



Energy and Climate Change Task Force

Meeting #6

July 19, 2022

7:00 PM

WiFi: Wireless.Alexandria

Agenda

- Welcome
- General Climate Updates
- ECCAP & Schedule Updates
- Climate Mitigation Actions/Strategies Discussion
- Climate Adaptation Actions/Strategies Discussion
- Community Engagement Workshop #3
- ECCAP Updates, Task Force Next Steps
- Public Comments



Task Force Members

- **Alyssa Abosompim**, At-large member of the Alexandria community
- **Mary Harris**, Co-Chair, Clean energy and climate policy or technology
- **Marian Pegram**, Co-Chair, Diversity, racial and social equity, and inclusivity issues of diverse Alexandria populations
- **Javier Bastos**, Alexandria's business community and institutional organization interests
- **Leah Devendorf**, Alexandria youth interests with specific priority of Alexandria high school students
- **Fiona Herbold**, Alexandria youth interests with specific priority of Alexandria high school students
- **Praveen Kathpal**, At-large member of the Alexandria community
- **Raquel Nicora**, Diversity, racial and social equity, and inclusivity issues of diverse Alexandria populations
- **Josh Sawislak**, Alexandria's business community or institutional organization interests
- **Marta Schantz**, Environmental Policy Commission Member
- **Rose Stephens-Booker**, Member reflecting climate change solutions to support the City's economic development goals
- **Stephen Walz**, Member reflecting environmental, clean energy, or climate change action advocacy organization or interest
- **Sangina Wright**, At-large member of the Alexandria community



City Staff

- Bill Eger, Energy Manager
- Jessica Lassetter, Senior Environmental Specialist



General Climate Updates

- ECCAP Community Workshop #2 – Climate Vulnerability/Adaptation (3/1/2022)
- ECCTF Extension
- FY23 Adopted Budget
- Office of Climate Action
- City Council Priorities
- Federal Issues



ECCAP Workstreams

1. Energy and Climate Change Task Force
2. Climate Mitigation Planning
3. Heat Vulnerability Assessment
4. Climate Adaptation and Resiliency Planning
5. Climate Equity Assessments
6. Community Engagement
7. ECCAP Report and Communications



ECCAP Schedule

	Month	Jul	Jul	Aug	Aug	Aug	Aug	Aug	Sep	Sep	Sep	Sep	Oct	Oct	Oct	Oct	Oct	Nov	Nov	Nov
	Week of	7/18/2022	7/25/2022	8/1/2022	8/8/2022	8/15/2022	8/22/2022	8/29/2022	9/5/2022	9/12/2022	9/19/2022	9/26/2022	10/3/2022	10/10/2022	10/17/2022	10/24/2022	10/31/2022	11/7/2022	11/14/2022	11/21/2022
Focus																				
Energy and Climate Action Plan																				
MWCOG GHG Inventory / Regional Climate Plan Coordination	Regional																			
Plan Development	Internal																			
Staff Reviews	Internal																			
Docket Process	Internal																			
Plan Adoption	City Council																			
Implementation	Internal																			
Community Engagement																				
Community Engagement #1 (Mitigation)	Community Engagement																			
Community Engagement #2 (Vulnerability / Adaptation)	Community Engagement																			
Community Engagement #3 Workshop (ECCAP Overview)	Community Engagement																			
Plan Public Comment	Community Engagement																			
Commission Presentations/Communications	Community Engagement																			
Communications	Community Engagement																			
Energy and Climate Change Task Force																				
Co-Chair Coordination Meeting	Internal																			
Co-Chair Review Meeting	Internal																			
Task Force - Meeting #1 (Introduction / Education)	Community Engagement																			
Task Force - Meeting #2 (Mitigation1)	Community Engagement																			
Task Force - Meeting #3 (Mitigation2)	Community Engagement																			
Task Force - Meeting #4 (Vulnerability)	Community Engagement																			
Task Force - Meeting #5 (Adaptation)	Community Engagement																			
Task Force - Meeting #6 (Draft Actions/Strategies)	Community Engagement																			
Task Force - Meeting #7 (Review / Adoption / Implementation)	Community Engagement																			

