Office of Sustainability FY23 Annual Report

Presented by Laura Thomas Director of Sustainability





Who We Are



We're Hiring! Sustainability Coordinator



Jasmin Johnson Energy Coordinator



Michael Smart Sustainability Engagement Coordinator



Bryan Epps Sustainability Manager



Dawn Oleksy Energy Manager



Laura Thomas Sustainability Director



Sustainability & Resilience

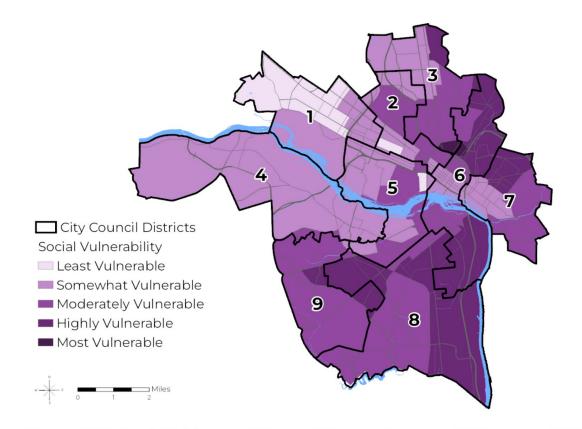




Frontlines of Climate Change

- Population (race, children, elderly, etc.)
- Household (renters, elderly living alone, etc.)
- Income & Education (SNAP, public assistance income, etc.)
- Housing & Transportation (internet access, vehicle access, etc.)

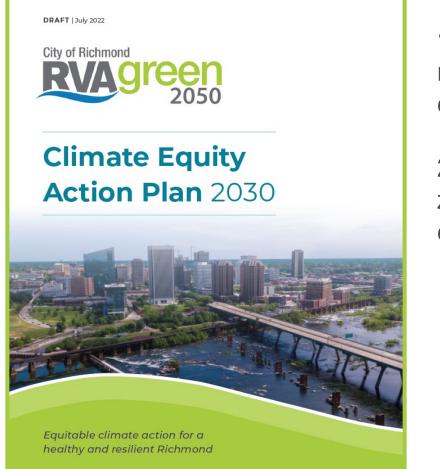
*Based on data from the U.S. Centers for Disease Control: Social Vulnerability Index







RVAgreen Adoption



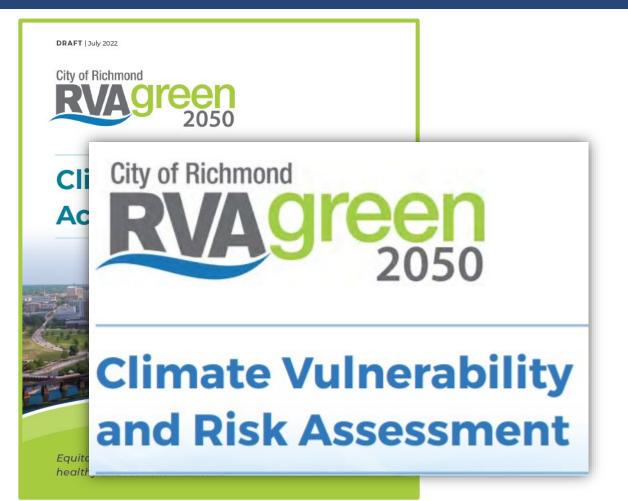
1 Vision: all Richmonders, regardless of their identity or neighborhood, thrive in a climate-resilient and climate neutral community

2 Goals: 45% reduction in GHG emissions by 2030 and net zero by 2050; Prepare for, adapt, and improve the community's resilience to local climate impacts





Climate Vulnerability Assessment



How vulnerable are our assets to climate change?

What is the impact?

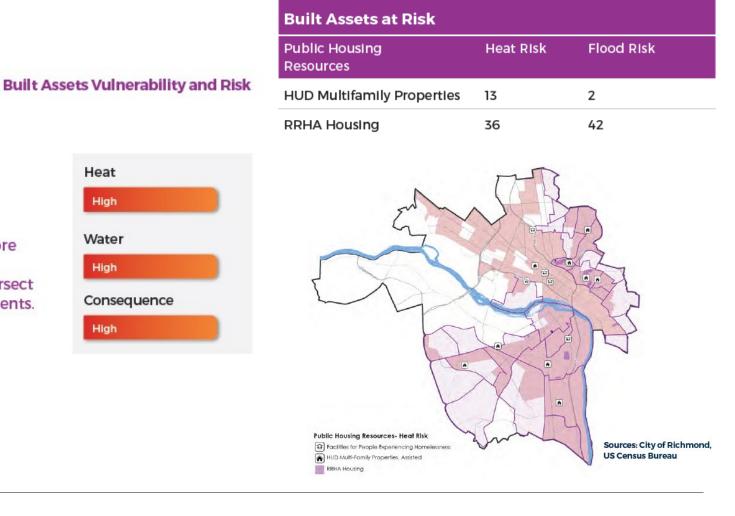


Climate Vulnerability Assessment



Public Housing

Those living in public housing are among Richmond's most vulnerable populations. These communities often have lower average incomes, more limited resources, and experience more chronic stressors such as poor housing conditions, crime, and health conditions. Climate impacts intersect with existing social, health, and economic vulnerabilities for these residents.





