash, zucchini, pumpkins, cucumbers, and apples.

But around 2006, Doan noticed that something was wrong with his bees. Read the rest at: <http://www.sierraclub.org/>

Knowing others is intelligence; knowing yourself is true wisdom. Mastering others is strength; mastering yourself is true power.

Lao-Tzu



# Grants, Funding Sources

## Digital wish Putting Technology in the Classroom

<http://www.digitalwish.com/dw/digitalwish/home>

**ADOPT-A-CLASSROOM** <http://www.adoptaclassroom.org/index.aspx>

**InciTED** <http://www.inciated.org/>

**CROWDFUNDEDU** <http://crowdfundedu.com/>

**MICRORYZA** <http://www.microryza.com/>

**DONORS CHOOSE** <http://www.donorschoose.org/>

**EcoTech Grants** <http://web.eenorthcarolina.org/resource/about.aspx?s=112625.0.0.37430>

The Captain Planet Foundation, in partnership with the Ray C. Anderson Foundation, is awarding 16 grants of \$2,500 each to schools or non-profit organizations for the purpose of engaging children in inquiry-based projects in STEM (science, technology, engineering and math) fields that use innovation, biomimicry/nature-based design, or new uses for technology to address environmental problems in their communities. Apply by April 30, 2015

**Karma for Cara Foundation Micro-grants** The Karma for Cara Foundation is encouraging kids 18 and under to apply for funds between \$250 and \$1,000 to complete service projects in their communities. Whether it is turning a vacant lot into a community garden, rebuilding a school playground or helping senior citizens get their homes ready for winter, they want to hear what project you're passionate about. Applications accepted on an ongoing basis.

<http://web.eenorthcarolina.org/resource/about.aspx?s=106649.0.0.37430>

The National Wildlife Federation's tree bank program provides free trees to schools, youth groups and nonprofit organizations. Apply by January 31 for spring planting dates (February-May 10) and by September 21 for fall planting dates (October-January).

**Mini-Grants from the Ezra Jack Keats Foundation** Deadline: March 31, 2015

**Teacher Development Grants** Deadline: April 15, 2015 Teacher Development Grants from the McCarthey Dressman Education Foundation support the development of new K-12 learning programs. Small teams of teachers are encouraged to apply for funding to help "integrate fresh strategies that encourage critical inquiry and to observe their effects on students.

<http://www2.epa.gov/education/environmental-education-ee-grants>

# Events and Happenings: No Teacher Left Inside

## At Water's Edge | Connecting Students to North Carolina's Hydrological System

July 28-31, 2015

Trinity Center, Salter Path, NC

A FREE Professional Development Experience for North Carolina Educators During this four day teacher institute, teachers will explore current environmental, health and civic issues as they conduct an in-depth investigation of watersheds. Teachers will hear from scientists studying various water-focused topics and receive updated content knowledge and resources designed to foster student awareness of the many ways humans are connected to North Carolina's hydrological system. Hands-on, real world experiences will be emphasized to make this relevant to your students -be prepared to get wet, sandy and re-energized!

To apply, please complete the Online Application <<https://>

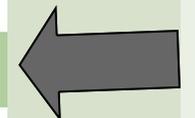
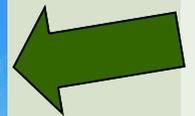
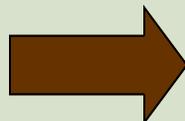
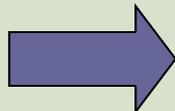
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5th, 2015.



The poster for the Sandhills Clean Energy Summit 2015 features a central graphic of a recycling symbol with three arrows forming a triangle. The top arrow is blue with a sun, the bottom-left is green with a leaf, and the bottom-right is green with a field. Text on the poster includes: 'Sandhills Clean Energy SUMMIT 2015', 'sustainable SANDHILLS', 'MARCH 14, 2015', 'Panels' (Smart Grid & Utilities, Military & Renewables, Generators and Architects, Green Tech & Education, Solarize Sandhills, Tax Credits, Clean Energy Hack, Biofuels & Biodigestion), '11:30 AM Registration', '12:00 PM Keynote (LUNCH CONCESSION SOLD BY R BURGER FOOD TRUCK)', '1:00-4:00 Panel Discussions', 'SUGGESTED DONATION \$5.00 to \$10.00 FREE CHILD CARE', 'CONTACT INFORMATION SUSTAINABLE SANDHILLS INFO@SUSTAINABLESANDHILLS.ORG 910-484-9098', and 'PLACE: NEW CENTURY INTERNATIONAL ELEMENTARY SCHOOL 7465 Century Circle, Fayetteville, NC 28306 #Energy4sandhills #Renewable'. Logos for CCP (Cumberland County Progressives) and R BURGER are also present.





## Go Green Initiative

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### Green Schools Program

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We're on the Web!  
[go.green.ccs.k12.nc.us](http://go.green.ccs.k12.nc.us)

### Our Mission Statement:

The Cumberland County **Green Schools Initiative** is established to provide resources for our school community to create a climate in which the 5 guiding principles of sustainability can be developed and implemented for each school. The principles that guide our community are energy and water conservation and efficiency; reduce, reuse, and recycle our waste and pollutants. We work toward becoming stewards of our natural resources through conservation as well as the applying the other principles of sustainability we have adopted when using our resources.

The last principle, to lead by education and awareness; is to establish the habits that will decrease our footprint in our community for our future generations. Our mission is to promote environmental responsibility and develop skills to become environmental literate citizens for ourselves and our students. We will promote change toward sustainability in modeling through example and informing through education. Our staff and students commit to educating for sustainability and modeling these practices as well as promoting pollution control, waste reduction, recycling, water and energy conservation and efficiency.

### Our Goals:

Teach our members\*\*, both adult and youth, to become environmentally literate participants in our community; learning to find equitable, sustainable solutions in our complex world.

Invite other members of our community, who share our resources to become environmentally literate and practice sustainable living along with us.

Create discussions within our community to work toward sustainability and environmental literacy thereby increasing awareness and participation. Work within our community to find the best solutions for implementing our 5 guiding principles of sustainability and understand what it means to be environmentally literate.

Kids.gov

### Launch Them to Fitness!

Kids around the world are "walking to the moon" as they get in shape and learn about space exploration. It's all part of Mission X, an annual six-week international fitness challenge going on now.

You can get your kids involved anytime, and ignite new enthusiasm for fitness, nutrition and science, with the Train Like An Astronaut program. You'll find student and teacher handouts and videos on the workouts. The Mission Support section will inspire, educate and entertain your kids. And they can follow along as teams from 26 countries document their journeys to fitness and the moon!

### Learning By Inventing: A Fun Challenge for Students

Get your students thinking creatively with this Sparklab Invent It Challenge. In this challenge students will use the key steps of the invention process to identify a real world problem and to propose a solution. They will present their findings by submitting a video or a presentation. Entries are due March 27.

### How Can Tiny Organisms Clean Up Pollution?

Geologist Cara Santelli studies how microbes can help clean up metal pollutants from old coal mines. On March 12, 11 am

and 2 pm EDT, watch "Mineral Transformations: Demystifying Microbes." Students will take a journey from Pennsylvania coal mines to an X-ray diffraction laboratory and learn how microbes are little machines for mineral transformations. They will get to know the microscopic organisms that are essential to the health of our natural environment. Don't forget to check out the teaching resources for this live webcast.

