



County of Fairfax, Virginia

MEMORANDUM

DATE: March 9, 2021

TO: Board of Supervisors

FROM: Bryan J. Hill
County Executive

SUBJECT: Fairfax Green Initiatives Update

On February 5, 2019, the Board of Supervisors (Board) unanimously approved the [Fairfax Green Initiatives Board Matter](#), introduced by Supervisors Storck, Foust and (now Chairman) McKay. The Board Matter outlines 19 energy-related action items for Board offices, three Board committees, the Tree Commission and the County Executive. On July 28, 2020, the Board unanimously approved a follow-on motion, the [Fairfax Green Initiatives #2 Board Matter](#), introduced by Supervisor Storck. The second Board Matter includes 14 additional environment and energy-related action items for the County Executive, County Attorney, Land Use Policy Committee and several county departments and agencies.

Quarterly updates on Fairfax Green Initiatives are provided to the Board. This memorandum highlights progress on Fairfax Green Initiatives #1 and #2 action items that has occurred since the Board was last updated in November 2020. In addition, an updated Fairfax Green Initiatives Implementation Matrix, which staff developed to track completed, ongoing and anticipated consideration of action items, is included as Attachment 1.

Updates on Fairfax Green Initiatives #1 Action Items

- **Action item 4b** directs staff to brief the Board's Environmental Committee on options to increase the pursuit of grant and cooperative agreement funding for energy efficiency, conservation, weatherization, cogeneration, renewable energy, energy resilience and greenhouse gas emission reductions. The Department of Public Works and Environmental Services (DPWES), the Department of Economic Initiatives (DEI) and the Fairfax County Department of Transportation (FCDOT) all have ongoing initiatives in this area.

DPWES-Wastewater Management Division, as reported in a previous update, has contracted with an energy service company (ESCO) to perform an investment grade audit of the Noman M. Cole Pollution Control Plant. A preliminary report has been submitted but requires extensive review and coordination before being finalized. Staff is working with the consultant on reviewing the report and the recommendations.

A previous update detailed the launch of the Relay pilot project, an electric, autonomous

shuttle that transports riders to and from the Mosaic District and the Dunn Loring Metro Station. The project is a collaboration between DEI and FCDOT and is funded by a Virginia Department of Rail and Public Transportation (VDRPT) grant with additional support provided by Dominion Energy and the Virginia Transportation Research Council. Recently, FCDOT and DEI submitted an application to VDRPT to support a six-to-12-month extension of the Relay pilot project. Although testing of the technological components of the project has proceeded according to schedule, ridership has been far less than originally estimated due to the pandemic. The extension will allow staff to better capture riders' attitudes toward this new mobility technology and its potential impact on transit.

Additionally, the Virginia Tech Transportation Institute (VTTI) in partnership with FCDOT, DEI, the Virginia Department of Transportation (VDOT), Dominion Energy, VDRPT and the Virginia Clean Cities Coalition has submitted two concept papers to the U.S. Department of Energy's (DOE), Vehicle Technologies Office, Call for Fiscal Year 2021 Research Funding Opportunities. Both concept papers were collaboratively developed by the proposed teams with specific input from DEI and FCDOT. Teams will be notified of DOE's response by the end of March 2021. Those teams advancing to the full proposal stage will have approximately 30 days to submit their proposals.

Finally, FCDOT presented at the Board's Transportation Committee meeting in November 2020 on electric transit vehicles. Subsequently, FCDOT submitted a state grant application and a federal grant application for funding to initiate a four electric transit bus pilot program in Fairfax County. FCDOT should learn the outcome of those applications by mid-2021. In the meantime, FCDOT is continuing to develop the details of the pilot program.

- **Action item 4e** refers to the Environmental Committee consideration of R-PACE or other capital funding options to support residential energy use reductions. Implementation requires the passage of enabling legislation in the Virginia General Assembly. While enabling legislation was not taken up in the 2021 session of the General Assembly, there was action related to R-PACE in the proposed State Budget.

In the [Joint Conference Committee Report on HB 1800](#), agreed to by the House and Senate on February 27, 2021, item 125 #1c directs the Virginia Department of Mines, Minerals and Energy (DMME) to establish a work group to assess the feasibility of creating a Virginia R-PACE program. The work group shall include the Virginia PACE Authority, Virginia Bankers Association, Virginia Realtors Association, a PACE capital financing institution representative, solar energy contractor, and a representative of the home building industry. Public comments are to be solicited and evaluated. The amendment item directs DMME to submit a report with its findings to the Chairs of the House Appropriations and Senate Finance and Appropriations Committees no later than December 1, 2021. The report shall incorporate findings on the status of federal regulations to support R-PACE and market interest, as well as draft legislation and guidelines on the implementation and administration of a Virginia R-PACE program.

