

CEP Roadmap Years 1-2 (2022-2023) Success and Status

Strategy Sector I.D.*	Strategic Action/Milestone	Execution**	Timeline	Type	Status	AIRE Programs	OSEM/AIRE Staff	Notes
B.1.1	Encourage greater energy efficiency and use of lower carbon fuels in buildings	✓	1-2 Year	Level-of-Effort	01-01-2024 Status	GBIP, GBIP program update, Federal grants, C-PACE	Paul, Drew, Steve	GBIP - 5 Million Square Feet in Green Building design and construction 2023 (see Program Upgrade below and separate Comparison Matrix for detailed breakdown). Green Home Choice - 17 completed home projects in 2021-2022 405 program participants (including new builds and renovations). Converting Green Home Choice to virtual programming and promotion. Federal grants - residential/commercial assessments, modeling, and/or construction built into four (4) federal grant application designs, with one (1) awarded and two (3) pending.
B.1.1	Explore potential partnerships for community-scale upgrades to existing building, e.g. BlocPower	✓	1-2 Year	Discrete Project	In progress	Federal grants, including CPRG	Demetra, Stephen, Drew	EPA G2G project, CPRG Regional MSA, CPRG statewide/Commonwealth; GGRF
B.1.1	Deploy the Green Building Incentive (Bonus Density) Program to create more energy efficient buildings	✓	1-2 Year	Continuous; enhanced in proposed upgrade	Automatic energy efficiency performance increase 07-01-2023	GBIP	Paul, Demetra	2022 Program covered 5 million sf of new commercial and multi-family buildings; More than 25 million sf to date; 2nd largest # of Green Building private sector projects/2021; Tied for largest # of Green Building square footage private-sector projects
B.1.1	Promote the use of transformative construction certifications such as the LEED, Earthcraft, International Living Futures Institute (ILFI), and Green Home Choice Programs	✓	1-2 Year	Continuous	Enhanced in GBIP 2024 Upgrade Proposal	GBIP, GBIP program update	Paul, Demetra	
B.1.1	Encourage private buildings that are being renovated to improve energy efficiency by 30-40% by 2050 and conserve embodied energy during the construction process	✓	1-2 Year	Ongoing Effort	Ongoing	GBIP, GBIP program update, adaptive reuse	Paul, Drew, Demetra	
B.1.1	Encourage the use of lower carbon fuels in buildings through the C-PACE Program and the Solar Co-Op Program (including EVSE Charging)	✓	1-2 Year	Continuous	2nd Completed C-PACE Financed Project; Update	C-PACE, Solar Co-op	Rich, Courtney	Additional "reach" activity: update ordinance and Program, working with CAO; est. to County Board March 2024; also cross-leveraging with federal grant designs and applications
B.1.1	Update and complete Building Electrification Measures Study	±	1-2 Year	Discrete Project	In progress; partial completion due to contract expiration & new Procurement	GBIP; Sustainable Facilities Strategy; federal grants	Stephen, Emily	New procurement/contracting in progress; note that this is not funded under FY 25 Budget; potential to fold into pending federal grant programs, if awarded
B.1.1	NEW: Upgrade Green Home Choice Program	→	1-2 Year, Rolling into Roadmap Years 3-5	Continuous	Continuous	Prior program is staff (2 FTEs) and resource intensive, for minor outcomes (20-23 homes annually). Upgrade intended to automate, increase contractor role, and increase outcomes for better cost-benefit	AIRE Team	Funding and staff contingent; recruitment for Lead position in this action has been unsuccessful in two cycles (non-responsive applications and 2nd cycle offer was declined in favor of another). A priority focus for CEP Roadmap Years 3-5.
B.1.1	NEW: Adaptive Reuse Assessment, Review and Training Program for AIRE Team; partnership with Cohort from Worcester Polytechnic Institute, with support from AED, Gensler and Stantec	✓	1-2 Year, rolling into Years 3-5	Discrete Milestone Project	Completed	GBIP, CMRI 2.0	Demetra	Continuing partnership with AED under the CMRI; deliverables can also contribute to training program modeled for Developers, Building Owners, Architects & Designers to provide familiarization with adaptive reuse criteria and standards.
B.1.1	Update the Green Building Incentive Bonus Density Policy	±	1-2 Year	Discrete Project	Proposed Model completed Dec-2023; CM review; completion Spring 2024	GBIP program update	Demetra, Paul	Additional Reach Activity: 2024 Upgrade Proposal to expand Program to include: 1) 6-month training/education/outreach for developers, building owners, architects, designers, contractors; 2) streamline LEED option; 3) elevate PHUIUS option; 4) add existing buildings pathway; 5) separate adaptive reuse category for existing buildings; and 6) provide financial incentives for all but LEED option.
