

Climate Change, Energy, and Environment Commission (C2E2)
Draft

Summary of January 24, 2022 Meeting
Virtual Meeting

Members Present: Liliana Duica, Carrie Thompson, Jonathan Morgenstein, John Bloom, Joan McIntyre, Kevin Vincent, Stephen D'Alessio, Emily Emery, Joshua Griset, Mikaila Milton, Majdi Shomali, Timothy Effio, Gilbert Campbell, Shawn Norton,

Members Absent: Linda Delgado

Guests: Judy Collins, Michele Arington, Bernard Berne, Katherine Roberts,

Staff Present: Adam Segel-Moss (DES), Demetra McBride (DES), Rich Dooley (DES), Stephen Burr (DES), Charles Njoku (DES),

1. Public Comment on General Topics

-None-

2. November and December 2021 Meeting Minutes

Minutes from both months were discussed, amended, and approved unanimously.

3. Old / New Business

Demetra McBride, the Bureau Chief for the Office of Sustainability and Environmental Management provided written updates prior to the meeting. Ms. McBride agreed to provide these monthly to the Commission to keep them abreast of current work and hot topics. The written update is provided at the end of this document for reference.

The Commission moved and unanimously approved the following positions:

- Joan McIntyre as Chair – C2E2 Chair
- Carrie Thompson – C2E2 Vice Chair
- Timothy Effio – Energy Committee Chair

Joan McIntyre raised the possibility of the C2E2 and County exploring community choice aggregation more aggressively. The Commission discussed pushing the Board on this through a letter.

Carrie Thompson is the Chair of the C2E2s Solid Waste Committee. Adam Riedel gave an update on the zero-waste work. A visioning meeting will kickoff the process in the coming months. The state requirement for a solid waste plan will be merged with the 2015 zero waste resolution. The goal of the effort is to divert 90% of waste from landfill by 2038. The expanded committee will include the business community, schools, restaurants, residents, and others.

John Bloom provided an update on the Solids Master Plan process to assess and upgrade the Water Pollution Control Plan. The central point of discussion is the use of biogas that could be generated from the plant. Since the last update, the Commission received the executive summary of an engineering report and answers to questions that were previously posed. There is an upcoming advisory group meeting coming in early February. There should be more information and discussion in advance of the February C2E2 meeting.

Liliana Diuca noted that the third SPRC meeting for the Penn Place project is happening concurrent with this meeting. The project has improved in dark sky lighting, energy, and biophilic elements. The project is very innovative and moves beyond what most other projects have committed to. The main sticking point is that they are still planning to use natural gas for retail clients.

Majdi Shomali noted that the Macy's site SPRC is in process. He plans to use the C2E2 SPRC template once more information is available from the projects.

Mikaila Milton provided an update on the NRJAG meeting and noted that the group received an update on the SPRC meeting. She also noted that she volunteered to support the Bill Thomas Awards Committee.

Jonathan Morgenstein provided an update from the Energy Committee (EC). The Energy Committee invited the County Manager to their next meeting on February 9. The specific request from the EC is to hear how the Manager is addressing Board Member Dorsey's guidance to address the 'staffing model and budget necessary to address several sustainability-related items.' Jonathan also put forth Kip Malinosky for a vote to join as an EC member. The Commission voted unanimously to add Kip to the EC.

Stephen D'Alessio noted that he has worked on the Marbella Apartment SPRC letter. He noted that he will talk more about that once the Commission reviews the letter in the meeting.

Gilbert Campbell provided an update on the work he has done with his company and nonprofit. He co-founded a company a decade ago called Volt Energy Utility. Volt Energy Utility is an environmental, social, and governance driven utility-scale solar energy development company that partners with their clients to assist with the convergence of:

- Decarbonization Goals
- Emissions Goals
- Diversity, Equity, and Inclusion Goals
- Environmental Justice Initiatives

The company has worked to address the utility scale landscape and equity specifically. They came up with the concept of the environmental justice PPA. This focuses on areas where energy generation is the dirtiest and most impactful to black

and brown communities. The Sharing the Power Foundation was founded to focus on this. This is a separate 501C3 that is advancing environmental justice and an inclusive clean energy future. The result is two-pronged – environmental health and economic justice.

Demetra asked if the nonprofit or Volt have partnered with local governments. Gilbert noted that no partnerships are in place at this time. Demetra noted an interest to discuss further opportunities related to this work and the County energy and climate implementation.

