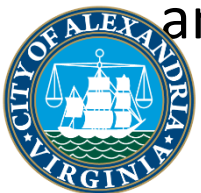# Energy and Climate Change Task Force

Meeting #2

July 27, 2021

6:00 PM

# Electronic Meeting Notice

Due to the COVID-19 Pandemic emergency, the July 27, 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
- In-person Meetings
- Presentations and Discussion
  - Climate mitigation priorities
  - Equity lens
  - Community Engagement
  - Consultant Scope of Work
- 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

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# City Staff

- Bill Eger, Energy Manager

- Ellen Eggerton, Sustainability Coordinator

- Jessica Lassetter, Senior Environmental Specialist

# Task Force Meetings – In-Person

- Return to in-person meetings after Sept 1, 2021

- Electronic Participation Policy enforced

- Accommodations:
    - In-person Task Force and public attendance;
        - Awaiting guidance on physical distancing, hybrid hosting.
    - Electronic participation per policy (at minimum, voice access for Task Force member approved electronic participation)
    - Recorded meetings

# Task Force Meetings - Electronic Participation

- Notify Chair on or before day of meeting
- Quorum must be physically assembled at primary meeting location
- Chair has discretion to approve/disapprove based on policy

- Qualifying reasons:
  - Personal Matter – limited to 2 or 25% of meetings/year
    - Personal reason/location recorded
  - Medical – personal disability or medical condition, family medical condition requiring providing of care (Note: City Attorney ruling childcare does not qualify)
    - Note of medical condition/location recorded

# Task Force Meetings – Start Time

- Alternative meeting start times

# ICLEI Cohort Updates

- Workshops:
  - Vulnerability assessments using Temperate®
  - GHG Forecasting and reduction target setting
  - Climate action goals and objectives
  - High-impact GHG mitigation actions, evaluating costs and benefits (including co-benefits)
  - Implementation and monitoring strategies
  - Community engagement / equity / workshop development
  - Climate action plan publishing & communications

