



# **Resilient Fairfax Implementation**

Update

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Office of Environmental and Energy Coordination

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# Resilient Fairfax Strategy Pillars

<b>Integrated Action Planning</b> 	<b>Climate Ready Communities</b> 	<b>Resilient Infrastructure &amp; Buildings</b> 	<b>Adaptive Environments</b> 
			
<ul style="list-style-type: none"> <li>• Resilience into county plans and policies</li> <li>• Resilience data collection</li> <li>• Resilience funding</li> <li>• Continued interagency coordination</li> </ul>	<ul style="list-style-type: none"> <li>• Network of safe &amp; resilient spaces</li> <li>• Community capacity to prepare for, withstand, and recover from events</li> <li>• Climate-ready development</li> </ul>	<ul style="list-style-type: none"> <li>• Resilience in major county infrastructure decisions</li> <li>• County building &amp; facility resiliency</li> <li>• Advocacy for external infrastructure resiliency, i.e., energy grid &amp; transit</li> </ul>	<ul style="list-style-type: none"> <li>• Protection of natural resources that enhance resilience</li> <li>• Restoration of damaged areas with nature-based and natural solutions</li> </ul>

Status of 18 <u>Prioritized</u> Strategies			%*		
1	IAP.1a: Comprehensive Plan Updates for Resilience		7%	<div><div></div></div>	<p>All strategies are scheduled to be complete (or annually ongoing) <b>by or before Calendar Year 2030.</b></p> <p>Strategy, sub-strategy, and IA milestones will vary. Roadmaps for each prioritized strategy can be found in the <a href="#">Resilient Fairfax plan</a>.</p>
2	IAP.2a: Resilience Metrics and Tracking System	(Y)	33%	<div><div></div></div>	
3	IAP.3a: County Climate Fund	(Δ)	10%	<div><div></div></div>	
4	IAP.3b: Pursue Federal and State Funding Opportunities	(Y)	25%	<div><div></div></div>	
5	IAP.4a: Long-term Interagency Collaboration System	(Y)	40%	<div><div></div></div>	
6	CRC.1a: Adaptation Action Areas		13%	<div><div></div></div>	
7	CRC.1b: Resilience Hubs	(Δ)	8%	<div><div></div></div>	
8	CRC.2a: Community Aid and Services for Resilience Needs	(Y)	6%	<div><div></div></div>	
9	CRC.2b: Climate Resilience Guidance & Education	(Y)	14%	<div><div></div></div>	
10	CRC.3a: Flood Risk Reduction Plan		17%	<div><div></div></div>	
11	CRC.3b: Heat-Resilient Design, Development, Practices		0%	<div><div></div></div>	
12	CRC.3c: Zoning and Other County Code Amendments		5%	<div><div></div></div>	
13	RIB.1a: Capital Improvement Program Process Updates		0%	<div><div></div></div>	
14	RIB.1b: Flood Resilience for County-owned Buildings		5%	<div><div></div></div>	
15	RIB.2a: Advocate and Partner for Energy Resilience	(Y)	25%	<div><div></div></div>	
16	AE.1a: Consolidated Natural Resources Management Plan		0%	<div><div></div></div>	
17	AE.1b: Survey and Protect Areas with Natural Resilience		5%	<div><div></div></div>	
18	AE.2a: Green Infrastructure Projects for Climate Resilience		20%	<div><div></div></div>	

