



AIRE Programs / Projects Update to C2E2 By Sector



Arlington County Office of Sustainability and
Environmental Management

23-May-2023

Community Energy / Climate Plan Goals



BUILDINGS

- Total community 2016 energy use reduced by at least 38% by 2050
- Incentive beyond-code building design, construction & operation



RESILIENCE

- Develop Energy Assurance Plan
- Develop energy resilience, e.g., micro-grids, diverse resources



RENEWABLE ENERGY

- Govt ops electricity 50% renewable energy by 2022; 100% by 2025
- Community @ 100% renewable energy by 2035



TRANSPORTATION

- Carbon neutral government fleet by 2050 (including APS)
- 0.5 mt CO₂e / capita / year by 2050 (present 2.7 mt)



GOVERNMENT

- County government carbon-neutral by 2050
- Design/construction of new & major renovation facilities should presume Net Zero Ready Targets



BEHAVIORAL CHANGE

- Engage and empower individuals to reduce energy use
- Design and implement programs that address equity issues

BUILDINGS

Policy

- Update to the GBI Ordinance/Program
 - Estimated Draft for Stakeholder Review – Nov 2023
- Update to C-PACE Ordinance/Program – July/September 2023

Technological

- Completion of C2C Initial NREL Partnership re the Barcroft Community
- Assessment of existing buildings and recommended measures for energy efficiency upgrades
- Developing advanced partnership(s) with NREL, including:
 - G2G below, if awarded
 - CCA/Aggregated Retail Choice, if legally feasible (see below under Renewables)

Federal Grants

EPA Environmental Justice G2G Grant – submitted 14-April; response ~ Oct-2023

BUILDINGS, cont

Federal Grants

EPA Environmental Justice G2G Grant – submitted; response ~ Oct-2023

UP-PRIZE - Phase 1 of Buildings UP, increase building energy upgrades for either “Equity-Centered Innovation” (\$400,000) or “Open Innovation” (\$200,000).

Winners from both pathways will also receive expert technical assistance. Phase 1 deadline July 18-2023, <https://www.energy.gov/eere/articles/us-department-energy-announces-buildings-upgrade-prize>

Home-Owner Managing Energy Savings (HOMES) incentives for whole-home energy savings upgrades

High-Efficiency Electric Home Rebates (HEEHRA) point-of-sale discounts to consumers for certain high-efficiency electric appliances and EE products

Greenhouse Gas Reduction Fund Grants – 1st phase through MWCOG to leverage 2nd phase Implementation Funds

Pollution Reduction Fund Grants – states apply for funding and distribute sub-awards

RESILIENCE

Policy

- Active role in the PJMCCC Steering and Policy Committee, to engage PJM re implementation of resiliency standards and programs, including promotion of renewables policies and processes

Technological

- Early- and mid-term budget and implementation planning for hardening critical government facilities against flooding, e.g., reposition electric panel

RENEWABLE ENERGY

Policy

- CCA and Aggregation Retail Choice legal/regulatory feasibility assessment; SOW is with County Attorney. Tentative schedule - June interviews.
- On-Site Solar, VPPA and other alternative financing approaches with third-party non-Utility developers has been integrated into the Master RFP.
- New SUN Solar Co-Op Project under review; 3rd-party partner, I-Chooser.

Technological

- Vetting solar options for EV charging

Projects

- Lubber Run On-Site Solar Roof with SunTribe. Vendor has asked for contractual changes that are legally impossible to make. Also, DEV has increased interconnection costs. Working with the CAO and SunTribe to determine whether project is still viable.
- FY 24 assessment of potential government sites re rooftop solar

TRANSPORTATION

Policy

- ARTBus Feasibility Study/Implementation Framework – draft Report and Framework estimated June 2023 for stakeholder review
- Carbon Neutral Transportation Master Plan. On-schedule for November finish. Draft Plan & 5-Year Implementation Strategy estimated Sept; including countywide EV siting plan and recommendations
- Working with DEV re Utility EVSE Program and options (DEV also piloting ROW, metered technology)
- Equipment Bureau vetting EV leasing option
- EVSE Policy Options – Literature Review in development for Fall 2023 completion

Projects

- Two government sites being developed for public charging; at least 7 other publicly-accessible government sites identified
- Four (4) bus EV-Pilot for the ARTBus Fleet (2025)

TRANSPORTATION, cont

Federal Grants

- MWCOG EVSE Partnership for June-2023 filing under CFI Federal Grant
- Developing Arlington County CFI Proposal for May 2024
- Working with APS re School Fleet
 - Identified Clean School Bus federal grant opportunity
 - Researching IRA and IIJA for School Bus charging infrastructure grant(s)

GOVERNMENT

Policy

- Pending **CCA/Aggregation Assessment**, optional task to include benchmarking and draft language re community choice aggregation and/or retail choice legislation for the Commonwealth

Technological

- **GHG Analytics Assignment** complete – community-wide sector breakdown of emissions by sector and sub-sector

Projects

- Multiple projects in development or design, including Arlington Cultural Center
- **Plan Langston Blvd**, entering updated internal review phase May/June 2023
- **AMOF** pre-construction proceeding on-schedule
- **Solid Waste Master Plan** (Envision, “LEED for Industrial Applications”)
- **Fire Station 8 Solar Roof** (CIP)
- **CEP Roadmap Years 3-5** In-Progress (may incorporate “no regrets” consumption-based measures)

BEHAVIORIAL CHANGE / MARKET TRANSFORMATION

THINK BIG

- Next major event – Jan 2024 ARLINGTON RESILIENCY SUMMIT

Communications

- Electric Vehicle/EVSE Support Activities, including EVSE Community Survey/Poll (Summer 2023)
- Annual Report Jan-Feb 2024 for 2023 (ACCELERATE)

Programs

- Redevelopment of the Green Home Choice Program

Federal Grants

- Final design and application of EECBG Funds