- Technical support:
  - GHG business-as-usual forecasting
  - High-impact GHG mitigation actions evaluation
  - Community workshop design / presentation
  - Temperate® support / vulnerability assessment data / vulnerability assessment evaluation
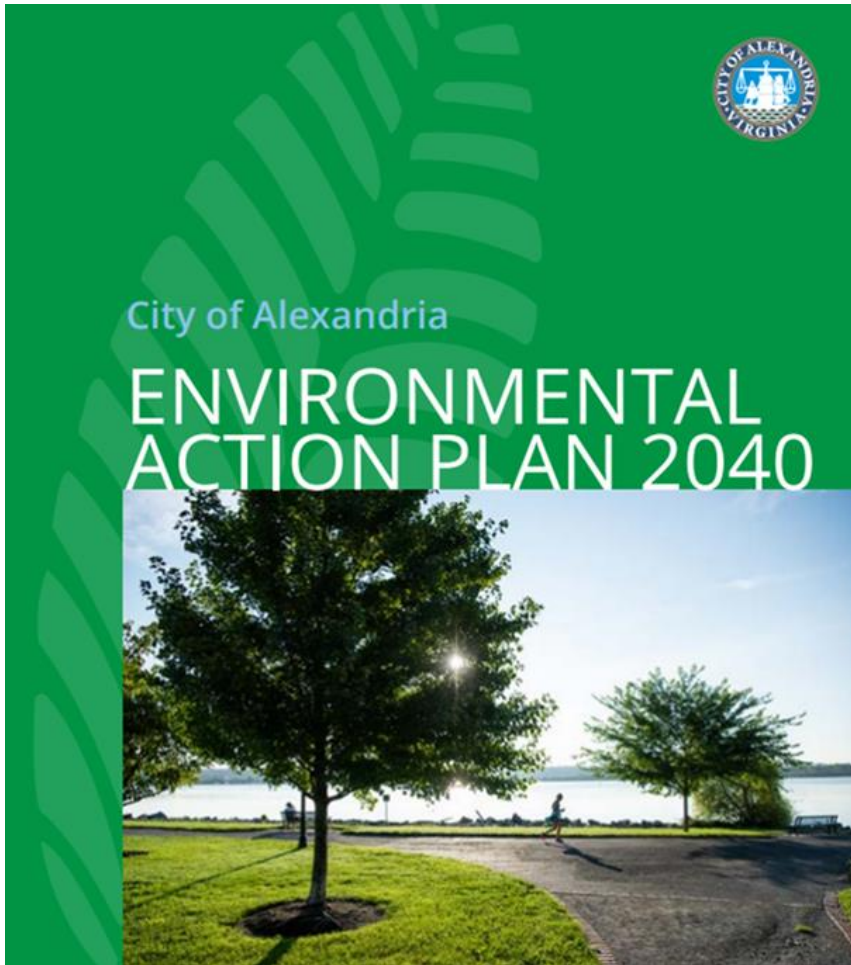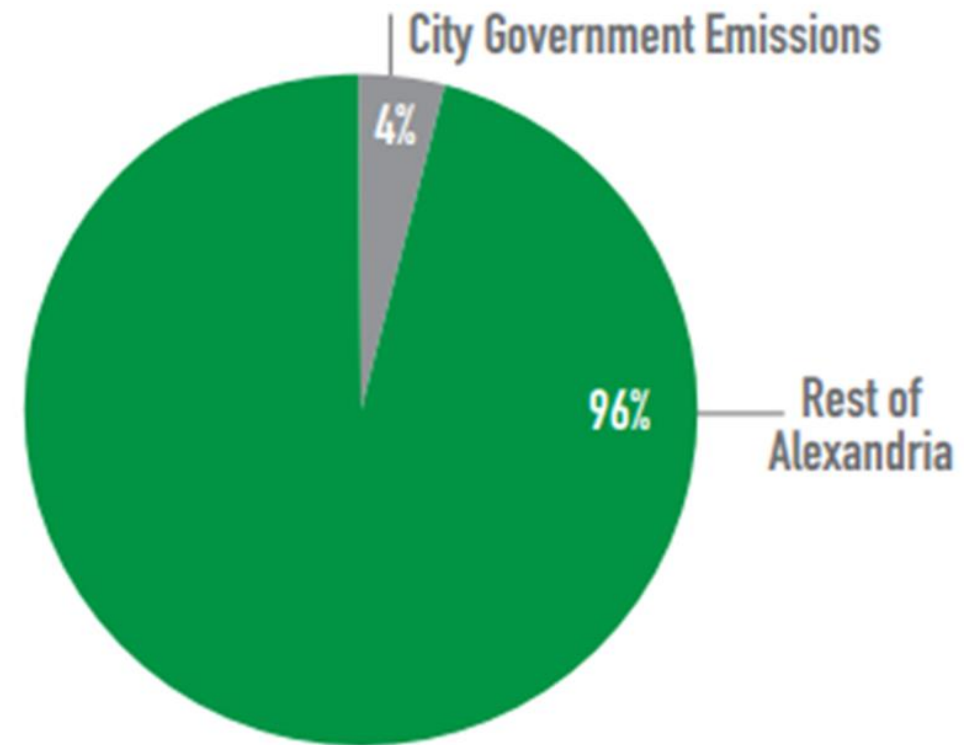
# Partnership Updates

- ICLEI150 / Race to Zero
  - Science-based target technical assistance and analysis
  - High-impact action support to achieve 2030 goals
    - Focused Workshops – Policy/actions for building decarbonization, grid decarbonization, vehicle electrification
  - Technical assistance to support implementation pathway of high-impact actions in 2021 - 2022