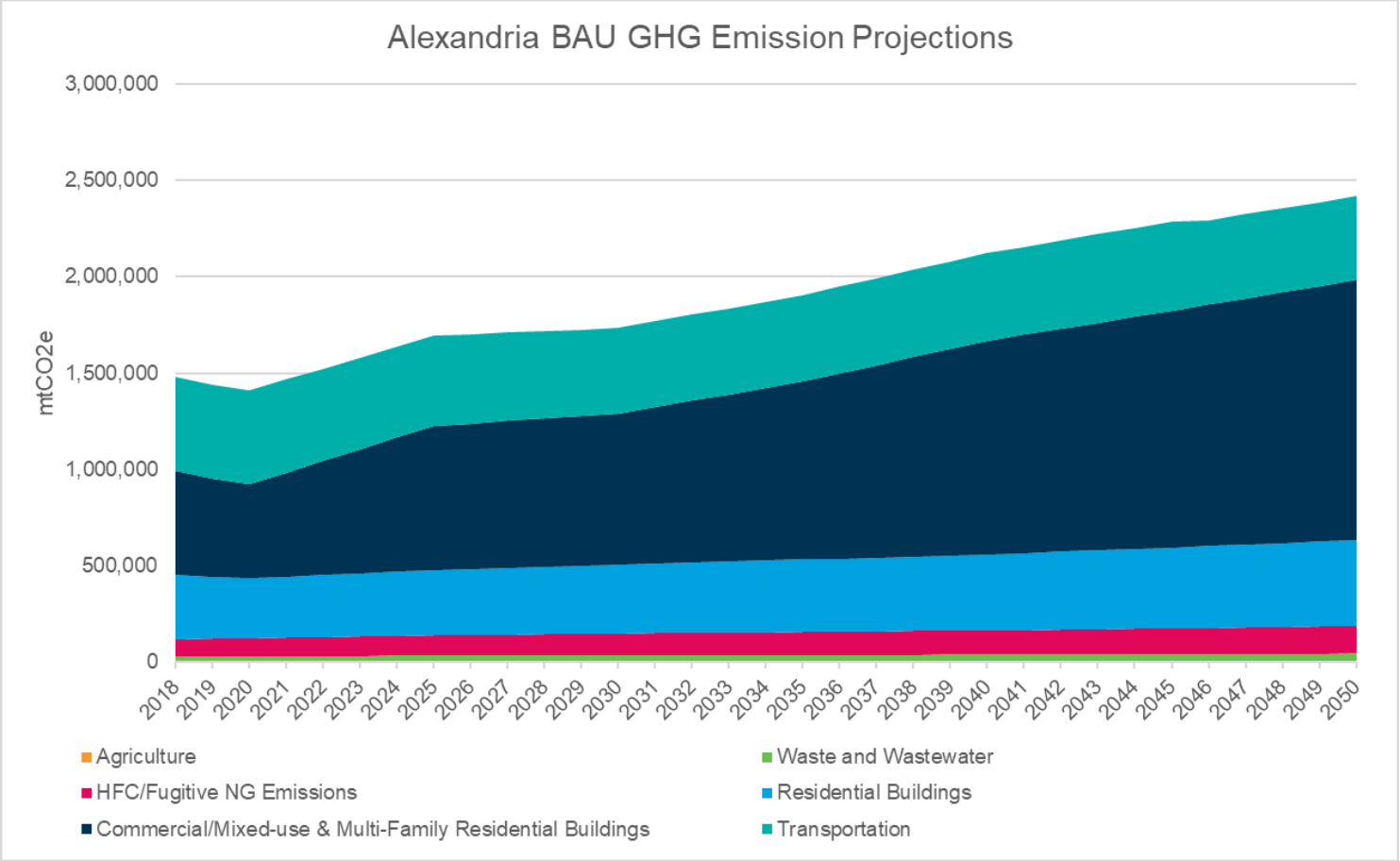


Action/Strategy Discussion: Climate Mitigation

- Business-as-usual Projections
- Modeling Reductions
- Actions/Strategies



Business-as-Usual Emission Projections

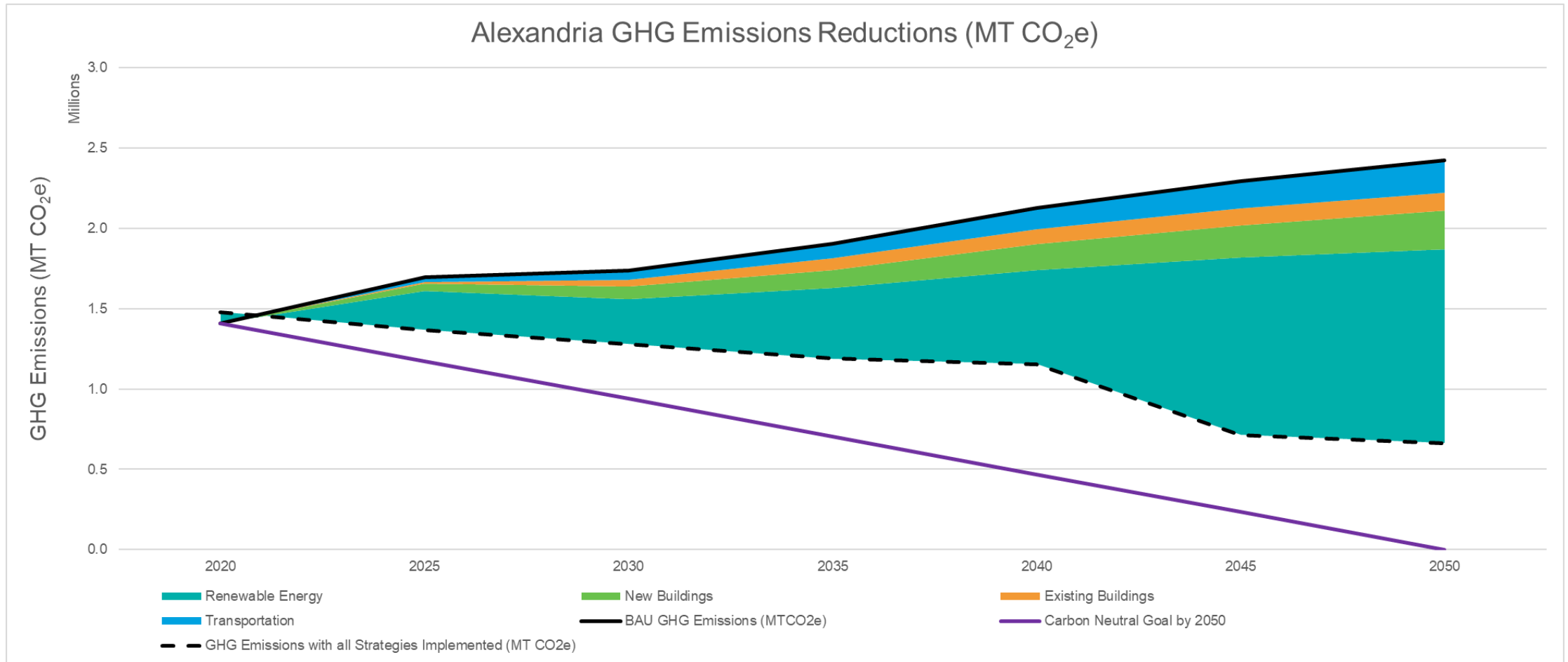


Business-as-Usual Emission Projections

- In 2018, buildings account for approximately 59% of emissions and transportation accounts for approximately 33%.
- Building sector emission increase with projected population and job growth over time.
- Transportation emissions remain relatively consistent



Greenhouse Gas Emission Reductions



GHG Reduction-Actions/Strategies-Summary

- **Buildings:**
 - B-1. Support decarbonizing existing buildings in the City of Alexandria
 - B-2: Require the development of new construction for green buildings policy
 - B-3: Consider voluntary benchmarking and disclosure, and building energy performance standard programs
- **Transportation:**
 - T-1: Reduce vehicle miles traveled
 - T-2: Accelerate the deployment of electric and alternative fuel vehicles
 - T-3: Reduce City fleet fuel consumption and increase alternative fuel use in line with the City Alternative Fuel Policy
- **Clean and Renewable Energy:**
 - RE-1: Support implementation/acceleration of the VCEA by increasing solar deployment within the City
 - RE-2: Transition all applicable Alexandria government facilities to 100 percent renewable energy for all energy-use needs