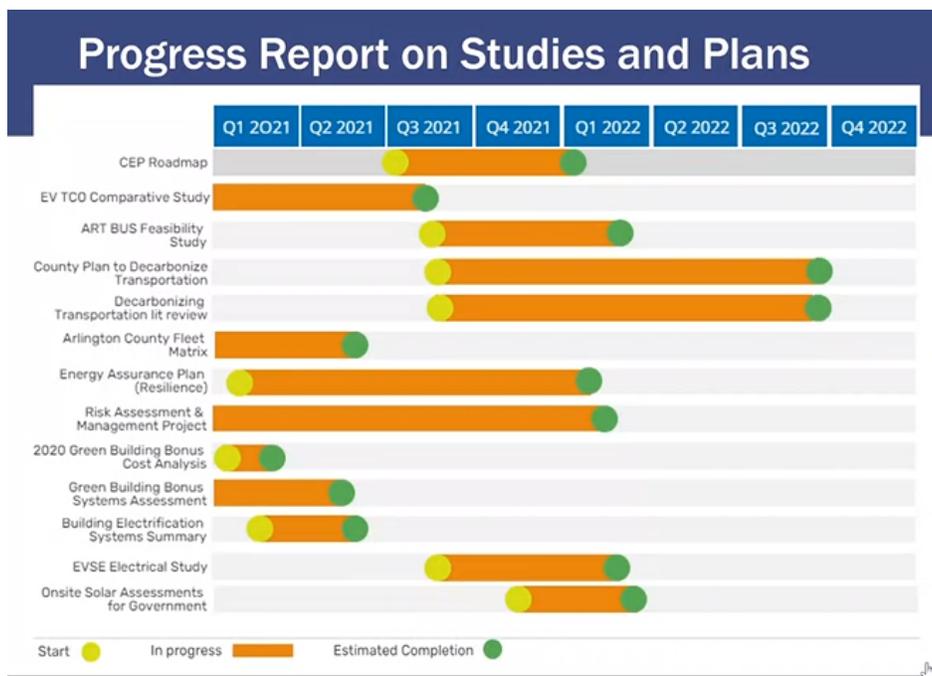
4. Work Plan and Annual Report

The Commission discussed and amended the 2022 Work Plan and Annual Report from 2021. Priority objectives were included in the opening of the Work Plan to focus effort in the year ahead.

The Commission unanimously approved both. They will be sent to the Board and County leadership.

5. Roadmap and Studies/Reports Timeline Updates

Demetra provided an update to the Commission, noting the milestones for current and past reports, studies, and plans in the chart below. Demetra noted that the draft Roadmap will be made available to the Commission by the end of the week.



Kevin Vincent asked about the EVSE Electrical Study. Demetra noted that this is the charging infrastructure study. It is an initial study of options and contracting to install

chargers. Demetra offered to send out the scope for the Decarbonization of Transportation Master Plan effort. The chargers would be both on public and private charging. Kevin agreed that it would be helpful to see that scope.

John Bloom asked about the completed studies such as the EV TCO, Fleet Matrix, 2020 Green Building Bonus Cost Analysis, Green Building Bonus Systems Assessment, and Building Electrification Systems Summary. Demetra noted that all of this is public work and available to the Commission. Tim and John Bloom thanked Demetra for that openness and asked for all completed studies to review. Demetra agreed and noted that she would send those to the Commission this week. She noted that the building electrification systems summary is being updated by Steve Burr. He found some gaps in it and that it isn't as complete as it should be. It may take a bit longer to provide that study but it will be shared once it is final.

Tim specifically asked about the EV TCO study. Demetra detailed the study and nuance associated. Tim noted that he couldn't find it on the Rethink Energy webpage. Demetra noted that she would send it on to Tim and the Commission.

John Bloom asked for clarification on the process for the Roadmap going forward. He asked what engagement and Board or Manager action would be undertaken. Demetra noted that the Board has been engaged and staff are awaiting further guidance. Joan asked what level of public comment staff are expecting after the draft is released. Rich noted that the Roadmap would be put on a public website for comments. Comments will be accepted, detailed in a spreadsheet, and either note where comments were incorporated or why not.

John Bloom thanked Demetra for the detailed update. Demetra noted that she would be happy to provide these written and verbal updates on a monthly basis. Tim noted that it would be helpful for the Commission and EC to get these updates both. Demetra agreed to provide written updates in advance of the EC and C2E2 meetings.