R.1	Invest in on-site renewables and storage systems to power critical facilities and new County projects	✓	1-2 Year	Continuous	Enhanced w- 2023 Decarbonization Tool Application + New RFP	Sustainable Facilities Strategy	Stephen, Drew	Additional Reach Activity: Completion of Decarbonization Tool to model single and bundled measures for performance metrics and cost-benefit analysis; plus new Master RFP on-boards new On-Site Solar (Government Facilities) Contract
R.1	Solar assessments to identify highest-capacity potential for Government facilities	±	1-2 Year	Discrete Project	Delayed until Q1 2024 due to contract termination & new Procurement process	Sustainable Facilities Strategy; CEP Government Action Goal	Stephen w- FMB	High-level roof assessments conducted for government facilities.
R.2	Complete an Energy Assurance Plan for County operations and the community.	✓	1-2 Year	Discrete Project	Complete	Regional Hazard Mitigation Plan; CEP Resiliency Goal	Rich, Demetra	Additional Reach Activity: Key strategy of Microgrid / Resiliency Hubs Assessment and Design unfunded for 3 years; Nov 2024 BRIC Grant Submission for full funding
R.2	Site selection (microgrid(s) and/or Resiliency Hub(s)) to take place after the Energy Assurance Plan is finished	±	1-2 Year	Discrete Project	Unfunded - see Line 15	Regional Hazard Mitigation Plan; CEP Resiliency Goal	Demetra, Rich, Steve	
R.2	NEW: FEMA BRIC Grant - Microgrid and Resiliency Hub Assessment and Design	✓	1-2 Year, Rolling	Discrete Project	VA Submssion Nov-2023	Energy Assurance Plan Priority Measure	Demetra, with Rich	Fundamental need unfunded; developed for BRIC Planning/Design Grant, which is two-phase: initial submission to State and, upon State endorsement, submitted to FEMA. This proposal has a 30-month schedule for assessment and design of up to 3 Microgrid sites and up to 10 Resiliency Hub sites.
RE.1	Facilitate group/bulk purchases of renewable energy	±	1-2 Year	Ongoing Effort	Ongoing	Solar Co-op, VPPAs, CCA & Retail Choice evaluation	Demetra	Dominion Energy Terminated VPPA Program, following Maplewood Project. Additional Reach Activity: CCA Legal/Regulatory Deep Analysis delayed by discussions with NOVA jurisdictions. Comprehensive SOW drafted for CAO and subsequent CAO/OSEM-supported action to vet, select and engage firm for deep legal and regulatory analysis of CCA and retail choice. Also has potential to impact electrification in Transportation; see additional sector programs/actions below
RE.1	NEW: Update Solar Co-Op Program (including EVSE Charging)	✓	1-2 Year	Annual Program	Ongoing	Solar Co-op Programs (SUN and Solarize)	Courtney, Demetra, Rich	A fixed action in CEP Roadmap Years 1-2 that required new Action when the SUN Program dramatically changed (operationally and transactionally) to SUN-Switch with I-Charging ME&O Strategies. Required extensive vetting with Purchasing and work with CAO to develop mutually-acceptable MOU with SUN-Switch; MOU expected to go before the Board in Feb-2024.
RE.1	Use power purchase agreements (PPAs), VPPAs, and green power purchases to meet the CEP Renewable Electricity targets	✓	1-2 Year	Ongoing Effort	Ongoing	PPAs, monitoring Maplewood	Stephen, Drew, Emily	county owned and maintained), Fire Station 8 (too small for PPA, county owned and maintained), AMOF facility (when completed), Central Library roof replacement and new solar installation. Equipment Bureau: solar-ready. All other facilities except 1212 Irving & Fire Station 8 will be assessed first by Dominion Energy Services for PPA consideration. Any rejected sites will have secondary consideration as County

RE.1	Solar assessments to identify highest-capacity potential for Government facilities	✓	1-2 Year	Discrete Project	Continuing	PPAs	Stephen	See notes above for Line 19.
RE.1	<b>NEW</b> : Aggregate and build government partnerships to secure utility-scale renewable energy resources that will meet the electricity demand of other municipalities + meet Arlington demand increases from building and transportation electrification	✓	1-2 Year, rolling into Years 3-5	Ongoing Effort	Ongoing	Aggregated VPPAs / retail choice	Stephen, Demetra, Emily, Drew	<b>New Reach Activity</b> : Discussion through VESPN to develop multi-jurisdictional alliance; development of model MOU with CAO. Also pending results from CCA/Retail Choice Legal and Regulatory Analyses (see above Line 17).
RE.1	Use VPPAs to increase the supply of renewable electricity used on a countywide scale (government and community)	✓	1-2 Year	Goal of 100% achieved 2 years early	Ongoing	Sustainable Facilities Policy; CEP Renewable Energy and Government Action Section Goals	Steve, Emily, Drew	Maplewood - Accelerated 100% RE by 2025 goal by 2 year. Only government in the Commonwealth to do so; as noted above, pursuing option such as CCA and retail choice for future electrification expansion
RE.1	Issue RFP both PPA and VPPA third-party developers with flexibility for both current options and future opportunities that may evolve under new legislative or regulatory authority or business models	✓	1-2 Year	Annual Program	Complete	Sustainable Facilities Policy; CEP Renewable Energy and Government Action Section Goals	Rich, Stephen	Executed Agreement with Dominion Energy Services (formerly BrightSuite) for on-site solar through PPAs.