GHG Reduction – Actions/Strategies

- Buildings:
 - B-1. Support decarbonizing existing buildings in the City of Alexandria
 - B-1.1: Analyze and evaluate implementation of green bank to support energy efficiency/electrification financing options
 - B-1.2: Enhance/accelerate implementation CPACE financing program
 - B-1.3: Implement building energy efficiency and electrification technical resource program
 - B-1.3: Develop and implement building electrification/thermalize partnership/programs
 - B-1.4: Develop and implement building energy efficiency program, including options for supporting through technical services or other resources.
 - Including specific programs for low-to-moderate income
 - Consideration to establish incentive programs that encourage green building renovations for existing buildings, such as encouraging property owners and leasing agents to participate in a Green Lease Leader program (EAP 3.1.8).
 - B-1.5: Expand use of state Weatherization Assistance Program (WAP) funding and programs
 - B-1.6: Promote use of Dominion Energy demand side management and energy efficiency programs



GHG Reduction – Actions/Strategies

- Buildings:
 - B-2: Require the development of new construction for green buildings policy
 - B-2.1: Green Building Policy considerations per the EAP
 - Regulatory incentives linked to specific green building performance measures for new private development: (EAP 3.1.9)
 - Feasibility study and methods to achieve net zero energy in existing building renovations, including the ability to achieve LEED Zero for LEED certified buildings or other applicable net-zero certifications. (EAP 3.1.10)
 - Schedule future administrative updates to the Green Building Policy to coincide with changes in third-party certification, the revisions to the state Building Code and the implementation of programs established through the EAP actions, with major updates for City Council every 5-7 years as needed. To maintain alignment with the intent of this Policy, Performance Points may be adjusted over time to correspond with updates to the rating systems, revisions to the building code, and/or updates to state, federal, or other City policies. (EAP 3.1.15)



GHG Reduction – Actions/Strategies

- Buildings:
 - B-3: Consider voluntary benchmarking and disclosure, and building energy performance standard programs
 - Mandatory for City government buildings
 - Consider as model for advocating at state for mandatory programs



GHG Reduction – Actions/Strategies

- **Transportation:**
 - **T-1: Reduce vehicle miles traveled**
 - T-1.1: Implement Alexandria Transit Vision and Mobility Plan recommendations supporting increasing public transportation use and reduction of vehicle miles traveled
 - T-1.2: Land use changes focused on redistribution of future growth to activity centers and areas better served by transit across jurisdictions
 - T-1.3: Promote opportunities for increased pedestrian, bicycle, and e-mobility options
 - T-1.4: Advocate for reduced transit fares and parking pricing in workplaces
 - T-1.5: Support telework policies
 - T-1.6: Promote a job/housing balance by focusing on-site affordable housing units near transit, jobs, and amenities



GHG Reduction – Actions/Strategies

- **Transportation:**
 - **T-2: Accelerate the deployment of electric and alternative fuel vehicles**
 - *T-2.1:* Implement EVRS recommendations to support EV charging infrastructure development, including addressing gaps in meeting charging demand (e.g., opportunity charging, residents without driveways/garages, multifamily dwelling residents); enhancing communication and awareness; strengthen zoning, building codes, and permitting; advocating in state government or with Dominion Energy; building successful business models for chargers; and working to secure funding (e.g., federal).
 - *T-2.2:* Provide education and outreach to the community about EVs and available state and national incentives
 - *T-2.3:* Advocate with Dominion and regulators for fee-based EV charging
 - *T-2.4:* Transition public fleets to electric (DASH)
 - *T-2.5:* Connect private fleets with partners and opportunities to educate and incentivize electrification



GHG Reduction – Actions/Strategies

- **Transportation:**
- **T-3: Reduce City fleet fuel consumption and increase alternative fuel use in line with the City Alternative Fuel Policy**
 - *T-3.1:* Reduce vehicle size of City fleet
 - *T-3.2:* Increase average fuel economy of City fleet
 - *T-3.3:* Reduce VMT through various best practices (i.e., teleconferencing, limited idling, alternative modes of transportation, optimized routes, centralized meeting locations)
 - *T-3.4:* Purchase vehicles with highest emissions certification standards
 - *T-3.5:* Increase use of alternative fuel vehicles and equipment (i.e., electric and hybrid vehicles)



