

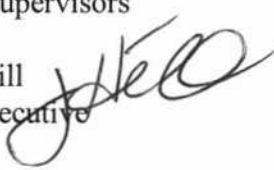


County of Fairfax, Virginia

MEMORANDUM

DATE: June 8, 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 March 2021. In addition, Attachment 1 includes an updated Fairfax Green Initiatives Implementation Matrix, which staff developed to track completed, ongoing and anticipated consideration of action items, as well as identify lead and partner agencies for each item. In the updated matrix, the Government Relations team has been added as a lead or partner agency for several items that may have legislative implications. These items are also identified and summarized below.

Updates on Fairfax Green Initiatives #1 Action Items

- Action item 2b refers to the Development Process Committee for discussion and consideration 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. In a March 2021 memorandum to the Board, Land Development Services (LDS) provided an overview of international building codes, including the IgCC and the International Energy Conservation Code (IECC), and provided recommendations on next steps.

Those recommendations were incorporated in an April 2021 Board Matter, introduced by Supervisor Smith, and issued jointly with Chairman McKay and Supervisors Storck and Foust. As directed in the Board Matter, LDS is seeking adoption of the current and

unedited IECC and energy provisions of the International Residential Code (IRC) into the Uniform Statewide Building Code (USBC) during the 2021 code development cycle. It is also developing, within the 90-day deadline provided by the Board, a voluntary green builder recognition program for designers and contractors who build green in the county.

Government Relations has now been designated a lead on this action item, to reflect efforts, including potential legislative efforts, needed at the state level to adopt more stringent building codes, such as the IECC and energy provisions of the IRC.

- Action item 4a refers to the Environmental Committee discussion of the acceleration of goals and targets for the Operational Energy Strategy (OES). Staff is presenting a proposed update to the OES at the June 15 Environmental Committee. The update includes the addition of greenhouse gas emissions reduction targets, including an overarching goal of energy carbon neutrality by 2040, and revised targets in the energy use and efficiency, green buildings, innovative energy solutions, electric vehicles (EVs), goods and services, and waste management focus areas. The new goals and targets closely align with recommendations developed by the Joint Environmental Task Force (JET), a task force formed by the Board and School Board in 2019 to propose climate and energy goals for county and school operations. Additional information on the OES update is being provided in a separate NIP.
- Action item 4b directs staff to brief the Environmental Committee on options to increase the pursuit of grant and cooperative agreement funding for energy and climate initiatives, through public-private partnerships, foundations and state and federal governments. The Wastewater Management Division of the Department of Public Works and Environmental Services (DPWES) continues to receive remittances from two energy efficiency grants, which allowed it to install equipment upgrades at the Noman Cole Pollution Control Plant. These upgrades have resulted in annual energy use savings of 10,399 kWh (equivalent to taking 55 houses off the grid or 88 vehicles off the road). DPWES will consider pursuing grants for sewer infrastructure, including funding wastewater CIP projects related to energy resilience and greenhouse gas initiatives, as more details emerge about the American Rescue Plan Act of 2021.

Ongoing grant funded initiatives overseen by other departments, such as the Department of Transportation (FCDOT) and Department of Economic Initiatives (DEI), on which the Board has previously been updated, are described in the attached Implementation Matrix. Government Relations has been added as a lead for this action item, to reflect the office's coordination of federal funding requests.

- Action item 4c refers to the Environmental Committee for discussion setting a goal that by 2025, locally generated energy (like solar) would offset county government energy usage. Offsetting the county's energy usage with locally generated energy may require state legislation removing barriers to renewable energy deployment, such as limitations on net metering or restrictions on the use of electricity generated pursuant to solar power purchase agreements. As such, Government Relations has been added as a lead for this action item.