- **Action item 6c.ii** directs the County Executive to report on increasing county leadership and accountability for climate change initiatives, particularly the inclusion of energy management criteria in performance evaluations of departmental heads and senior executives. In February 2021, the Department of Human Resources issued an updated performance evaluation form for departmental heads that includes criteria related to the Environmental Vision and green initiatives. Specifically, in an existing rating section on managing resources, criteria has been added that departmental heads demonstrate awareness of and effectively lead the department in the stewardship of the Fairfax Environmental Vision by establishing departmental initiatives to comply with the Environmental Vision and Fairfax Green Initiatives; leading staff to be good stewards of the environment and incorporate environmentally friendly, green initiatives in the department; and encouraging staff to conserve natural resources and protect the environment.
- **Action item 6c.v** directs the County Executive to develop partnerships like the DOE's Better Buildings Challenge. Fairfax County was recently a partner in a hacking event to encourage solutions for addressing equity and sustainability in transportation, health, infrastructure, energy and more. DEI is exploring a pilot project with a selected team to support economic recovery and community development in the county.

Additionally, DEI is partnering with FCDOT and Smart City Works to lead a bike and pedestrian innovation challenge in April 2021. DEI will implement a pilot project to evaluate the winning solution(s).

Updates on Fairfax Green Initiatives #2 Action Items

- **Action item 1a** directs DPWES to research and report on options for expanding the internal county compost pilot to the community as part of the county's trash/recycling services or drop off locations. At the February 2021 Environmental Committee meeting, DPWES presented on organics collection options and ongoing and proposed composting pilots, including the food scraps drop-off program at the I-66 Transfer Station and I-95 Landfill, which launched in November 2020. DPWES is working to pilot organics collection at up to four farmers markets in 2021. The Fairfax County Park Authority (FCPA) is working with staff to evaluate sites and possible opportunities.
- **Action item 2a** directs the County Executive to update the vehicle purchasing policy to accelerate purchases of county electric vehicles (EVs) for the fleet of eligible sedans and expand the county's charging infrastructure to support additional EVs. One hundred percent of eligible vehicles scheduled for purchase in FY 2021 shall be replaced with EVs and the infrastructure needed can be supported in FY 2021. As noted in the November 2020 update, the Department of Vehicle Services (DVS) planned to replace one hundred percent of the eligible vehicles scheduled for purchase in FY 2021 with EVs. DVS has since submitted a purchase order for these 14 EVs in anticipation of the Facilities Maintenance Department (FMD) installing the required infrastructure in FY 2021.

A previous update included the Department of Procurement and Material Management's (DPMM) November 4, 2020 announcement of a contract with an electric vehicle charging services vendor to provide charging infrastructure at county facilities. While staff is proceeding with an implementation plan and schedule at Board-owned facilities, FCPA notes that they are currently prohibited by state law to resell electricity through EV charging stations. However, FCPA is working with the County Attorney to identify possible future options, including revisions to state statutes.

- **Action item 2b** directs staff to return to the Board with a schedule to accelerate the replacement of vehicles and infrastructure to support electric vehicles, with the associated investment required, before the end of calendar year 2020 to inform the FY 2022 budget. As stated in action item 4b under Fairfax Green Initiatives #1, FCDOT recently submitted a state grant application and a federal grant application for funding to initiate a four electric transit bus pilot program in Fairfax County. FCDOT should learn the outcome of those applications by mid-2021. If the grant is approved, these four buses will replace four current hybrid diesel Fairfax Connector buses.
- **Action item 4a** directs the OEEC to provide a plan to the Environment Committee for consideration to implement a 5-cent plastic bag fee in 2021, as now allowed by law. At the December 2020 Environmental Committee meeting, staff presented on a proposed implementation process and timeline, including community engagement efforts and the development of an ordinance. Following direction from the Board, staff is working with regional partners to request additional implementation guidance from the state.
- **Action item 6b** directs the Department of Planning and Development (DPD) to evaluate and report to the Land Use Committee on further strengthening the county's Comprehensive Plan policy regarding provisions for EV ready or EV infrastructure during the rezoning process in private parking facilities. DPD has the lead role on this item, with Land Development Services (LDS) providing support. As noted in the November 2020 update, Electric Vehicle Charging (EVC) is proposed as a new use as part of the Zoning Ordinance Modernization (zMOD) project, to encourage EV usage in the county. A public hearing on the zMOD proposal was held by the Planning Commission in January 2021; a public hearing before the Board is scheduled for March. Staff is proposing a delayed effective date for the new Ordinance. In the interim, a revised interpretation was issued in January 2021, allowing installation of EVC spaces in accordance with the new proposed standards.

As described in an earlier update, LDS continues to facilitate and expedite the necessary site-related approvals and permitting reviews for EVC stations. Additional information regarding EVC stations is provided via a dedicated LDS [webpage](#).