7. Letters – 2025 Clarendon, Marbella Apartments, ART Bus O&M Facility

The Commission discussed, amended, and unanimously approved letters for the following projects:

- 2025 Clarendon
- Marbella Apartments
- ART Bus O&M Facility

The Commission asked to send the Marbella and ART Bus letters this month but withhold the 2025 Clarendon letter until the project is closer to Board action – likely in late February.

Meeting ended at 8:49 p.m.

C2E2 UPDATE ON AIRE/COUNTY CEP ACTIONS 01-24-2022

Demetra McBride – Bureau Chief

Office of Sustainability and Environmental Management

Legislative. This session is, as expected, critical for the energy and climate sector. In general, we are making recommendations to Oppose bills. Even when bills are positive on their face, often we recommend “Needs changes”. In general, the bills OSEM is tracking fall into general areas:

- Suppress community solar. These bills mainly focus on making community solar impractical or unattractive by 1) raising costs, 2) increasing the difficulty of permitting, and 3) limiting land space where small-scale solar can be installed.
- Withdraw from RGGI. In each case, we have recommended a Priority Oppose.
- Divert RGGI Funds from their intended purpose. Again, we Oppose.
- Amending the definition of clean energy and promoting alternative use. E.g., a bill that would permit the use of “waste coal”, qualify it as reusable clean energy, and make DEV customers pay a possible total of ~ \$1 Billion to keep operational a red-ink coal plant in Appalachian Power’s service territory. For those of you interested in more info on just how toxic, expensive, and harmful waste coal plans can be, <https://www.energyjustice.net/coal/wastecoal>
- Bills terminating the VA Clean Economy Act as well as the Community Flood Preparedness Act. In addition, bills that would seem to alter any reasonable RPS standard of the VCEA.
- Expand IOU control of energy efficiency programs. We have generally opposed bills that expand measures for energy efficiency programs. These are failed programs with de minimis uptake, and their minor conversion rate is not a function of not enough eligible measures, but of program design, program portfolio, customer and contract comfort and quality assurance, etc. Also, these bills address incentives on already-completed projects and this makes the unrealistic presumption that disadvantaged communities can afford the full upfront freight, and on just the possibility of incentives.
- What we are not seeing. No on-bill repayment or on-bill finance. No community choice aggregation. No allowance for local government partnerships, which would provide far more successful and cost-effective energy efficiency programs. Many of these bills signal a consolidation of power in for-profit supra-monopolies with priority in shareholder dividends, including remote and/or international shareholders and stock portfolios -- essentially, corporatization of jurisdiction’s ability to define, plan, schedule, and implement energy and climate action.
- Stormwater. Again, we have seen bills that divert RGGI funding for other than intended purposes, e.g., one bill reassigns RGGI funding to increase property buy-outs (175% of assessed value) under a Presidential declared emergency (and would even claw back all existing RGGI fund balance). Also, even the “good bills” under Stormwater focus exclusively on coastal vulnerability and support, and wholly ignore inland/urban flooding.
- Environmental Quality. Not surprisingly, a number of bills that terminate the authority of the Air Quality and Water Quality Boards over, well, air quality and water

quality. Please note that we have worked with NVRC on a regional letter, signed by City Council and County Board members (in our case, Libby Garvey and Matt de Ferranti), to the Air Quality Resources Board.

County CEP Execution.

Planning/Studies. This is a sampled overview. See attached graph for all Plans/Studies.

- AIRE/CEP Roadmap (Rich). The first full draft of the Roadmap is complete, and the AIRE team and Bureau Chief have commented. A clean(er) version is being updated for distribution to C2E2 and Energy Committee members the week of January 24. Note Greg Emanuel and Mike Moon are still reviewing.
- Energy Assurance Plan (Rich). On-Schedule for completion Summer 2022
- ARTBus Feasibility Study. Launched with schedule to complete by August 2022. Kimley-Horn is the consultant, and is meeting with Stantec on AMOF.
- Arlington Plan to Decarbonize Transportation. Hard launch 01-24-2022, with a Core Team that includes AIRE, Transportation (multiple divisions), Facilities, APS, Utilities, ARTBus Transit, DES Communications and DES Finance. On a roughly monthly basis, a larger Stakeholder Group will be convened on key Tasks, and that expands divisions to include OEM, Fire and Law Enforcement, CPHD, DPR, DHS, Equipment Bureau, Libraries, DTS, Real Estate Bureau, and Purchasing/Procurement.
- Update and Completion of Building Electrification Study. Stephen Burr will be running this project, possibly with Steven Winters & Associates as consultant.

Tools.