Climate Vulnerability Assessment Complete

Asset Class	Heat Risk	Flood Risk	Consequence				
Communications infrastructure	Medium	Medium	Medium				
Community Buildings	Med-High	Med-High	Med-High High				
Education	Medium High	Medium Med-High	Medium Med-High	Asset Class	Heat Risk	Flood Risk	Consequence
Health and Social Services	Medium Med-High	Med-High	Med-High	Roads and Bridges	Medium	Med-High	Med-High
Historic	Med-High High	Med-High High	Medium Med-High	Bike/Ped	Med-High	Med-High	Med-High
Economic Development and Planning	Medium Med-High	Med-High High	Medium Med-High	Rail and Transit	Medium	Med-High	Med-High
Energy Infrastructure	Med-Low High	Low High	Low Med-High	Marine	Med-Low	Med-High	Med-High
Food System Assets and Resources	Med-High	Med-High	Med-High	Airport	Med-High	Med-High	Med-High
Government Facilities	Med-High	Med-High	Med-High	Parks and Open Spaces	Med-High	Med-High	High
Parks and Open Spaces	Med-High High	Med-High High	High	Terrestrial Habitat	Med-High	Med-High	High
Public Housing Resources	High	High	High	Trees & Vegetation	Med-High	Med-High	High
Public Safety and Emergency Response	Medium Med-High	Med-High	Med-High	Water Bodies	Med-High	Med-High	High
Stormwater and Sewer Infrastructure	Medium	High	High				
Waste Management Infrastructure	Medium	Med-High High	Med-High High				
Water Supply Infrastructure	Medium Med-High	Med-High High	High				



Climate Vulnerability Assessment Complete

Table 6.4 - Prioritized Needs - Critical Flood Risk

Asset Category	Asset Name	Assets at Risk		Units	Critical Flood Risk		
		in Highly Socially Vulnerable Areas	Serving SV Groups at Risk Outside Most SV areas		Most Vulnerable Assets with exposure to Critical Flood Risk (located within or serving socially vulnerable groups)	Conse- quence	Districts
Community Buildings	Community Centers	2	o	centers	Creighton Court Community Center; Calhoun Community Center and Playground		3 rd District, 7 th District,
	Religious Centers	4	0	Centers	Saint Kim Taegon Catholic Church; Fifth Street Baptist Church; Bethlehem Baptist Church; Grayland Baptist Church		6 th District, 7 th District 8 th District
	Voting Stations	3	0	stations	Calhoun Center; John Marshall High School; 5th Street Baptist Church		3 rd District, 6 th District
Economic Development and Planning	CARE Zones	2	11	zones	*Belt Boulevard, *Brookland Park Boulevard, *Fulton Hill, *Hull Street, *Jackson Ward, *Midlothian Turnpike, *North Avenue, *North 25th Street, *Shockoe Bottom, *Swansboro, *Upper Hull Street, Lombardy/Chamberlayne, Meadowbridge,		5th District, 6th District, 7th District, 8th District
	Community Unit Plans	4	0	plans	See map for locations		Various
	Enterprise Zones	3	0	zones	III (2746.8 acre), III (47.1 acre), 1 (3611.2 acre)		Various
Education	Childcare Centers	4	0	centers	North Richmond Branch YMCA; Fairfield Elementary School; Oak Grove Child Care Center; Bethlehem Baptist Church Child Development Center		3 rd District, 7 th District, 8 th District
	K12 Public Schools	4	0	schools	Oak Grove Elementary School; John Marshall High School; REAL School; Thomas H Henderson Middle School		3 rd District, 6 th District,
	Private Schools	1	0	schools	Geara Group/Educational Developmental Center		6 th District



