CLIMATE READY DC

The District's Climate Adaptation & Preparedness Plan

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Sustainable DC Climate Adaptation

2032 Goal:
Advance physical adaptation and human preparedness to increase the District's resilience to future climate change.

2032 TARGET:
Require that all new buildings and infrastructure projects undergo climate impact analysis

Climate Ready DC Development

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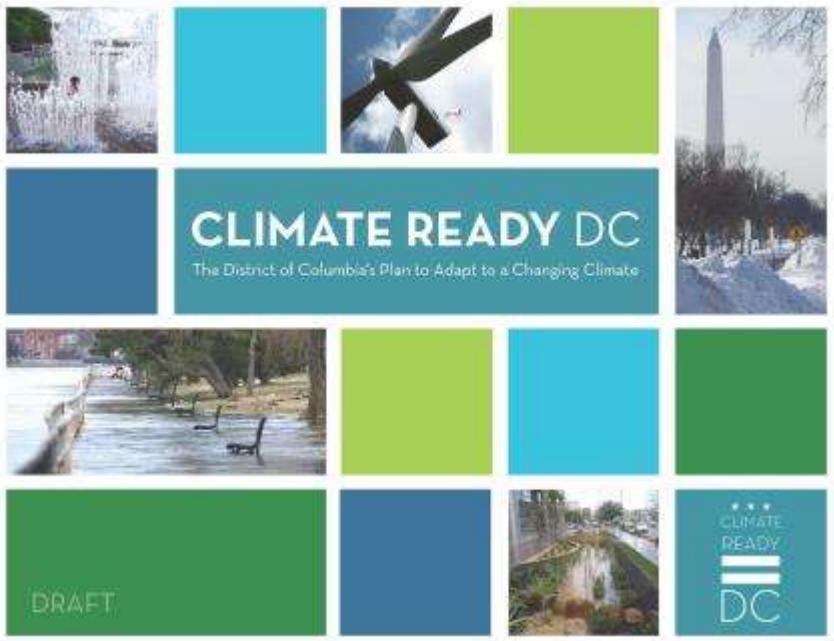
Three-part Analysis to:

1. Analyze Climate Impacts
2. Assess Risks & Vulnerabilities
3. Identify & Prioritize Solutions



Local Climate Change Impacts

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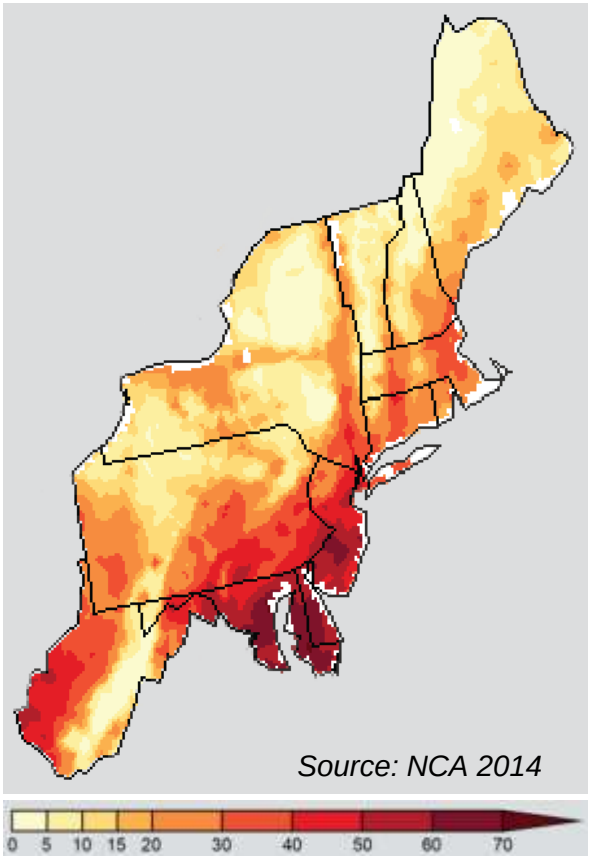
Heat



