



ENERGY SAVING 2013 2014



Success Stories



Students Create the Future of the World

INTRODUCTION

Dream in Green believes that students and their schools play a critical role in creating a more sustainable society. The Green Schools Challenge (GSC) involves students and staff in implementing energy and environmental solutions at their schools. The solutions enable local schools to reduce their overall carbon footprint, while practicing environmental conservation. GSC activities are student-led and promote no- to low-cost changes that are part of the overall plan to reduce the school's energy expenses and carbon footprint.



BRIEF HISTORY

In 2006, the Miami-Dade County Public School (MDCPS) Board approved the Green Schools Challenge as a pilot program, with three high schools – MAST Academy, Miami Palmetto Senior High, and Ransom Everglades – participating in the inaugural year. The following school year, Dream in Green entered into a formal partnership with MDCPS. The GSC has seen rapid growth since then, with one hundred and sixty-five K-12 schools participating in the 2012-2013 academic year

CREATIVE ACTIVITIES IN 2012-2013

- ✓ GSC Scrapbooks
- ✓ Monthly Earth Hour
- ✓ Solar Powered Cell phone charging stations
- ✓ Green Citations
- ✓ 3-D Water sculptures
- ✓ Bike to School Days
- ✓ Climate Change Flash Mobs
- ✓ Recycling Fashion show
- ✓ Model Green Homes
- ✓ Powerstrip Drive
- ✓ No-Idling programs
- ✓ Eco-Summit displays
- ✓ Presentations by Environmental Professionals

2012/2013 GSC SUMMARY OF RESULTS

2012-2013 marked the seventh consecutive year of the GSC with the participation of one hundred and sixty-five K-12 schools in Miami-Dade County. The program year began with over 150 teachers attending the Fall Training in September. This successful training resulted in a dramatic increase in student participation with Green Teams having as many as one hundred students implementing the Green Schools Challenge. GSC teachers came together again at the Mid-Year Meeting in January 2013 to share best practices and success stories. The year concluded with an End-of-Year Awards Ceremony on May 16, 2013, to celebrate the collective efforts of participating teachers and schools.

	2006-2007	2007-2008	2008-2009	2009-2010	2010-2011	2011-2012	2012-2013	Totals
Schools	3	15	43	48	105	165	165	250
Saved	0	\$150,000	\$414,000	\$435,000	\$2,022,500	\$3,236,000	\$3,236,000	\$9,493,500
Kwh Saved	0	653,000	1,142,000	1,200,000	2,500,000	4,000,000	4,000,000	13,495,000
Carbon lbs	80,000	1,015,723	3,888,679	3,500,000	3,888,679	6,221,886	6,221,886	24,736,853

Note: Calculations for 'Dollar Savings' has been determined using FPL's average cents/kWh.

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STEARNS WEAVER MILLER
WEISSLER ALHADEFF & SITTERSON, P.A.



SOUTHWOOD MIDDLE :

📌 *Score: 70.6 Points,
Member Since 2010*



**GREEN SCHOOLS CHALLENGE
WINNER 2012/2013**



🌿 HIGHLIGHTS:

Southwood Middle's Green Team fostered an atmosphere of environmental stewardship at the school. As a result of all their efforts, Southwood Middle was able to beat their energy target by 46,520 kWh resulting in a 2.8% reduction in scholastic yearly energy usage.

🌿 ACTIONS:

1. Distributed posters and signs to remind everyone to conserve energy when possible.
2. Created a "No Idling Zone" for parent & bus drop off areas, educated them on the importance of cutting down on idling.
3. Made a video to enhance recycling activities, which was shown to the whole school.
4. Did a study on how showers save more water than baths by measuring the amount of water used during both.
5. Refurbished their outdoor classroom by planting plants and mulching.

🌿 SCHOOL INVOLVEMENT:

The students and faculty members at Southwood Middle worked together to keep everyone informed, as well as getting involved "hands on" with the environment. The Green Team asked students to recycle their ink cartridges and old cell phones and created a Green video informing their school the importance of recycling. The students and staff played an important role in a school-wide cleanup day after school, taking the Green Pledge and creating a Mural Contest to encourage recycling.

🌿 COMMUNITY INVOLVEMENT:

At Southwood Middle, local businesses were encouraged to donate used tires, so the students could use them as planters in their garden. Also, other businesses such as the Miami Dade Cooperation have helped them by designing Green Team shirts that are used every Thursday and by donating two rain barrels for the schools use.

