

# Energy and Climate Change Task Force

Meeting #3

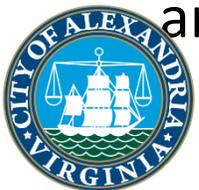
October 5, 2021

7:00 PM

# Electronic Meeting Notice

Due to the COVID-19 Pandemic emergency, the October 5, 2021 meeting of the Energy and Climate Change Task Force is being held electronically pursuant to Virginia Code Section 2.2-3708.2(A)(3), the Continuity of Government ordinance adopted by the City Council on June 20, 2020 or Sections 4-0.00(g) in HB29 and HB30 to undertake essential business. All of the members of the Task Force and City staff are participating from remote locations through a Zoom web meeting.

The meeting can be accessed by the public through a Zoom web meeting link. Participants can register at the City website to obtain the Zoom link. A video recording of this meeting will be posted to the City's website. Public comment will be received at the end of the meeting and will also be accepted afterwards through a public feedback form posted to the City's website. For accommodations for anyone with disabilities, please contact City staff.



# Agenda

- Welcome and Introductions
- Adopt Virtual Meeting Resolution & Electronic Meeting Participation Policy
- Updates
- Presentations and Discussion
  - Science Based Targets
  - Identified High Impact Actions and Initial Greenhouse Gas Mitigation Modeling
  - Community engagement updates
- Meeting Summary and 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
- Ellen Eggerton, Sustainability Coordinator
- Jessica Lassetter, Senior Environmental Specialist



# Updates

- Meeting #2 follow-up items
- Task Force Community Engagement Liaisons
- Regional updates & upcoming meetings
- Consultant & ICLEI updates
- Schedule



# Science-Based Target\* Emissions

- Targets considered ‘science-based’ if inline with what the latest climate science deems necessary to meet the goals of the Paris Agreement – i.e. pursuing efforts to limit global warming to 1.5°C.
- For communities, both absolute and per-capita emissions targets
- Adds an additional target amount for responsibility

\*<https://sciencebasedtargets.org/>



# EAP and Science-Based Target

**Environmental Action Plan 2040 per capita**

**Baseline:** 2005: 13.3 metric tons of CO<sub>2</sub>e

**Current:** 2018 9.4 metric tons of CO<sub>2</sub>e

**30% reduction since 2005**

**Targets:**

- **2022: 10 target exceeded**
- 2030: 6 is 55% reduction
- 2040: 4 is 70% reduction
- 2050: 1-3 is 92% reduction

