

Florida Green Apple Schools FL Dept. Environmental Protection.



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Who: Florida Department of Environmental Protection.

Reduce environmental impacts and costs. School operations are the biggest expense after salaries.

Green Apple school can go on to be nominated for the national U.S. Department of Education Green Ribbon Schools recognition. *Principals and the District will be on board for the possibility of state and national recognition.*



U.S. DEPARTMENT OF EDUCATION
GreenRibbonSchools

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What: Application with six parts. Pick three options per category.



Florida Green School Designation Program
Green Apple Designation Application



The Florida Department of Environmental Protection (FDEP) applauds your decision to participate in the Florida Green School Designation Program, illustrating your commitment to protecting and conserving Florida's environment. For assistance completing this application, please visit the Program website.

To complete the Florida Green School Designation process, you must complete and submit the Green Apple Designation Application and meet all the requirements to achieve Green Apple status.

1. Waste Reduction (ex. Recycling and Composting)
1. Water Conservation (ex. low flow in new building, 50% of school)
1. Energy Efficiency (ex. Conservation and Renewable energy)
1. Alternative Transportation (ex. Electric vehicle car charging and Bike to school programs)
1. Air Quality (ex. Filter cleaning schedule, no smoking)
1. Communications (PTSA Newsletter, announcements, website)

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Where: Your school!

Current Florida Green Apple Schools.

Program Updates

As of May 1, 2019, there are 22 designated Green Apple schools.

George Bank Elementary, Hollywood, FL
Pleasant Elementary School, Fort Meade, FL
Pleasant Island Elementary, Seaside, FL
Highland Elementary, Lake Worth, FL
MAST Elementary, Hollywood, FL
Sunshine Elementary, Sunshine Beach, FL
Pine Middle School, Fort Pierce, FL
Palmetto Elementary School, Palmetto, FL
Griffin Elementary School, Cooper City, FL
WISDA Happy Kids, Miami Beach, FL
Briarwood Middle Academy of Environmental Health and Wellness, Hollywood, FL
New River Middle, Ft. Lauderdale, FL
Green Shores Charter School, Tamarac, FL



- Delaney Reynolds addresses 1,000+ MAST students in January 2017.
- They vote for a net zero energy school in five years!
- Overheard by a 6th grader, "Can we sell lemonade to buy solar panels?"



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When: start any time, but to be considered for USDOE Green Ribbon award, a school needs to become a Green Apple school first. Green Ribbon application deadline is in December.



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Why: Green Schools are healthier for students, the planet, and save money.

Save Money and Resources

Better Learning Outcomes.

- School operations are the biggest cost after teacher salaries.
- Duval (Jacksonville) schools saved \$100 million in 5 years with energy efficiency programs and they are half our size!
- Green Schools are healthier. Better air quality and better learning outcomes. Buses are biggest CO2 emitters in the county.
- Close the gap ("hidden curriculum") between what kids learn about the importance of conservation and how schools operate: i.e. bus idling, cold classrooms, poor recycling, cafeteria food waste.

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Largest districts (NYC, LA, Chicago) have sustainability plans. Why not us?



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Green Apple School Voices!

- We help establish the baseline and identify inefficiencies. The District is not paying attention. They just pay the bills. Citizen science.
- Not enough zone mechanics. One mechanic often serves several schools.
- Administrators too overwhelmed to pay attention to these money saving details.
- PTA Green Apple schools can have a collective voice here in MDCPS and in Tallahassee. [MAST pushed the district to get recycling back, eliminate straws and install solar.]
- The District can't ignore a collective voice.
- Get to know your overlooked zone mechanic and custodian. Your kids know them!

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How: The application.

1. Waste Reduction.

WASTE REDUCTION, REUSE AND RECYCLING

At a minimum, at least three of the following waste efforts must be implemented. Check **ONLY** if the practice is implemented in at least 50 percent of the school, or at least 50 percent of the time. Documentation will be required to verify practices noted in *italics*.

1. Track waste usage.	YES ☒ NO ☐
2. Provide an opportunity to recycle the following materials, if generated and if service is available in your area. Indicate materials your school currently recycles: ☒ Plastic Bottles ☒ Aluminum Cans ☐ Steel Cans ☐ Glass ☒ Office Paper ☐ Cardboard ☐ Newspapers ☐ Magazines ☐ Batteries ☐ Ink Cartridges ☐ Fluorescent Bulbs ☒ Electronics	YES ☒ NO ☐
• Location of recycle receptacles: 18 bins throughout the school for cans and bottles, paper. Large paper bins in the copy room.	
3. School or School District, has a policy about purchasing materials with recycled content and/or a waste reduction plan.	YES ☐ NO ☐
4. Provide compost bins for organic/native gardens.	YES ☒ NO ☐



- Dream in Green for mini-grant funding.
- Pepsi Recycle Rally. Free Bins
- Ikea for Paper bins
- Recycling across America for proper labels.