Year	CO ₂ Saved	kWh Saved	\$ Saved	% Saved
9/12 – 3/13	63,407 lbs	46,520	\$37,449	2.8%

Note: Calculations for 'Dollar Savings' has been determined using FPL's average cents/kWh.

SPRINGVIEW ELEMENTARY :

📌 *Score: 70.25 Points,
Member Since 2011*



**GREEN SCHOOLS CHALLENGE
2ND PLACE WINNER 2012/2013**

🌿 HIGHLIGHTS:

Springview Elementary's Green Team members took on the challenge of educating fellow students, faculty and facility staff on the importance of environmental conservation. As a result of their teamwork, the school beat their energy target by 7464 kWh, resulting in a 2.0% reduction in energy usage.

🌿 ACTIONS:

1. Made energy conservation bookmarks, poems, and posters for school awareness.
2. Hosted a community light bulb and showerhead exchange.
3. Created a campaign to conserve water.
4. Conducted an educational campaign to educate students, staff, and parents about the school districts' recycling program.
5. Learned how to secure water purification systems for Haiti and other third world countries.



🌿 SCHOOL INVOLVEMENT:

A motivated Green Team was established to coordinate the monthly challenge activities. Springview Elementary used the quote, "It takes a Village", to demonstrate how everyone was involved in the green school challenges.

A school wide pledge was created and signed by all students and teachers. The school even ensured that their cafeteria staff and custodians were on board with recycling paper and cardboard items.

The students and teachers organized school-wide recycling programs and had a representative from the Everglades National Park speak to students about water conservation.

🌿 COMMUNITY INVOLVEMENT:

Green Team members at the school spread their message of environmental stewardship to the community through creative activities. They implemented the light bulb and showerhead exchange program executed by staff, parents, and community members. Parents, staff, and community partners also helped establish a garden at the school. Parents sponsored many green challenges and helped students recycle items that would have ended up in landfills.

Year	CO ₂ Saved	kWh Saved	\$ Saved	% Saved
9/12 – 3/13	10,173 lbs	7,464	\$6,008	2.0%

Note: Calculations for 'Dollar Savings' has been determined using FPL's average cents/kWh.

PALM SPRING NORTH ELEMENTARY :

📌 *Score: 70.02 Points.*
Member Since 2011



**GREEN SCHOOLS CHALLENGE
3RD PLACE WINNER 2012/2013**



🌿 HIGHLIGHTS:

The Green Team at Palm Spring North Elementary became environmental stewards at the school and in the community by implementing healthy, environmentally-friendly practices into their daily activities. As a result of their teamwork, the school beat their energy target by 8142 kWh resulting in a 0.7% reduction in energy usage during the school year.

🌿 ACTIONS:

1. Monitored recycling bins in their classrooms.
2. Promoted energy saving practices such as turning off printers before dismissal time.
3. Planted a tree in honor of Earth Day.
4. Recycle Rangers picked up litter after school on campus.
5. Weekly announcements were made promoting environmental practices.

🌿 SCHOOL INVOLVEMENT:

The school's Recycle Rangers created a system to enforce a no littering policy. The school participated in the Ocean Conservancy's Annual International Coastal Clean which helped students understand the importance of recycling and reducing waste. Palm Springs North Elementary also had a reoccurring 'Green Tip Tuesdays' on their morning announcements, as well as 'Green Tips' in the monthly school newspaper. The students were thoroughly involved in green school projects such as toothpaste collections, The Lorax Project and 'Green Day' dress down day..

🌿 COMMUNITY INVOLVEMENT:

Parents, students, Recycle Rangers and PTA members participated actively in their community by volunteering at the Ocean Conservancy's International Coastal Cleanup and at the Baynanza Biscayne Bay Clean up. Students were also responsible for creating a town from the story The Lorax, by Dr. Seuss. The project was completed using only recyclable material, which helped students and staff learn what materials were to be recycled and reused.

Year	CO ₂ Saved	kWh Saved	\$ Saved	% Saved
9/12 – 3/13	11,098 lbs	8,142	\$6,554	0.7%

Note: Calculations for 'Dollar Savings' has been determined using FPL's average cents/kWh.

“We would like to Thank and Congratulate the committed Team of Teachers, Custodial Staff, Administrators, and Students for participating in the 2012/13 Green Schools Challenge and reached this stage!”

OTHER FINALISTS



AIR BASE ELEMENTARY

📌 *Score: 70 Points*

🌿 HIGHLIGHTS:

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🌿 ACTIONS:

1. Monitored recycling bins in their classrooms.
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3. Planted a tree in honor of Earth Day.
4. Recycle Rangers picked up litter after school on campus.
5. Weekly announcements were made promoting environmental practices.