**Science-Based** target per capita

**2030: 63.3%** overall

EAP2040 target – overall

**2030: 50%**

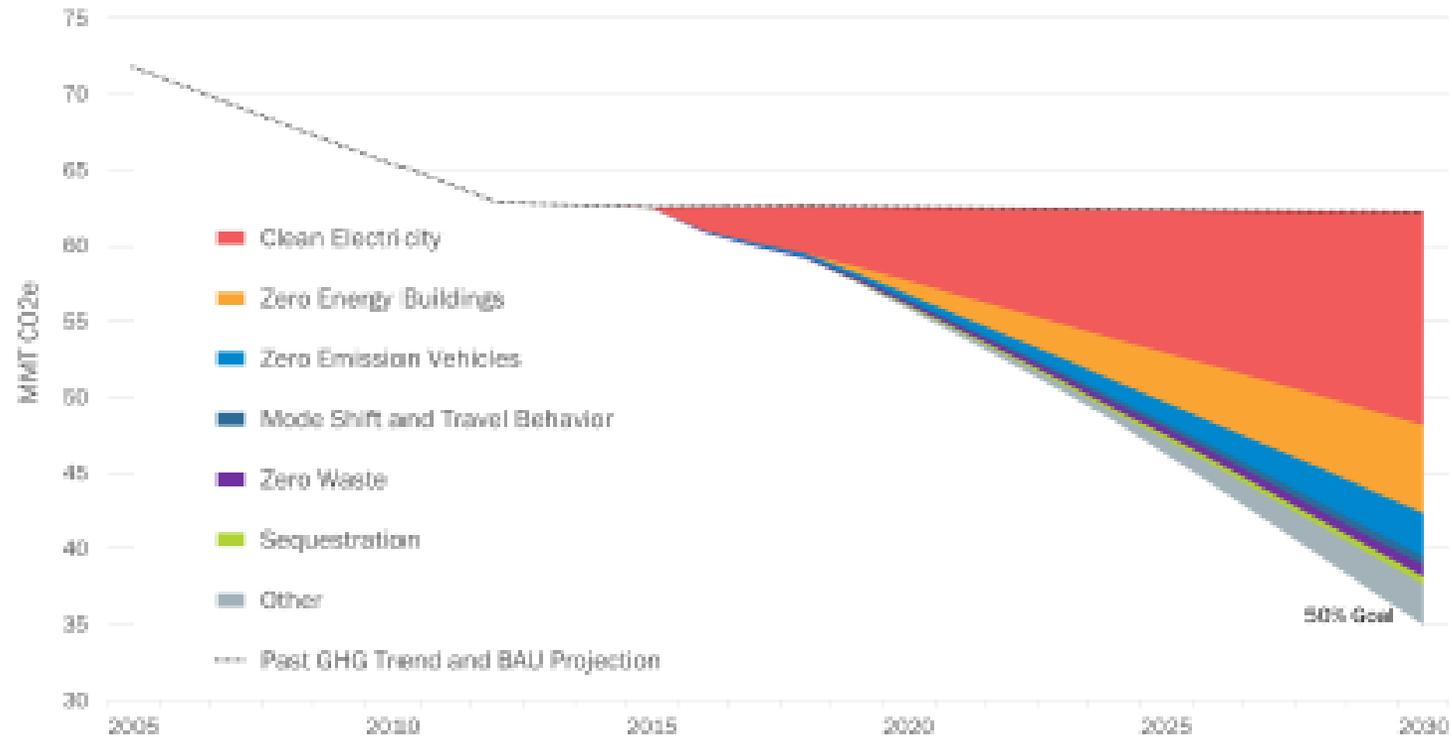
**Science-based** target – overall

**2030: 58.6%**

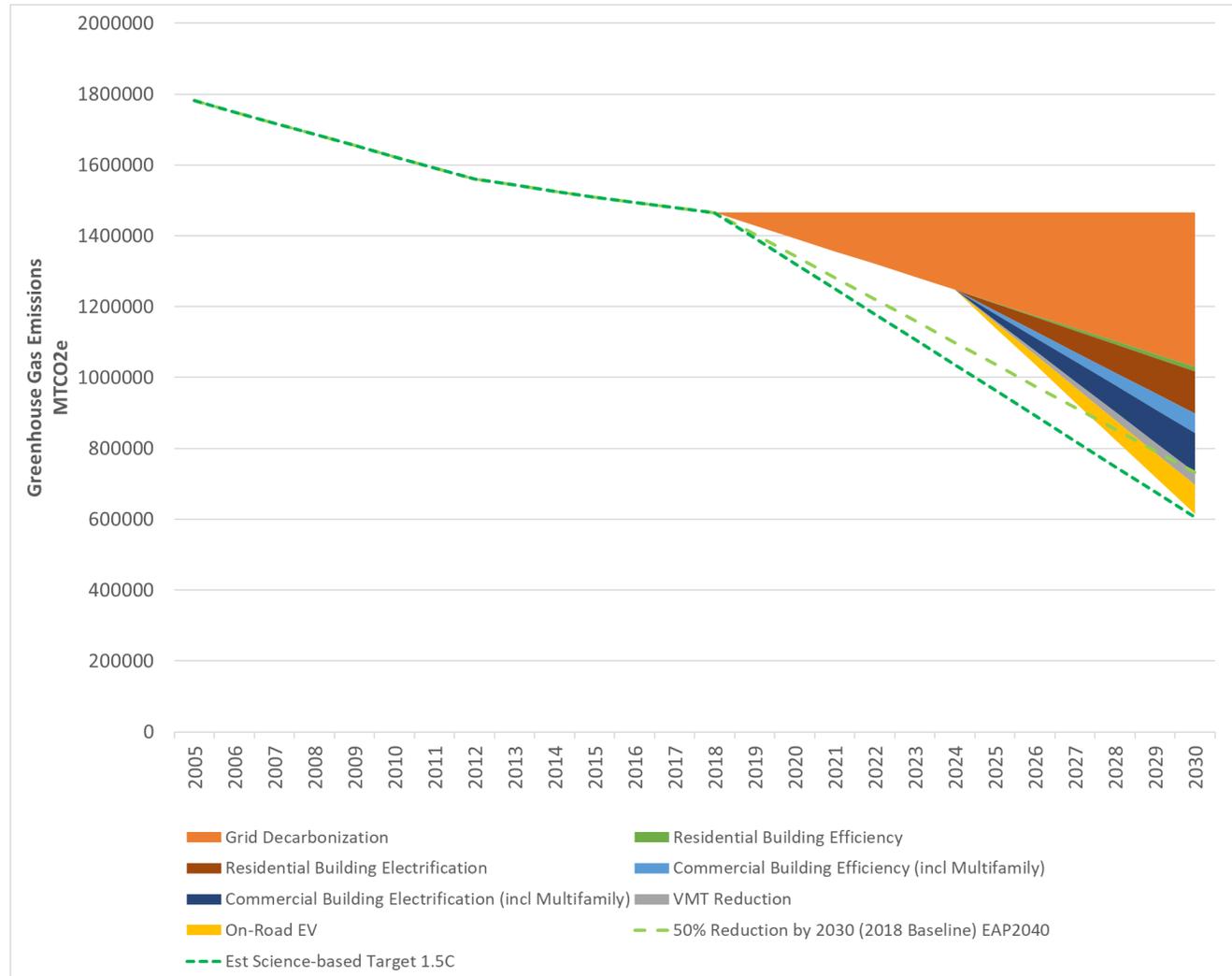


# MWCOG Regional Energy and Climate Plan

Figure ES-5: Metropolitan Washington "What Would It Take" Scenario Results



# Initial High-Impact Actions Modeling Results



# Initial High-Impact Actions Modeling

- Evaluate and refine Business-as-Usual (BAU) and GHG emissions growth
- Refine high-impact actions models
  - Refine assumptions
  - Calibrate for existing actions and actual GHG emissions
  - Define policies or programs for addt regional actions
  - Evaluate addt regional actions' GHG reductions
  - Refine implementation details and update model results
- Project estimated GHG emissions to 2040



# Grid Decarbonization Actions

- Expand solar photovoltaics on existing buildings
  - Solarize Alexandria for residential and commercial
  - Accelerate City/ACPS/ARHA solar initiatives
- Expand solar photovoltaics for new construction
- Expand microgrids for critical infrastructure
- Support Aggressive Renewable Portfolio Standards
- Advocate for Community Choice Aggregation



# Transportation Actions

- Vehicle Miles Traveled Reductions:
  - Alexandria Mobility Plan (AMP) and Vision Zero Implementation
  - GoAlex Commuter Programs
  - Environmental Action Plan 2040 –Transportation Actions
- Vehicle Electrification:
  - DASH/ACPS/fleet electric vehicles
  - Electric Vehicle Charging Infrastructure Readiness Strategy (EVRS) Implementation
- Transportation Planning Board (TPB) Climate Mitigation Study actions, as applicable



# Residential/Commercial Building Actions

- Green Building Policy (development only, public buildings net-zero energy)
- Commercial Property Assessed Clean Energy (CPACE) financing program
- Improved energy efficiency in Virginia building code
- Environmental Action Plan 2040 implementation
  - Building benchmarking/building performance standards (\*not currently enabled in Virginia)
  - Increasing existing building energy efficiency
  - Support electrifying new and existing buildings
- Reduce use plus capture of high global warming potential refrigerants
- Potential impacts of green bank



# Other Actions For Consideration

## Sequestration

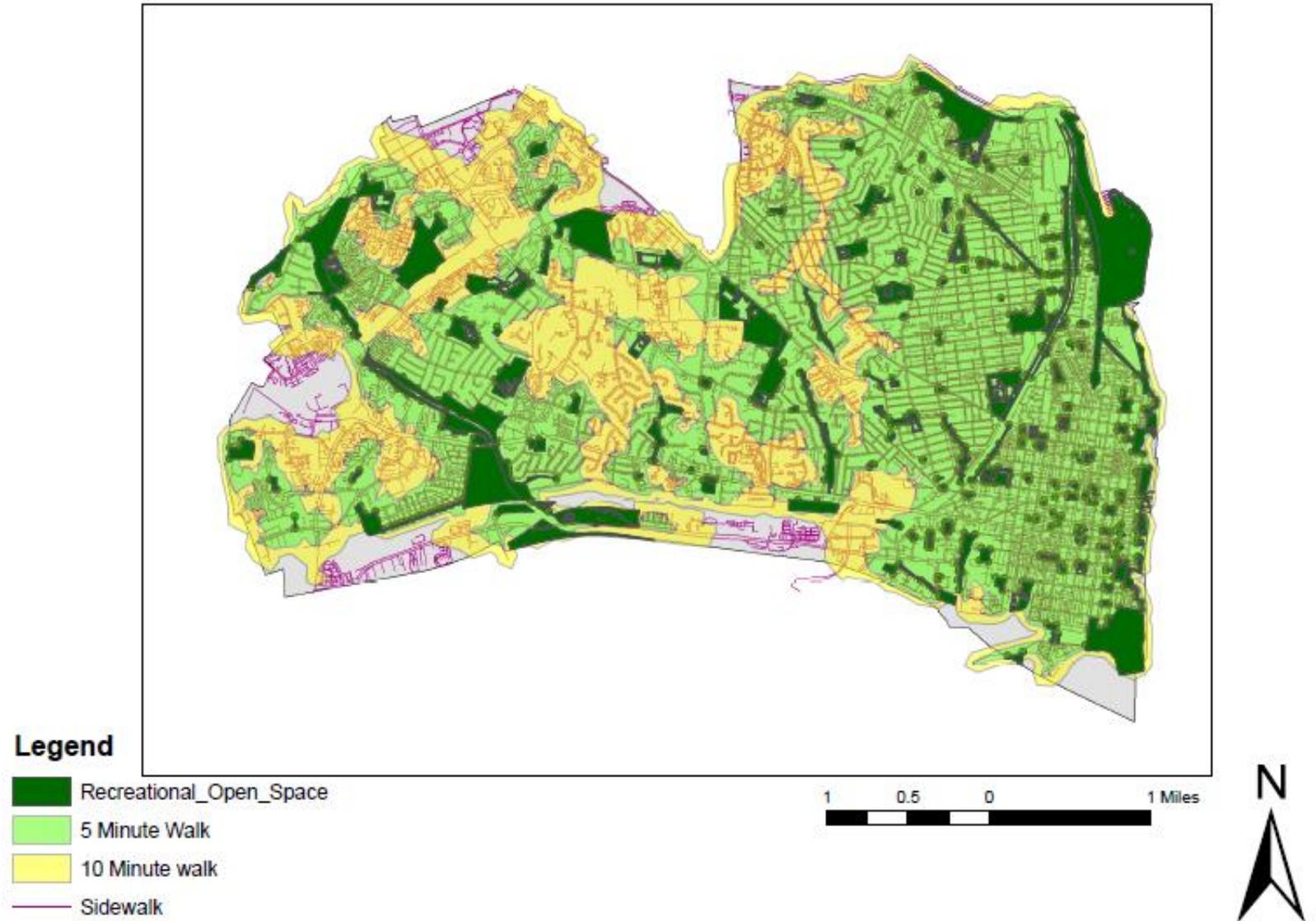
- Tree Canopy\* (target 40% / current 36%)
  - Plant new trees on publicly-owned and private land
  - Conserve existing tree canopy
- Open space and vegetative roofs
- Renewable natural gas in limited applications