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Waste and Recycling.

Ask the District to install a bottle filler and provide the strawless packaging.



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2. Water Conservation. Help your school find out what kind of upgrades they need.



Florida Green School Designation Program Green Apple Designation Application



WATER CONSERVATION

At a minimum, at least three of the following water efforts must be implemented. Check **ONLY** if the practice is implemented in at least 50 percent of the school, or at least 50 percent of the time. Documentation will be required to verify practices noted in *italics*.

1. Track water and wastewater usage.	YES ☐ NO ☐
2. Use a preventative maintenance schedule to find and repair leaky faucets, toilets and pipes.	YES ☒ NO ☐
• Submit current schedule:	
3. Use low-flow faucets, 1.5 gallons or less per minute, in restrooms.	YES ☒ NO ☐
• Manufacturer: <i>F&S Metering Cartridge</i>	
• Product Number: <i>339 AC</i>	
4. Use low-flow toilets, 1.6 gallons or less per flush, in restrooms.	YES ☒ NO ☐
• Manufacturer: <i>American Standard</i>	
• Product Number: <i>6043721</i>	
5. Use low-flow showerheads, 2.0 gallons or less per minute, in locker rooms.	YES ☒ NO ☐
• Manufacturer: <i>Brady Corporation</i>	
• Product Number: <i>504-022WE15</i>	
• Product Name: <i>1.5 gpm</i>	
6. Use automatic faucets and toilets in restrooms.	YES ☐ NO ☐
7. Have a water assessment conducted by a local utility company, local water management district or other appropriate organization.	YES ☐ NO ☐
• Assessment Date:	
• Conducted By:	

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3. Energy Efficiency (ex. Conservation and Renewable energy)

ENERGY EFFICIENCY

At a minimum, at least three of the following energy efforts must be implemented. Check **ONLY** if the practice is implemented in at least 50 percent of the school, or at least 50 percent of the time. Documentation will be required to verify practices noted in *italics*.

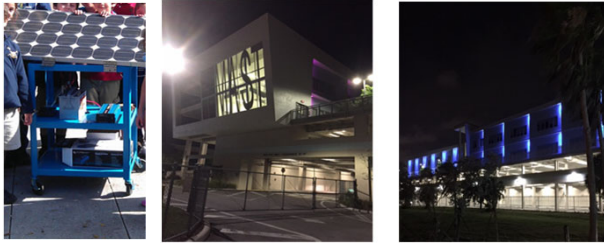
1. Track energy usage.	YES ☐ NO ☐
2. Use a preventative maintenance schedule to maximize efficiency in appliances.	YES ☐ NO ☐
• Submit current schedule:	
3. Use energy efficient lighting (compact fluorescent bulbs, LEDs, and/or T-8 fluorescent tubes).	YES ☒ NO ☐
4. Use ENERGY STAR® rated equipment other than lighting.	YES ☒ NO ☐
5. Use programmable thermostats.	YES ☒ NO ☐
6. Use timer or sensor lighting indoors/outdoors.	YES ☐ NO ☐
7. Use a computerized Energy Management System.	YES ☒ NO ☐
8. Support green power. Use on-site renewable energy power source (solar panels, solar hot water heater, other).	YES ☐ NO ☐
• Type Used: <i>Solar Panels and solar AC to be installed on the Guard Shack entrance to the school</i>	

Good news: The district already uses an energy management system. Get credit for that on your application.

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3. Energy Efficiency

- Energy Rebate from District. \$.70/\$1.00 savings after first 5%.
- Turn off the lights! (We still can't figure out how to turn off the lights at night at MAST!)



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Solar Installation:

District to install solar on a few PE Shelters. Ask for your school!



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4. Alternative Transportation: EV charging, SchoolPool, bike to school, no idling

At a minimum, at least two of the following transportation efforts must be implemented. Check ONLY if the practice is implemented in at least 50 percent of the school, or at least 50 percent of the time. Documentation will be required to verify practices noted in *italics*.