- Science Museum of Virginia
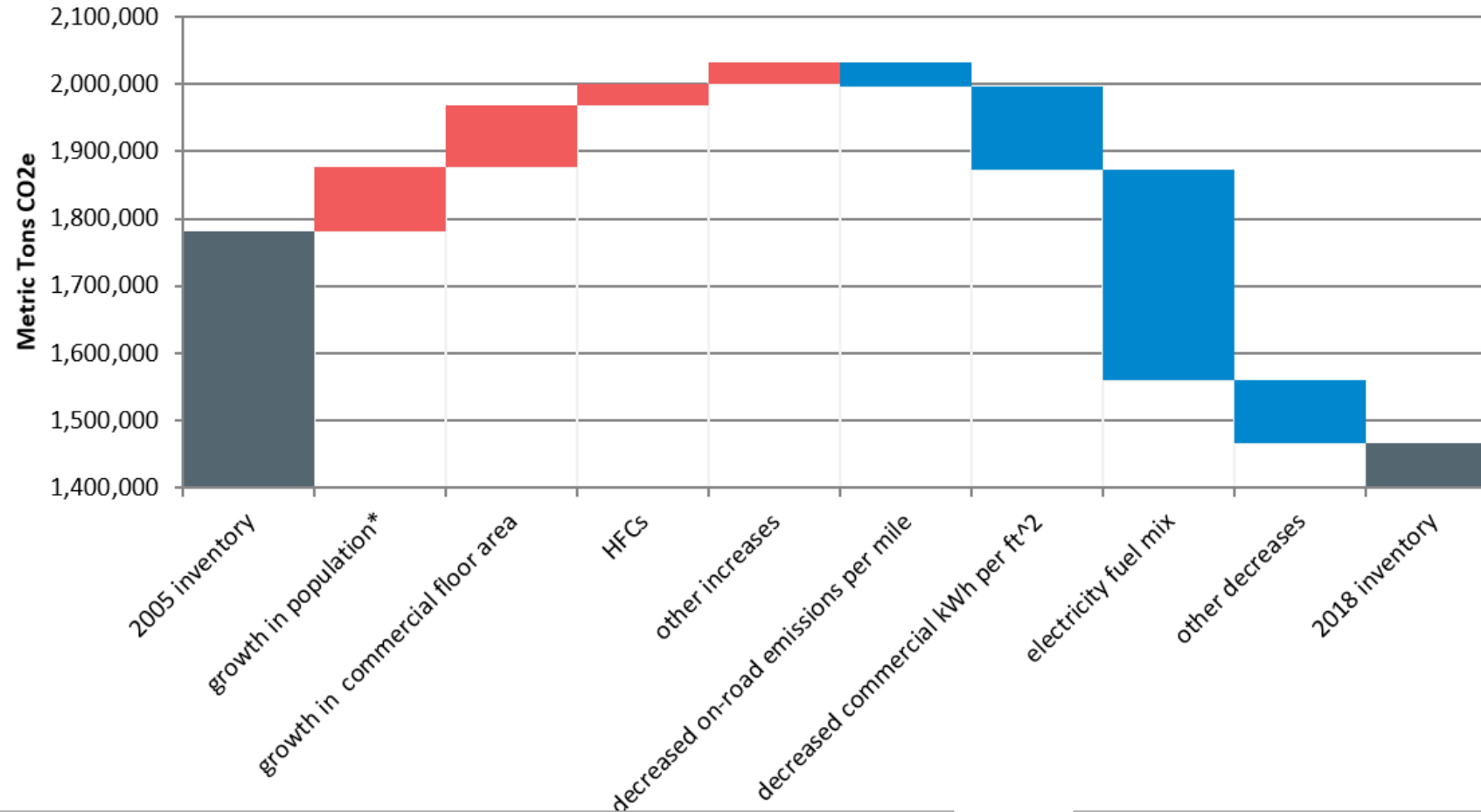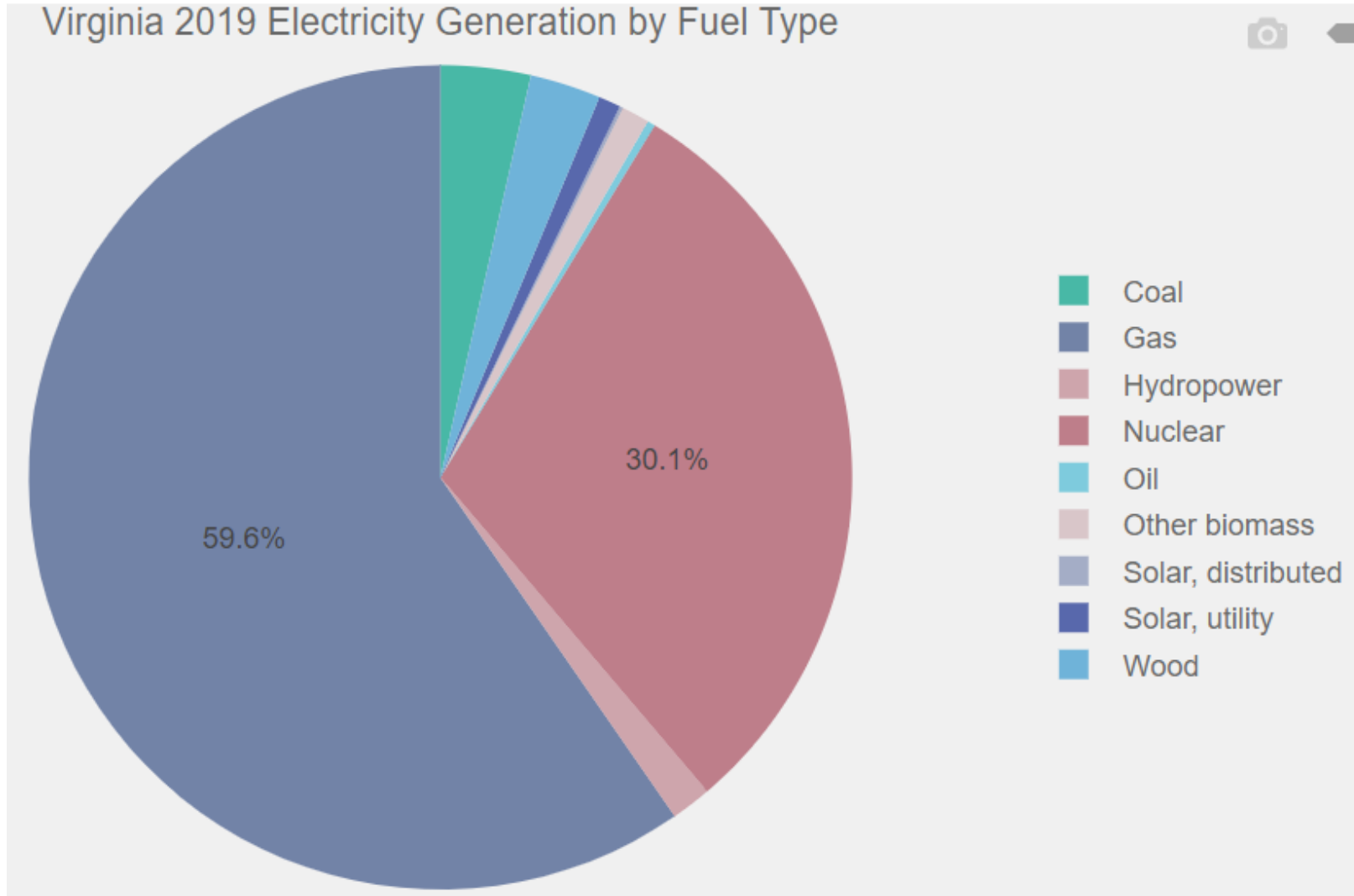  - Heat vulnerability and adaptation support