COCONUT PALM K-8 CENTER

📌 *Score: 70 Points*

🌿 HIGHLIGHTS:

Coconut Palm K-8 Center made it their goal to have every student and staff member sign the Green Pledge. The students worked willingly to create a recycling box for each classroom and throughout the school. Parents and staff also got involved by hosting a light bulb and showerhead exchange, as well as supporting a “No Idling” campaign organized by the students.

🌿 ACTIONS:

1. Kept one light switch off 80% of the time.
2. Used water condensation from floral cooler to water plants.
3. Provided a ‘Green Tip’ each week on the Morning Announcements.



E.W.F. STIRRUP ELEMENTARY

📌 *Score: 70 Points*

🌿 HIGHLIGHTS:

E.W.F Stirrup Elementary was a model school for the 2012/2013 GSC program. The Green Team established a recycling program, organized a light bulb and showerhead exchange, invited volunteers to speak about environmental crises, and encouraged school-wide action.

🌿 ACTIONS:

1. Used recycled paper as scratch paper for Math problems.
2. Created a water filter to see materials that work best in filters.
3. Encouraged water conservation by taking shorter showers.



HIALEAH SENIOR HIGH

📌 *Score: 70 Points*

🌿 HIGHLIGHTS:

Hialeah Senior High created a Green Team that guided them in the process of creating a greener school. The students became more conscious about the environment due to the Green Team. Teachers and parents collaborated with the recycling program and students contributed eagerly by unplugging any electronic devices not in use.

🌿 ACTIONS:

1. Turned off the AC for 15 minutes during first block.
2. Used natural light instead of fluorescent lights.
3. Provided carpooling opportunities.



HOMESTEAD SENIOR HIGH

📌 *Score: 70 Points*

🌿 HIGHLIGHTS:

Homestead Senior High students made a 100% commitment to advance environmental sustainability at their school through the Green Schools Challenge. Students completed every Monthly Challenge activity and the students showed outstanding leadership in the quality of work they produced.

🌿 ACTIONS:

1. Built a carpooling program for staff members.
2. De-lamped the Media Center, Auditorium, hallways, gym, and cafeteria.
3. Ensured that students used reusable water bottles instead of bottled water.



HUBERT O. SIBLEY ELEMENTARY

🚩 *Score: 70 Points*

🌿 HIGHLIGHTS:

Hubert O. Sibley Elementary exceeded all expectations to integrate green initiatives into their school curriculum. They have saved over 2,000 lbs of plastic, paper, aluminum, and cardboard. They also planted several trees in order to have a bigger impact on their carbon footprint.

🌿 ACTIONS:

1. Continued to contribute to their compost barrel.
2. Used power strips, natural light, turned off monitors, and lights when they were not in use.
3. Planted a vegetable garden.



JOHN I. SMITH K-8 CENTER/ RONALD REAGAN DORAL SENIOR HIGH/ DORAL MIDDLEV

🚩 *Score: 70 Points*

🌿 HIGHLIGHTS:

These schools went beyond all expectations to assimilate green initiatives into their school curriculum and work together to become the Green Team. These schools collected about 30,000 bottle caps which were donated for chemotherapy.

🌿 ACTIONS:

1. Had students and staff sign individual pledges to save energy, conserve water, reduce waste and recycle.
2. Created skits on their school broadcasting channel to enforce eco-friendly behavior.
3. Made belts from bottle caps as artwork and as accessories.



LEEWOOD K-8 CENTER

📌 *Score: 70 Points*

🌿 HIGHLIGHTS:

Leewood K-8 Center produced remarkable work that exceeded all GSC benchmarks. Teachers encouraged their Green Team to complete activities to their highest standards and the results were superb. They were the winners of the Samsung Solve for Tomorrow Contest. From over two thousand national entries, Leewood was selected by a panel of judges to receive \$110,000 for educational technologies from Samsung, the Adobe Foundation, and DIRECTV.

🌿 ACTIONS:

1. Placed a link on the school website about electronic recycling collections.
2. Used rain barrels to water the school's vegetable garden.
3. Exchanged light bulbs and showerheads at their annual Harvest Festival for increased participation.



MAST AT HOMESTEAD

📌 *Score: 70 Points*

🌿 HIGHLIGHTS:

MAST at Homestead provided excellent monthly challenge submissions on different green topics and showed great leadership in the Green Schools Challenge program. The students on the Green Team worked tirelessly to advance environmental stewardship throughout the entire school by implementing programs for recycling and conserving energy.