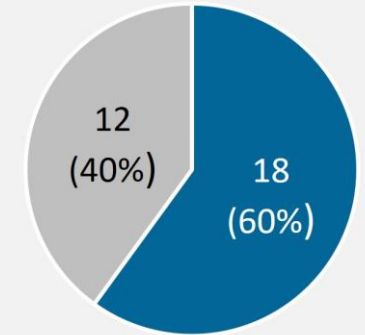


## Many of the 30 Additional (non-prioritized) Resilient Fairfax strategies have also started.

Status of <u>ADDITIONAL</u> Strategies	Started
IAP.1b: Strategic Plan Updates for Resilience	Yes
IAP.1c: Complete the Climate Health Plan	Yes
IAP.1d: Hazard Mitigation Coordination	Yes
IAP.2b: Climate Research Support	
IAP.2c: Consolidated Flood Database	
IAP.2d: Rainfall Data	Yes
IAP.2e: Database for Hazard Mitigation Action	Yes
IAP.2f: Tree Canopy Data	Yes
IAP.2g: LiDAR Data Updates	
IAP.2h: Climate Vector-Borne Disease Data	
IAP.3c: Funding for Long-Term Data Collection	
IAP.3d: Additional & Private Funding	
IAP.4b: Build Staff Capacity on Resilience	Yes
CRC.1c: Targeted Tree Plantings	Yes
CRC.1d: C-PACE Expansion	Yes
CRC.2c: Resilience Related Workforce Devel.	
CRC.2d: Expand Heat Warning System	Yes
CRC.3d: Update Public Facilities Manual	

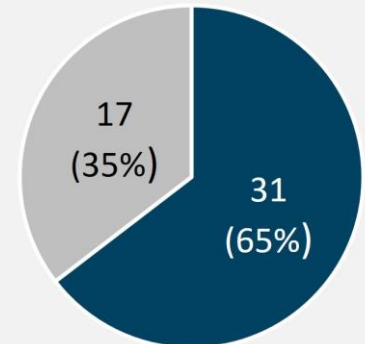
	Started
CRC.2d: Expand Heat Warning System	Yes
CRC.3d: Update Public Facilities Manual	
RIB.1c: Energy Resilience for County Bldgs	Yes
RIB.2d: Heat Resilience for County Bldgs	
RIB.1e: Resilient Procurement	
RIB.2b: Advocacy for Resilient Bldg Code	Yes
RIB.2c: Advocacy for Transportation Resilience	Yes
AE.1c: Conservation Easement Updates	
AE.1d: Climate in Urban Forestry	Yes
AE.2b: Stream Restorations	Yes
AE.2c: Urban Reforestation	Yes
AE.2d: Living Shorelines	Yes
AE.2e: Wetland & Floodplain Restorations	Yes
AE.2f: Regenerative Agriculture	

Status of ADDITIONAL Strategies



■ Started ■ Not Started

Status of ALL Resilient Fairfax Strategies

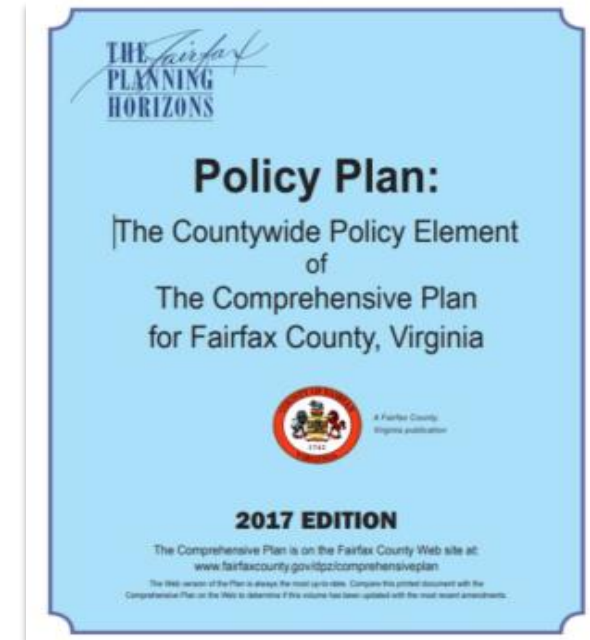


■ Started ■ Not Started

# IAP.1a: Comprehensive Plan Updates for Resilience

## Progress Updates

- ✓ Board Authorization of Comprehensive Plan Amendment to Environment Element of Policy Plan
- DPD and OEEC are working on early tasks for climate component of the larger amendment
  - Climate-related amendments scope, schedule, roles
  - Resilience and emissions reduction
  - Research of other jurisdictions' climate-related updates
  - Identification of potential sections and text in need of update
  - Plan for internal and external engagement



