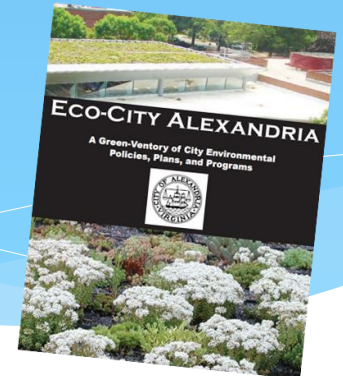
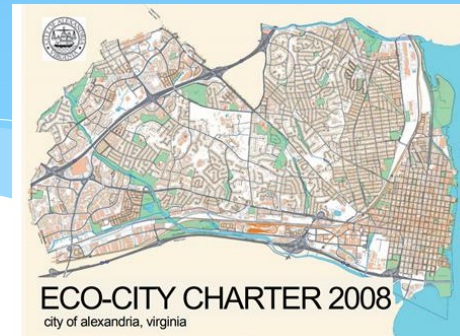
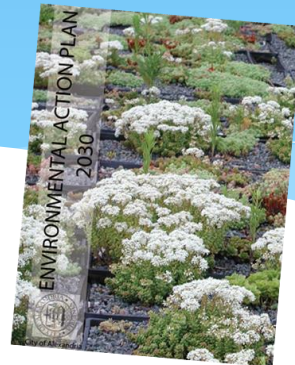


City of Alexandria, Virginia

Environmental Action Plan 2030 Update Recommendations from Environmental Policy Commission

City Council Work Session
May 22, 2018



EAP Update Process



EAP update in two phases

Phase 1 – 11 short-term targets; 37 actions thru FY 2023 across five areas:

Energy, Climate Change, Solid Waste, Green Building, and Land Use & Open Space

Phase 2 – all mid- and long-term targets plus short-term targets/actions in the remaining five areas:

Air Quality, Environmental Health, Water Resources, Transportation, Public Engagement & Accountability

EAP Update Process

- **Public Launch**
 - Highlighted 2009 to 2017 City's sustainability achievements
- **Collaborative Meetings between EPC and City staff**
 - Aimed at reaching consensus and acknowledging areas of divergence
- **Eco-City Café: public discussions**
- **Outreach**
 - Public Launch
 - EPC/PC joint meeting
 - Park and Recreation Commission
 - NAIOP (developers)
 - Earth Day
 - Online public feedback



EPC Recommendations

Energy



Targets

- **Renewable Energy:** By FY 2023, supply all City-operated buildings and facilities with 100 percent renewable energy.
- **Energy Efficiency:** By FY 2023, City-owned buildings and infrastructure should use 22% less energy on average (per square foot) compared to 2018 levels of energy use.
- **Community Energy Use:** By FY 2023, reduce the greenhouse gas emissions per capita associated with community energy use in Alexandria by 30% below 2005 levels.

EPC Recommendations Climate Change



Targets

- **Mitigation:** By FY 2022, reduce per capita greenhouse gas (GHG) emissions in Alexandria to 10 metric tons per year. After FY 2022, achieve annual emissions reductions of at least 5% per year in order to meet the City's longstanding goal of reducing emissions 80% below 2005 levels by 2050.
- **Adaptation:** By FY 2023, Alexandria will have metrics for measuring its residents' exposure to climate risks.

EPC Recommendations

Green Building

Targets

- **Private Buildings:** By FY 2020, the City's Green Building Policy will apply to all new construction and major renovation of private residential, non-residential, historic and mixed-use buildings projects, and will include quantifiable targets for the reduction of Greenhouse Gas Emissions (GHGs), whole building water use, and storm-water flows.
- **Public Buildings:** By FY 2023, all new or renovated City-owned buildings shall be at least 50% more energy efficient than code; new or renovated school buildings shall seek to meet a net zero energy standard; and the City will seek credible third party certification for all new construction, major renovation and at least half of the existing building portfolio.

EPC Recommendations

Land Use and Open Space

Targets

- **Open Space:** Through FY 2023, Alexandria's open space ratio of 7.3 per 1000 residents is maintained or increased, the quality and characteristics of shared open space is ecologically and environmentally diverse and beneficial, publicly accessible, and open space requirements are consistently applied and inclusive of innovative and sustainable design.
- **Tree Canopy:** By FY 2023, average overall tree canopy is a minimum of 40%.

EPC Recommendations

Solid Waste

Targets

- **Recycle:** Establish a Greenhouse Gas Emissions baseline for the collection and processing of solid waste by FY 2019, measure emissions at least annually through a waste characterization study, and reduce the emissions rate by at least 12% by FY 2023.
- **Reduce:** By FY 2023, reduce the total solid waste collected from City-served residential customers by 5% compared with 2017 as the baseline.

Next Steps

- Council discussion on EPC recommendations
- Bring back EAP for formal consideration
- Move into Phase 2 of EAP Update

EAP Update Process Timeline

Phase 2



FY 2019 – for complete EAP update adoption

- First quarter FY 2019: Launch of Phase 2 EAP update
- **FY2019: Green Building Policy update**
- Third quarter FY 2019: Eco-City Public Summit of Phase 2 EAP update
- Spring 2019: Earth Day sharing of Phase 2 draft EAP update
- Fourth quarter FY 2019: Council public hearing and adoption of EAP update

Questions/Discussion

Thank you!