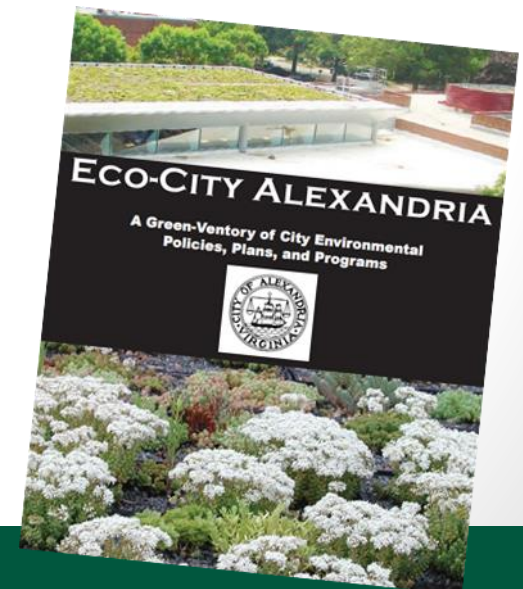
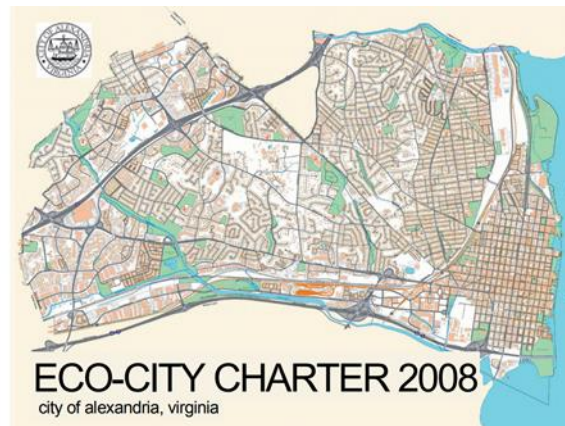
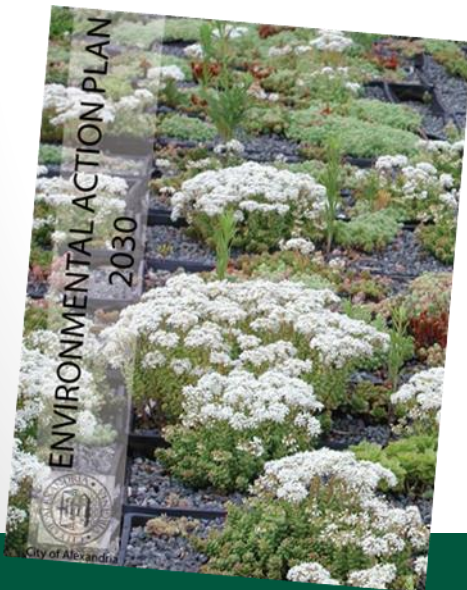




Environmental Action Plan 2030 Phase One Update

Ellen Eggerton, P.E.
Sustainability Coordinator



Environmental Action Plan 2030



- Transportation
- Green Building
- Air Quality
- Water Resources
- Environmental Health
- Energy
- Land Use & Open Space
- Solid Waste
- Global Climate Change
- Implementation

EAP Update Process

Two phases of EAP update process:

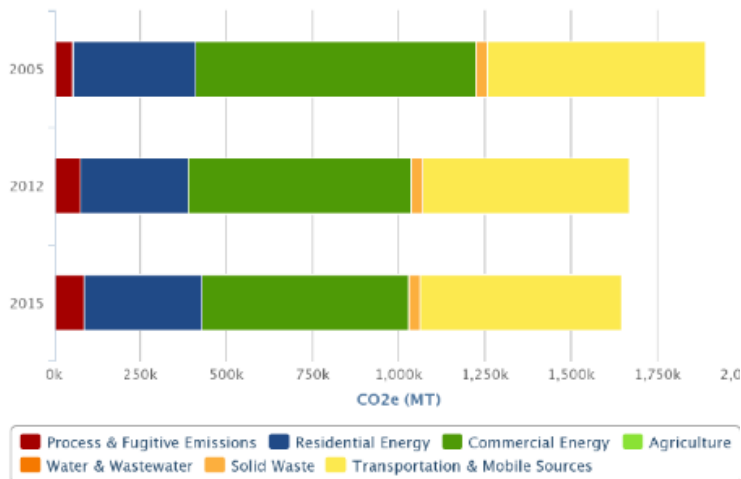
- Phase One:
 - Five focus areas: Energy, Climate Change, Green Building, Land Use & Open Space, and Solid Waste
 - Short-term actions (FY2018 through FY2023)
- Phase Two:
 - Five focus areas: Water Resources, Transportation, Air Quality, Environmental Health, and Implementation, Education, and Outreach
 - Short-term actions (FY2018 through FY2023)
 - All 10 focus areas:
 - Mid-term actions (FY2024 through FY2028)
 - Long-term actions (FY2029 and on)