DPD and LDS continue to develop a parking study, expected in 2022, in order to update, among other things, the county's parking rates for most uses. Based on the results of the study, DPD may evaluate and consider developing draft recommendations for EV parking space rates and related infrastructure needs. Based on the anticipated timing of the above noted studies, staff will coordinate with the Planning Commission's

Environmental Committee and the Board's Land Use Policy Committee when information is available to seek input and review, likely in 2022. Based upon the outcome of these discussions, DPD will then review the Comprehensive Plan's Green Building policy to identify potential changes that would result in updated guidance for this item.

- **Action item 6c** directs DPD and the County Attorney to provide a report analyzing requirements and impediments for new commercial construction and incentives for new residential construction to incorporate community solar and/or geothermal systems in project planning. As detailed in the November 2020 update, Solar Power Facilities and Solar Collection Facilities are two new uses proposed as part of zMOD to more readily incorporate solar projects in county and community facilities, commercial construction projects and individual residential sites. A public hearing on zMOD occurred at the January 28, 2021 Planning Commission meeting; another public hearing is scheduled for the March 9, 2021 Board of Supervisors meeting.

The November 2020 update also described the processes LDS has in place to expedite reviews for residential and commercial solar and geothermal systems and waive permitting and review fees for residential solar projects. LDS provides guidance on residential solar systems for homeowners through the [Residential Solar Panels](#) publication, which includes guidance regarding the permitting process as well as typical design details that can limit the expense associated with developing approvable design documents. Since the last update, LDS developed a dedicated geothermal [webpage](#) to inform customers of the associated permitting and review processes. LDS intends to incorporate this material into future outreach opportunities to support customers who desire to install these systems.

LDS continues to support installation of solar panels on Fairfax County government buildings and public school facilities by expediting the building review and permitting components. An LDS Project Manager has been assigned to facilitate the submission process.

- **Action item 7a** directs the County Executive to report on the feasibility of creating an Energy Efficiency Funding Pool (EEFP) pilot and to consider potential Public Private Partnerships (PPP), existing non-profit housing partnerships and other energy efficiency-focused organizations to provide a competitive grant process for funding local entities to provide workforce energy efficiency and weatherization (green jobs) training opportunities while upgrading the energy efficiency on eligible low-income and seniors homes. DEI continues to partner with the Economic Development Authority to segment key green economy sectors in Fairfax County in order to understand areas of competitiveness and potential reskilling opportunities for displaced workers. This work is in support of the COVID-19 Economic Recovery Framework.

The recently completed Economic Recovery Framework identified a sub-sector of green jobs as a growing specialization. That, together with research with the Economic Development Authority to understand competitive green sectors and in-demand occupations, will help inform opportunities for additional green jobs training. DEI is

sharing this with county workforce development providers and incorporating in business support initiatives.

- **Action item 7b** directs the County Executive to report on the feasibility of creating a Fairfax Green Bank. In fall 2020, an internal work group made up of staff from OEEC, DEI, the Department of Management and Budget (DMB), and the Department of Finance (DOF) worked with OCA to determine the feasibility of a Fairfax Green Bank. At the time, OCA determined that the Board lacked enabling authority to establish a green bank, as the General Assembly had not adopted green bank legislation, and authority could not be implied from existing law. At the direction of the Board, staff drafted a bill for the 2021 session of the Virginia General Assembly to enable a locality to enact an ordinance establishing a green bank. The bill (HB 1919), which was sponsored by Delegate Kory, and as amended to include consumer protection standards, passed both the House and Senate and is currently awaiting the Governor's signature. As a result of the anticipated enabling legislation, staff is preparing a presentation for a future Environmental Committee meeting to discuss options and feasibility of a Fairfax Green Bank.

If you have comments or questions on this memo, please contact Kambiz Agazi, Director, Office of Environmental and Energy Coordination, at 703-324-1788 or at kambiz.agazi@fairfaxcounty.gov.

Attachment: Fairfax Green Initiatives Implementation Matrix

cc: Joseph M. Mondoro, Chief Financial Officer
Rachel Flynn, Deputy County Executive
Christopher Leonard, Deputy County Executive
Kambiz Agazi, Director, Office of Environmental and Energy Coordination



Fairfax Green Initiatives Implementation Matrix

On February 5, 2019, the Board of Supervisors (Board) unanimously adopted the [Fairfax Green Initiatives Board Matter](#), introduced by Supervisors Storck, Foust and (now Chairman) McKay to expedite consideration and implementation of 19 energy-related action items.

On July 28, 2020, the Board unanimously adopted the [Fairfax Green Initiatives #2 Board Matter](#). Introduced by Supervisor Storck, the Fairfax Green Initiatives #2 Board Matter includes 14 additional environment and energy-related action items.

In June 2019, staff developed an Implementation Matrix to track progress on Fairfax Green Initiatives action items. For each action item, the matrix identifies the County department(s) charged with implementation, whether the item is complete or ongoing, whether the item will be addressed through the ongoing planning process for the Community-wide Energy and Climate Action Plan (CECAP) or through implementation of the Joint Environmental Task Force (JET) recommendations, when consideration for action items not yet addressed is anticipated, and a summary of action to date. The matrix is updated on a quarterly basis; the latest version is included below, with amendments shown in **bold**.

