RVAgreen 2050 | Climate Equity Action Plan 2030

Presented by Laura Thomas Director of Sustainability

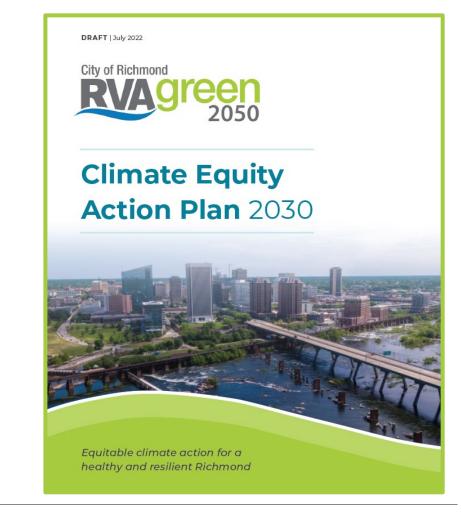




Vision Alignment

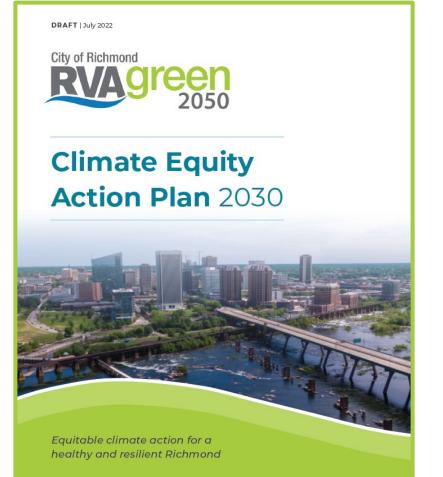
- Resolution No. 2020- R024
- Resolution No. 2021- R049
- Richmond Equity Agenda







RVAgreen 2050 by the Numbers



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

5 Pathways: Buildings & Energy, Community, Environment, Transportation & Mobility, Waste Reduction & Recovery

49 Strategies: Co-created by the 5 Working Groups, Racial Equity & Environmental Justice Roundtable and the Office of Sustainability



Community Outcomes





Community Benefits

22% Reduction in energy burden growth through 2050 This will improve quality of life for frontline communities in Richmond and reduce inequitable energy costs.	 » 2018 median energy burden level: 8.4% » A household is considered "high burden" if its energy burden exceeds 6% of their annual income. 	\$231M Public health savings through 2050 Lower emissions also means fewer diseases and conditions caused by exposure to pollution like asthma.	 CO₂ reductions exceed 6 million metric tons through 2050
10,900 New jobs created through 2050 (net) The transition to a carbon-free economy will open up twice as many job opportunities as are lost.	 Median annual household incomes will increase by \$226 through 2050 Job gains are strongest in Construction and Environmental Management 	\$3.6B Total net benefits (benefits minus costs) Aggressive pursuit of decarbonization efforts are cost-effective.	 » Benefit/Cost Ratio: 2.2 » Cumulative benefits: \$6.6B » Cumulative costs: \$3B



Community Priorities



Racial Equity & Environmental Justice



Affordable Housing



Government Accountability



Health & Well-Being



Community Wealth



Neighborhoods

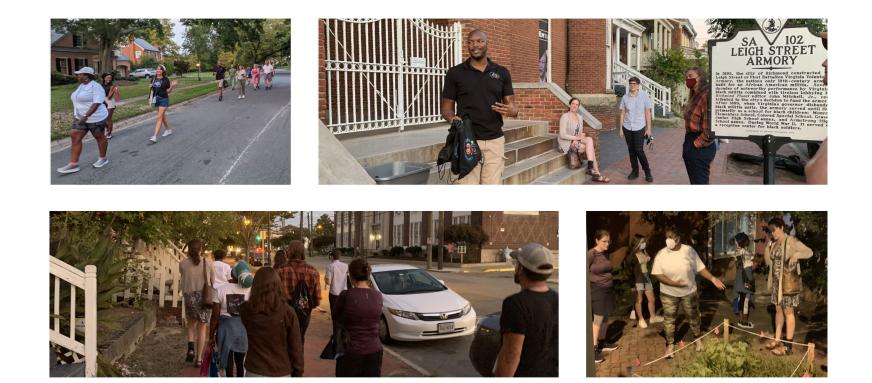


Engagement & Communication



Community Voices

- 5,700+ Community Members: commentary, survey responses, event attendance, etc.
- Attended 100+
 Events
- Digital Engagement
- Supporting Groups