- Action item 4e requests that the consideration of Residential Property Assessed Clean Energy (R-PACE) be expedited. As noted in previous updates, implementation of this item requires the passage of enabling legislation in the General Assembly. As such, Government Relations has been added as a lead agency to help coordinate and monitor updates.
- Action item 5a charges the Tree Commission with recommending to the Board low-cost and no-cost options and public-private partnerships that can assist residents in planting additional trees to increase tree canopy. The Urban Forestry Management Division of DPWES, a lead agency for this action item, has entered into a contract with a nonprofit whereby the nonprofit will work with residents to plant trees on private property. This pilot program is focused in areas near the Route 1 Commercial Revitalization District (CRD).

Updates on Fairfax Green Initiatives #2 Action Items

- 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. Item 2a also states that one hundred percent of eligible vehicles scheduled for purchase in FY2021 shall be replaced with EVs and the infrastructure needed can be supported in FY2021. The Department of Vehicle Services (DVS) purchased and received 14 Nissan Leafs ordered in FY 2021. These 14 EVs represent 100% of vehicles scheduled for purchase that were eligible for replacement. DVS also ordered the EV charging stations required by Facilities Management Department (FMD) to complete projects at the Government Center, Herrity Building, Pennino Building, Public Safety Headquarters and Merrifield Center.

A previous update on action item 2a noted that the Fairfax County Park Authority (FCPA) lacks enabling authority to resell electricity through EV charging stations at its facilities. Government Relations has been added as a partner agency in anticipation of a request for enabling legislation.

- Action item 3a directs the County Attorney to report to the Environmental Committee on whether the county can provide incentives for consumer EV purchases and charging stations. The County Attorney previously determined that the Board has authority to adopt a lower tax rate for EVs, but other incentives the Board may want to provide would require enabling legislation in the General Assembly. As such, Government Relations has been added as a lead agency in anticipation that specific legislation is identified and requested.
- Action item 6a refers to the Land Use Policy Committee for consideration a requirement that energy use disclosures be provided on residential home sales. The County Attorney previously determined that enabling legislation would need to be passed in the General Assembly to impose the requirement on sellers or authorize localities to do so. As such,

Government Relations has been added as a lead agency in anticipation that legislation is requested.

- Action item 6b directs the Department of Planning and Development (DPD) to evaluate and report to the Land Use Policy Committee on further strengthening the Comprehensive Plan policy regarding provisions for EV ready or EV infrastructure during the rezoning process in private parking facilities. As part of the Zoning Ordinance Modernization (zMOD) project, a new Zoning Ordinance was adopted in March 2021, permitting electric vehicle charging (EVC) as a new accessory use, with certain provisions. The ordinance allows EVC spaces to count toward minimum parking requirements, canopies for solar collection systems, and the inclusion of EVC infrastructure accessory to county facilities. While the delayed effective date of the new Ordinance is July 1, 2021, the Zoning Administrator issued a [revised interpretation](#) in January 2021 and [Technical Bulletin 21-06](#) on April 12, 2021, that implement the new provisions immediately.

In addition to the new Zoning Ordinance, DPD and LDS have ongoing efforts in this area. DPD coordinates with DVS on electrification efforts for county fleet vehicles. DPD also requests EVC parking as part of most development review applications in support of Objective 13 of the Environment element of the Policy Plan. LDS continues to facilitate the necessary site-related approval for EVC stations by expediting the review process and allowing a minor plan with reduced fees, where plan submissions are required. A dedicated [webpage](#) includes additional information on EVC stations. Finally, the two agencies continue to develop a parking study, expected in 2022, which may include follow-on recommendations for EV parking space rates and infrastructure needs.

- Action item 7b directs the County Executive to report to the Environmental Committee on the feasibility of creating a Fairfax Green Bank. A previous update detailed the passage of enabling legislation in the 2021 General Assembly session, which allows the county to adopt a Green Bank ordinance. Since the last Fairfax Green Initiatives update, this legislation was signed into law. Staff is preparing a presentation for the July 2021 Environmental Committee meeting to discuss options and feasibility of a Fairfax Green Bank.