Fairfax Green Initiatives #1

Action Item	Lead Dept.	Complete	Ongoing	CECAP	JET	Anticipated Consideration	Action to Date
1. Direct the County Executive to report to the Environmental Committee no later than June 2019 on:							
1a. A draft process, resources and timeline to develop a CECAP.	OEEC	X		X			Staff presented a draft process, resources and timeline for a CECAP at the June 2019 Environmental Committee meeting. The Board approved funding in September 2019, and the CECAP planning process kicked off in January 2020.



Fairfax Green Initiatives Implementation Matrix

Action Item	Lead Dept.	Complete	Ongoing	CECAP	JET	Anticipated Consideration	Action to Date
1b. A process for contracting with an ESPC or recommend other such initiatives that produce a similar outcome and timeframe.	OEEC	X					Staff presented a process to contract with an Energy Service Company (ESCO) at a June 2019 Environmental Committee meeting. Following Board endorsement, two ESCOs were selected to begin an Investment Grade Audit process that is nearly complete. Staff is reviewing one ESCO's report now and is expecting the other ESCO's report soon.
2. Refer to the Development Process Committee for discussion and consideration whether County staff should review and report back to the Committee on the costs and benefits of the following:							



Fairfax Green Initiatives Implementation Matrix

Action Item	Lead Dept.	Complete	Ongoing	CECAP	JET	Anticipated Consideration	Action to Date
2a. Comprehensive Plan and Zoning changes that would incentivize and support more environmentally sustainable development.	DPD		X	X		CY2021	<p>As part of an ongoing Zoning Ordinance Modernization (zMOD) project, new uses have been proposed to support electric vehicle charging infrastructure and solar projects at residential, commercial and County facilities. A Consolidated Zoning Ordinance Draft was presented at a July 2020 Land Use Policy Committee meeting. Public hearings on the proposed zoning changes are expected to take place in early 2021.</p> <p>Additional Comprehensive Plan and Zoning changes may be identified in the ongoing CECAP planning process.</p>
2b. Building design and code changes, including the International Green Construction Code (IgCC), that could inspire and expedite energy saving practices on all new construction and significant renovations.	LDS		X			CY2021	<p>In a June 2020 memo to Supervisor Smith, LDS identified challenges and potential paths forward for adopting the IgCC in Fairfax County. LDS provided additional analysis on regulations, programs and initiatives in other jurisdictions that encourage energy saving strategies in commercial and residential construction, including a recommendation to seek the adoption of the current and unedited version of the IECC and the energy provisions of the IRC into the USBC. A follow-on memo is expected in March 2021.</p>



Fairfax Green Initiatives Implementation Matrix

Action Item	Lead Dept.	Complete	Ongoing	CECAP	JET	Anticipated Consideration	Action to Date
3. Refer to the Budget Committee for discussion and consideration the following:							
3a. GO, ED and other capital bonding options that could accelerate energy saving initiatives, provide high economic returns on investments and support other community benefits that would enable green building, energy savings renovations and green purchasing practices.	DMB	X					The County will continue to utilize all debt financing mechanisms to address its capital needs and maintain adherence to its self-imposed debt ratios. The County's Capital Improvement Program assumes an out-year bond referenda program that incorporates LEED certification for all future project cost estimates to further the County's commitment to green initiatives.
3b. Support for the County Executive's current consideration for the FY 2020 budget of increased dedicated County energy, climate change and environment related staffing.	DMB	X					The FY 2020 budget included dedicated funding for the Office of Environmental and Energy Coordination (established in July 2019).
4. Refer to the Environmental Committee for discussion and consideration the following:							



Fairfax Green Initiatives Implementation Matrix

Action Item	Lead Dept.	Complete	Ongoing	CECAP	JET	Anticipated Consideration	Action to Date
4a. Discuss accelerating goals and targets for the Operational Energy Strategy.	OEEC FMD FCPA DVS		X		X	CY2021	The County is on track to meet or exceed several of the goals in the Operational Energy Strategy, particularly in the energy use and efficiency, green buildings, innovative energy solutions, and electric vehicles focus areas. Acceleration of related goals and targets will be contemplated as the Board considers the recommendations of the JET.



