



CECAP and Resilient Fairfax

Climate Change Planning and Action
Update

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Climate Change Planning and Action



[CECAP: Community-Wide Climate & Energy Action Plan](#)

Reducing emissions that contribute to climate change

- Ex: Transition to renewable energy, energy efficiency, waste reduction, alternative transportation
- Community-oriented plan, because 95% of emissions are from the community
- January 2020 – July 2021 plan; Fall 2021 BOS



[Resilient Fairfax](#)

Adaptation & resilience to climate effects

- Ex: Resilience to flooding, extreme temperatures, extreme weather, health hazards, precipitation pattern changes
- Lead by government, infrastructure partners
- Feb 2021 – June 2022 plan; Fall 2022 BOS

CECAP Process



Working Group Goals

- **Overall CECAP Goal**

- Carbon neutral by 2050, with 87% reduction in total greenhouse gas (GHG) emissions from 2005 level

- **Interim Goals – 2030 and 2040**

- 2030: 50% reduction in GHG emissions
- 2040: 75% reduction in GHG emissions

- **Sector-based goals**

- Green buildings
- Retrofitting existing housing for energy efficiency
- Increasing transit and non-motorized commuting
- Increasing use of electric vehicles
- Natural resources

Sector-Based Goals

- **Buildings and Energy Efficiency**

- All new, eligible buildings will have a commitment to green building
- Retrofit at least 100,000 housing units with energy efficiency measures by 2030

- **Transportation**

- Increase transit and non-motorized commuting to 30% (including telework) by 2030
- Increase plug-in electric vehicles (PHEVs) and battery electric vehicles (BEVs) to at least 9% of all light-duty vehicle registrations by 2030

- **Natural Resources**

- Goal is currently under discussion. The current draft goal is focused on tree canopy.

CECAP Strategies

Buildings and Energy Efficiency

- Strategy #1: Increase energy efficiency and conservation in existing buildings
- Strategy #2: Pursue beneficial electrification in existing buildings
- Strategy #3: Implement green building standards for new buildings

Energy Supply

- Strategy #4: Increase renewable energy in grid mix
- Strategy #5: Increase production of onsite renewable energy
- Strategy #6: Increase energy supply from renewable natural gas (RNG), hydrogen, and power-to-gas

Transportation

- Strategy #7: Increase electric vehicle (EV) adoption
- Strategy #8: Support efficient 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

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 generated including collected residential and commercial waste, wastewater and other items

Natural Resources

- Strategy #12: Support preservation, restoration, and expansion of Fairfax County's natural systems and public spaces

Public Feedback Opportunities

CECAP is a community-driven plan

- Three public feedback series
 - August/September 2020
 - February/March 2021
 - May 2021
- Other opportunities
 - Surveys
 - Email in-box
 - Community briefings
- Positive receptions of CECAP goals, strategies, and actions

Next Steps for CECAP

- Remaining Working Group (WG) activity
 - WG finalizes Natural Resources sector-based goal in June
 - WG reviews draft report in May and June meetings
- Presentations to Board
 - Environmental Committee reviews CECAP report in July
 - Board adopts Final CECAP Report in September
- Transition from planning to implementation
 - Initial implementation
 - Public education and outreach, including public survey
 - Build on existing County policies, programs, and efforts
 - Develop an implementation plan with Board guidance

Resilient Fairfax: Background

- Board of Supervisors direction
 - [Environmental Vision](#)
 - [Fairfax Green Initiatives Board Matter](#)
- June 16, 2020: [Climate adaptation and resilience plan proposal](#) endorsed by BOSEC
- September 29, 2020: Funds approved in FY2020 Carryover budget