# Eco-City and EAP 2040

# Metrics: GHG Drivers of Change



Quick summary: Three largest increases and decreases

# Renewable Energy Generation



Virginia 2019 Electricity Generation by Fuel Type

- Coal
- Gas
- Hydropower
- Nuclear
- Oil
- Other biomass
- Solar, distributed
- Solar, utility
- Wood

59.6%

30.1%

# EAP Progress tracking

| 3. GREEN BUILDING | | | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 |
|---|---|---|---|---|---|---|---|---|
| 3.1.1 | Building 3.1.1 (update green buildng policy) | FY2019 | C | | | | | |
| 3.1.2 | Building 3.1.2 (Sustainability in DSP/DSUP) | FY2020 | | C | | | | |
| 3.1.3 | Building 3.1.3 (Development checklist) | FY2023 | | | C | | | |
| 3.1.4 | Building 3.1.4 (track compliance) | FY2020 | | S | | | | |
| 3.1.5 | Building 3.1.5 (update development conditions) | FY2023 | | S | | | | |
| 3.1.6 | Building 3.1.6 (net zero process) | FY2023 | | | S | | | |
| 3.1.7 | Building 3.1.7 (new staff position, GBP) | FY2021 | | | | S | | |
| 3.1.8 | Building 3.1.8 (incentive programs) | FY2023 | | | | | | |

# Policies, Programs, Guidance

1. Green Building Policy-new development

2. Outreach & Education

3. Transportation (AMP, TPB, streets, DASH, EVs)

4. Open Space and tree coverage

5. WasteSmart Plan for solid waste

6. LEDs and energy efficiency

   • Buildings and streetlights

# 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 |

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# 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