RE.1	Multi-jurisdictional engagement and partnership to explore new financial, transactional, or operation models and opportunities to expand renewables	✓	1-2 Year	Discrete Project	Active, progressed and continuing	CEP Renewable and Government Action Section Goals	Demetra, Stephen	Dovetails with CCA/Retail Choice Assessments and Framing Multi-Jurisdictional Coalition (now in CAO to develop and MOU) for aggregated purchase
RE.1	County annually purchases over 15,000 MWh of Dominion Green Power	✓	1-2 Year	Annual Program		CEP Renewable and Government Action Section Goals	Steve, Emily	
T.1	<b>Work with partners at the federal, state, regional and local levels to proactively address transportation and transit issues across all modes including creating local and regional transportation solutions, to: 1) develop incentives and/or influence behavior toward shared transportation and away from single occupancy vehicular traffic; 2) decrease emissions attributed to pass-through traffic, and 3) supporting increased vehicle electrification and fuel efficiency standards.</b>	✓	1-2 Year	Discrete Project	Ongoing	Produce Carbon Neutral Transportation Master Plan	Demetra	The Carbon Neutral Transportation Master Plan (CNTMP) focuses on 1) measures and strategies to reduce SOV use in favor of multimodal transportation modes and micro-mobility options; 2) mapping a long-term public charging network linking demand, availability (or lack), and high-circulation origin-destination routes; and 3) a progressive pathway for electrifying government and school fleets. The draft CNTMP is complete and under cross-departmental review, with County Manager, Board and stakeholder engagement to commence Feb-2024.
T.1	Expand bikeshare and micro-mobility to increase share of trips under two miles	✓	1-2 Year	Ongoing Effort	Ongoing	CEP Transportation Goals; CNTMP; and Transit Strategic Plan; federal grants	Demetra, Steve, Drew	<b>Additional Reach Activity</b> : Developed federal grant EECBG Proposal for E-Bike Rebate Project.
T.1	<b>NEW</b> : Assess EV Car-Share Programs for Underserved Communities and Develop Arlington-Centric model	✓	1-2 Year Project, roll-over into Years 3-5 Subject to Funding	Ongoing Effort	Ongoing	CEP Transportation Goals; Equity Policy; federal grant potential	Rich, Demetra	Model options for Arlington have been completed.
T.4	Reduce on-site parking requirements for all new development	✓	1-2 Year	Ongoing Effort	Ongoing	Green Building Incentive Program	Paul	GBIP is supported by trend in new commercial/multifamily construction to reduce parking ratios.
T.4	Implement performance-based paid parking on-street to tier price with demand	±	1-2 Year	Discrete Project	Continuing		DES-TEO, AIRE assigned to TEO Working Group	Hardware installation and software development phase is complete; advertised temporary ordinance changes, with expectation of Board action on administrative changes to meter pricing in response to demand data. This next phase of price adjustments and publicly-available occupancy information will run roughly two years before we return to the board with concluding recommendations out of the pilot
T.2	Facilitate the growth of electric vehicle charging infrastructure (EVSE) within Arlington County and in the region	✓	1-2 Year	Ongoing Effort	Ongoing	Carbon Neutral Transportation Master Plan; including government sites for public-access/public-use; CFI federal grant application	Demetra, Stephen, Drew, FMB	CNTMP initial full Draft received 01-11-2024; now under review. Regional 2023 CFI grant submission by MWCOG was rejected, and County pursuing options for a 2024 cycle application. Countywide public access-public use EVSE Program. Bozman - 6 public-use chargers, and 4 government-use chargers. Identified 7 additional sites for public access/public use EVSE stations at community centers, libraries, parks etc. Vetting infrastructure at 7 additional sites with Dominion
T.2	Issue RFP for EVSE Installation/Management Vendors	✓	1-2 Year	Discrete Project		2023 Master RFP issued by AIRE	Rich, Stephen	Consultant / Contractor agreements executed in Q4 2023
T.2	Consider Arlington County EVSE Rate Ordinance	✓	1-2 Year	Rolling Over into Roadmap Years 3-5	Complete	Interim EV Rate Ordinance	Tyler, Demetra, Stephen	Established interim rate ordinance at 14 cents/kWh July-5-2022
T.3.1	Integrate fuel efficiency and electric vehicle considerations into the process of replacing infrastructure and County and APS fleet vehicles	✓	1-2 Year	Ongoing Effort	Ongoing; 3-Bus State Grant + 5-Bus BUA Grant	Transportation Decarbonization Master Plan; Fleet transition (sedans, SUVs, 150s); Electric School Bus Pilot funded under State funds, and new EPA application	Steve, Emily, Chris Allison	Milestones are being exceeded, e.g., non-emergency sedan Fleet is 51% EV in 2023; increasing to 56% in 2024; and 61% projected for 2025. For APS, County Equipment Bureau and AIRE work together on 3-School Bus Pilot in 2022 and federal grant application for 5 additional buses under the EPA Clean School Bus Program of the BUA
T.3.1	Implement grant award for APS School Buses	✓	1-2 Year	Discrete Milestone Project	Complete	3-Bus Pilot under State Grant	Demetra, Chris Allison	AIRE and Equipment Bureau (EB) led, successful grant application for 3 Electric School Buses under VA grant. Now in implementation between EB and APS. <b>Additional Reach Activity</b> : Equipment Bureau application under EPA Clean School Bus Program (BUA) for 5 additional buses.
