

# Environmental Action Plan Implementation

## Energy & Climate



## Chapters: Energy & Climate - **Targets**

Lead Department/Staff: TES, Ellen Eggerton, Bill Eger,  
Jess Frech

**How will these be measured?  
How will we know when we get there?  
Do the actions add up to achieving the target? If not, what else needs to be done?**

Chapter / Topic	Target
Climate Change	By FY2030, reduce community-wide GHG emissions by 50 percent from 2005 levels. By FY2050, reduce community-wide GHG emissions by 80-100 percent from 2005 levels <b>MWCOG inventory. Actions only reach target with state/federal action.</b>
Government Facilities & Renewable Energy	By FY2030, transition all applicable Alexandria government facilities to 100 percent electricity and offset this electrical energy use by 100 percent renewable energy <b>Government knows its own energy use and actions will reach target.</b>
Government Operations & Efficiency	By FY2035, improve energy efficiency in City facilities and operations by 50 percent over a FY2018 baseline use
Community Energy Use	Reduce greenhouse gas (GHG) emissions to at least 10 metric tons of CO <sub>2</sub> e per capita by FY2022, 6 by FY2030, 4 by FY2040, and 1-3 by FY2050 from a FY2005 base year

## Chapters: Energy & Climate - **Actions**

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**2019: Were these completed? If not, why not?**  
**2020: Are these budgeted? Are they in the staff lead's performance objectives? Is this on track to be completed in FY2020?**  
**2021: What needs to be included in the Manager's proposed 2021 budget?**

	2019	2020	2021
Climate Change	None	None	Establish task force to guide E&CC Action Plan; Establish sustainability criteria for city-controlled pension funds
Gov Facilities & Renewable Energy	None	Increase REC purchases to 100% of gov't facility energy use	Develop renewable energy supply strategy evaluating potential renewable energy supply implementation pathways
Government Operations & Efficiency	None	None	Initiate electric vehicle pilot programs for DASH, ACPS, and city vehicle fleet; Complete retrofits of 75% of all facilities' lighting to LED
Community Energy Use	Expand participation in state-level policy and regulatory activities	Adopt an ordinance that implements a C-PACE program; Develop a strategy for electric vehicle charging infrastructure	

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**Short-term (2022-23) and mid-term: Is there anything that needs to happen in FY2020 or be budgeted in FY2021 to keep these items on track?**

	<b>Short-term 2022-2023</b>	<b>Mid-term 2024-2028</b>
Climate Change	Determine appropriate policies for estimating GHG emission impacts from operations and CIP expenditures (2022)	Complete a climate vulnerability assessment. (2024)
		Develop and implement state-level engagement strategy on climate policy (2024)
		Update Emergency Operations Plan and Continuity of Operations Plan to include infrastructure resiliency. (2028)
		Update the Energy and Climate Change Action Plan, including an evaluation of benefits, feasibility, and timing of policies. (2026)

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**Short-term (2022-23) and mid-term: Is there anything that needs to happen in FY2020 or be budgeted in FY2021 to keep these items on track?**

	<b>Short-term 2022-2023</b>	<b>Mid-term 2024-2028</b>
Gov Facilities & Renewable Energy	Direct purchase of renewable energy accounts for at least 50% of government operations electricity use. (2023)	Develop electrification and renewable energy plan for government operations non-electricity energy use. (2024)
		Direct purchase of renewable energy accounts for at least 80% of government operations electricity use.
Government Operations & Efficiency	Update facility asset condition auditing process. (2023)	Implement energy efficiency strategies to reduce gov't energy use by 25%. (2027)
		Implement electrification of 25% passenger City fleet vehicles. (2024)
		Implement electrification of 10% of DASH, BRT, and trolley buses. (2028)
Community Energy Use		Develop community energy model to track and forecast program success. (2024)

## Chapters: Energy & Climate - **Legislative Priorities**

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**Which of these need to be emphasized in our legislative package request?**

- **Make permanent an aggregate municipal net metering pilot program, include expanded renewable energy system capacity limits, increase cost offset to equal the value of solar resources, remove administrative costs, and provide applicability across a range of utility rate classes.**
- Consider electricity load aggregation opportunities to leverage statutory retail choices.
- Provide financial incentives to local governments, state agencies, and private owners of conventional roadway, street, and outdoor lighting to convert to dark-skies compliant LED technologies.
- Commission a new study of energy efficiency potential to assess the scale, availability, and cost of energy efficiency as an economic, resiliency, and power generation resource in the Commonwealth of Virginia.
- Direct the Virginia Department of Mines, Minerals, and Energy (DMME), State Corporation Commission (SCC), Virginia Department of Environmental Quality (DEQ), utility companies, and relevant stakeholders to pursue strategic partnerships with Virginia local governments to identify the needs, coordinate the deployment of public electric vehicle charging infrastructure, and incentivize the transition of personal-occupancy vehicles to electric vehicle technologies.
- Pursue legislative opportunities to provide decarbonization via legal authority and implement a community solar or community choice aggregation-like program to provide subscription access to shared renewable energy facilities to Alexandria community members and businesses to offset individual or business GHG emissions from electricity use.
- **Lobby for bills that would expand renewable energy purchasing by the community or utility, advocate for the state of Virginia to join the Regional Greenhouse Gas Initiative (RGGI), set a renewable portfolio standard for electricity generation, and grant Alexandria authority to undertake energy and transportation initiatives to reduce GHG emissions that are currently prohibited by state law.**