Number of days > 90°F

Precipitation

Sea Level Rise

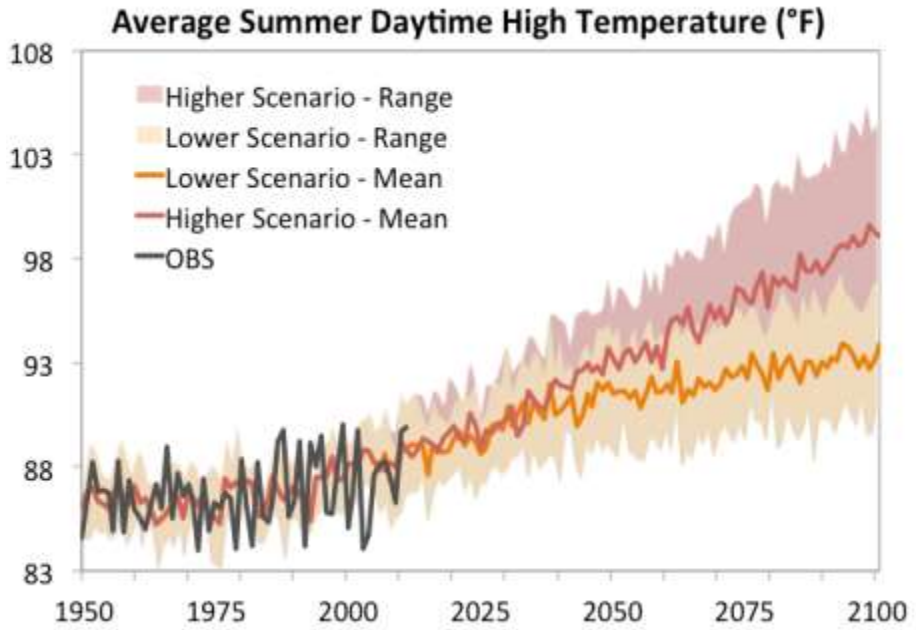
Extreme Weather

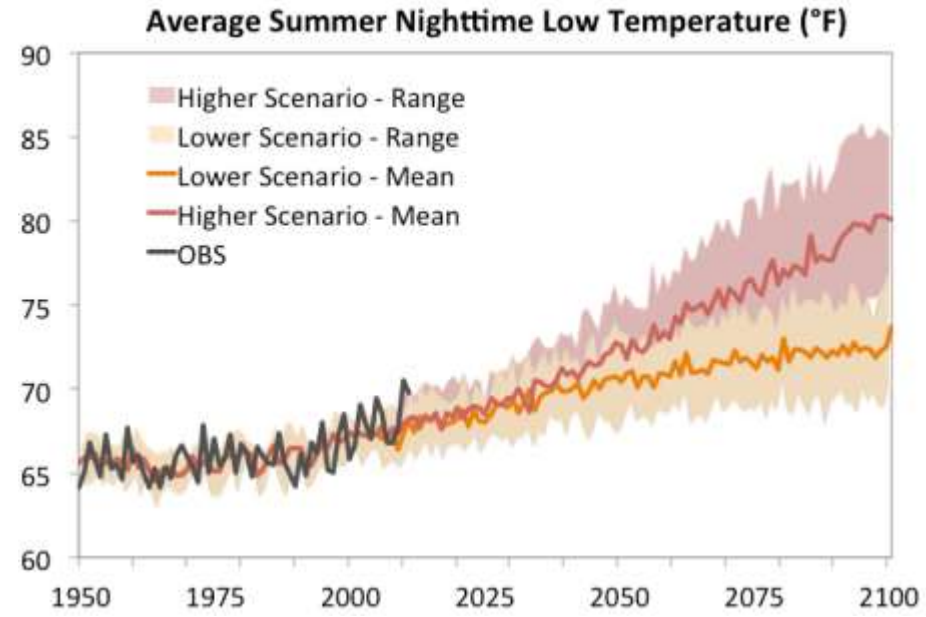
Storm Surge

Temperature

Average and seasonal temperatures in the District are expected to increase.