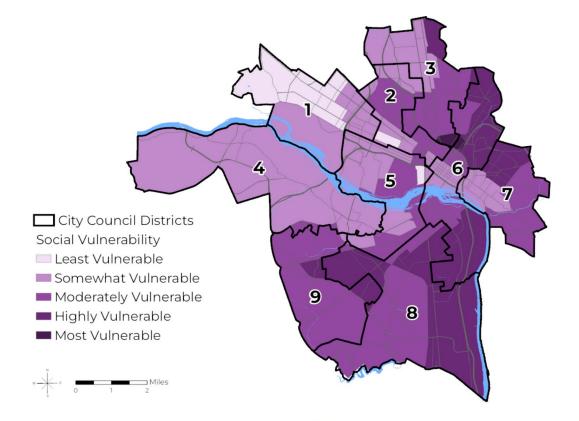




Frontlines of Climate Change

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







Community Resilience

Low-income populations and communities of color are more likely to...



live in areas with less greenspace and are more vulnerable to respiratory and heat related illnesses

live in neighborhoods that

lack convenient access to

transit, or safe walking and

biking options



lack access to energy efficient housing and often are disproportionately impacted by high energy bills



live in housing without air conditioning and are more vulnerable to heat related and respiratory illnesses and death



be impacted by extreme weather events as a result of climate change



exposed to pollution and airborne allergens and are more vulnerable to asthma and other respiratory illnesses



Climate Impacts

Richmond is already seeing the impacts of climate change when it comes to temperatures. Richmond has experienced, and will continue to have, higher average temperatures, more dangerously hot days (above 95 degrees), and longer heat waves.

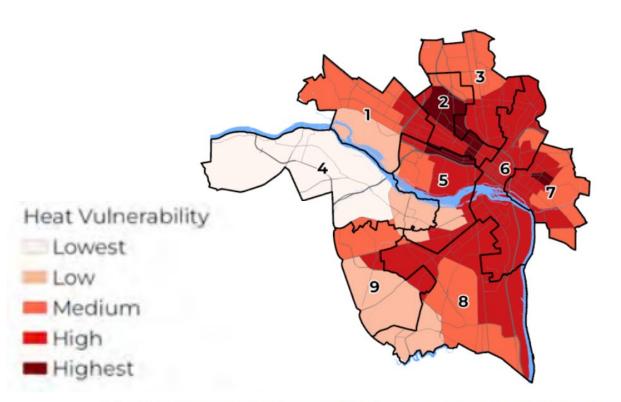


Figure 5.4. Heat Vulnerability by Census Tract (RVAgreen 2050 Climate Equity Index, 2019)⁴



Climate Impacts

Annual precipitation and the number and intensity of heavy precipitation events are projected to continue increasing.

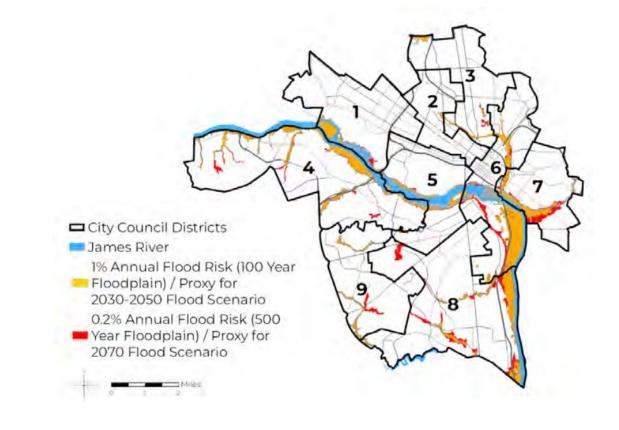
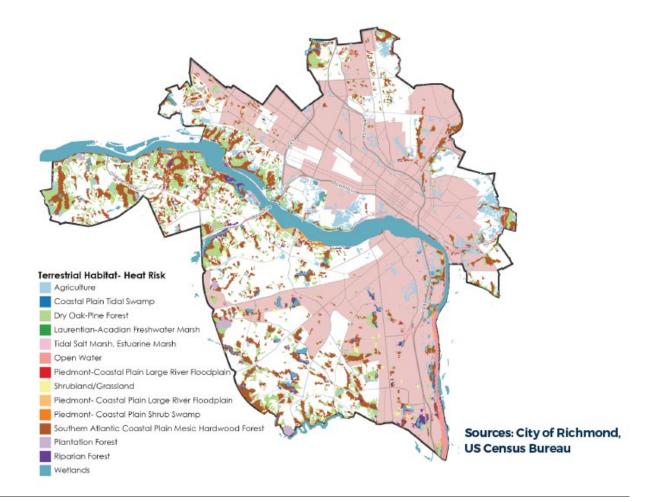