T.3.1	Replace 10% of County ICE non-emergency sedans with EV	✓	1-2 Year	Discrete Milestone Project	Complete	See Notes above in Line 32	Steve, Emily, Chris Allison	See notes above for Line 34
T.3.1	Cumulative replacement of 40% of County ICE non-emergency sedans with Evs by 2025	✓	1-2 Year	Discrete Milestone Project	Complete; Exceeded	See Notes above in Line 32	Steve, Emily, Chris Allison	<b>Additional Reach Activity</b> : Exceeded 40% milestone - 2024 - 56%, increasing to projected 61% in 2025.
T.4	Support Master Transportation plan implementation by promoting alternatives to car ownership and use	✓	1-2 Year	Ongoing Effort	Ongoing	Transportation Decarbonization Master Plan, Transportation Strategic Plan, ARTBus ZEV Feasibility Study	Demetra Pierre Holloman; multiple cross-bureau stakeholders	<b>Additional Reach Activity/ies</b> : Developed Arlington model for EV car-share program for Disadvantaged Communities; designed EECBG federal grant pilot program for E-Bike Incentives (60% of funding to be allocated to underserved communities).
T.4	Traffic Signal Transit Priority Study	✓	1-2 Year	Discrete Project	Ongoing		DES-TEO, AIRE supporting	Modeling and rephasing of traffic/transit signalization with objective to enhance service, reduce travel times, and stimulate greater transit ridership; benefits and impact to include reduction of GHG emissions associated with transportation.
T.5	Produce a blueprint (Carbon Neutral Transportation Master Plan) for a decarbonization of transportation plan that includes government fleet, private sector transportation, supporting infrastructure, APS Fleet, EVSE Heat/Siting Map, Policy/ies, resilience strategies, market forecast	✓	1-2 Year	Discrete Milestone Project	Implementation rolling into CEP Roadmap Years 3-5	Transportation Decarbonization Master Plan, Transportation Strategic Plan, ARTBus ZEV Feasibility Study, federal grants; redevelopment initiatives, e.g., PLB, adaption and resiliency programs	Demetra, under all-of-government approach	<b>Additional Reach Activity</b> : Initial 5-year Implementation Framework to operationalize CNTMP developed in 2023 for Q2 2024 completion
T.3.1	Complete the ARTBus ZEV Feasibility Study and the Master DecTrans plan	✓	1-2 Year	Discrete Milestone Project(s)	Completed	Transportation Master Plan, Transit Strategic Plan, MWCOG 2023 Clean Transportation Initiative	Demetra, under all-of-government and regional engagement	<b>Additional Reach Activity</b> : McBride built County and APS Fleet funding into CPRG Grant Programming with MWCOG and the Commonwealth.
T.3.1	Complete a gaps study of APS fleet transition to EVs	±	1-2 Year	Discrete Milestone Project	Completed; rolling into CEP Roadmap Years 3-5 (see notes)	CNTMP	Demetra w- APS and Equipment Bureau & FMB	<b>Additional Reach Activity</b> : Rolling into CEP Roadmap Years 3-5, Stephen, Emily to support FMB under grid needs study for electrification of APS School Bus Fleet

T.4	<b>NEW</b> : Total Cost of Ownership Report (EV vs. ICE)	✓	1-2 Year	Discrete Milestone Project	Completed	CEP Transportation, Government Action, and Public Engagement Goals	Demetra w- AIRE Team and the Equipment Bureau	The Total Cost of Ownership Report is divided into 2 sections: one for Government Fleet and the 2nd for personal vehicles, and compares purchase, operation and long-term maintenance costs for Electric Vehicles compared to those for Internal-Combustion Vehicles. Completed and posted on AIRE Website.
T.6	Update the County's vehicle idling policy that is now in the Driver Policy to ensure best practices are being employed	→	1-2 Year	Discrete Project	Pushed to CEP Roadmap Years 3-5	Existing Non-Idling Policy; CEP Transportation Sector	Demetra w- Transportation / TEO, CAO, ISD, Police	Current policy applies to truck traffic; need to assess feasibility of extending application and means of enforcement
CG.1	Enhance the County's whole-of-government approach to addressing energy matters	✓	1-2 Year, Rolling	Ongoing Effort	Ongoing	See Notes	Demetra; all of AIRE Team	As before, during Roadmap Years 1-2, OSEM/AIRE convened, provided project management and supervision, served actively under major County initiatives, and provided consultation and subject matter expertise to Plans, Programs and Projects across the government enterprise, including but not limited to DPR, CMO, AED, Facilities, Utilities, Transportation, Engineering Bureau, Equipment Bureau, Communications, APS, DIPSEM, CPD, and to the CMO and CPO. In addition to regional, state, national and international representation (e.g., MWCOCG, European Union, VESPN, VEPGA, PJMCCC, NVRC, and USGBC. In addition, Bureau Chief represents the County on a number of programs/projects with the GMU Virginia Climate Center.