GHG Reduction – Actions/Strategies

- Clean and Renewable Energy
- **RE-1: Support implementation/acceleration of the VCEA by increasing solar deployment within the City**
 - RE-1.1: Increase on-site renewable deployment within the City through Solarize Alexandria, Solar Equipment Tax Exemption, Green Building Policy (new construction), and low- and moderate-income programs
 - RE-1.2: Support deployment of battery storage through promoting community ownership, incentives, and pairing with onsite renewables
 - RE-1.3: Pursue Community Choice Aggregation opportunities to expand community access to renewable energy resources
 - RE-1.4: Encourage large-scale offsite renewable energy through working with businesses and other organizations within the City to procure through PPAs



GHG Reduction – Actions/Strategies

- Clean and Renewable Energy
- **RE-2: Transition all applicable Alexandria government facilities to 100 percent renewable energy for all energy-use needs**
 - RE-2.1: Direct purchasing of offsite renewable electrical energy accounts for at least 50 percent of electrical energy use at all City-operated facilities. The remainder will be made up by REC purchases and onsite renewable electrical energy generation to achieve a 100 percent renewable energy supply. (EAP 2.1.3)
 - RE-2.2: Develop an electrification and renewable energy supply transition plan for the City’s non-electricity energy use including the conversion of natural gas and other fossil fuel use in facilities and operations that can be supported by renewable energy supply. (EAP 2.1.4)
 - RE-2.3: Ensure that direct purchasing of offsite renewable electrical energy accounts for at least 80 percent of electrical energy use at all City-operated facilities. Ensure it is from a regional source that contributes to the growth of renewable energy capacity in the region. Onsite renewable electricity generation and REC purchases will make up the remainder, to achieve a 100 percent renewable electrical energy supply. (EAP 2.1.5)
 - RE-2.4: Ensure that onsite renewable electrical generation and direct purchasing of offsite renewable electrical energy, are from a regional source and add to the supply of renewable energy available, increases to 100 percent of electrical energy use at all City-operated facilities. (EAP 2.1.7)