Fairfax Green Initiatives Implementation Matrix

Action Item	Lead Dept.	Complete	Ongoing	CECAP	JET	Anticipated Consideration	Action to Date
<p>4b. Brief Committee on options to increase the pursuit of grant and cooperative agreement funding for energy efficiency, conservation, weatherization, cogeneration, renewable energy, energy resilience and greenhouse gas emission reductions, through public-private partnerships, foundations, the Commonwealth of Virginia and the Federal government to provide greater energy reduction support for all residents, consistent with One Fairfax.</p>	<p>DEI DPWES</p>		X			<p>CY2021</p>	<p>DPWES-Wastewater Management Division received grant money from CP Energy to install energy efficient equipment at the Noman M. Cole Pollution Control Plant. The division has also contracted with an ESCO to perform an investment grade audit of the plant. Staff is working with the consultant to review a preliminary report.</p> <p>FCDOT and DEI submitted a demo grant application to VDRPT to support an extension of the Relay pilot program operating in Merrifield. As ridership has been impacted by the pandemic, the extension will allow more data to be captured on the technology and its impact on transit.</p> <p>FCDOT and DEI partnered with several state entities to submit two concept papers on vehicle technologies to the U.S. DOE. Teams will be notified by the end of March 2021 on whether they will be advancing to the full proposal stage.</p> <p>Following a November briefing to the Board's Transportation Committee on electric buses, FCDOT submitted state and federal grant applications for a four electric transit bus pilot program. FCDOT should learn the outcome of those applications by mid-2021. In the meantime, staff is continuing to develop the details of the pilot program.</p>



Fairfax Green Initiatives Implementation Matrix

Action Item	Lead Dept.	Complete	Ongoing	CECAP	JET	Anticipated Consideration	Action to Date
4c. Discuss setting a goal that by 2025, locally generated energy (like solar) would offset County Government energy usage.	OEEC DPWES DPD FMD FCPA				X	CY2021	<p>An update to the Sustainable Development Policy, which includes goals to achieve higher levels of energy performance leading to Net Zero energy by 2031, was adopted in September 2020. In order to meet these goals, DPWES is incorporating solar in new Capital Building projects to offset energy usage.</p> <p>Several agencies, including DPWES, FMD and FCPA, are working with the County's solar power purchase agreement (PPA) service providers to install rooftop and canopy-mounted solar installations at County facilities.</p> <p>Additional action on this item will be evaluated as the Board considers the recommendations of the JET.</p>
4d. Complete Committee and staff work for C-PACE adoption by July 2019 with implementation by the end of 2019.	OEEC	X					Fairfax County's C-PACE program launched in February 2020.



Fairfax Green Initiatives Implementation Matrix

Action Item	Lead Dept.	Complete	Ongoing	CECAP	JET	Anticipated Consideration	Action to Date
4e. Expedite consideration of R-PACE or other capital funding options to support residential energy use reductions.	OEEC		X				Implementation requires the passage of enabling legislation in the Virginia General Assembly. Staff will continue to monitor and provide updates on legislative activity to the Board. In the 2021 session of the General Assembly, the House proposed a Budget amendment item, agreed to by the Senate, which directs DMME to establish a work group to assess the feasibility of creating a Virginia R-PACE program. DMME would be required to submit a report with its findings to the General Assembly no later than December 1, 2021.
4f. Identify timeframe for developing a County-specific Climate Resiliency and Adaptation Plan.	OEEC DPWES OEM DPD LDS FCHD	X					Staff presented a timeframe for a Climate Adaptation and Resilience Plan at the May 2020 Environmental Committee meeting. The Board approved funding in September 2020, and the planning process is expected to kick off in February 2021.
4g. Report quarterly on all energy and climate initiatives.	OEEC		X			CY2021	Quarterly updates are provided to the Board's Environmental Committee. Additional updates are distributed in memoranda to the Board.



Fairfax Green Initiatives Implementation Matrix

Action Item	Lead Dept.	Complete	Ongoing	CECAP	JET	Anticipated Consideration	Action to Date
4h. Review local advocacy group initiatives: <ul style="list-style-type: none"> i. Fairfax to Zero Campaign (Faith Alliance for Climate Solutions or FACS) ii. Fossil Free Resolution for Fairfax County (350 Fairfax) iii. Resolution in Support of a National Carbon Fee and Dividend Program [Energy Innovation and Carbon Dividend Act of 2019 (H.R. 763)] (Citizens' Climate Lobby) iv. 12-Point Energy & Climate Action Plan for Fairfax County (Great Falls Group of VA Sierra Club and Clean Energy for Fairfax Now) 	OEEC	X		X			<p>Leadership from FACS and 350 Fairfax agreed that their initiatives could be considered under the ongoing CECAP planning process. Both groups are represented in the CECAP planning process.</p> <p>Staff shared their reviews of H.R. 763 and the 12-Point Energy & Climate Action Plan with the Board in a June 2019 memorandum.</p>
5. Charge the Tree Commission with:							



Fairfax Green Initiatives Implementation Matrix

Action Item	Lead Dept.	Complete	Ongoing	CECAP	JET	Anticipated Consideration	Action to Date
5a. Recommending to the Board low-cost and no-cost options along with public-private partnerships that can assist residents in planting additional trees that will increase existing tree canopy. The Commission should report annually to the Board on progress and accomplishments.	DPWES FCPA	X	X			CY2021	The Tree Commission approved a letter at their September 2020 meeting that serves as their first annual report. The commission anticipates providing their next annual report in June 2021.
6. Direct the County Executive to report to the Board no later than September 2019 the following:							
6a. Report on strengthening Green Building Policies for County Facilities.	DPWES FMD FCPA FCRHA OEEC	X					An update to the Sustainable Development Policy was adopted in September 2020. The updated policy has a goal for Capital projects to achieve a minimum of LEED Gold certification for new construction and major renovations. In addition, the policy has a goal of minimum 30% energy performance improvement for projects beginning design in FY 2021, to 50% in FY 2027, and being Net Zero ready by 2031.
6b. Report on a solar public-private partnership agreement.	OEEC	X					In December 2019, the County announced contracts with multiple solar PPA service providers. Solar PPA projects are being implemented at sites throughout the County.



