

Community-wide Energy and Climate Action Plan (CECAP) Implementation

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October 4, 2022

CECAP Background

• First-ever greenhouse gas (GHG) emission reduction plan developed by and for the community.

○ Planning process: January 2020 – July 2021

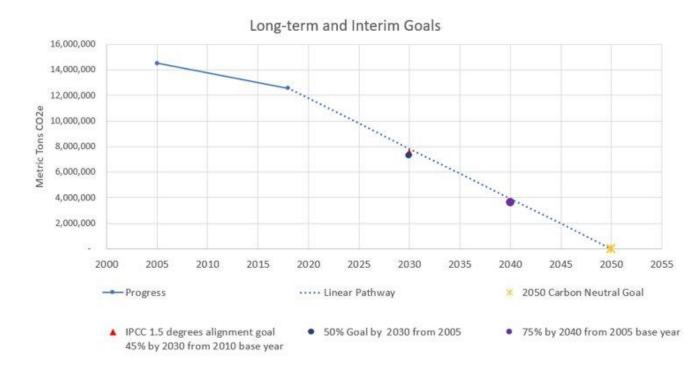
• Accepted by the Board of Supervisors: September 2021

 BOS directed staff to prepare a community implementation plan to guide both the short- and long-term strategies, actions and recommendations described in the Final Report.

 Achieving CECAP's Emissions Reductions Goals is a Long-Term Shared Responsibility

CECAP Goals

- Overall CECAP Goal: Carbon neutral by 2050, with 87% reduction in total greenhouse gas (GHG) emissions from 2005 level
- Interim Goals:
 - 2030: 50% reduction in GHG emission
 - 2040: 75% reduction in GHG emissions



CECAP Implementation Plan: Components

CECAP Implementation Master Plan

- All implementation actions
- \circ $\,$ Guides implementation for many years to come

CECAP Implementation Workplan

- Prioritized implementation actions in the short-term
- Implementation actions for the next 2 calendar years (2023-2024)

CECAP Implementation Workplan Program Factsheets

- Easy-to-understand one-page factsheets
- Additional detail about specific programs in the Workplan

CECAP Implementation – Master Plan

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Fairfax County CECAP Implementation Master Plan

Reducing Community Greenhouse Gas Emissions to Achieve Carbon Neutrality By 2050

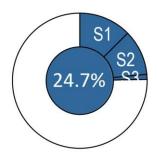


- Distills CECAP sectors, goals, strategies and actions into a summary document intended to guide staff efforts for CECAP implementation
- Operationalizes and combines CECAP recommendations to facilitate implementation
- Organized by CECAP sectors and strategies



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CECAP: Sectors, Strategies, GHG Emission Reductions



Buildings and Energy Efficiency

Strategy 1: Increase energy efficiency and conservation in existing buildings.

Strategy 2: Electrify existing buildings.

Strategy 3: Implement green building standards for new buildings.



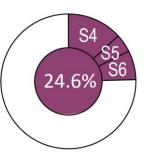
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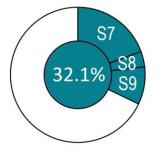
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Energy Supply

Strategy 4: Increase renewable energy in electric grid. Strategy 5: Increase production of onsite renewable energy.

Strategy 6: Increase energy supply from resource-recovered gas, hydrogen, and power-to-gas.





S12

2.4%

Transportation

Strategy 7: Increase electric vehicle (EV) adoption. Strategy 8: Support sustainable land use, active

transportation, public transportation, and transportation demand management (TDM) to reduce vehicle-miles traveled.

Strategy 9: Increase fuel economy and use of low-carbon fuels for transportation.

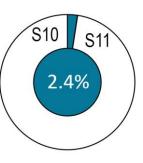
Natural Resources

Strategy 12: Support preservation, restoration, and expansion of natural systems, green spaces, and soil quality.

Waste

Strategy 10: Reduce the amount of waste generated and divert waste from landfills and waste-to-energy facilities.

Strategy 11: Responsibly manage all waste generation, including collected residential and commercial waste, wastewater, and other items.



CECAP Implementation – Workplan 2023-2024

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- Prioritized items for next 2 calendar years
- Both continuing and new action items
- Both county operations and community programs
- Supports budget request
- Update periodically using an adaptive management approach
 - Funding opportunities
 - Partners and agencies capacity
 - Enabling legislation
 - Emerging technologies