Accomplishment Highlights

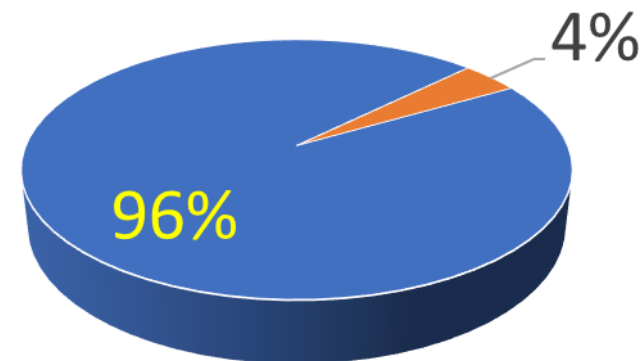
- Completed >70% of 363 actions in 2009 EAP
- Reduced GHG by 13% in 2015 vs 2005 levels
- Reduced vehicles miles traveled/person by 12.5% (2010-2016)
- Achieved >95% of 10M sq. ft. of dev. Green Building Policy (2009) compliant
- Reduced storm water pollution - 1,500 acres treated
- Improved recycling rate to ~50% & started Recycle Right campaign
- Increased energy efficiency of buildings & lights by 14% since 2006

City of Alexandria, Virginia

Community-Wide Greenhouse Gas Inventory Summary



SOURCE OF EMISSIONS (2012)



■ REST OF ALEXANDRIA

■ CITY GOVERNMENT EMISSIONS

Outreach and Education

Strong community desire for increased outreach and education

City response:

- Update key indicators
- Add dashboards to Eco-City website
- Enhance online resources and social media presence
- Provide hands-on workshops
- Add virtual tour of sustainable features
- Increase eNews coverage
- Collaboration with schools



Phase One

Renewable Energy and Greater Efficiency

- City electrical use: 100% renewable by FY2020
- 20% less energy use: City facilities & street lights
- CPACE - Commercial Property Assessed Clean Energy
- Electric vehicles & EV charging station strategy

Reduce and Recycle Solid Waste

- Reuse directory and Share-a-Bag
- Balance composting and GHG
- Glass recycling: analyze market
- Route Optimization Study

Phase One

- Tree Canopy and Open Space
 - Tree canopy: Preserve & expand a healthy tree canopy
 - Open Space: Acquire, preserve, and conserve
- Green Building Policy
 - Update policy to enhance sustainable practices in new & existing buildings
- Climate Change
 - Update Energy and Climate Action Plan
 - Guidelines to estimate GHG for CIP projects

EAP Phase One Update Timeline



	FY2019	FY2020	FY2021	FY2022	FY2023
Energy					
Renewable 1 (Offset Electrical Use)					
Renewable 2 (Energy Supply Strategy)					
Renewable 3 (Direct Power Purchase)					
Efficiency 1 (Facility Systems Optimization)					
Efficiency 2 (Electric Vehicle Pilot Program)					
Efficiency 3 (Lighting Upgrades)					
Community 1 (Regulatory Activities)					
Community 2 (Commercial Energy Ordinance)					
Community 3 (Electric Vehicle Charging)					
Climate Change					
Climate 1 (Action Plan)					
Climate 2 (Outreach)					
Climate 3 (Emissions Calculations)					
Green Building					
Building 1 (Policy Update)					
Building 2 (Sustainability in DSP/DSUP)					
Land Use and Open Space					
Trees 1 (Update Plans/Systems)					
Trees 2 (Outreach/Partnerships)					
Land 1 (Protect/Add Open Space)					
Land 2 (Acquire/Manage More Public Land)					
Land 3 (Open Space Requirements)					
Solid Waste					
Recycle 1 (Glass Recycling)					
Recycle 2 (Recycle Right)					
Recycle 3 (Route Optimization Study)					
Recycle 4 (Recycling Ordinance)					
Recycle 5 (Composting)					
Reduce 1 (Reuse Directory)					
Reduce 2 (Collection Pricing)					
Reduce 3 (Share a Bag)					

Revisions for Consideration

- EPC five recommendations
 - Energy Section (2) – EAP revised
 - Climate Change – EAP timing revised
 - Green Building
 - Open Space
- Planning Commission recommendations
 - Green Building and Open Space
- Staff recommendations