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# EAP2040 GHG Mitigation Priority Actions

| EAP Action Category | EAP Action Item | Notes |
|---|---|---|
| Climate Change | 1.1.2 | Recommend tool for CIP carbon impact |
| | 1.1.4 | Included with vulnerability assessment task |
| Energy | 2.1.2 | Recommend timing, tools, and priorities for transitioning to all electric |
| Green Building | 3.1.10 | Recommend timing for Net zero renovations in existing buildings |
| Water Resources | 6.1.3 | Recommend green infrastructure policies from other locales |
| | 6.2.7 | Analysis of freeboard height review for ZO update |
| Transportation | 7.1.3 | Recommend a carbon impact checklist for transportation related development |
| | 7.1.4 | Share recommendation from other locales for shared mobility impacts |
| | 7.1.5 | Recommend timing and lessons learned from other locales for EV transit |
| | 7.1.6 | Recommend City applicable low stress options for low carbon mobility from other locales |
| | 7.2.2 | Provide estimated carbon and transportation impacts from new metro and related development |
| | 7.2.3 | Recommend successful options for moving away from single use vehicles used in other locales |
| | 7.3.1 | Recommend regional integration options for low carbon mobility |
| Air Quality | 9.1.5 | Identify air qualtiy impact and metrics for transportation changes in the city |
| | 9.1.7 | Provide tools or methods for measuring air quality impacts from EAP action changes as a co-benefit to carbon reduction |

# MWCOG 2030 Climate and Energy Action Plan Priority Actions

| MWCOG RECP Category | MWCOG RECP Action Item |
|---|---|
| Planning | PL - 1 Advance Climate Planning and Track Progress |
| Equity | EQ - 2 Prioritize Sustainable Energy Access for All |
| | EQ - 1 Enable Equitable Planning Practices |
| Clean Electricity | CE - 1 Advocate for Aggressive Renewable Portfolio Standards |
| | CE - 2 Accelerate Development of On-Site Renewables |
| | CE - 3 Accelerate Deployment of Battery Storage |
| | CE - 4 Accelerate Development of Microgrids for Critical Infrastructure |
| | CE - 5 Accelerate Development of Large-Scale Off-Site Renewables |
| | CE - 6 Advocate for and Implement Community Choice Aggregation |
| Zero Energy Buildings | ZEB - 1 Expand Building Benchmarking Requirements |
| | ZEB - 2 Accelerate Deep Building Retrofits |
| | ZEB - 3 Enhance Green Building Codes and Policies to Facilitate Net Zero Energy Building Development |
| | ZEB - 4 Expand Proper Disposal and Leak Detection of Refrigerants |
| Zero Emission Vehicles | ZEV - 1 Expand Light-Duty Electric Vehicle Deployment |
| | ZEV - 2 Accelerate Electrification of Medium- and Heavy-Duty Vehicles |
| | ZEV - 3 Build Out Regional Electric Vehicle Charging Network |
| Mode Shift and Travel Behavior | MSTB - 1 Invest in Infrastructure that Increases Transit, Carpooling, and Non-Motorized Travel |
| | MSTB - 2 Bring Jobs and Housing Closer Together |
| | MSTB - 3 Enhance Options for Commuters |
| Zero Waste | ZW - 1 Implement Curbside Organics Recycling Programs |
| | ZW - 2 Reduce Solid Waste Generation |
| | ZW - 3 Build Markets for Circularity |
| Sequestration | SQ - 1 Strategically Plant New Trees on Publicly Owned Land |
| | SQ - 2 Enhance Regulatory Capacity to Manage Tree Canopy and Forest Protection |
| | SQ - 3 Enhance Incentives and Financing Mechanisms for Tree Planting and Preservation on Privately Owned Lands |

# Climate Mitigation Actions - Addt Information

- Buildings/Development:
  - Building decarbonization policies focused on beneficial electrification opportunities
  - Virginia Building Code Updates
  - Carbon neutral study for former Potomac River Generating Station site redevelopment
  - Statewide benchmarking efforts

- Transportation:
  - Transportation Planning Board Climate Mitigation Study
  - Alexandria Mobility Plan implementation
  - Electric Vehicle Charging Infrastructure Readiness Strategy (EVRS) implementation

- Tree Canopy
  - Updated City tree canopy analysis forthcoming

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# Climate Mitigation Implementation Planning

- Implementation details, including best practice examples and guidance

- Implementation timing, scheduling, and sequencing

- Opportunities to policy, legal, or other related barriers

- Estimated cost requirements, including implementation, programmatic needs, staffing

- Evaluation of costs vs benefits - social costs, costs of inaction & avoided cost of carbon

- Advancing City racial and social equity goals, including locational and distributional benefits to underserved communities

- Co-benefits – improving public health and community well-being, addressing needs of disadvantaged communities, synergies with climate adaptation and resiliency practices, and advancing economic development

- Evaluation and performance tracking metrics;

- Governance models, and education and outreach considerations

- Partnership or coordination opportunities

# Climate Mitigation Action - Discussion

- What high-impact actions are we missing?