\*Note: Updated City tree canopy analysis forthcoming

Draft open space definition: **Outdoor space where public access is assured within ordinary circumstances with the primary purpose being formal or informal recreation; or the conservation and protection of natural, cultural, or historic resources; and which the enhancement of the health and well-being of Alexandria's residents and visitors.** -Open Space Steering Committee

## Recreational Open Space Walkshed



# Climate Mitigation Actions - Discussion

- What high-impact actions are we missing?
- What additional specific programs or policies does the Task Force recommend City staff consider for any of the high-priority action categories?



# Community Engagement Updates

- Task Force Liaisons Meeting Updates
- October 26 Community Engagement Virtual Event
  - Climate change framing, buildings & transportation, community experience
  - Facilitated roundtable discussions
  - Need 10 volunteers for roundtable facilitators



# Summary and Next Steps



# Public Comments

- Raise Hand in Zoom to indicate you wish to make a Public Comment
- City staff will call your name and 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:



# Additional Information



# Events

- 10/19/21 7 – 8 PM – Faith Alliance for Climate Solutions - [Why Local Climate Action and Justice Matter \(Virtual\)](#)
- 10/20/21 7 – 9 PM – [Transportation & Environmental Policy Commission Joint Meeting \(Virtual\)](#)
- 11/4/21 7 – 8:30 PM – EcoAction Arlington – [Getting to Carbon Neutrality: Reimagining our Homes \(Virtual\)](#)

# Climate Mitigation Action Priorities

- Meeting #1 Task Force Jamboard Results

Priority Climate Mitigation Action	Stars
Zero Energy Buildings (Deep energy retrofits, new and existing building electrification, zero-energy new development)	6
Advocate to accelerate equitable clean electricity grid opportunities	5
Transportation mode shift & travel behavior	5
Carbon sequestration, tree canopy, & open space management	3
Electric vehicles & transportation systems	2
On-site Solar & Battery Energy Storage	1
Zero waste	1



# Climate Mitigation Action Priorities

- Meeting #1 Task Force Jamboard Results
  - Green Energy in pre-existing buildings
  - clean energy retrofits for LMI (prioritized MFR) communities and communities of color (include solar).
  - Deployment of sustainable transportation across the vehicle fleet
  - Set goals and Benchmark HOAs, residential energy consumption and GHGs
  - Increased access to green spaces across the city
  - Account for consumption-based emissions
  - Financial dis/incentive and accountability
  - Decarbonization of existing buildings - commercial and residential - including an energy benchmarking ordinance
  - Look at contributions that Alexandria must make to emissions reductions targets beyond its City borders (regional, state, national)
  - Help citizens understand what they can do in their lives to make a difference.
  - Advocate for 80% by 2030 clean energy standard
  - Management of more green spaces
  - Financial and technical support, including pushing for building energy performance standards, for deep building retrofits across all market segments