Fairfax Green Initiatives Implementation Matrix

Action Item	Lead Dept.	Complete	Ongoing	CECAP	JET	Anticipated Consideration	Action to Date
6c. Report on increasing County leadership and accountability for climate change initiatives:							
i. Ensure County leadership accountability for results and outcomes through SMART goals.	OEEC		X			CY2021	
ii. Include energy management criteria in performance evaluations of departmental heads and senior executives.	DHR	X					6c.ii. In February 2021, DHR issued an updated performance evaluation form for departmental heads, which includes criteria related to the Environmental Vision and green initiatives.
iii. Engage County staff and departments in competitions to lower energy use.	OEEC		X			CY2021	
iv. Develop incentive program to reward employees who provide energy saving ideas that are acted upon.	OEEC		X			CY2021	
v. Develop partnerships like the DOE's Better Buildings Challenge.	DEI OEEC		X			CY2021	6c.v. Fairfax County was a partner in a hacking event to encourage solutions for addressing equity and sustainability in transportation, health, infrastructure, energy and more. DEI is exploring a pilot project with a selected team to support economic recovery and community development. DEI is partnering with FCDOT and Smart City Works to lead a bike and pedestrian innovation challenge in April 2021. DEI will implement a pilot project to evaluate the winning solution(s).



Fairfax Green Initiatives Implementation Matrix

Action Item	Lead Dept.	Complete	Ongoing	CECAP	JET	Anticipated Consideration	Action to Date
7. Encourage each Board office to:							
7a. Identify, if it has not already done so, a District environmental liaison to foster community energy savings outreach, initiatives, education and engagement, County programs awareness, partnerships with local groups and serve as liaison with County staff and other Board offices.	BOS		X				The OEEC has developed an Environmental and Communications Collaborators group to share relevant environmental and energy information with liaisons in each of the Board offices.



Fairfax Green Initiatives #2 Implementation Matrix

Fairfax Green Initiatives #2

Action Item	Lead Dept.	Partners	Complete	Ongoing	CECAP	JET	Anticipated Consideration	Action to Date
1. Direct DPWES to:								
1a. Research and report to the Environment Committee on the options for expanding our existing internal County compost pilot to the community as part of our trash/recycling services or drop off locations. Options to be considered could include partnering with Arlington or Prince William, like with our purple bins – placing “green” compost bins beside purple bins; collections at Farmers Markets, FCPS locations, libraries and community centers; collecting, selling and/or giving away compost materials at the I-95 Landfill Complex & I-66 Transfer Station. In addition, work with other County agencies to provide community education on backyard composting at community centers, libraries and RECenters.	DPWES	FCPA		X			CY2021	<p>On November 16, 2020, DPWES announced the launch of a pilot program, allowing community members to drop off food scraps for composting at the I-66 Transfer Station and I-95 Landfill.</p> <p>DPWES presented to the Environmental Committee on February 2, 2021 on organics collection options and ongoing and proposed pilots. DPWES is working to pilot organics collection at up to four farmers markets in CY2021. FCPA is working with staff to evaluate sites and possible opportunities.</p>



Fairfax Green Initiatives #2 Implementation Matrix

Action Item	Lead Dept.	Partners	Complete	Ongoing	CECAP	JET	Anticipated Consideration	Action to Date
2. Direct the County Executive to:								
2a. Update the vehicle purchasing policy to accelerate purchases of County electric vehicles for the fleet of eligible sedans and expand the County's charging infrastructure to support additional electric vehicles. One hundred percent of eligible vehicles scheduled for purchase in FY 2021 shall be replaced with electric vehicles and the infrastructure needed can be supported in FY 2021.	DVS FMD OEEC	DMB DPMM FCPA		X			CY2021	<p>One hundred percent of eligible vehicles scheduled for purchase in FY 2021, of which there are 14, will be replaced with EVs. DVS recently submitted a purchase order for the 14 EVs, in anticipation of FMD installing the required infrastructure in FY2021.</p> <p>On November 4, 2020, DPMM announced a contract with an electric vehicle charging services vendor to provide charging infrastructure at County facilities. DVS, FMD and OEEC are coordinating on an EV charging implementation plan and schedule. FCPA is currently not allowed by state law to resell electricity through EV charging stations, though FCPA is working with OCA for possible future options, including revisions to state statutes.</p>