Under the high scenario (red), average high and low temps are projected to increase by **10°** by the 2080s.





Extreme Heat Events
Days Over 95°F Heat Index

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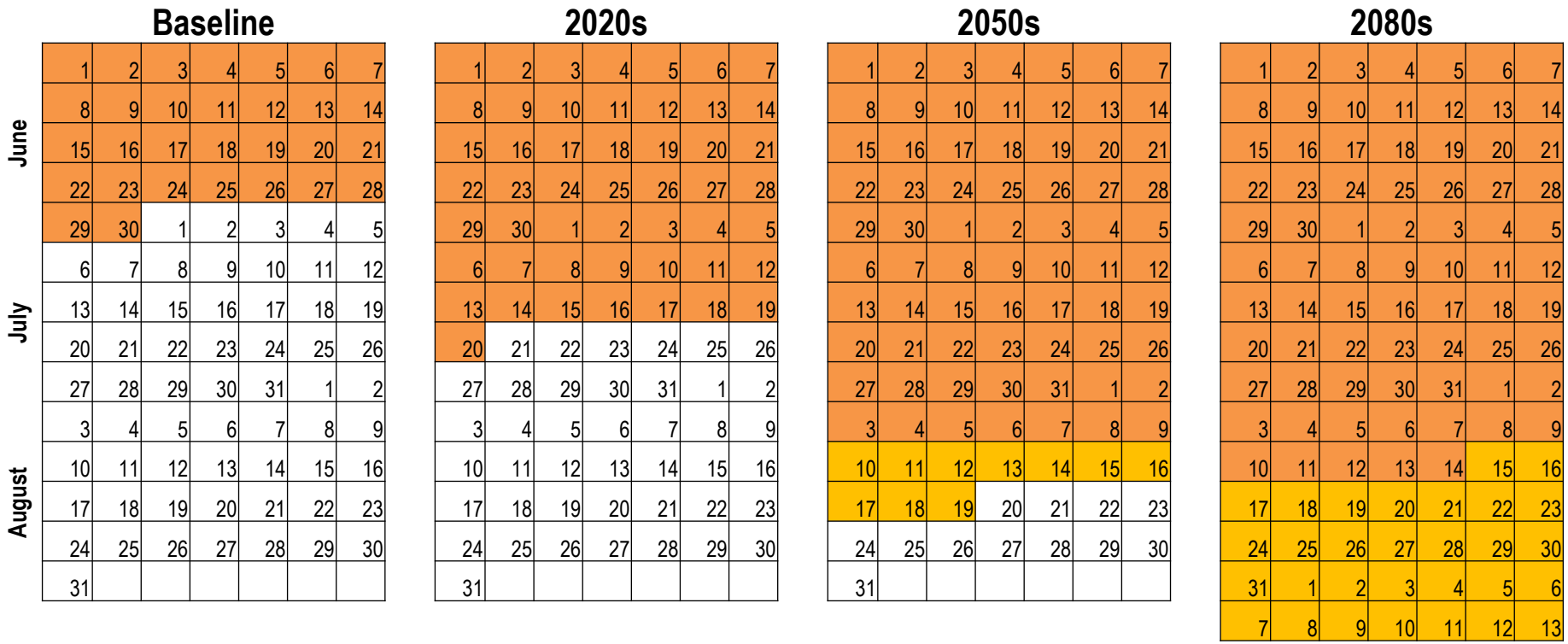
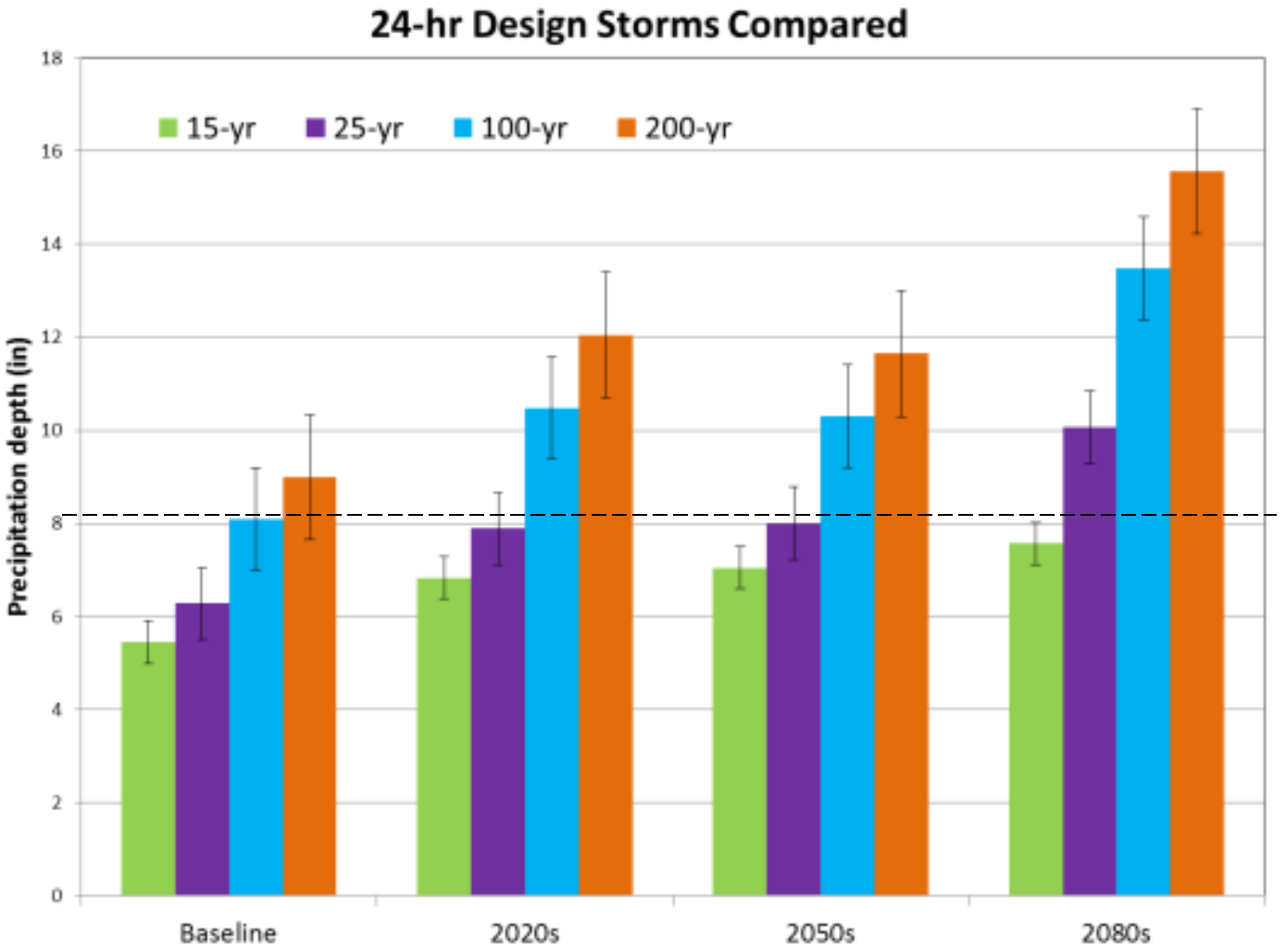