## Resilience topic examples for CP:

- Urban Heat Island effect
- Flood-prone areas
- Natural resources that reduce impacts of climate hazards
- Impervious cover reductions
- Green infrastructure

### \$ Funding and Resource Opportunities:

- Community Development Block Grant Mitigation (CDBG-MIT) Program
- General Fund (salaries)

### Climate Hazards Addressed:



Lead:	OEEC, DPD
Partners:	DEMS, DOT, DPWES, EDA, FCHD, FCPA, LDS, NCS
Timeline:	Long-term (5-8 years)
Cost:	\$ (\$0k - \$100k)
Existing Staff:	Yes

## IAP.3a: County Climate Fund

Implementation Actions Progress Bar

10%

**Progress Updates** ***(Proposed Change in Approach)***

- **What the plan says:** Resilient Fairfax recommended research and creation of a County Climate Fund for resilience action
- **Why a change is proposed:** The Green Bank in development is an intensive effort with a similar goal
  - Green Bank code is currently limited to emissions reduction
  - Recommend requesting legislative change to allow the Green Bank to cover both climate mitigation and climate resilience projects, rather than creating a separate, similar entity
- **Funding for Resilient Fairfax in the meantime**
  - Using existing staff capacity, salaries built into budget
  - Pursuing grants
  - Some funding requested in the County Budget process for Resilient Fairfax implementation; limited to outreach, and shared with CECAP outreach



## IAP.3b: Pursue Federal and State Funding Opportunities for Resilience

Implementation Actions Progress Bar

25%

### Progress Updates

- ✓ Consolidated database of funding opportunities, shared with all relevant departments
- ✓ DPWES recently won 4 Community Flood Preparedness Fund grants for flood risk reduction (\$15.7 million)
- Unprecedented levels of federal funding available currently
- Grant tracking and staffing coordination across agencies to enable the county to seize current opportunities
- Pursuing EPA EJG2G Grant for possible Resilience Hub w/ FACS



FEMA



U.S. DEPARTMENT OF  
**ENERGY**





# Strategy IAP.4a: Interagency Collaboration System for Climate Resilience

Implementation Actions Progress Bar

40%

## Progress Updates

- ✓ Staff from **20+ agencies** represented, continued from RF planning
- ✓ **Metrics and tracking system** across agencies
- ✓ **Climate Interagency Team** Microsoft system for coordination
- ✓ **Departments organized into Implementation Groups**
  - **Group 1 – All Agencies**
  - **Group 2 – Development Codes, Policies, and Plans**
  - **Group 3 – Community Services, Education, Engagement, Incentives**
  - **Group 4 – Natural Resources**
  - **Group 5 – Facilities and Operations**
  - **Group 6 – Data and Research**
- **March 3<sup>rd</sup> “All Hands” Meeting; sub-groups already meeting**
- **Breaking siloes, improving interagency coordination on overlapping initiatives, policy and plan updates, reporting, grants**





# CRC.1a: Adaptation Action Areas (AAAs) where Resilience is Prioritized

Implementation Actions Progress Bar

13%

## Progress Updates

- ✓ OEEC, GIS, and One Fairfax staff are refining the AAA data and maps
- Interagency effort to decide the best way to use AAAs in Fairfax
  - Zoning Overlay? Higher design standards? CIP prioritization?
  - Funding distribution? Incentives? Aid?

