
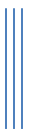




IX. Appendices

Appendix A: Rockville Climate Action Plan Cost-Benefit Summary

Category	Action ID	Action	Benefits (+++ High, ++ Medium, + Low, N Neutral, - Negative)						Lead	Partners	Estimated City Investment
			GHG	Resiliency	Feasibility	Health	Equity	Co-Benefits			
 Energy Efficiency	C-01	Advocate for Montgomery County's Building Energy Performance Standard (BEPS) for existing commercial and multifamily buildings	+++	+	++	+	-	Economic	Montgomery County	Public Works, Pepco, Washington Gas, Planning and Development Services	No direct implementation cost See M-01 for City facility compliance cost
	C-02	Expand the low and moderate income (LMI) home repair and weatherization program to increase energy efficiency, resiliency, and renewable energy opportunities	+	++	++	++	+++	Housing Economic	Housing and Community Development	Public Works, Maryland Energy Administration, Pepco, Washington Gas, Housing non-profits	Low LOS: \$100,000 per year +1 FTE High LOS: \$250,000 per year +2.5 FTE (includes solar). Shared resources: C-05, C-09, C-20
	C-03	Progressively strengthen green/energy conservation building codes for new construction to reach net zero or equivalent	++	++	++	+	N	Economic	Planning and Development Services	Public Works, Montgomery County, Development Community	Operating: 1 FTE/Consulting support Investment in staff capacity and training Shared resources with C—09, C-20
	C-04	Opt into Montgomery County's point of sale energy disclosure (Chapter 40, Real Property, Section 40-13B)	+	N	+++	N	+	Housing	Public Works	Montgomery County's Office of Consumer Protection	N.A.



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			GHG	Resiliency	Feasibility	Health	Equity	Co-Benefits			
	C-05	Expand the home energy efficiency outreach program to increase participation in utility energy audits and rebates	+	+	++	++	++	Housing, Economic	Public Works	Montgomery County, Environment Commission, Nonprofits, Pepco, Washington Gas, Housing and Community Development	Low LOS: \$5,000 per year +.5 FTE (multilingual outreach materials and staff support) High LOS: \$15,000 per year +1 FTE (includes City incentives) Shared resources with C-02, C-09
	C-06	Coordinate with Montgomery County on electrification incentives for existing building systems	+++	+	+	+	+	Housing Economic	Maryland, Montgomery County, Pepco	Public Works, Planning and Development Services	Shared resources: C-02, C-05
	M-01	Complete energy assessments of City facilities and develop a strategic plan to reduce facility energy consumption	+	+	++	+	+	Efficient and Effective Services, Utility Savings	Recreation and Parks	Public Works	Phased: \$11,000/facility for a consultant audit + costs of energy measures. Grouped: Up to 6 at \$66,000 0.25 FTE Shared resources with M-04, M-07, C-22, M-11 Long-term savings
	M-02	Convert City-owned streetlights to energy efficient LED (light-emitting diode) (CIP TA22)	+	+	+	+	+	Safe and Livable Neighborhoods, Stewardship of infrastructure, Utility savings	Public Works	Pepco, Maryland Energy Administration	CIP: FY 2023: \$1 million FY 24/FY 25 total unfunded: \$2.2 Million Savings dependent on Pepco rebates and tariffs
	M-03	Advocate for a Pepco-owned streetlight LED conversion agreement that serves the public interest	+	+	+	+	+	Safe and Livable Neighborhoods, Stewardship of infrastructure	Pepco & Maryland Public Service Commission	Public Works	Costs, savings, depend on Pepco rebates and tariffs




