

Going Green: a school district pursues environmental sustainability

Environmental & Energy Study Institute Congressional Briefing September 28, 2022

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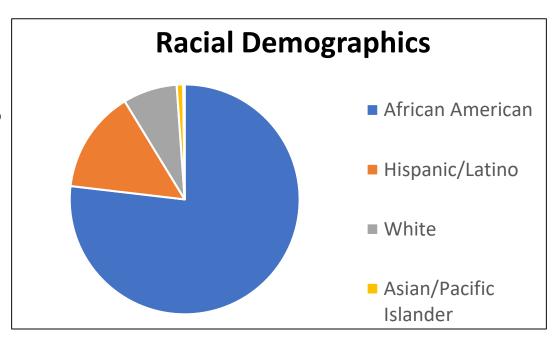
BALTIMORE CITY PUBLIC SCHOOLS

A little bit about us

- 164 schools and programs in 155 buildings
- 17+ million square feet
- 77,800 students
- 61% low income; 100% free lunch
- 11% English Language Learner
- 14% students with disabilities

Sustainability Policy first adopted in 2016

BALTIMORE CITY PUBLIC SCHOOLS





Three of our sustainability efforts

1. Sustainability policy & plan: building networks

2. School buildings: construction & operations

3. Environmental experiences: embedded in the curriculum & spending time outdoors

1. Our Sustainability Policy & Plan

Sustainability Plan







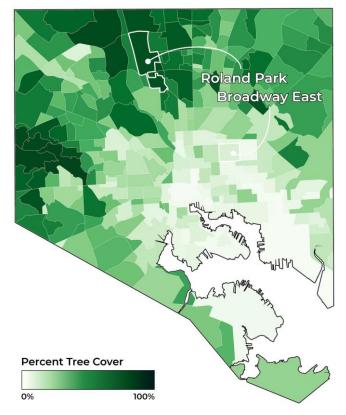




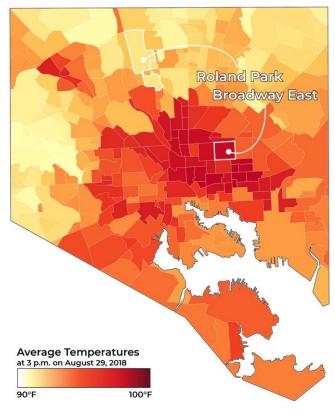


The historical, generational & compounding reality of racism

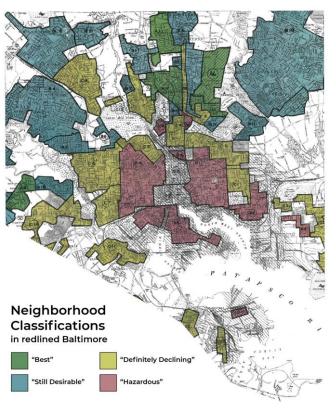
Communities that were redlined (the practice of denying home mortgages to certain areas based on race) in the 1930s have lower tree canopies today. *The Role of Trees – Poor neighborhoods in Baltimore have far less tree canopy than wealthier neighborhoods.* Capital News Service/Howard Center for Investigative Journalism, 9/3/2019. <u>link.</u>



The more trees (dark green)....



The cooler the temperatures on hot summer days (light orange)



Current level of tree canopy roughly matches 1930s redlining maps

Negative environmental burdens disproportionately impact people of color and people with lower incomes

People of color face disproportionate harm from climate change, EPA says

- USA Today. Link

Race Best Predicts Whether You Live Near Pollution

- The Nation. Link

Areas with weak health infrastructure – mostly in developing countries – will be the least able to cope [with climate change] without assistance to prepare and respond. –World Health Organization. Link

The elderly, poor, mentally ill, mobility-constrained, and those with limited experience of flooding were consistently identified as among the most susceptible to flooding effects in Baltimore.

- Framing the Challenge of Urban Flooding. Link

America is segregated and so is pollution. Race and class still matter and map closely with pollution, unequal protection, and vulnerability.... Reducing environmental, health, economic and racial disparities is a major priority of the Environmental Justice Movement.

— Dr. Robert Bullard Considered the "father" of the environmental justice movement" Link.

Building a network

Sep 2022 Green Schools Updates

BALTIMORE CITY PUBLIC SCHOOLS

In this newsletter, find news about environmental education, greening & sustainability at City Schools.

This is best viewed in a web browser - on a phone, tap the screen; on a computer, visit <u>https://www.smore.com/ug3ey</u>

Find information at www.baltimorecityschools.org/sustainability
Join the Greening Baltimore City Schools Facebook group,
Find additional resources on Google Drive

Welcome back! Here's to a great year ahead!

Communication with school leaders, teachers, staff and partners

Monthly newsletter

Supporting teachers to lead in their schools

Green Leader Achievement Units

Green Healthy Smart Challenge



BALTIMORE CITY PUBLIC SCHOOLS

Sustainability, Greening & Environmental Education at City Schools

We are updating our Sustainability Policy and want your input!

Parent and Community Advisory Board (PCAB)
March 17, 2022

Dr. Sonja Brookins <u>Santelises</u> Chief Executive Officer, Baltimore City Public Schools Dr. Lynette Boswell Washington, Chief, Operations Joanna Pi-Sunyer, Analyst-Sustainability

Presentations, conversations & surveys with stakeholders

2. School Buildings

Net Zero Energy (NZE) Schools

Two NZE schools serving grades K-8 opened in 2020



We succeeded because:

- Fertile foundation
- Serendipity
- Funding
- The will to succeed
- Consistent education and tweaking

The Path to Your Net Zero Energy School info sheets

21st Century Schools



Green Features (selected)

- LEED Silver, Gold & Platinum
- Lower Energy Use Intensity (EUI)
- Good acoustics, light and air
- Light-colored roofs
- Potable water fountains
- Storm water management









Across the District

- Increasing number of Building Automation Systems to control temperatures
- Monitoring utility consumption and costs
- Behavior modification
- Recycling
- Less-toxic cleaning supplies





3. Environmental experiences

Environmental literacy - curriculum-embedded experiences



Grade: 5

Unit: Save the Bay

Partners: Towson Center for

STEM Excellence / Waterfront

Partnership experience

https://www.youtube.com/watc

h?v=cBo7lhT_sxU



Grade: 6

Unit: Where have all the creatures gone?

Partner: National Aquarium in Baltimore

https://youtu.be/17ZPrCTCbOA



Grade: 9

Unit: The Baltimore Watersheds

Partners: Living Classrooms, Baltimore Recreation & Parks, MD Dept of the Environment, Chesapeake Bay Foundation,

Chesapeake Bay Trust

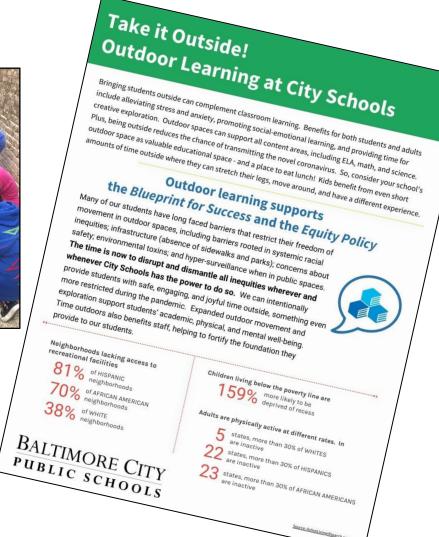
Biology Classes Investigate the Chesapeake Bay Watershed

Outdoor experiences













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Sustainability Resources