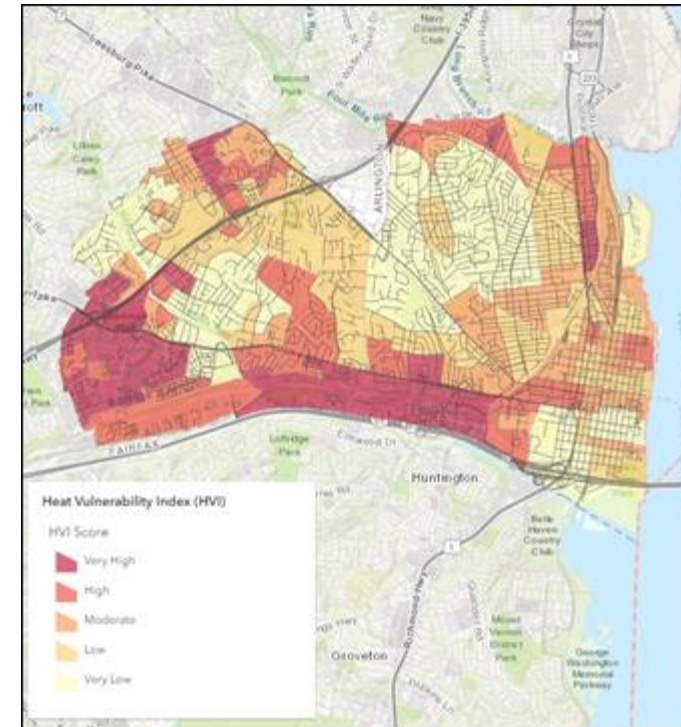
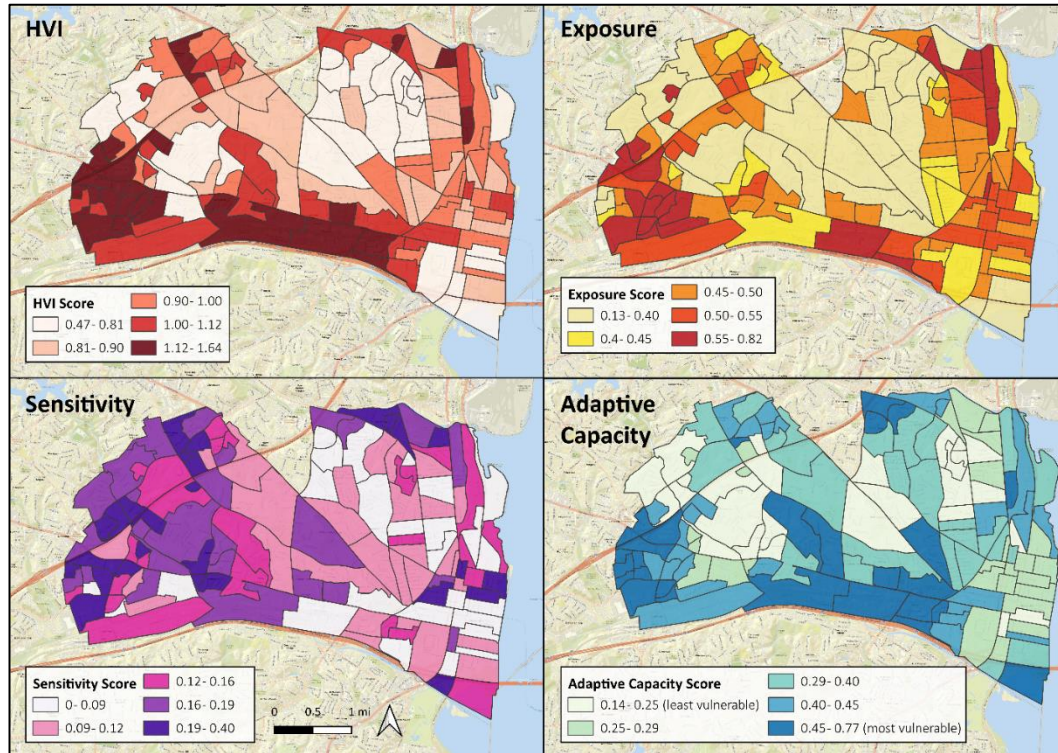


