

















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

Ongoing Activities and Long-term Implementation Next Steps

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Office of Environmental and Energy Coordination

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# CECAP Implementation Activities

	ACTIVE NOW	UPCOMING
County government emissions	 Carbon Neutral Counties Declaration	
	 Operational Energy Strategy	
	 Sustainable Development Policy	
Community emissions	 Carbon-Free Fairfax (8 campaigns)	
	 HomeWise	
	 Energy Action Fairfax	
	 Green Business Partners	
	 Legislative Proposals	
	 LEAP's Solarize and Thermalize	
	 Incentive Research	Potential Incentives
	 Charge Up Fairfax Planning	Potential Charge Up Fairfax Campaign
	 Green Bank Research	Potential Green Banks
	 Carbon Neutral Innovation Challenge	Carbon Neutral Innovation Pilot
	 CECAP Plan	Detailed Master Plan and Workplan

# Master Plan and Workplan Development Schedule

Program	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Process Development	Process Development											
Strategies, Actions and Recommended Activities			Review, Analyze, Prioritize, Operationalize									
Long-term Implementation Plan & Initial Workplan							Initial Workplan					
Coordinating Team		<div></div>	<div></div>	<div></div>	<div></div>	Small Team Coordination <div></div>				<div></div>		
Outreach/Feedback							Community Partners					
Carbon-Free Fairfax		Outreach & Education Campaigns										



# CECAP Related Agencies



DEI



DHCD



DPD



DPM



DPWES



DVS



FC DOT



FCPA



FCPS



FMD



HD



HHS



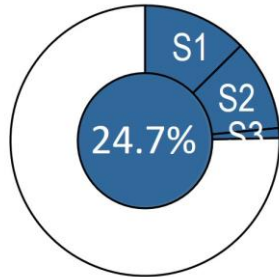
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NCS



# 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.



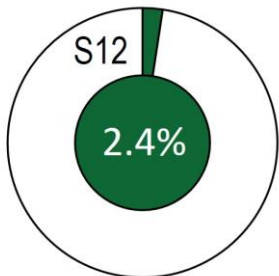
## Transportation



**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.

## 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.

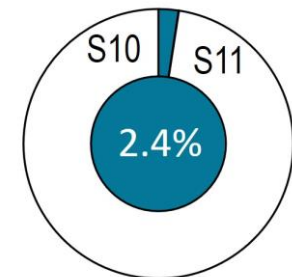


## Waste



**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.



# Building Energy and Efficiency



- **Sector Goal:** All new, eligible buildings will have a commitment to Green Building

## County: Existing and New Facilities

- Operational Energy Strategy (OES)
- Sustainable Development Policy for capital projects
  - Net Zero Energy and LEED Gold
  - Electric Ready
- ESCO Game Plan
- Solar Game Plan

## Community: New Buildings (Examples)

- Comprehensive Plan / Zoning Ordinance Changes
  - Creates framework for private development to align with CECAP energy goals
- Building Code Changes
  - Advocate for updated building code standards to increase energy efficiency

# Building Energy and Efficiency, Cont.



- **Sector Goal:** Retrofit at least 100,000 housing units with energy efficient measures by 2030



## Community: Existing Building Retrofits (Examples)

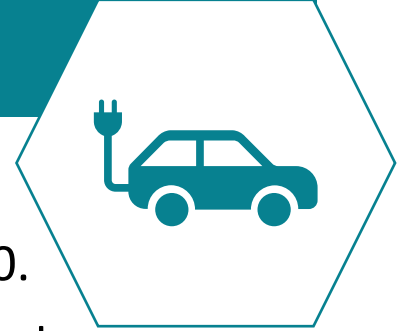
- 425,000 Housing units
- 278,500,000 SF Industrial, Office, Retail

### Actions:

- Equity: Low to moderate income households
- Education and outreach
- Incentives and financing options
- Partnerships
- Technology



# Transportation



## Sector Goals:

- Increase transit and non-motorized commuting to 30% (including teleworking) by 2030.
- Increase plug-in hybrid electric vehicles (PHEVs) and battery electric vehicles (BEVs) to at least 15% of all light-duty vehicle registrations by 2030.

## County

- Operational Energy Strategy Targets
  - Develop a plan to convert fleet by 2030
  - Convert buses and fleet vehicles by 2035
  - No diesel buses purchased after FY2024
- EV Game Plan
- Transportation Planning

## Community:

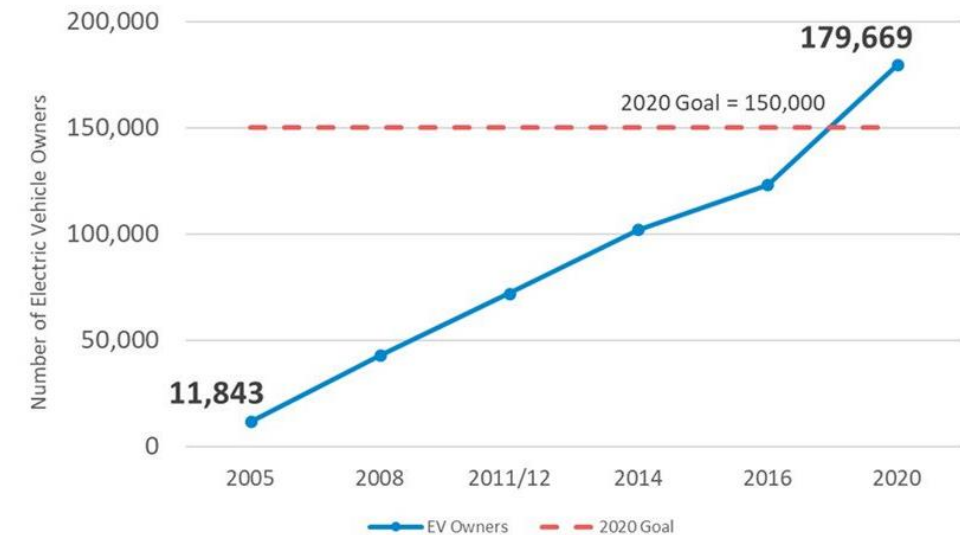
- EV Market Trends
- Charging Stations
  - Charge Up Fairfax: HOA, Common-Interest Community Properties
- Fleet Conversion:
  - National vs Local Fleets



# Next Steps – CECAP Implementation

- Long-term Implementation
  - Engage community partners and champions
  - Present Master Plan and Workplan to BOSEC in Fall 2022
  - Monitor and report progress
- May-June: Carryover funding proposals
- Continue to promote Carbon-Free Fairfax
- Further develop Energy Action Fairfax, HomeWise, Charge Up Fairfax, Green Business Partners
- Proposed CECAP items for July BOSEC meeting:
  - CECAP legislation proposals for 2023 legislative sessions
  - Green Bank: local clean energy financing entity

Regional Progress Towards Increasing Electric Vehicle Ownership



[MWCOG's Climate and Energy Progress Dashboard](#)