Baseline	2020s	2050s	2080s
30 days	**50** days	**70-80** days	**75-105** days

Days above 95°F Heat Index (low emission scenario)

Days above 95°F Heat Index (high emission scenario)

Extreme Precipitation Events



Today's 100-year rain event (8 inches)

Extreme precipitation events, when a large amount of rain/snow falls in a short period of time are projected to become **more frequent** and **more intense.**

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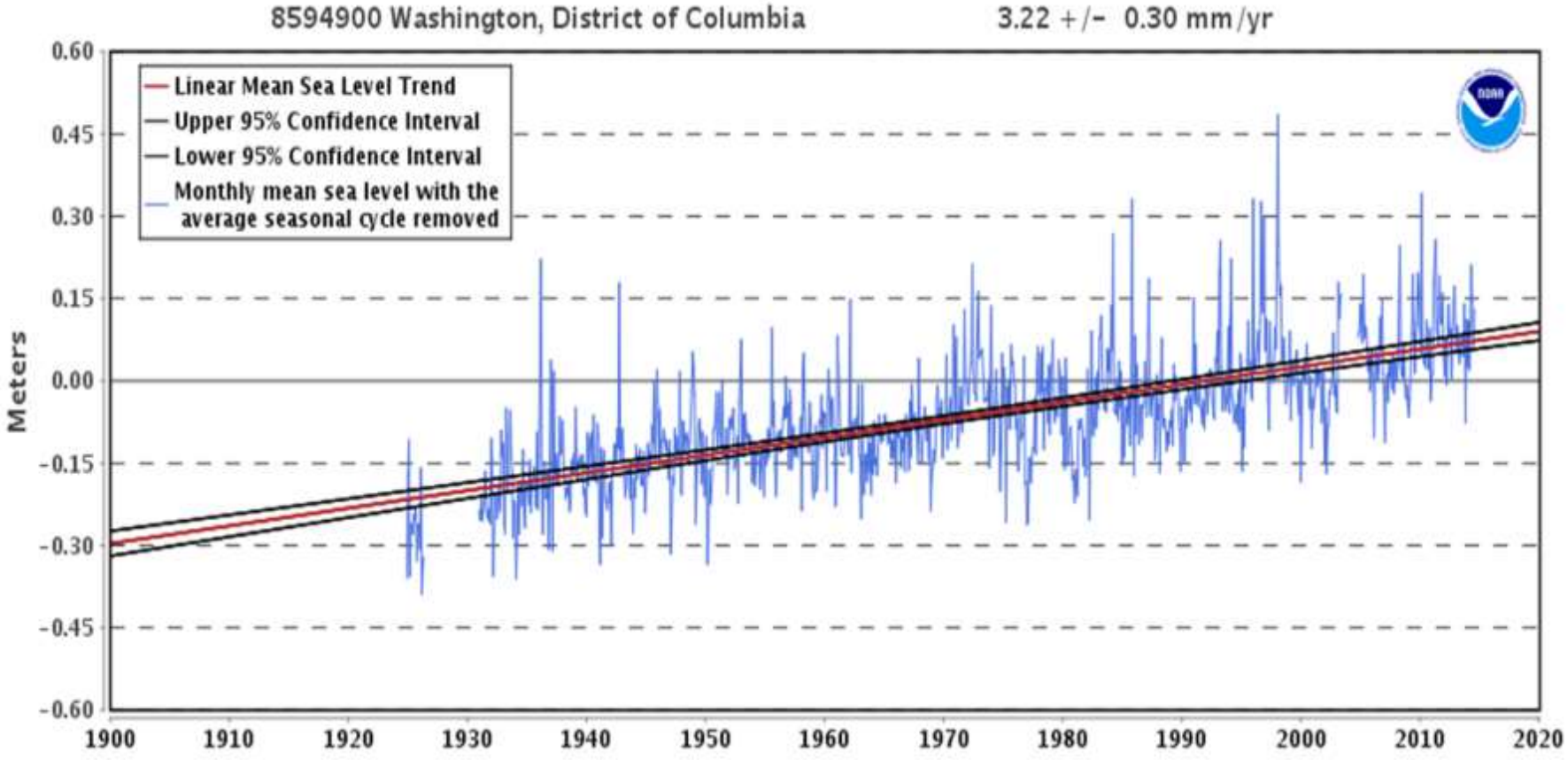
Local Sea Level is Rising