CG.1	Formalize Intra-County/APS Climate, Energy, and Resilience Working Group (CER Group)	✓	1-2 Year, Rolling	Ongoing Effort	Ongoing	Multi-disciplinary and multi-sector	Steve	Created and supervised by AIRE, this working group meets quarterly; includes AIRE, FMB, FDC, APS, Equipment Bureau, and others.
CG.1	Form and deploy an Intragovernmental Department Directors' Climate Committee	→	1-2 Year	Discrete Project	Moved to CPO in CMO Dec-2022			No information available
CG.1	Develop CIP Cross-Reference Matrix	✓	1-2 Year	Discrete Project	Aligned w/ CIP		Steve, Demetra	Serves as accountability-progress measurement tool.
CG.1	As existing plans, projects, and policies are revised, and new plans, projects, and policies are created, the AIRE Team will work with other staff to incorporate CEP goals and policies into those efforts	✓	1-2 Year, Rolling	Ongoing Effort	Ongoing	Multi-disciplinary and multi-sector	Full AIRE team; Demetra	See Notes above under Line 46
CG.4	Recruit open position with benchmarking, dashboard, and climate/sustainability metrics tracking and visualization	✓	1-2 Year	Discrete Milestone Project	Complete	Bureau-level strategic planning	Demetra w- Steve	Recruited Drew Stilson with expertise in GHG metrics and other energy and carbon analytics
CG.4	<b>NEW</b> : Develop Sector / Sub-Sector Granular Breakdown of the sources of GHG emissions in Arlington; then convert to public, interactive web-based Dashboard	✓	1-2 Year	Discrete Milestone Project	Complete	Bureau-level strategic planning	Drew	Multiple applications, including internal and public education; assessing project/measure cost-benefit for capital and other investments; supporting grant applications, etc.
CG.1	Develop annual intragovernmental report to County Board	✓	1-2 Year	Recurring, Annual	Complete	All-of-government representation and reporting	Jenna, Steve and Demetra	<b>Additional Reach Activity</b> : rather than lengthy text report on AIRE climate-energy actions, Bureau Chief worked with staff to develop the ACCELERATE Report to 1) design ACCELERATE in a "virtual magazine" format; 2) apply an all-of-government approach to represent full County performance; 3) utilize visualizations of information and data; 4) feature key achievements; and 5) deploy and distribute a report (ACCELERATE) that is designed to stimulate public interest and use.
CG.4	Identifying resources required for comprehensive application and implementation	✓	1-2 Year	Recurring	Ongoing		Demetra w- AIRE Team	Supervise AIRE Team to map resources, tools, strategies and partnerships for Work Plans execution based on CEP Roadmap Cycles (Years 1-2, 3-5, 5-10, and 10+), and routinely model them for achieving CEP Goals.
CG.2	Mitigate regulatory, legislative, and transactional barriers to fully implement the CEP	✓	1-2 Year	Ongoing Effort	Ongoing	Actions include legislative review and comment, review and action under impactful SCC regulatory proceedings, and organize among VA governments	Demetra, Steve, Rich	Also includes work with County Legislative Liaison on priority bills; membership in PJMCCC and active on both Policy and Steering Committees; VEPGA Board membership; PJMCCC and Applied Economics Clinic - "Electric Justice: A Toolkit for the Mid Atlantic Region"; Membership in VESPN and active on both Policy and Steering Committee
CG.5	Participate in organizations that advance local jurisdiction climate and energy objectives, e.g., Federal Energy Regulatory Commission (FERC)	✓	1-2 Year	Ongoing Effort	Ongoing	Federal-level action, e.g., Rule 2222 and Distributed Energy Resources	Steve	Steve acts through his role on the Steering Committee of the PJMCCC
CG.5	Consultation with neighboring counties on community choice aggregation interest	✓	1-2 Year	Discrete Project	In progress	Formed multi-jurisdictional coalition within VA	Steve, Demetra	Steve has formed a coalition of VA jurisdictions across the State, interested in CCA or aggregated retail choice as means of fulfilling, at the least, all government operations electricity load with renewable resources. He coordinates with Demetra with CAO. Demetra works with CAO on detailed analysis of both and potential cross-over of the analysis for this purpose as well.