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			GHG	Resiliency	Feasibility	Health	Equity	Co-Benefits			
 Renewable Energy	C-07	Advocate to increase the Maryland Renewable Portfolio Standard by 2030	+++	N	+	TBD	+	Environment	Public Works	Environment Commission	-
	C-08	Coordinate with Montgomery County on development of the Community Choice Energy Program to aggregate green power purchasing	+++	N	++	TBD	+	Environment	Montgomery County, Maryland Public Service Commission	Public Works	-
	C-09	Promote private solar and geothermal installations through the solar co-op program, streamlined permitting, and expanding access for low-to-moderate income residents	++	+	++	N	+	Economic Environment	Public Works, Planning and Development Services, Housing and Community Development	Montgomery County, Non-profits, Montgomery County Green Bank	To Be Determined Shared resources: C-02, C-03, C-05,
	M-04	Identify and install feasible solar photovoltaic systems on city property	+	+	+	N	N	Economic Environment	Recreation and Parks	Public Works, solar development, Maryland Energy Administration (MEA)	Pending MEA study. Solar power purchase agreement has no/low upfront costs. 0.25 FTE Operating: contract mgmt. + electricity purchase
	M-05	Purchase renewable energy certificates (RECs) for municipal electricity	+	N	++	N	N	Environment	Montgomery County (cooperative purchase)	Public Works, Recreation and Parks	Annual operating: \$20,000 to \$85,000 (fluctuates with market conditions)
 Transportation	C-10	Work with WMATA, MDOT, and Montgomery County to maximize transit accessibility and ridership and enhance mobility options	++	+	+	+	+	Mobility Economic Environment	Montgomery County, WMATA, MDOT	Public Works, Planning and Development Services	Costs included in various projects and programs
	C-11	Develop a Rockville Community Electric Vehicle (EV) Readiness Plan	+	+	++	++	+	Mobility Economic Environment	Public Works	Planning and Development Services, Recreation and Parks	One-time consulting study \$100,000
	C-12	Require new developments and redevelopments to be electric vehicle-ready	+	N	++	+	+	Mobility	Planning and Development Services	Public Works	-


Category	Action ID	Action	Benefits (+++ High, ++ Medium, + Low, N Neutral, - Negative)						Lead	Partners	Estimated City Investment
			GHG	Resiliency	Feasibility	Health	Equity	Co-Benefits			
	C-13	Promote a regional electric vehicle purchasing cooperative (EVPC)	++	N	++	++	+	Mobility Economic	COG, Montgomery County	Public Works	Utilize existing sustainability outreach resources
	C-14	Expand active transportation and shared micro-mobility network by implementing improvements in the Bicycle Master Plan and Vision Zero Plan	++	+	++	++	++	Mobility Safety Economic	Public Works		Costs included in various transportation projects and programs
	C-15	Adopt and implement a Pedestrian Master Plan	+	+	++	++	++	Mobility Safety	Public Works		To Be Determined
	M-06	Convert the City fleet to cleaner and more efficient fuel sources	+	+	++	++	+	Environment	Public Works	All departments	Upfront: see M-07 Operating: Ranges from \$15,000/year to \$175,000+/year for heavy duty; staff training costs Potential long-term savings in operations and maintenance
	M-07	Establish a new Capital Improvement Project (CIP) to expand electric vehicle charging infrastructure on City property to serve employees, fleet and the community	+	+	++	++	+	Mobility Economic Environment	Recreation and Parks	Public Works	CIP: \$644,625 to \$1,083,475 (depending on incentives and site conditions) 0.5 FTE Operating: To Be Determined to include software, electricity costs. May be offset by fuel savings Planning cost-share with C-11
	M-08	Update City teleworking and transportation benefit policies to encourage City employees to reduce vehicle miles traveled (VMT)	+	++	++	+	+	Mobility	Human Resources	All departments	Depends on level of transit incentives Cost share: M-07



Category	Action ID	Action	Benefits (+++ High, ++ Medium, + Low, N Neutral, - Negative)						Lead	Partners	Estimated City Investment
			GHG	Resiliency	Feasibility	Health	Equity	Co-Benefits			
 Land Management	C-16	Implement the Comprehensive Plan to steer the densest development/redevelopment to mixed-use, transit-served locations, reduce VMT and emissions, and conserve/restore environmental areas	++	++	+	++	+	Mobility, Economic, Environment	Planning and Development Services	Planning Commission, Public Works, Housing and Community Development, Rockville Economic Development Inc. (REDI), Rockville Chamber of Commerce	Capital and implementation costs identified in a separate process. Cost share with CAP actions
	C-17	Expand education and incentives to support tree planting and maintenance, environmentally friendly landscape conversions, and management of non-native invasive plants on private property	+	++	++	+	+	Safe and Livable Neighborhoods, Environment	Public Works	Recreation and Parks, Planning and Development Services, Community Volunteers	Low LOS: \$15,000 per year High LOS: \$30,000 per year + 1 FTE
	M-09	Develop a Green Space Management Plan for public lands to assess and restore trees, forests, meadows, stream valleys and wetlands	+	++	++	+	+	Environment, Stewardship of Infrastructure	Recreation and Parks	Public Works	Operating: One-time consulting services \$115,000 Implementation costs to be estimated in plan.
 Materials and Waste	C-18	Develop a food waste composting program for residents	+	N	+	+	+	Environment	Public Works	Recreation and Parks, private contractor	One time: \$6,000/site (bins + site work, signs) Operating: \$10,000/site + outreach support Cost share: C-19, C-25
	C-19	Expand residential recycling and waste reduction outreach program to increase compliance and waste diversion	+	N	++	N	N	Environment	Public Works	Public Information Office, volunteers, Montgomery County	Operating: \$5,000 + outreach support Cost share: C-18, C-25
	M-10	Develop a City sustainable procurement policy	+	N	++	+	+	Environment, Economic	Procurement	Various Departments	