Building Upgrade Decision-Support Tool (including electrification). See below this is also in the Budget category, to be developed by Stephen Burr and in coordination with Facilities.
E-Cap. Charles and Stephen Burr worked to update the E-Cap tool, to provide greater performance and sensitivity to energy usage fluctuations and flagging.

Renewable Energy/Direct Actions.

- EVSE Contracting. Helen Reinecke-Wilt is working on a possible agreement with Electrify America and/or EVGo. Helen has managed a County agreement to ride the current Fairfax EVSE agreement with ChargePoint, as we prepare the Master RFP.
- Solar Co-Op. Summarizing the 2021 cycle, 106 systems were installed (a 200% increase over any preceding year); plus 20 EV chargers and 5 battery back-up systems. The total solar added (cumulative) under the Program since 2014 is over 3148 kW, reflecting almost \$9 Million in renewable energy investment.
- PPA re Lubber Run Community Center. Note that SunTribe has reached out, notified it cannot execute under the contracted costs, and wants to renegotiate. There are trade sanctions and distribution chain interruptions that are affecting existing on-site solar projects for local governments across the nation. Considering the prudence of letting our Master RFP (see below) govern these activities.
- ICF Task Order. Rapid engagement of sub-contractor experts on renewable energy wholesale market, to assess and project impacts of recent stressors, potential impact of BBB investments in domestic PV production, development of risk and hedge language for PPA and VPPA contracts, CCA market analysis support, etc.

Additional Cross-Departmental Projects.

- Solids Master Plan. Stephen Burr and Charles Njoku are working with engineers at the Water Pollution Treatment Plant. Early coordination now; design procurement and phase will launch in calendar year 2022.
- Special Project Review. Early discussion with Utilities to revisit Minor Hill potential for solar, but possible element of future microgrid.
- **MASTER RFP DEVELOPMENT**. AIRE is currently developing a new Master RFP that will build upon existing sector-buckets in existing contracts, and update to include emerging issues in storage, microgrids/resiliency, clean transportation, tools and analytics, emerging markets and financial mechanisms, building science, etc.

EV Fleet Replacements/EVSE. There are 11 additional replacements scheduled for FY 23, assuming availability (distribution chain has been disruptive); and planning for a larger replacement factor in FY 24. Also see above, Helen's work on EVSE contracting.

Green Building Incentive Bonus Program

Cadmus Task Order to review Calendar Year 2021 and develop metrics reports on Program. Rich and DJMac working with Cadmus and AIRE staff (Charles) to quantify GHG emissions impact of the Program.

Budget FY 23

- Operating Budget – we are advised that initial decision-making will occur in February on budget requests (all County budget requests).
- PAYG Budget – AIRE has collaborated with Facilities, the Equipment Bureau, and DES Finance to develop capital investment requests across all three divisions related to, e.g., building upgrades, EVSE installation, EV replacement schedules FY 23-24, government site on-site solar assessments, Stephen will develop the Building Upgrade Decision-Support Tool (with electrification), and special EVSE installations on government properties for public access. Again, initial decision-making is expected late Feb/early March.
- Note, regarding both proposed budgets, AIRE and other government agencies referred to the Draft Roadmap, in the near-term action timelines.

Staffing. AIRE worked with HRD to edit the Job Bulletins for the current two open positions, which were posted on December 31, 2021. Rich and DJMac are now reviewing initial batch of pre-qualified applicants and conducting SEM reviews. Note that one of these positions has been adjusted to include metrics, analytics, dashboards, GIS, and other tracking and reporting skills.

Multi-Jurisdictional Coordination.

- Large-Scale Renewable Energy. Helen and Rich have been working with a cohort administered by the World Resources Institute (WRI) and the Rocking Mountain Institute (RMI).
- PJM Cities Counties Coalition. Administered by WRI, including more than a dozen local governments in the PJM service territory. The cohort is currently focused on strategic communications with FERC (Rule 2222, etc.)

- Community Choice Aggregation (CCA). We are exploring this option on a number of fronts, with multiple members of AIRE acting through long-standing relationships and new positions (e.g., Board of VEPGA).
- NOVA/NVRC. Rich is representing in cross-jurisdictional initiative for a regional Green Bank.
- NVRC. Working with NVRC on new multi-jurisdictional (Boston, Arlington) on international scale (Barcelona, International Urban and Regional Cooperation Program of the EU) re energy and climate planning.
- MWCOG BEEAC. Helen is the key POC and representative; Rich also attends.
- MWCOG Air Quality Advisory Committee. DJMac attends to support Board representation (Karantonis).