CG.5	Propose renewable energy subscription or other models to Dominion Energy	✓	1-2 Year	Recurring	Ongoing	Three separate proposals to Dominion have been declined as "no longer in their business model".	Demetra	Note that may be a function of the adoption of the Virginia Clean Economy Act; certain provisions may impact the ability to repeat transactions such as the Maplewood Solar Facility (County-Amazon) has been restricted by provisions of the VCEA
CG.3	Participate and be a leader in the Department of Energy Better Buildings Challenge	✓	1-2 Year	10-Year Project	Complete; Award Ceremony at White House	Based on minimum reduction of energy use intensity in government facilities combined, measured from a 2009 baseline	Steve, Drew w- FBM and FDC	Arlington's County portfolio enrolled in the program consists of more than 75 buildings and 1.9 million square feet. To date, improved and met 20% goal of energy performance by 23% from a 2009 baseline. Implemented a whole-building advanced metering solution at the Justice Center. The solution complements its facilities BAS by delivering energy savings with data-driven solutions ranging from monitoring, measuring, and verification to predictive energy optimization and recommendations. Other measures include fitting Lubber Run Community Center with a new state-of-the-art, highly energy-efficient, LEED Gold-targeted, net-zero-ready community center
CG.3	<b>NEW</b> : Participate and be a leader in the DOE Better Climate Challenge	✓	Invited by DOE off Better Buildings Challenge, rolling into 3-5 Year	Ongoing Effort	Ongoing	Reduction of GHG emissions (Scope 1 and 2) by 50%	Steve, Emily, Drew	10-year goal from year of registration
CG.4	Invest in energy technologies and infrastructure in County facilities and for County operations as part of the County's Capital Improvement Plan (CIP)	✓	1-2 Year	Recurring	Ongoing	Use of the Decarbonization Tool as asset in modeling energy performance and costs	Steve w- FMB and FDC	Decarbonization Tool completed Jan 2023; First Phase/Tier Facilities identified, assessed and modeled for upgrades using Decarb Tool; First Sites will move forward in 2023 and 2024; Tool covers new technologies and systems, renewables, potential storage, energy efficiency measures, etc., and other independent measures include decarbonization of fleets
CG.4	Create process for calculating/tracking all direct and indirect capital investments (e.g., buildings, fleets, utilities, Equipment Bureau, Affordable/Needs Housing)	±	1-2 Year	Recurring; progressive	Evaluated, not possible	Determined that this would require significant new staffing and other resources	AIRE	County Budget process is not compatible with a single-process tool; and tracking APS similarly is not currently possible with their systems.
CG.5	Develop modeling and decision-support tools, and upgrade existing reporting systems for high-performance/cost-effective design upfront and to measure outcomes and prove assumptions in post-construction operations	✓	1-2 Year	Discrete Upgrade Project	Complete	Upgrade of the E-CAP Reporting System to capture more granular intervals, installation of upgraded, expanded tracking systems; unanticipated year of trouble-shooting new Dominion product	Steve, Drew	Upgrades to E-CAP and EUI tracking and reporting; also publicly available on County website. <b>Additional Reach Activity</b> : unanticipated need to trouble-shoot new Dominion tracking/billing tool and to correct several faults in the Utility's system that disrupted monitoring, tracking and issuing correct billings as well as municipal EUI tracking systems.

CG.5 RE.1	Implement the Facility Sustainability Policy (Administrative Regulation) for County projects (to be updated FY25)	✓	1-2 Year	Recurring	Ongoing	Implemented on project-by-project basis; strategic planning; and coordination	Steve w- FMB, FDC and APS	Coordination on a routine basis; and quarterly in-person review through CER Group (see Line 44 above); <b>Additional Reach Activity:</b> Demetra and Stephen worked closely with Water Pollution Treatment Plant on Envision Design/Construction Standard for industrial/municipal facilities regarding construction upgrades under Solid Waste Master Plan
CG.5	<b>NEW:</b> Manage transition from C-Power to new vendor for energy generation and energy savings payments via PJM	✓	One-time management-income response	Recurring	Ongoing	Implemented under a PJM program to reward energy generation and savings by local governments	Steve	Working for WPTP to transition away from C-Power to new company contract for incentives awards
CG6.1	Early work to align and set new goals/analytics for the County Operations Energy Plan with the next cycle CEP/Climate Action Plan	✓	1-2 Year	Discrete Project	Ongoing	Early analysis/alignment of cost-benefit and impact analyses on measures, strategies, policies on County GHG inventory and 2040, 2050 CEP Goals	Stephen, Drew, Emily leading AIRE Team	Expectation that these efforts will also inform direct nexus with robust Behavioral Change and Market Transformation Program (already launched through AIRE's THINK BIG Initiative in 2022) b/c of private-sector choices and their large representation in the GHG inventory
CG.1 CG.8	Routinely assess best practices in the region, e.g., DCSEU, Montgomery County and country for providing technical assistance	✓	1-2 Year	Recurring	Ongoing	Progressive VA, regional, and national benchmarking	Demetra, AIRE Team	Multi-disciplinary / multi-sector; and includes financing mechanisms, incentive programs, policies, safety, also extended to international programs (e.g., Barcelona AMB transportation, micromobility, and urban heat island programs)
CG.1 CG.7	Begin the process of updating the CEP (e.g., GHG emissions inventory and community engagement), potentially as an integrated Climate Action Plan)	✓	1-2 Year, Rolling into Years 3-5	Recurring	In progress	Preliminary GHG sub-sector analytics; to align against MWCOG 2023 Jurisdictional inventories	Demetra; AIRE Team	GHG inventories 2020 through 2022 are faulty for use in generating new CEP/Climate Action Plan b/c 72% of GHG sources (buildings, transportation) were heavily distorted by COVID, and post-COVID conditions can be "normalized" from 2023 inventories
CG.7	Track and report on CEP implementation process	✓	1-2 Year	Recurring	Ongoing	Excel tracking; ACCELERATE	Steve, Drew, Emily, Jenna	interim, gathered into annual reporting
CG.1 CG.5 CG.8	Existing Facilities Upgrade Partnership (AIRE and FMB) New Facility Design and Site Plan Review	✓	1-2 Year	Continuing	Continuing	Formalize process and engagement for pre-analysis of new construction/existing facilities retrofits	Steve	Enhanced coordination / institutionalization for facility upgrades and application of Decarb Tool principles that focus on decarbonization.