Action/Strategy Discussion: Climate Adaptation/Resiliency

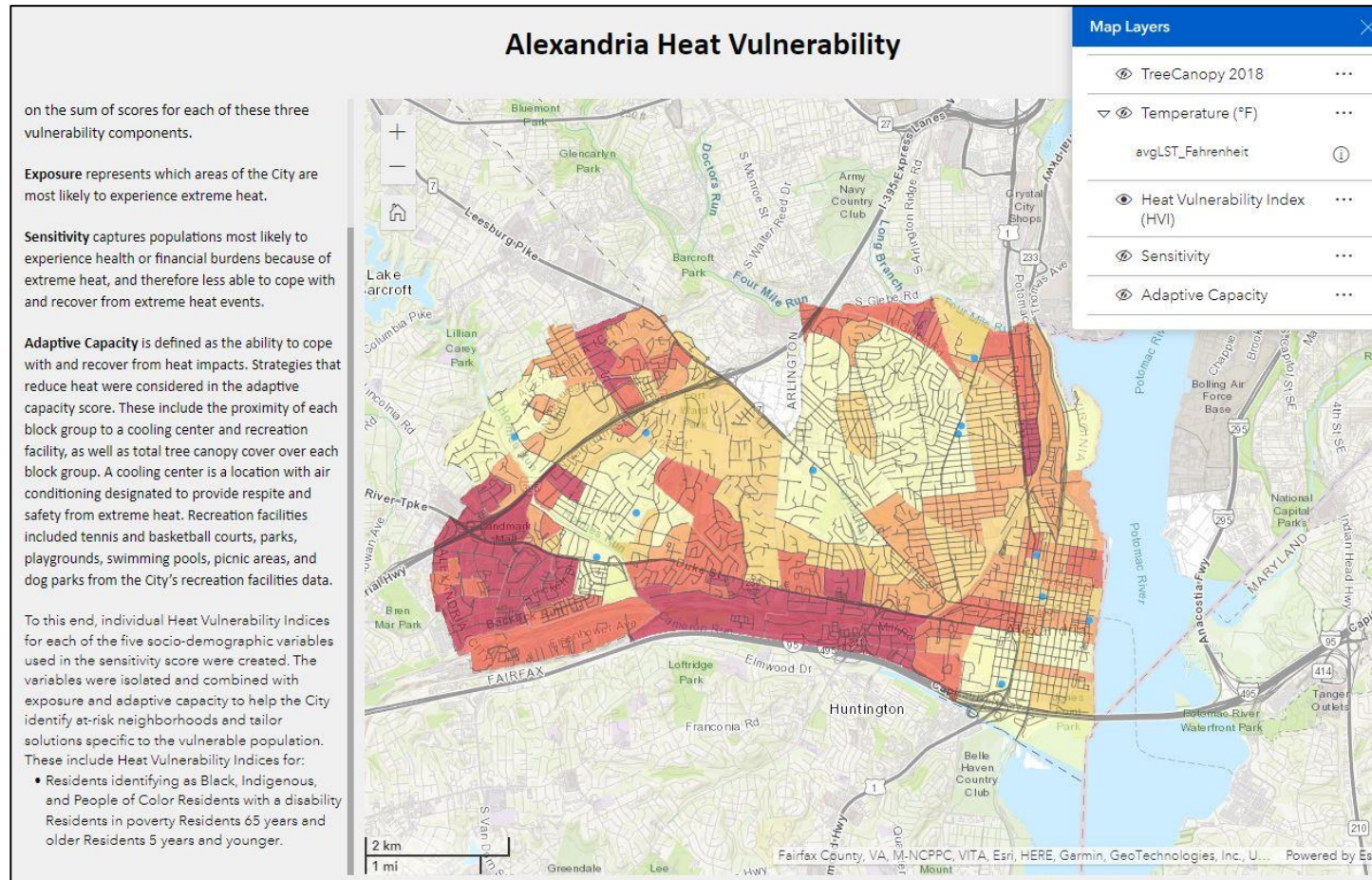
- Heat Vulnerability & Flooding
- Actions/Strategies



Heat Vulnerability Assessment



Heat Vulnerability Assessment - StoryMap



Action/Strategy Discussion: Climate Adaptation/Resiliency

- Continue Existing Adaption and Resilience Activities
- Enhance Equity in Climate Adaptation and Resilience Planning and Actions
 - Incorporate and center equity into ongoing climate adaptation and resilience planning
 - Proactively address systemic inequalities in climate adaptation and resilience planning
- Integrate Climate Change in Municipal Decisions and Activities
 - City plans, budget and capital improvement program, workplans
 - Internal working group for climate impacts
 - Identify innovative financing mechanisms
 - Integrate into capital planning
 - Lead by example with infrastructure resilience
- Implement Strategies to Adapt to Extreme Heat
 - Reduce Impact of Extreme Heat and Heat Island Effects
 - Enhance Heat Management Programs
 - Heat Response Coordination
- Implement Flooding Hazard Adaptation Strategies
 - Flood Reduction
 - Flood Management
 - Flood Coordination



Community Workshop #3 -

- Saturday August 27, 2022 9 AM – 12 PM
- Focus:
 - ECCAP Overview
 - Input on ECCAP Strategies/Actions
 - Community priorities
 - How they benefit community members
 - What are challenges or opportunities
- Key questions:
 - Keynote or presenters? What key information do you recommend they provide?
 - What questions are important for the facilitated discussions?
 - What additional feedback or perspectives are we seeking to obtain from the community?
 - How do we use both workshop and ECCAP public comment period effectively in combination?



Task Force Action Items/Next Steps



Public Comments

- Please raise your hand (Raise Hand on Zoom) to indicate you wish to make a Public Comment
- City staff will call your name (if on Zoom, City staff will unmute you)
- Please limit your comments to 2 minutes
- Please consider providing your Public comments in the Zoom chat
- A Public feedback form posted to the City website:
 - Feedback form: <https://www.surveymonkey.com/r/35898YS>



Thank You

- Energy and Climate Change Action Plan
 - <https://www.alexandriava.gov/energy/energy-and-climate-change-action-plan>
- Sign Up for City and Energy and Climate Change Action Plan updates
 - <https://www.alexandriava.gov/eNews>