Fairfax Green Initiatives #2 Implementation Matrix

Action Item	Lead Dept.	Partners	Complete	Ongoing	CECAP	JET	Anticipated Consideration	Action to Date
2b. Direct staff to return to the Board with a schedule to accelerate the replacement of vehicles and infrastructure to support these vehicles, with the associated investment required, before the end of calendar year 2020 to inform the FY 2022 Budget.	DVS FMD OEEC	DMB DPMM FCDOT FCPA		X			CY2020	DVS anticipates purchasing eight units in FY 2022 using current contributions to the Vehicle Replacement Fund. FCDOT has submitted a state grant application and a federal grant application for funding to initiate a four electric transit bus pilot program in Fairfax County. FCDOT should learn the outcome of those applications by mid-2021. If the grant is approved, these four buses will replace four current hybrid diesel Fairfax Connector buses.



Fairfax Green Initiatives #2 Implementation Matrix

Action Item	Lead Dept.	Partners	Complete	Ongoing	CECAP	JET	Anticipated Consideration	Action to Date
2c. Direct the OEEC to find immediate solutions to charging infrastructure, such as upgrading existing electrical outlets in County garages to accommodate plug-in EVs, and to adapt purchasing practices to new goal.	OEEC	DMB DPMM DVS FCPA FMD		X			CY2020	Staff is conducting a survey to determine feasibility, capacity and resource needs for the installation of overhead and/or wall mounted chargers in County garages. FCPA is currently not allowed by state law to resell electricity through EV charging stations, though FCPA is working with OCA for possible future options, including revisions to state statutes.
3. Direct the County Attorney to:								
3a. Report to the Environment Committee on whether the County can provide incentives for consumer EV purchases, vehicles and charging stations, or similar kinds of energy reduction or efficiency investments; or what legislative changes might be necessary to do so.	OCA	DMB DEI		X	X		CY2021	OCA determined that the Board has authority to adopt a lower tax rate for electric vehicles, but other incentives the Board may want to provide would require enabling legislation in the General Assembly. These incentives should be identified and assessed prior to the pursuit or support of such legislation. Incentives will likely be considered under the CECAP.



Fairfax Green Initiatives #2 Implementation Matrix

Action Item	Lead Dept.	Partners	Complete	Ongoing	CECAP	JET	Anticipated Consideration	Action to Date
4. Direct the OEEC to:								
4a. Provide a plan to the Environment Committee for consideration to implement a 5-cent plastic bag fee in 2021, as now allowed by law.	OEEC	DMB DPWES DTA OCA		X			CY2020	Staff presented a draft implementation process and timeline at the December 2020 Environmental Committee meeting. Following direction from the Board, staff is working with regional partners to request additional implementation guidance from the state.
5. Direct FMD to:								



Fairfax Green Initiatives #2 Implementation Matrix

Action Item	Lead Dept.	Partners	Complete	Ongoing	CECAP	JET	Anticipated Consideration	Action to Date
<p>5a. Assess and report to the Environment Committee costs and process to phase out all existing hydrofluorocarbon (HFC) refrigerators, refrigerant cases and air conditioners from all County facilities and equipment purchases as soon as practical but no later than 2030, including ensuring proper disposal and recovery of gases and materials. Where comparably performing non-HFC products are available, effective in 2021, all new purchases would not contain HFC.</p>	<p>FMD DPWES FCPA FCRHA</p>	<p>DMB DPMM</p>		<p>X</p>			<p>CY2021</p>	<p>The lead departments are collaborating to assess, determine and report on the process necessary to accomplish this item by 2030. The departments are investigating market options, timelines and resource needs to purchase HVAC equipment with non-HFC refrigerants. However, FCPA notes that replacement options are currently not widely available to the domestic U.S. market.</p> <p>DPWES notes that new construction and major renovation projects undertaken by Capital Facilities continue to prohibit the use of refrigerants with HFCs.</p> <p>The departments will continue to properly dispose of HFC refrigerants under the DPWES-Solid Waste Management program.</p>



Fairfax Green Initiatives #2 Implementation Matrix

Action Item	Lead Dept.	Partners	Complete	Ongoing	CECAP	JET	Anticipated Consideration	Action to Date
6. Refer to the Land Use Policy Committee for consideration:								
6a. Require energy use disclosures on residential home sales. Direct the County Attorney to provide legal review for considerations.	OCA	DPD	X					OCA determined that legislation passed in the 2020 General Assembly, requiring a seller of a residential property to disclose that a buyer may obtain a building energy analysis, does not require the seller to provide an energy cost and consumption history such as the one required by Montgomery County, MD. Additional legislation would need to be passed in the General Assembly to impose the requirement on sellers or authorize localities to do so.