CG.9	Track, detailed analysis and cross-departmental on federal funding opportunities	✓	1-2 Year	Continuing	Continuing	Facilities Site Plan Review	Steve, Paul	E.g., LRCC and AOMF Facility
CG.9	<b>NEW:</b> Prioritize federal, state and other funding and develop program designs and proposals	✓	1-2 Year, rolling into Years 3-5	Continuing	Continuing	Tracking is multi-sector, covering climate, energy, transportation, Schools, stormwater	Demetra Lead; AIRE Team	Bi-weekly meetings with consultant tracking and development consultant; Efforts on primary grant opportunities and VA DOE / VA DEQ on federal grant pass-throughs; coordination with other County departments such as Transportation, Transit, APS, ACCS, CPHD, AED, Facilities, Utilities, and Equity
CG.9	<b>NEW:</b> Develop strategic partnerships required under federal grant NOFO conditions and ranking of proposals	✓	1-2 Year, Rolling	Continuing	Continuing	Strategic selection of grants and program-proposal development to align where County needs and GHG emissions are highest, but little to no funding otherwise exists	Demetra Lead; AIRE Team	See attached 01-19-2024 Summary Slide Deck (for C2E2 January Meeting) for Grants Summary
CG.9	<b>NEW:</b> Deep development of regional and state grant proposals	✓	1-2 Year, Rolling	Continuing	Continuing	Includes other governments, community-based organizations, academia	Demetra	Northern Virginia Affordable Housing Alliance, GMU Virginia Climate Center, Virginia Clinicians for Climate Change, Arlington NAACP, Natural Resources Defense Council, Bloc-Power, Dominion Energy Virginia, Faith Alliance for Climate Action
CG.9	<b>NEW:</b> EECBG Grant Proposal/Submission re E-Bike Rebates	✓	1-2 Year, Rolling	Continuing	Continuing	Complex development of Regional and State Climate Action Plans and Multi-Sector Program/Project Designs and Portfolios	Demetra	Primarily under the Climate Pollution Reduction Grant Program (IRA), working parallel proposals as regional (under the MWCOG and statewide under the VA DEQ). Engaging AIRE Staff closely throughout process to enhance strategic skills in grant development and execution (including staff assignments to grant proposals for active support in execution if awarded).
CG.9	<b>NEW:</b> Management/Execution of Grant Awards	✓	1-2 Year, Rolling	Continuing	Continuing	Proposal includes forecast of # of vouchers possible under the funding	Led by Drew with AIRE Team	The Biden Administration funding formula cut the EECBG funds to Arlington by roughly 75% from the Obama Administration formula. This proposal is outcomes oriented, but will also demonstrate demand for e-bikes (which, typically, outstrips funding of these rebate programs by as much as 900%).
CG.9	<b>NEW:</b> Management/Execution of Grant Awards	✓	1-2 Year, Rolling	Continuing	Continuing	EPA Environmental Justice G2G Grant Award	Demetra Lead, with AIRE Team	Initial award, and opportunity for AIRE Team in active support on execution. This proposal was uniquely designed to develop both technical and financing tools for energy upgrade programs in disadvantaged, underserved communities, so all of Team (Rich, Steve, Paul, Drew, Jenna, Courtney and Emily) will collectively execute.
