



BOS – SB Joint Environmental Policy Meeting

Update

April 2, 2019



BOS-SB Joint Environmental Policy Meeting




Purpose:

- Provide update on current energy efficiency and the outlook for renewable energy in FCPS
- Explore additional opportunities for collaboration

FCPS Environmental Initiatives

Focus Area	Vision
Environmental Stewardship	<p>FCPS is committed to continue to take innovative and cost effective steps help our country achieve climate stabilization. This policy is intended to prioritize the practices to be developed and implemented by staff members in order to address global warming and to meet other important environmental stewardship initiatives. We are also committed to educating students and staff members in environmental stewardship responsibilities and to encourage them to use their critical-thinking skills and communication skills to debate the appropriate measures we need to take in order to be responsible stewards of our environment.</p>
Climate and Energy	<p>The Fairfax County School Board approved a Resolution calling for state and federal action to combat climate change and directing staff to provide timely reports and proposals to advance the use of renewable energy in FCPS capital improvement, operations, and transportation planning.</p>
Recycling	<p>FCPS supports recycling! As citizens of the earth and stewards of our environment, we recognize that recycling has many benefits to our community.</p>
Health and Education	<p>Learning doesn't only take place in the classroom – and where better to learn about environmental topics than in nature? Outdoor learning also has tremendous benefits for students, including boosted academic achievement, improved problem solving and critical thinking skills, and reduced stress levels. FCPS students are working in schoolyard wildlife habitats, growing food in edible gardens, and writing in their outdoor classrooms.</p>

Collaboration – Climate and Energy

Focus Area	FCPS Goals	FCPS Targets	Existing Collaboration	Proposed Collaboration
Energy Use and Efficiency 	Reduce electricity and natural gas use in existing FCPS facilities and operations.	Achieve the DOE Better Buildings Challenge commitment of 20% reduction in Kilo-British Thermal Units (kBtu) between 2013 and 2023 (reduction is 16% as of 2018)	FCPS Energy Coordinator periodically checks in with FCG Environmental Manager and is invited to FCG team meetings FCPS and FCG have joint VEPGA and NOVEC Customer Group memberships	Formalize meetings between the FCPS Energy Manager and FCG Environmental Manager Consolidate training of FCPS and FCG staff when equipment and systems overlap
Green Buildings 	Ensure new construction and major renovations are energy and water efficient	Achieve VA-CHPS Designed on FCPS school renovation and new construction projects	FCPS and FCG use different design standards: FCPS designs to VA-CHPS (Collaborative for High Performance Schools) and FCG designs to LEED	No changes
Innovative Energy Solutions 	Reduce fossil fuel consumption through the application of innovative concepts and technologies	Pursue Power Purchase Agreements for solar projects on school buildings Install Variable Refrigerant Flow (VRF) systems for improved efficiency and indoor environmental quality	FCPS Energy Coordinator will include solar projects for 159 schools VRF systems are included in renovation and new construction projects wherever they are appropriate	FCPS will continue to work with FCG on solar procurement Collaborate with FCG on best practices and training

Environmental Leadership

FCPS is Consistently Recognized as a Leader in Environmental Stewardship

- **2018** Green Schools Challenge Winner
- **2017** and **2018** ENERGY STAR Partner of the Year
- **2016** and **2017** Energy Efficiency Leadership Award
- **2016** Better Building Challenge Winner
- **2016** Green Ribbon Schools Award
- **2016** Battle of the Buildings Winner
- **2015** Climate and Energy Leadership Award



FCPS Strategic Vision

Plan

- Design
- Construction
- Verification
- Commissioning



Perform

- Benchmark
- Ranking
- Certification



Monitor

- Audits
- Schedules
- Behavior
- Conservation



Interpret

- Collect Data
- Analyze
- Report
- Measurement & Verification



Communicate

- Website
- Dashboard
- Competition
- Social Media



Improve

- Efficiency
- Upgrades
- Solar
- LED



Collaborative for High Performing Schools

Goals:

- Protect occupant health and enhance the learning environments of school children everywhere
- Conserve energy, water, and other natural resources
- Reduce waste, pollution, and environmental degradation



Solar Investments



Solar is installed in...

- Rachel Carson Middle School
- Frost Middle School
- Franklin Sherman Elementary School
- Glasgow Middle School
- Thomas Jefferson High School for Science and Technology



159 additional schools have been selected for inclusion in the upcoming solar RFP

Furthering the Collaboration

- **Urban Forestry** - Partnering with local suppliers to expand the impact our Urban Forestry Program and providing added support and resources
- **MS4** – FCPS will work with Fairfax County to increase collaboration on permit compliance to build a more sustainable stormwater infrastructure and improved water quality
- **Outdoor Learning** - Promoting the well-being of Fairfax County students, families, and residents through Outdoor Classrooms, developing wildlife habitats and the Chesapeake Bay Watershed Program
- **Health and Nutrition** – Work with Health Department on programs like Farm to School, Garden to Cafeteria and Nutrition Education
- **Recycling** – Collaborate with DPWES to communicate the many benefits to our students and community at large



Fairfax County
PUBLIC SCHOOLS

ENGAGE • INSPIRE • THRIVE

www.fcps.edu