Figure 5.6. Future Flooding Scenarios (RVAgreen 2050 Climate Equity Index, 2019)



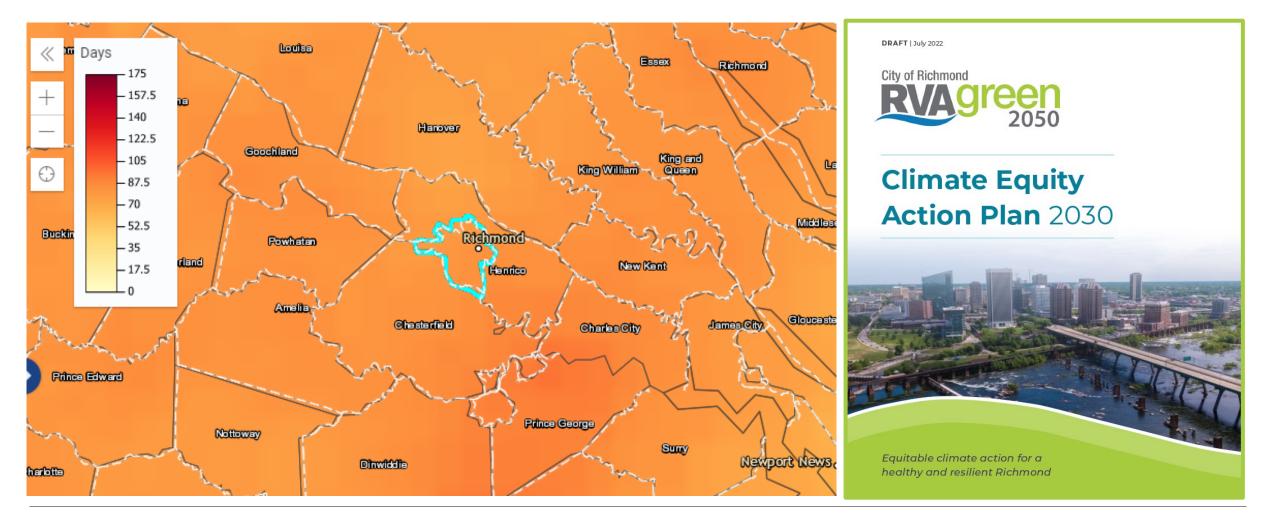
Climate Impacts

During dry periods, **naturally occurring droughts will be more intense** due to higher temperatures.





Regional Climate Impacts

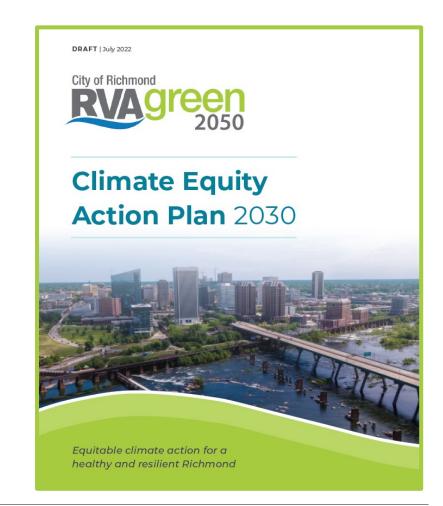




U.S. Climate Resilience Toolkit Days with Temperatures over 95°

Office of Sustainability - Next Steps

- Capacity Building
- Climate Equity Action
- Focused Implementation
- Funding Mechanisms





Questions?

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