EBC.1	<b>NEW:</b> Transition of conventional Public Engagement Program to a Behavioral Change and Market Transformation Program	✓	1-2 Year, Rolling	Continuing	Continuing	Comprehensive Redesign and Expansion of Public Engagement and Information	Demetra-Initiated, AIRE Team collaborative executive led by Jeanna and Courtney	See actions below as examples of Program transition and expansion
EBC.1	Launch a Community-wide public action campaign (branding to come), aimed to build awareness, promote education, and encourage simple actions individuals can take to combat climate change	✓	1-2 Year, Rolling	Continuing	Continuing	Cross-cuts from micro-level (across other AIRE projects and programs) to macro-level in an all-of-government approach under the CEP - see notes for examples	Demetra-initiated, AIRE Team collaborative execution led by Jenna and Courtney	Launch of THINK BIG Initiative/Approach; includes upgrade of website, website tools, GHG Dashboards, AIRE Monthly Newsletter; THINK BIG event such as the All-EV and Emerging Technology Event of 2022, the EVSE Roadshow 3-Webinar Series Fall 2023; launch of ACCELERATE Annual All-of-Government Climate and Energy Report, and expanded outreach and participation in regional, state and national events
EBC.1	Develop Energy Ambassadors - mobilizing and training community and business leaders with a goal of reaching all corners of Arlington through Speaker's Bureau toolkits, Activity kits and other grab and go resources.	✓	1-2 Year, Rolling	Ongoing Effort	Ongoing Effort	Initial tools like TCO Analysis and Dashboards	AIRE Team	In-Development: Public Information modeled from Consumption-Based GHG Inventories and no-regrets actions by businesses and individuals; funding and resource contingent
EBC.1	Partner with commissions, community organizations, civic associations, schools, businesses, realtors, developers, and others to celebrate World Energy Day and other events throughout the year.	✓	1-2 Year, Rolling	Ongoing Effort	Ongoing	Multiple internal and external channels	Led by Jenna and Courtney	2023: Cross-cut with EV/EVSE Roadshow Series. Preliminary planning for 2024 focuses on climate adaptation dynamics.
EBC.1	Develop and promote EV Drive 'n Ride and Buildings Emission Reduction events; produce collateral and outreach.	✓	1-2 Year	Ongoing Effort	Ongoing	In 2023, reporting public focus on charging infrastructure and its reliability (especially in extreme weather)	Led by Jenna and Courtney	2024: will likely cross-cut with public engagement on Carbon Neutral Transportation Master Plan to respond to public focus on charging infrastructure mapping and reliability
EBC.1	Create information resources to educate people on energy matters.	✓	1-2 Year	Ongoing Effort	Ongoing	Expanding information resources, access through AIRE website, media channels	Led by Jenna and Courtney	2024: potential collaboration with the Energy Committee in recommendations for focus topics
EBC.1	Collaborate with stakeholders to promote CEP implementation.	✓	1-2 Year	Continuing	Ongoing			
EBC.1	Seek invitations to agendas of existing community group meetings and other events, e.g., civic associations, condominium associations, festivals to educate on energy matters.	✓	1-2 Year	Ongoing Effort	Ongoing		AIRE Team; Demetra combined	AIRE Team members plus Demetra have presented in local Civic Association, Community-Based Organization, Civic Organization, and state and national conference events, as well as international presentations (e.g., European Union IURC and NVRC-hosted events). Also, coordination with HOA and Condominium Associations.
LENS	<b>NEW:</b> Develop and Implement Equity-Based Outcomes Into AIRE's CEP Programs, Strategies and Measures (to reflect CEP Equity Lens)	✓	1-2 Year	Continuous	Ongoing	Collective commitment to seeking new actions and updating existing actions to reflect Energy and Climate Equity	Demetra w- entire AIRE Team	See Initial Actions below

LENS	<b>NEW:</b> NREL Technical Partnership on Barcroft Assessments and Analyses	√	1-2 Year	Continuous	Ongoing	Energy systems and options profiling and reporting on the Barcroft Community in partnership with NREL National Laboratory (associated with US Department of Energy)	Steve, Drew and Paul	Steve, Drew and Paul worked with NREL, in close liaison with AED and Jair Lynch to provide deep-detail analyses of Barcroft Community energy systems. This was a no-cost partnership offered by US DOE, with outcomes we can leverage under the EPA Environmental Justice G2G Grant (see above Line 75).
LENS	<b>NEW:</b> OSEM/AIRE development of new partnerships that enhance knowledge of and activity in underserved populations	√	1-2 Year	Continuous	Ongoing	This is reflected in direct partnerships beyond Affordable Housing to Community-Based Organizations, as well as program, project, and policy development	Demetra w- AIRE Team and key internal partners such as AED	New partnerships cover federal and state grant applications, upgraded and expanded design for the Geen Building Incentive Program, etc.
LENS	<b>NEW:</b> OSEM/AIRE development of BJA/IRA Grant Proposals with focus on underserved populations	√	1-2 Year	Continuous	Ongoing	IRA programs impose a "Justice 40" requirement, i.e., that 40% of awarded funding be dedicated to social vulnerability census tracts	Demetra w- AIRE Team	Currently, OSEM/AIRE Generated Proposals average 60% allocation to Social Vulnerability Census Tracts

LEGEND	
*	Corrolates to Sectors in the Community Energy Plan: Buildings, Resilience, Renewable Energy, Transportation, County Government, and Engagement/Behavioral Change; together with the Equity LENS
**	Execution: Icons indicating Action Status:
√	Action or Milestone is Completed
±	Either the Action is a Milestone Toward Future Completion or Unforeseen Conditions Require Additional Action to Complete;
→	Conditions Occurred That Pushed Action Schedule
→	Action Reassigned to Different Office