### Climate Hazards Addressed:



Lead:	OEEC
Partners:	DCC, DEI, DEMS, DFS, DPD, DPWES, FCDOT, FCHD, FCPA, HCD, LDS, NCS, NVSWCD, OCA, One Fairfax, UFMD
Timeline:	Medium-Term (2-5 years)
Cost:	\$\$ (\$100k - \$500k)
Existing Staff:	Partial

Heat-Vulnerable



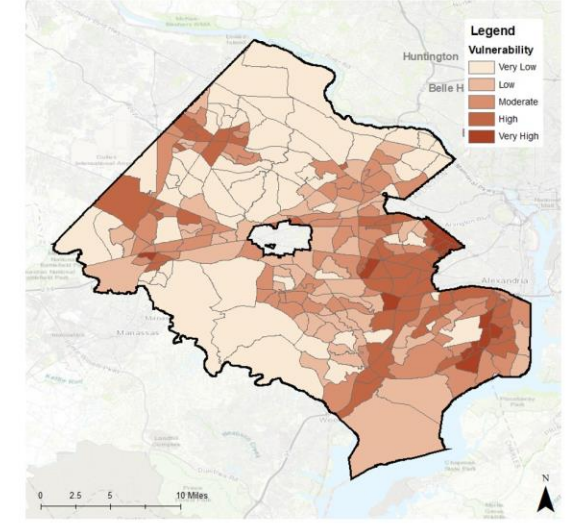
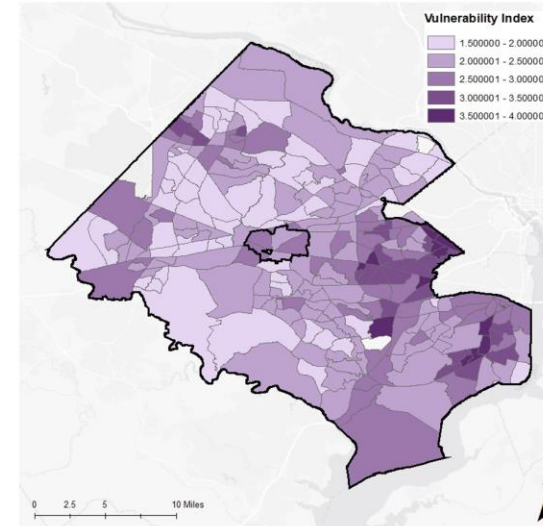
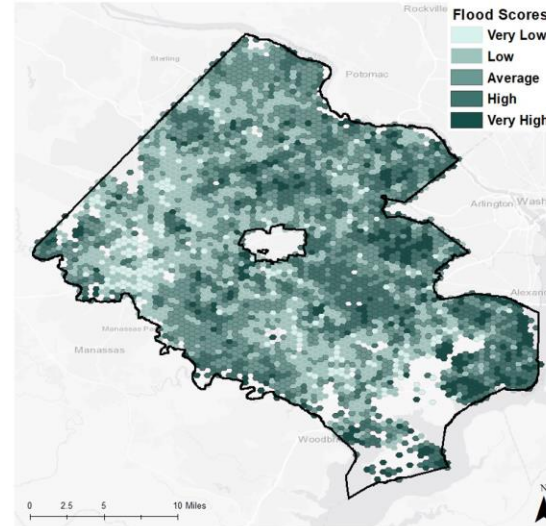
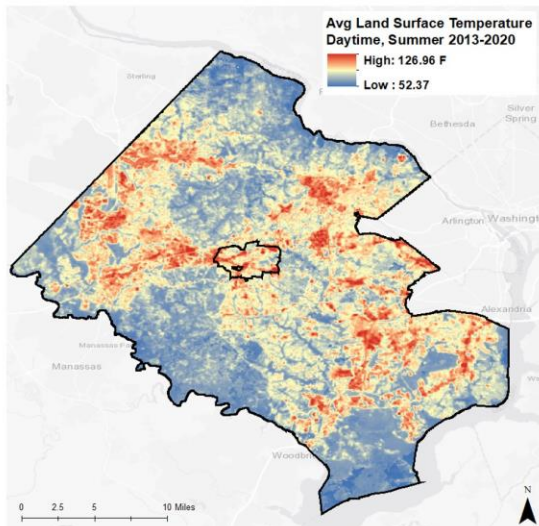
Flood-Vulnerable