	Transportation			 Modeled contribution to emissions reduction: 32.1% CECAP Strategies: 7. Increase Electric Vehicle (EV) adoption: 19.4% 8. Support sustainable land use, active transportation, public transportation, and Transportation Demand Management (TDM) to reduce Vehicle-Miles Traveled; 3.7% 9. Increase fuel economy and use of low-carbon fuels for transportation: 9.0% 								
	Action	•	CECAP trategy F(s)	Program Name(s)	Program Description			Leads and Partners		2022 Status	2023	2024
	ons that App Community	ly to										
T-1:	T-1: Streamline existing 7 permitting and		LDS EVSC permit process	LDS is currently reviewing and revising Electric Vehicle Charging Stations (EVCS) permitting to waive fees pending Board Matter			LDS		Ongoing	×	×	
Buildings and I Efficiency		CECAP 5	itrategie ncrease Electrify	energy efficience existing building	ons reduction: 24.7% y and conservation in existing buildings: s: 10.9% g standards for new buildings: 1.2%	12.6%					x	x
mplementation Act	en CECA Strate #(s)	wy Na	ogram ime(s)		Program Description	Leads and Partners	117	2022 Status	2023	2024		
tions that Apply to mmunity	the											
E.1: Support Property esseed Clean Energy (CE) financing program dissist property own upgrading their build in energy efficiency, ewable energy, and in agement systems.	\$3 53	C-PAC	CK.	Authority. It is des building owners to The County's C-PA quarter of 2023 to and 21 add in a two	Inding tool administered by Virginia-PACE great to provide long term private funding to r energy-saving and water-saving projects. E ordinance will be updated in the first I) opt-in to the revised statewide program year retroactive clause allowing the finance that were completed up to two years ago.	OELC	CRC. 1d	Ongoing	×	x	x	×
E-2: Develop and fund orgy audit or assessm genams to identify portunities to reduce orgy use and to provide entities to involvement orgy efficiency and ctriffication commendations.	nt	Hems	eWise;	beth by the count, include HomeWise residents with smu Nearly S00 HomeV and water at home 2024. Additionally efficiency opportu Conservation Assis from Dominion, W	sisting energy efficiency programs provided and external entities. The county's programs which helps how and moderate income il energy and water efficiency improvements, vice efficiency kits have been distributed ions and information on how to save energy. These efforts will continue in 2023 and the county will premote external energy vities such as the NVIWCPS lenergy tance Program, energy efficiency programs ashington Gas, and other utilities, LEAP's m, and programs through LINEAD.	OEEC	CRC. 3b	Ongoing	x	x		
E-3: Support and adve the strengthening of iding energy codes in velopment projects.		Virgin Unife Build			eforcing building energy codes, with an eye ties to increase the statewide building energy coumption.	LDS,	Riß. 2b	Orgoing	x	×		

CECAP Implementation – Factsheets

- Provides additional detail for Workplan items
- Highlights strategies and goals

on		CHARGE UP FAIR	CHARGE UP FAIRFAX					
on		OVERVIEW						
		LAND USE CODES, POLICIES, AND PLANS	S	establishing to id condominium iancial challenges				
	OVERVIE	w	🗀: development	int of all light-duty				
× ×	FAIRE	ural areas. ely to succeed						
	OVERVIEW The Fairfax County Canopy F	ludes aconomic						
F	commonly owned open spai HOAs). The Canopy Program by HOAs and non-profit orgi Canopy Program is a joint of Forest Management Division The Fairfax County Canopy F Expand the tree can	ildings. L expected to ation and	ioxide equivalent irbon neutrality goa arging opportunitie ation of the CECAP e esseption of an El facilitate a three- le: p identify possible strictions, if any, an					
	by 2030 and 50 perc HOW THIS INITAITIVE SUPP The program supports the fo	these county isors						
	Sector Natural Resources	Strategy Number and Name 12: Support Preservation, Restoration, and Expansion of Natural Systems, Green Spaces, and Soil Quality	Zoning Ordinance	ural and engineerin ment results and				
	The implementation actions equivalent emissions by 205		des or other site ment installation and					
	arbon neutrality goal by 20 invironment, public health, ncrease carbon sequestration	x	y apply to help ceed S5,000 per ay be available from					
	educe the Urban Heat Islan As currently envisioned, the	x	the process. The					
	administered by a local non- County Public Schools, HOA	x	Up Fairfax to other					
t	directly with the participant through the provision of edu hose communities or assoc dentify areas of opportunity	x	encial support.					
T d	The Fairfax County Canopy F dates back to 2005. The TPP	x						
-	entities on public properties	ent of existing forest tracts and the planting of new trees by governmental and non-profit I. The Canopy Program is being established to focus tree planting efforts on commonly HOAs. Together, these programs will support the expansion of the county's tree canopy and	-	0				

owned open space, such as HOAs. Together, these programs will support the expansion of the county's tree canopy and

support the goals of CECAP.

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Next Steps

Next Steps:

- Staff Coordination Team to finalize CECAP Implementation Master Plan and CECAP Implementation Work Plan – October/November 2022
- CECAP Implementation Master Plan and CECAP Implementation Work Plan presentation to the Board's Environmental Committee – December 13, 2022



https://fairfaxcounty.gov/environment-energycoordination/climate-action