Government Relations has been added as a lead on this action item to reflect their contributions made during the 2021 General Assembly session in seeking the passage of enabling legislation for 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

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Claudia Arko, Director, Government Relations



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					<p>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.</p> <p>Through a separate process, in September 2020, DPWES contracted with an ESCO to perform an investment grade audit at the Noman Cole Pollution Control Plant.</p>
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	As part of the Zoning Ordinance Modernization (zMOD) project, a new Zoning Ordinance, adopted in March 2021 , includes new uses to support electric vehicle charging infrastructure and solar projects at residential, commercial and County facilities. Additional Comprehensive Plan and Zoning changes may be identified in the ongoing CECAP planning process.
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 Gov't Relations		X			CY2021	As directed in an April 2021 Board Matter, LDS is seeking adoption of the IECC and energy provisions of the IRC into statewide building codes during the 2021 code development cycle and, within 90 days of the Board Matter, will establish a voluntary green builder recognition program in the county.
3. Refer to the Budget 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
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	Proposed updates to the Operational Energy Strategy, including the addition of greenhouse gas emission reduction targets, and the acceleration of existing targets, are being considered at the June 15 Environmental Committee meeting.



Fairfax Green Initiatives Implementation Matrix

Action Item	Lead Dept.	Complete	Ongoing	CECAP	JET	Anticipated Consideration	Action to Date
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.	DEI DPWES Gov't Relations		X			CY2021	<p>DPWES continues to receive remittances from two energy efficiency grants, which funded equipment upgrades at Noman Cole Pollution Control Plant. The upgrades result in annual energy use savings of 10,399 kWh.</p> <p>As more details emerge about the American Rescue Plan Act of 2021, the county will consider pursuing grants for sewer infrastructure and wastewater CIP projects related to energy resilience and greenhouse gas initiatives.</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.</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 Gov't Relations				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.	Gov't Relations 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 underway.
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 its September 2020 meeting that serves as its first annual report. The commission anticipates providing its next annual report in June 2021. DPWES-Urban Forestry has entered into a contract with a nonprofit whereby the nonprofit will work with residents to plant trees on private property. This pilot program is focused in areas near the Route 1 CRD.
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 FY2021 shall be replaced with electric vehicles and the infrastructure needed can be supported in FY2021.	DVS FMD OEEC	DMB DPMM FCPA Gov't Relations		X			CY2021	<p>One hundred percent of eligible vehicles scheduled for purchase in FY2021, of which there were 14, have been replaced with EVs. DVS recently received these 14 Nissan Leafs.</p> <p>In November 2020, DPMM announced a contract with an EV charging services vendor to provide charging stations at County facilities. DVS recently ordered stations for the Gov't Center, Herrity and Pennino Buildings, Public Safety HQ and Merrifield Center.</p> <p>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 Gov't Relations		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 and charging stations, or similar kinds of energy reduction or efficiency investments; or what legislative changes might be necessary to do so.	Gov't Relations 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
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.	FMD DPWES FCPA FCRHA	DMB DPMM		X			CY2021	<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>
6. Refer to the Land Use Policy Committee for consideration:								



Fairfax Green Initiatives #2 Implementation Matrix

Action Item	Lead Dept.	Partners	Complete	Ongoing	CECAP	JET	Anticipated Consideration	Action to Date
6a. Require energy use disclosures on residential home sales. Direct the County Attorney to provide legal review for considerations.	Gov't Relations 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, a new Zoning Ordinance was adopted in March 2021, which permits electric vehicle charging (EVC) as a new accessory use, with certain provisions. The ordinance allows EVC spaces to count toward minimum parking requirements, canopies for solar collection systems, and the inclusion of EVC infrastructure accessory to county facilities.</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 Gov't Relations	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, has been signed into law. Staff is preparing a presentation for the July 2021 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.