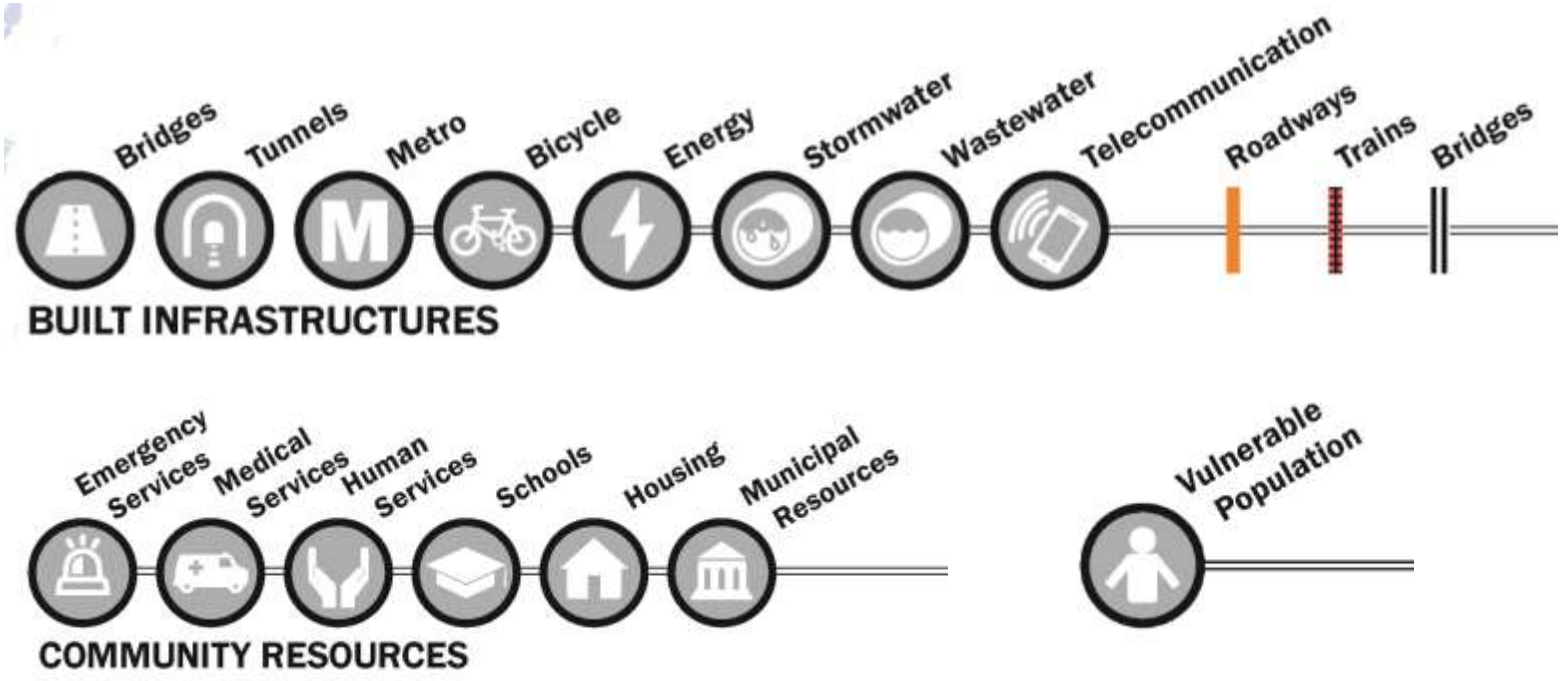
Source: NOAA gauge 8594900 in Washington Channel

Local sea level has risen 11” since 1924.

Vulnerability & Risk Assessment

Goal: Identify the District's infrastructure, public facilities, and populations at greatest risk to climate change.