- What additional implementation plan priorities does the Task Force consider important for City staff to take into consideration?

# Equity Integration

- **ALL Alexandria Resolution 2794 (January 23, 2021)**
  - Ensure that race and social equity is incorporated and centered in all planning
  - Implement and sustain structures and systems to advance race and social equity
  - Align and implement policy efforts designed to advance race and social equity goals
  - Ensure accountability mechanisms related to the progression and transparency of work to advance race and social equity

https://www.alexandriava.gov/manager/default.aspx?id=120013

# Equity Integration

- Climate Equity Assessment
  - Synthesize ECCAP to advance All Alexandria and climate equity
  - Heat vulnerability assessment
  - Energy Burden

- Climate change mitigation actions
  - Including equity considerations, including opportunities to advance City racial and social equity goals such as: recommendations to provide locational and distributional benefits to underserved communities, and support energy and climate justice outcomes;
  - Co-benefits, particularly those related to improving public health and community well-being, addressing the needs of disadvantaged and frontline communities…

- Integration with All Alexandria education, processes, etc.
- City coordinated language access resources

# Equity Integration – Climate Change Mitigation

- Climate change mitigation actions
  - Including equity considerations, including opportunities to advance City racial and social equity goals such as: recommendations to provide locational and distributional benefits to underserved communities, and support energy and climate justice outcomes;
  - Co-benefits, particularly those related to improving public health and community well-being, addressing the needs of disadvantaged and frontline communities...

# Equity Integration - Known Gaps

- Community engagement lacks resources
  - Language translation
  - Focused engagement on vulnerable, under-represented communities

- Timing with All Alexandria framework, including community equity index assessments

# Equity Integration - Energy Burden Presentation

- Steve Walz, Energy and Climate Change Task Force member

# Equity Integration - Discussion

- How else does the Task Force envision including equity into the **ECCAP's Climate Change Mitigation section**?

# Community Engagement

- City website/emails/social media
- Task Force meetings
- Community Workshops
    - #1 – Greenhouse Gas Emissions and Mitigation Actions
    - #2 – Vulnerabilities & Adaptation
    - #3 – Climate Action Plan Input
- Community Feedback Surveys (3)
- Eco-City Ambassadors
- Partner communications
- City commission engagement

# Schedule Updates

| Fiscal Year | FY2021 | | | FY2022 | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Calendar Year | CY2021 | | | | | | | | | CY2022 | | | | | |
| | A | M | J | J | A | S | O | N | D | Ja | F | M | A | M | J |
| ECCAP Development | | | | | | | | | | | | | | | Adopt |
| ICLEI ICAP Cohort | | | | | | | | | | Ongoing Technical Assistance | | | | | |
| Consulting Support | | | | | | | | | | | | | | | |
| Task Force Meetings | | ■ | | ■ | | ■ | | ■ | | | ■ | | | ■ | |
| Community Engagement | | | | | | | | | | | | | | | |
| Workshops | | | | | | | ■ | | | ■ | | | ■ | | |
| Surveys | | | | | | | ■ | ■ | | ■ | ■ | | ■ | ■ | |

# Community Engagement - Discussion

- Task Force Liaison Volunteers: Workshop Planning (x2) and Surveys (x2)

- What other community engagement does the Task Force seek? What additional resources does the Task Force bring?

- What does the Task Force wish to understand from the community and what types of questions would the Task Force like help answering from the community?