🌿 ACTIONS:

1. Promoted "Earth Hour" in each student's school schedule.
2. Created a pledge wall for environmental awareness.
3. Planted a green garden.



NAUTILUS MIDDLE

🚩 *Score: 70 Points*

🌿 HIGHLIGHTS:

Nautilus Middle's Green Team was 100% committed to environmental sustainability and greatly increased environmental awareness throughout the school. The Green Team took strong actions to reduce consumption of energy, waste and water. Dawson McNamara, leader of the school's Green Team, was recognized for his efforts as the winner of the GSC's Student Leadership Award.

🌿 ACTIONS:

1. Held school-wide Green week promoting energy awareness.
2. Created a future green city model for the Regional Future City Challenge.
3. Cultivated a Memorial Butterfly Garden, which was used for organic practices.



SHENANDOAH ELEMENTARY

🚩 *Score: 70 Points*

At Shenandoah Elementary the teachers showed great interest in working together to make the school green. They created a Dream in Green Hall of Fame which showcased all students' green projects for visitors to see. The school encouraged change in behavior by instilling new and more 'green' school-wide habits in order to save energy and water. The students were actively involved in all activities and showed great spirits. The Green Team created an initiative called 'Green Wednesday' where all students were required to wear green shirts and turn off half the lights in the classrooms 5 minutes before dismissal in order to show support. The school's recycling program slowly became popular in more classes. For Green Careers, Shenandoah Elementary invited community speakers to inspire students. Well done Shenandoah we are proud of your green efforts!

🌿 HIGHLIGHTS:

Shenandoah Elementary created one of the strongest Green Teams with over 30 members. They raised awareness of environmental problems, set up a green team hall of fame and water conservation artwork and implemented Earth Day celebration activities. The school encouraged change in behavior by instilling new and more 'green' school-wide habits in order to save energy and water.!

🌿 ACTIONS:

1. Promoted an Anti-Littering Campaign.
2. Created 'Green Wednesdays' where students turned off the lights 5 minutes before dismissal.
3. Established a successful recycling program.



HONORABLE MENTIONS



HONORABLE MENTION

School	GSC Points
West Miami Middle School	65
Rockway Middle School	65
Robert Rusa Moton Elementary	65
Palmetto Middle School	65
Ojus Elementary	65
Miami Springs Elementary	65
Eugenia B. Thomas K-8 Center	65
Emerson Elementary	65
Dante B. Fascell Elementary	65
Coral Reef High	65
West Hialeah Gardens Elementary	65

TOP ENERGY SAVERS

School	Energy Reduction
Sylvania Heights Elementary	1st Place
Miami Palmetto Senior High	2nd Place
Coral Gables Senior High	3rd Place
Lawton Chiles Middle	Finalist
Ruben Dario Middle	Finalist
Norland Middle	Finalist
Calusa Elementary	Finalist
Southwood Middle	Finalist
Springview Elementary	Finalist
TERRA Environmental Res. Institution	Finalist

BEST INDEPENDENT SCHOOL

School
St. Stephen's Episcopal Day School
Palmer Trinity School

MONTHLY CHALLENGE WINNERS

Winning School

Morningside & Palmetto Middle
RR Morton & St. Thomas Apostate
Ben Sheppard Elementary & Hialeah Gardens Middle
Claude Pepper & Arvida Middle

Monthly Challenge

Energy & Climate Change
Waste Reduction & Recycling
Water Conservation
Green Transportation

STUDENT LEADERSHIP

Winning School

Nautilus Middle School
Hialeah Gardens Senior High

Student Winner

Dawson McNamara
Niurys Arteaga Yesenia Rodriguez

BEST FACILITY MANAGER

Winning School

Dante B. Fascell Elementary
Homestead Senior High
E.W.F. Stirrup Elementary

Facility Staff Winner

Mrs. Elizabeth Hernandez
Mrs. Maritza Dominguez
Mr. Luis Mirabal

INNOVATION IN EDUCATION

Winning School

Miami Palmetto Senior High

Winning Teacher

Pamela Shlachtman

CURRICULUM INTEGRATION AWARD

Winning School

Air Base Elementary
Palmetto Middle
Kinloch Park Middle
West Hialeah Elementary

Facility Staff Winner

Hannah Purcell
Terri Ortiz
Maria Flores
Vilma Quevedo, Emma Pardo, Jackie Leal



OUR MISSION

1. To develop and implement environmental education programs that promote energy + water conservation and efficiency, environmental sustainability and the use of renewable energy in the public and private sectors; and
2. To raise awareness and deepen understanding of the energy, climate change and environmental issues confronting local and global communities.



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