Climate Vulnerability Assessment Complete

Table 6.2 Prioritized Needs - Critical Heat Risk

Asset Category	Asset Name	Assets at Highest Heat Risk in Most Socially Vulnerable Areas	Assets Serving SV Groups at Highest Heat Risk Outside Most SV Areas	Units	Critical Heat Risk - Afternoon Mean High Temp >96*		
					Assets/locations exposed to Critical Heak Risk (Above 96*)	Conse- quence	District
Education	Childcare Centers	1	ο	centers	Oak Grove Child Care Center - 2200 Fairfax Avenue Richmond VA 23224		8 th District
Health and Social Services	Dialysis Clinics	0	1	clinics	*DaVita Richmond Community Dialysis - 913 North 25th Street Richmond VA 23233		7 th District
	Homeless Facilities	1	1	facilities	Caritas - 1125 Commerce Road Richmond VA 23224, *Pilgrims Passage - 1500 Sherwood Road Richmond VA 23220		3 rd District, 6 th District
	Nursing Homes	0	1	homes	*Brook Haven Rest Home - 610 Fourqurean Lane		6 th District
Historic	National Register Historic Districts	4	0	Districts	Union Hill; Southern Stove Works; Chesapeake Warehouses; Highland Park Plaza		3 rd Disctrict, 6 th District. 7 th District
	State Federal Historic Sites	1	о	sites	Southern Stove Works Manchester		3 rd District
Economic Development and	CARE Zones	1	2	zones	*Lombardy/Chamberlayne, *North 25th Street, Meadowbridge		Various
Planning	Enterprise Zones	2	0	zones	III (2746.8 acre), 1(3611.2 acre)		Various



RGGI- Regional Greenhouse Gas Initiative

- Clean Energy & Community Flood
 Preparedness Act of 2020
- RGGI established the Community Flood Preparedness Fund (CFPF)
- Richmond has received \$8.7M
 - McGuire & Chapel Drive Drainage
 - Floodwall Digital Baseline
 - Staff planning & capacity building
 - Windsor Farms resilience plan
 - Mayo Island Acquisition





Energy Program Creation

- Mayor's 2023 50% Renewable Energy Goal
- Joint Energy Committee (JEC)
- Automated Utility Tracking
 - Dominion Key Account Portal
 - EnergyCAP Database
- EECBG | Household Energy Burden Relief





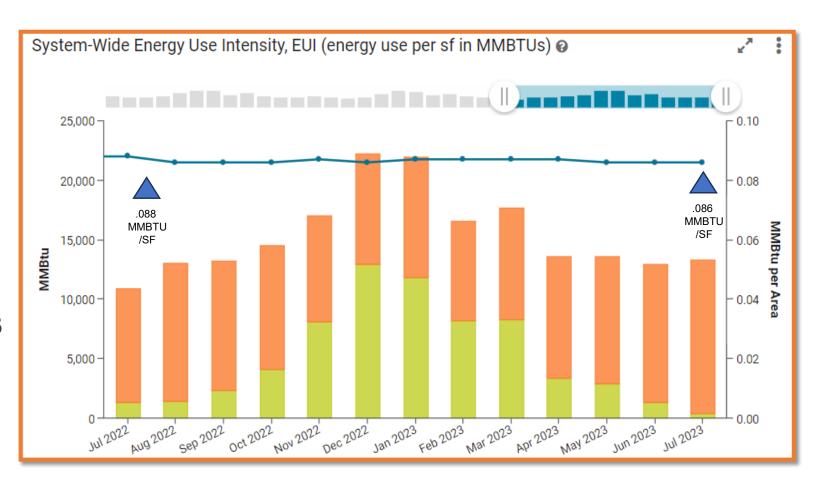


Energy Program Progress & Reporting

- Carbon footprint from municipal energy usage down 7.6% (2021 to 2022)
- 10 electric vehicles purchased
- Energy Expenditures: \$22,695,857 Electricity- \$16,717,229

Natural Gas- \$2,215,323 Fleet Fuel- \$3,763,304

 Energy Cost Avoidance Year 1: \$168,326





Community Engagement

- Neighborhood Climate Resilience Grant Program (ARPA) \$865,000
- Oakgrove/Bellemeade SAP
- Over 200 ongoing individual community-member connections
- 40+ participants in the Federal Climate Funding sessions





Grants – Federal Climate Funding Convening

- First-in-the-nation model (CBOs, quasi/gov't) for Federal Funds
- OOS supporting \$14,341,231.04 in applications (Federal, State, other)
 - ARPA, EECBG, Urban Forestry, etc.
 - Active: \$8,140,000
 - Anticipated FY24 applications: \$7,000,000-\$15,000,000+
- More announcements to come!





Other Successes

- The New OOS!
- 12% RVAgreen 2050 Actions
 Completed
- VCAP- DPU/Green City Commission
- C-PACE
- Urban Forester | Climate & Sustainability Grant Writer
- Started first GHG Inventory since 2018





FY24 Focus Areas

- Federal Grants, cont'd
- Data Informed Program and Policy Delivery
- Community-Built Neighborhood Climate Tour
- "Get on the Bus" Campaign
- Sustainability Guide for Residents
- Energy Efficiency and Renewables Installation (Direct Pay)
- Support Redevelopment Projects, Small Area Plans, etc.
- Greenspace Support (UFMP, Parks MP, etc.)
- EECBG | \$265,000 Energy Efficiency in Low-Income Homes
- IRA Developer Forum Nov 8th @ 4pm (Main St. Station)





Questions?

Join us! September 27th at 4pm



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