# Scope of Work

- Budget: $100K

- Principles:
  - Build upon EAP2040, Metropolitan Washington Regional Climate and Energy Plan, existing City plans, and regional efforts
    - Don't duplicate - GHG analysis, business-as-usual, targets, high-impact actions, vulnerability assessments, hazard mitigation
    - Compile and synthesize what is already done/being done; contextualize for climate action
  - Focus on gaps (ex. EAP2040 actions, high-impact actions) & value-added analyses
  - Enhance understanding vulnerabilities, community impacts, adaptive capacity
  - Enhance understanding of co-benefits: equity, public health, economic opportunities, mitigation-adaptation synergies
  - Provide supporting and climate-contextualized information for adaptation and resiliency
  - Focus on specific, implementable actions
  - Leverage external support – data, analysis, regional plans & resources, partnerships

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# Scope of Work

- Task 1 - Project Kickoff and Management
- Task 2 - Climate Change Mitigation Planning
- Task 3 – Climate Vulnerability Assessment
- Task 4 – Climate Adaptation and Resilience Planning
- Task 5 – Climate Equity Assessment
- Task 6 – Draft City of Alexandria Energy and Climate Change Action Plan
- Task 7 – Community Engagement Events Support

# Scope of Work

- Task 2 - Climate Change Mitigation Planning
  - Business-as-usual GHG forecasts and targets
  - EAP2040, MWCOG Regional Energy and Climate Action Plan, addt. high-impact actions
    - Timing and scaling adjustments
  - Implementation plan, including: policy/legal barriers to address, budget/staffing, benefits and co-benefits, equity opportunities, evaluation and performance tracking, governance and education opportunities
  - Community feedback
  - High-level scope 3 / consumption-based emissions

# Scope of Work

- Task 3 – Climate Vulnerability Assessment
  - Evaluate vulnerabilities from temperature and precipitation projections
  - Provide mapping and analysis of risks and costs of vulnerabilities with focus on infrastructure
  - Community feedback
  - Recommendations for future studies and analysis

# Scope of Work

- Task 4 – Climate Adaptation and Resilience Planning
  - Review and synthesize City, regional, state adaptation and resiliency plans
  - Recommend adaptation and resiliency strategies, with implementation plans
    - Provide guidance to incorporate and augment other City planning or implementation plans
  - Community feedback
  - Recommend further studies and analysis not already addressed

# Scope of Work

- Task 5 – Climate Equity Assessment
  - Synthesize ECCAP to advance All Alexandria and climate equity
  - Focused analysis:
    - Energy burden
    - Heat vulnerability
  - City equity index mapping/analysis integration

# Scope of Work - Discussion

- What are the Task Force's priority tasks?

- What gaps does the Task Force see the need to address?

# Community Feedback

- Process:
  - City staff receiving ongoing community feedback/input via online feedback form, email, etc.
  - Provide community feedback / input at next Task Force meeting

- Received:
  - 6 comments from online feedback form
  - Email from Kert Davies
  - 5/31/21 Synthesis of Environmental Plans (w/ Ellen Eggerton comments) by Sasha Impastato
  - 7/14/21 Updated Synthesis of Key Environmental Plans by Sasha Impastato

# Sunshine Law

- Two members of the Task Force can meet but not three without a public meeting
  - Co-chairs allowed to meet as they are two people

- "Meetings" means the meetings including work sessions, when sitting physically, or through electronic communication means pursuant to § 2.2-3708.2, as a body or entity, or as an informal assemblage of (i) as many as three members of the constituent membership

# Updated Schedule

| Fiscal Year | FY2021 | | | FY2022 | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Calendar Year | CY2021 | | | | | | | | | CY2022 | | | | | |
| | **A** | **M** | **J** | **J** | **A** | **S** | **O** | **N** | **D** | **Ja** | **F** | **M** | **A** | **M** | **J** |
| ECCAP Development | | | | | | | | | | | | | | | *Adopt* |
| ICLEI ICAP Cohort | | | | | | | | | | *Ongoing Technical Assistance* | | | | | |
| Consulting Support | | | | | | | | | | | | | | | |
| Task Force Meetings | | | | | | | | | | | | | | | |
| Community Engagement | | | | | | | | | | | | | | | |
| Workshops | | | | | | | | | | | | | | | |
| Surveys | | | | | | | | | | | | | | | |

## Task Force Meetings

- ~~Meeting #1 – 5/4/2021~~
- ~~Meeting #2 – 7/27/2021~~
- Meeting #3 – 9/28/2021
- Meeting #4 – 11/30/2021
- Meeting #5 – 2/1/2022
- Meeting #6 – 5/10/2022 (**Added**)

## Community Engagement Workshops

- Workshop #1 – 10/26/2021
- Workshop #2 – 1/10/2022
- Workshop #3 – Earth Day Event/April 23, 2022 (**Added**)

# 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 will be posted to the City website to collect public comments