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			GHG	Resiliency	Feasibility	Health	Equity	Co-Benefits			
 Resiliency	C-20	Incorporate climate resilient building and infrastructure design features in new buildings and retrofits	+	++	++	++	+	Economic, Housing, Safe and Livable Neighborhoods, Stewardship of Infrastructure	Planning and Development Services	Public Works	To Be Determined Coordinate with C-03, C-22, C-24, M-09, and M-13
	C-21	Partner with Federal Emergency Management Agency (FEMA) to update the Flood Insurance Rate Maps (100-year Floodplain Maps) used to implement the National Flood Insurance Program	N	++	+++	+	+	Economic, Housing, Stewardship of Infrastructure, Safe & Livable Neighborhoods	Public Works	FEMA, Public Information Office, Montgomery County, Maryland Department of the Environment	Utilize existing resources
	C-22	Work with Montgomery County and community partners to provide cooling centers, resilience hubs, and other services to strengthen community resiliency	N	+++	++	++	++	Save and Livable Neighborhoods, Efficient and Effective Services	Recreation and Parks, Housing and Community Development	Public Information Office, Public Works, Montgomery County	To Be Determined
	C-23	Work with Montgomery County and community partners to measure and map urban heat islands to mitigate exposure to extreme heat	N	++	+	++	++	Economic, Mobility, Safe & Livable Neighborhoods, Efficient & Effective Services	Public Works	Montgomery County, community volunteers	Montgomery County seeking grant; may require City cost-share
	C-24	Increase tree planting, green, cool and photovoltaic roofs, and cool pavements on public and private property	+	++	++	++	+	Safe and Livable Neighborhoods, Economic	Public Works, Planning and Development Services	Parks and Recreation	To Be Determined Share resources with C-03, C-09, C-17, M-09
	M-11	Continue assessing the vulnerability of Rockville's critical infrastructure, facilities, and services, and prioritize areas for improved climate resiliency	N	+++	++	+	+	Safe and Livable Neighborhoods, Stewardship of Infrastructure, Efficient and Effective Services	Public Works, Police, Recreation and Parks	Montgomery County	Upfront: \$180,000 for consulting services for new Emergency Operation Plan and Continuity of Operation Plan Coordination with M-14 M-13, M-10, and M-09



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			GHG	Resiliency	Feasibility	Health	Equity	Co-Benefits			
	M-12	Advocate for state and federal authorities to update stormwater infrastructure design, operations and maintenance standards to accommodate new rainfall/ storm event projections and help reduce projected flooding issues	N	++	++	+	+	Safe and Livable Neighborhoods, Stewardship of Infrastructure	Public Works	Maryland Agencies	Utilize existing resources
	M-13	Assess Rockville’s risk of flooding and develop a Flood Resiliency Master Plan to reduce or mitigate flooding impacts	N	+++	++	+	+	Safe and Livable Neighborhoods, Stewardship of Infrastructure	Public Works		Operating: One-time consulting services: \$1,500,000 Project costs to be determined.
	M-14	Develop and implement Heat Illness Prevention Plans for various City services and operations	N	++	++	++	+	Efficient and Effective City Service	Human Resources	All Departments	Utilize existing resources
 Public Engagement and Oversight	C-25	Work with community partners to conduct an inclusive public engagement campaign to reduce emissions and adapt to the impacts from climate change	++	++	++	+	+	Informed and Engaged Residents	Public Works	Public Information Office, Departments, Montgomery Co., Boards, Commissions, Stakeholders	Operating: Staff and contracted support Cost share: C-02, C-05, C-09, C-13, C-17, C-18, C-19, C-21, C-24
	C-26	Develop metrics and performance indicators for climate actions to establish a data-driven assessment and reporting process	+	+	++	N	N	Good Governance	Public Works	All City Departments, COG, Utilities, Montgomery County	Some reporting metrics may require coordination with the City’s ERP (Enterprise Resource Planning) CIP
	M-15	Incorporate climate mitigation, resiliency, and equity considerations into the City’s budget prioritization process	+	+	++	N	N	Good Governance, Fiscal Responsibility	Finance	All Departments	-
	M-16	Develop an interdepartmental climate action team to implement and track plan progress	+	+	++	+	+	Good Governance	Public Works	All Departments	-