Climate Hazards in Fairfax County



Extreme Heat



Drought



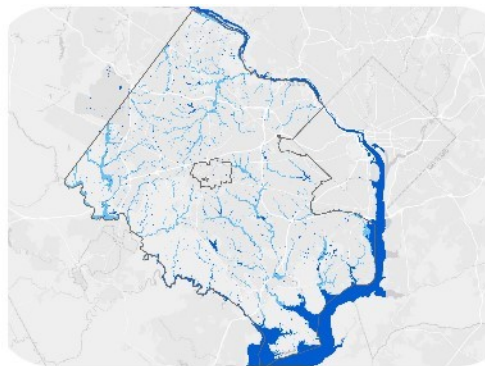
Extreme Cold



Extreme Precipitation
Events



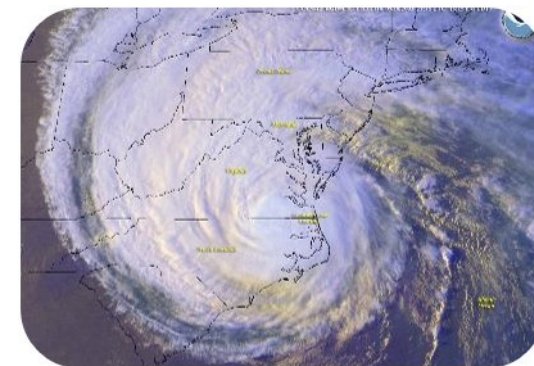
Inland Flooding



Coastal Flooding



Severe Wind



Extreme Storms

Resilient Fairfax's purpose is to determine:

- **What climate change *effects* will our county face?**
 - Flooding, temperature, storm severity, etc.
- **Where are we vulnerable?**
 - Infrastructure, Population, Services/Operations
- **What policies, programs, and plans do we have in place?**
 - Which work well and can be expanded?
 - Where are the gaps?
- **Which strategies will strengthen our resilience?**
 - Feasibility, Priority
- **What is the path to implementation?**
 - Funding, policies, operations, partnerships



Resilient Fairfax Key Players

Project Management Team: Office of Environmental and Energy Coordination Staff

Consultant Team: Cadmus, WSP, NSpireGreen

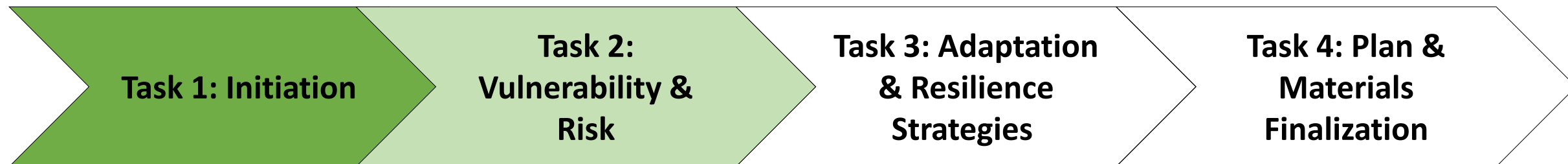
Planning Team (PT): County departments & agencies (DFS, DOT, DPD, DPWES, DVS, FCPA, FCPS, FMD, GIS, HD, HCD, LDS, NCS, NVSWCD, OEEC, OEM, OneFairfax, PSC)

Infrastructure Advisory Group (IAG): Utilities, authorities, building industry groups, transportation commissions, and regional partners

Community Advisory Group (CAG): District reps, community, advocacy groups

Steering Committee (SC): Deputy County Executives, Equity Officer

Resilient Fairfax Scope of Work



Feb – May 2021

1. Project initiation tasks
2. Kickoff meetings
3. Charters

April – Oct. 2021

1. Climate projections
2. Vulnerability and risk assessment
3. Audit of policies, plans, and programs

Aug 2021– Feb 2022

1. Strategy identification
2. Assessment & prioritization
3. Implementation roadmap

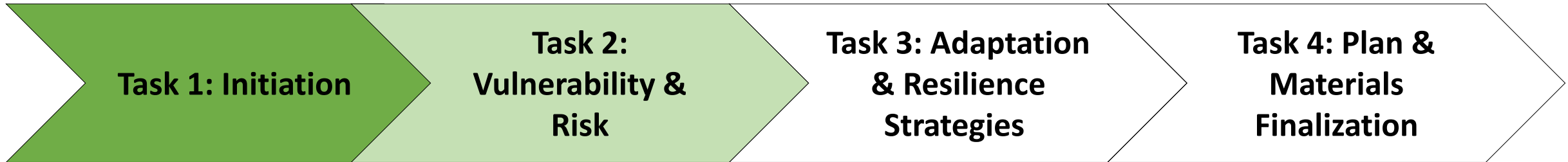
Jan – Jun 2022

1. Plan compilation
2. Fact sheets
3. Interactive web resources

Task 5: Project Management

(February 2021 – June 2022)

Resilient Fairfax: Stakeholder & Community Engagement



Feb – May 2021

- PT meetings
- IAG meeting
- CAG meeting
- SC meeting
- Regional meetings
- Requested meetings