6.	Promote walking or biking to school for students living in the area.	YES ☐	NO ☐
7.	School buses follow a "No Idling" Policy in the morning and afternoon.	YES ☒	NO ☐
8.	Cars waiting for students follow a "No Idling" Policy in the morning and afternoon.	YES ☐	NO ☐



Friday, June 15th
Noon - 2:00 PM
Calusa Park
Free & Open to the Public



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5. Air Quality (non-toxic cleaning products, changing air filters...)

AIR QUALITY AND TRANSPORTATION

At a minimum, at least three of the following air efforts must be implemented. Check ONLY if the practice is implemented in at least 50 percent of the school, or at least 50 percent of the time. Documentation will be required to verify practices noted in *italics*.

1.	Use at least two environmentally preferable cleaners that are biodegradable <u>and</u> do not contain NTA (nitrilotriacetic acid), chlorine bleach or phosphates <u>or</u> two cleaners that have a third party green cleaning certification. <i>McL - Safe + Effective - Drilling - Change Cleaners</i>	YES ☒	NO ☐
	• Enter Products and Brands: <i>McL - Safe + Effective - Drilling - Change Cleaners</i>		
2.	Use high efficiency air filters with a Minimum Efficiency Reporting Value (MERV) 8 or higher.	YES ☐	NO ☐
	• Submit receipt or proof of purchase		
3.	Clean air handler units and coils at least annually. Keep and follow a preventative maintenance schedule and record of activities.	YES ☒	NO ☐
4.	Properly label and store all chemicals.	YES ☐	NO ☐
5.	No visible mold or mildew is present.	YES ☒	NO ☐
6.	School building and grounds are 100 percent smoke free.	YES ☒	NO ☐



Products from
S&D = school
supply warehouse.
Buckeye Refill
System =
Contact Albert
Bednarek

abednarek@buck
eyereinternational.c
om

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6. Communications

- PTSA Newsletter
- Webpage: PTSA Tab: Go Green.
- What's App Chat.

Leverage social media for your advocacy efforts

Social media is a great way to tell your story, inform and update about your advocacy issues or activities. It's also an excellent medium for sharing events with a wider audience. Consider using social media to promote your school's recycling program. You can make great social media content and share more information by using photos. We encourage you to apply your advocacy messages on social media and that your messages are consistent.

Social media is not necessarily the place to discuss more complex or difficult issues. Decisions about what information is shared on social media and what should be better suited for an in-person communication.

Students pay attention to social media

A student at K&M Academy in Miami, FL, tweeted at her superintendent to celebrate their successful participation in Pepsi Recycling Rally. She also used the opportunity to urge the district to deal with its poor performing recycling vendor. The superintendent responded promising to enhance the district's recycling program, and parents and students at the school plan to follow up with him to make sure that in the future the vendor is able to recycle bottles and cans.



May 2018 tweet to the Superintendent about the problem with recycling = Featured in the Center for Green Schools Advocacy Toolkit.

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6. Communications. Educate, Activate, Celebrate

COMMUNICATION AND EDUCATION.

At a minimum, at least three of the following communication efforts must be implemented. Check **ONLY** if the practice is implemented in at least 50 percent of the school, or at least 50 percent of the time. Documentation will be required to verify practices noted in italics.

1. Make available your school's Environmental Self Assessment and Planning Checklist to the public upon request.	YES ☐ NO ☐
2. Communicate your school's environmental initiatives to students, parents and staff.	YES ☒ NO ☐
3. Establish an environmental task force or "Green Team" and meet quarterly, at a minimum, to evaluate and improve environmental initiatives.	YES ☒ NO ☐
4. Discuss green practices and policies at student, parent and staff meetings.	YES ☒ NO ☐
5. Provide a survey, suggestion box or online evaluation for students and teachers to allow feedback on your school's environmental practices.	YES ☐ NO ☐

Submit meeting dates, number of attendees and green topics for meetings.

Submit a survey example, picture of suggestion box or link to online evaluation.

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- Updating the School Board Member
- School Board Meetings

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Net ZERO Energy Schools: Dept. of Energy Program. Why not in FL?

California, Colorado, Maryland, New York, North Carolina, South Carolina, Virginia.





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ZERO Waste Schools: LA, NYC, Chicago, Charleston. Why not here?

Getting to Zero:

Initiative with the Department of Sustainability



With a Bosch Station



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Our kids are watching us. Let's inspire them!

**MDCPS families asking
Congress to pass legislation
to reduce CO2.**



**Nominated for the Nobel
Peace Prize.**