Fairfax Green Initiatives #2 Implementation Matrix

Action Item	Lead Dept.	Partners	Complete	Ongoing	CECAP	JET	Anticipated Consideration	Action to Date
6b. Direct DPD to evaluate and report to the Land Use Policy Committee on further strengthening the County's Comprehensive Plan policy regarding provisions for EV ready or EV infrastructure during the rezoning process in private parking facilities.	DPD	LDS		X			CY2021 - CY2022	<p>As part of the zMOD project, Electric Vehicle Charging (EVC) has been proposed as a new use to encourage EV usage in the County. A public hearing on zMOD is scheduled before the Board in March 2021. In January 2021, staff issued a revised interpretation, allowing installation of EVC spaces in accordance with the new proposed standards.</p> <p>DPD and LDS continue to develop a parking study, expected in 2022. Based on study results, DPD may develop follow-on recommendations for EV parking space rates and infrastructure needs. In coordination with the Land Use Policy Committee and the Planning Commission's Environmental Committee, DPD may then review the Green Building policy for potential changes.</p>



Fairfax Green Initiatives #2 Implementation Matrix

Action Item	Lead Dept.	Partners	Complete	Ongoing	CECAP	JET	Anticipated Consideration	Action to Date
6c. Direct DPD and the County Attorney to provide a report analyzing requirements and impediments for new commercial construction and incentives for new residential construction to incorporate community solar and/or geothermal systems in project planning.	DPD LDS	OCA	X					<p>Solar Power Facilities and Solar Collection Facilities are new uses proposed as part of zMOD to more readily incorporate solar projects into County and other community facilities, commercial construction projects and individual residential sites. A public hearing on zMOD is scheduled before the Board in March 2021.</p> <p>The County has processes in place to expedite reviews for solar and geothermal systems and permitting costs are waived for residential and commercial solar systems. LDS recently developed a geothermal publication, providing guidance on permitting and review processes for customers. This is similar to guidance LDS offers for residential solar customers. LDS will incorporate these materials into future outreach opportunities.</p>



Fairfax Green Initiatives #2 Implementation Matrix

Action Item	Lead Dept.	Partners	Complete	Ongoing	CECAP	JET	Anticipated Consideration	Action to Date
6d. Direct DPD to provide a report for ways to encourage and incentivize developers and builders in the County to adopt or accelerate residential and commercial green building practices. For example, create a green building profile that builders and developers can receive a rating on their green building practices.	DPD LDS		X					DPD and LDS have determined that the creation of a Fairfax County Green Building Profile would duplicate existing third-party certifications and rating systems, and as such, the agencies suggest such a profile not be developed.
7. Direct the County Executive to:								



Fairfax Green Initiatives #2 Implementation Matrix

Action Item	Lead Dept.	Partners	Complete	Ongoing	CECAP	JET	Anticipated Consideration	Action to Date
7a. Report to the Environment Committee on the feasibility of creating an Energy Efficiency Funding Pool (EEFP) pilot. Consider potential Public Private Partnerships (PPP), existing non-profit housing partnerships and other energy efficiency-focused organizations to provide a competitive grant process for funding local entities to provide workforce energy efficiency and weatherization (green jobs) training opportunities while upgrading the energy efficiency on eligible low-income and seniors homes.	DEI	CSB FCRHA OEEC OSM		X			CY2021	The recently completed COVID-19 Economic Recovery Framework for Fairfax County identified a sub-sector of green jobs as a growing specialization. DEI is partnering with the Economic Development Authority to segment these green economy sectors to understand areas of competitiveness and potential reskilling opportunities for displaced workers. DEI will be sharing this information with County workforce development providers and incorporating in business support initiatives.



Fairfax Green Initiatives #2 Implementation Matrix

Action Item	Lead Dept.	Partners	Complete	Ongoing	CECAP	JET	Anticipated Consideration	Action to Date
7b. Report to the Environment Committee on the feasibility of creating a Fairfax Green Bank.	DOF	DEI DMB OCA OEEC		X			CY2021	In fall 2020, OCA determined that the Board lacked enabling authority to establish a Fairfax Green Bank. At the direction of the Board, staff drafted a bill for the 2021 session of the Virginia General Assembly to enable a locality to enact an ordinance establishing a green bank. The bill (HB 1919), which was sponsored by Delegate Kory, and as amended to include consumer protection standards, passed both the House and Senate and is currently awaiting the Governor's signature. Staff is preparing a presentation for a future Environmental Committee meeting to discuss options and feasibility of a Fairfax Green Bank.



Fairfax Green Initiatives #2 Implementation Matrix

Action Item	Lead Dept.	Partners	Complete	Ongoing	CECAP	JET	Anticipated Consideration	Action to Date
8. Direct the County Executive and County Attorney to:								
8a. Report to the Board on the feasibility and legality of providing guidance to Fairfax County retirement fund managers to increase support for non-greenhouse gas emitting energy investments, local green business investments and decreasing those in fossil fuels.	OCA	Retirement Administration Agency	X					OCA determined that the Board may lawfully provide guidance to Fairfax County retirement fund managers on increasing support for non-greenhouse gas emitting energy investments and decrease support for fossil fuels. However, legal difficulties could arise if mandates or limitations on investment choices are imposed.