April – Oct. 2021

- Public meeting
- Public survey
- PT meetings
- IAG meeting
- CAG meeting
- Regional meetings
- Requested meetings
- BOS presentations

Aug 2021– Feb 2022

- Public meeting
- PT meetings
- IAG meeting
- CAG meeting
- Regional meetings
- Requested meetings
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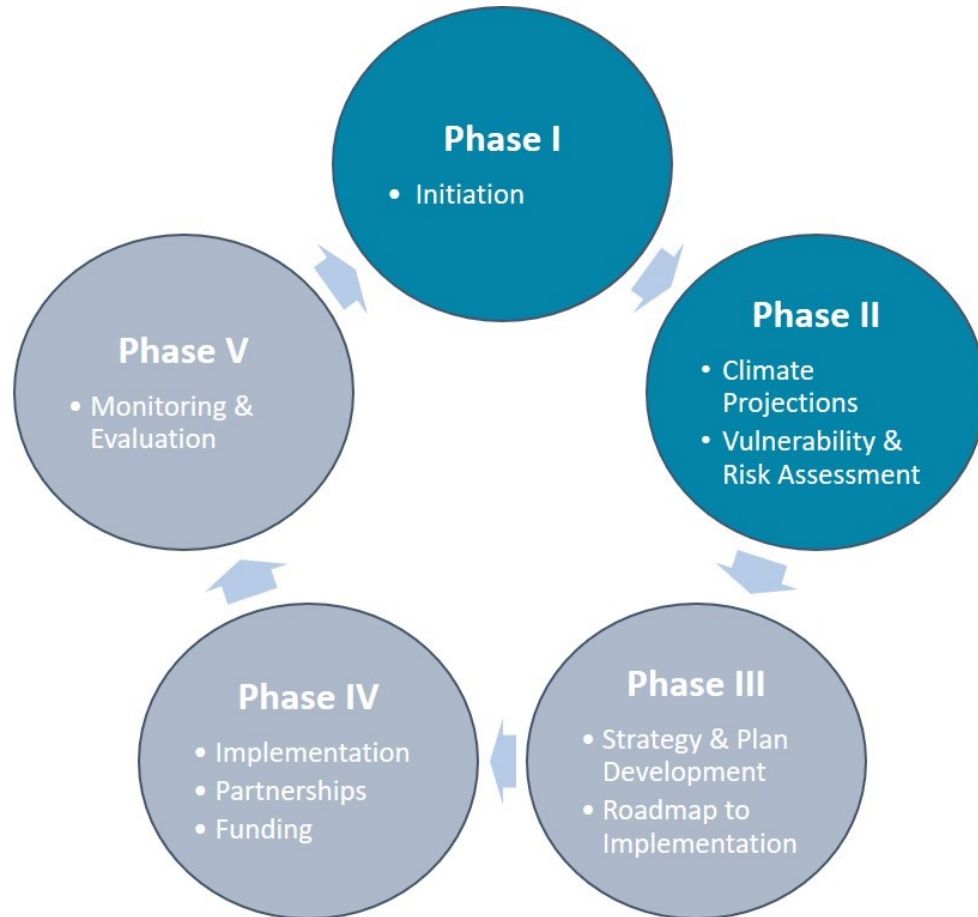
Jan – Jun 2022

- Public comment
- PT meetings
- IAG meeting
- CAG meeting
- Regional meetings
- Requested meetings
- BOS presentations

Continually open to community feedback : ResilientFairfax@fairfaxcounty.gov

Web updates & materials: <https://www.fairfaxcounty.gov/environment-energy-coordination/resilient-fairfax>

Resilient Fairfax Program Implementation



- Roadmap to Implementation
- Build on Existing Plans and Programs
- Partnerships
- Funding
- Adaptive Management Approach

Resilient Fairfax: Next Steps

- **Public Meeting:** Tonight, June 15, 6:30 – 8:30 pm
 - <https://zoom.us/j/94857252810>
- **Public Survey:** Ongoing through July 2
 - <https://www.fairfaxcounty.gov/environment-energy-coordination/resilient-fairfax>
- **Task 2: Vulnerability and Risk Assessment:** April – October 2021
 - Climate Projections
 - Vulnerability and Risk Assessment
 - Audit of Policies, Plans and Programs
- **Next BOS Environmental Committee Update:** Fall 2021