One Fairfax



Potential\* AAAs



# CRC.1b: Pursue Development of Resilience Hubs

Implementation Actions Progress Bar

8%

## Progress Updates and Proposed Change in Approach

- ✓ Identification of areas of the county in greatest need of hubs
- ✓ Research & definition of “Resilience Hubs” in Fairfax context
- ✓ Resilient Fairfax plan recommends detailed inventory/ evaluation of many potential hub sites before pursuing one pilot
- An opportunity has arisen for a pilot Resilience Hub now
  - Requesting BOS approval to pursue EJG2G grant
  - Partnership with county agencies, non-profits, others
  - Grant application due April 10<sup>th</sup>
- The vision for the Resilience Hub pilot :
  - A trusted place for community resilience before, during, and after severe weather events
  - Solar & battery back-up in case of power outages, environmental site rehabilitation, green infrastructure
  - Interagency training on flood risk reduction, emergency preparedness, heat risk reduction, environmental health, financial resilience, climate
  - Access to critical services and basic needs

### Climate Hazards Addressed:



Lead:	OEEC
Partners:	DEMS, DFS, DPD, DPSC, DPWES, FCHD, FCPA, FCPS, FMD, GIS, HCD, LDS, NCS, OCA, One Fairfax
Timeline:	Medium-Term (2-5 years)
Cost:	\$\$\$ (\$500k - \$1 million)
Existing Staff:	Partial



# Strategy CRC.3a: Implement the Flood Risk Reduction Plan for Fairfax County

Implementation Actions Progress Bar

17%

## Progress Updates

- Big picture purpose: reducing flood risk through:
  - Physical projects constructed by the county**
    - DPWES manages dozens of [Stormwater Improvement Projects](#)
    - Resilient Fairfax implementation → updates how/where projects are prioritized (AAAs, CIP updates)
  - Development/ design standards**
    - Interagency team led by LDS and DPWES for analysis of flood risk areas, design standards, flooding level of service, and options
    - Task Order with Consultant for study is ongoing
    - Climate change included, using Resilient Fairfax data
    - DPWES/LDS update to the Board scheduled for **April 25<sup>th</sup>**
  - Community outreach and education**
    - DPWES and NVSWCD currently provide outreach and education
    - Resilient Fairfax: boost education, interagency collaboration



### Climate Hazards Addressed:



Lead:	DPWES, LDS
Partners:	DCC, DEMS, DPD, FCPA, OEEC, One Fairfax
Timeline:	Medium-Term (2-5 years)
Cost:	\$\$\$ (\$500k - \$1 million)
Existing Staff:	Partial



# Climate Resilience Services (CRC 2a), Guidance and Education (CRC 2b)

## Progress Updates

- ✓ **Resilience Dashboard** links to resilience-related services (from DPWES, DEMS, DFS, OEEC, NVSWCD, NCS) in one place
- Creating a **Climate Checklist** for residents (both resilience and emissions reduction)
- Interagency collaboration on community **education** and guidance
- Interagency collaboration on expanding access to **services**
- Resilience Hub pilot at Rising Hope → opportunity for pilot training program

### WARMER

Avg Land Surface Temperature  
Daytime, Summer 2013-2020  
High: 126.94 F  
Low: 52.37 F

#### Extreme Heat

Explore DEMS' extreme heat resources

[Click Here →](#)

#### Native Plants

Plant a native or non-invasive, climate-adapted tree.

[Start Now →](#)

#### Cooling Assistance

If you cannot afford air conditioning, apply for Cooling Assistance

[Learn More →](#)

#### Upgrade Your Roof

Keep your home cool with cool roofs, sealed leaks, and light-colored external paint

[Get Started →](#)

### WETTER



# Resilient Fairfax

Climate Adaption and Resilience Plan

October 2022

A Fairfax County, VA publication



## Questions?

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