Scope of Assessment



Vulnerability & Risk Assessment

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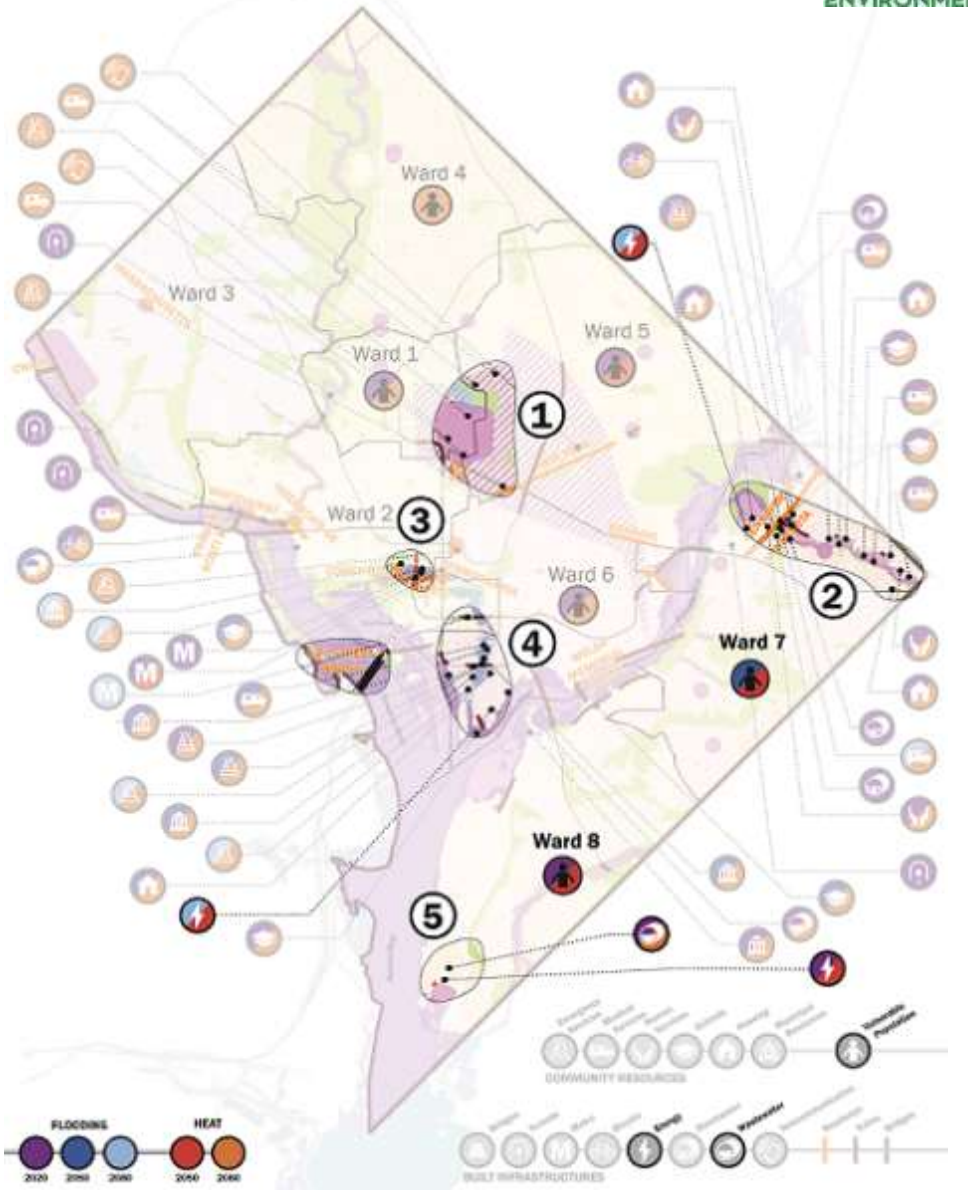
Priority Planning Areas

1. Bloomingdale & LeDroit Park
2. Watts Branch
3. Downtown/Federal Triangle
4. Southwest/Buzzard Point
5. Blue Plains

+Vulnerable Populations in Ward 7 & Ward 8



Plan Organization

Transportation & Utilities

Buildings & Development

Neighborhoods & Communities

Governance & Implementation

TRANSPORTATION + UTILITIES

Goal: Improve transportation and utility infrastructure to maintain viability during periods of extreme heat, extreme weather, and flooding.

#	Action
TU 1.0	Develop site-level adaptation plans for all at-risk facilities.
TU 2.0	Increase the resilience of energy systems
TU 3.0	Increase the resilience of water systems
TU 4.0	Increase resilience of communication systems
TU 5.0	Increase resilience of transportation systems

Microgrids

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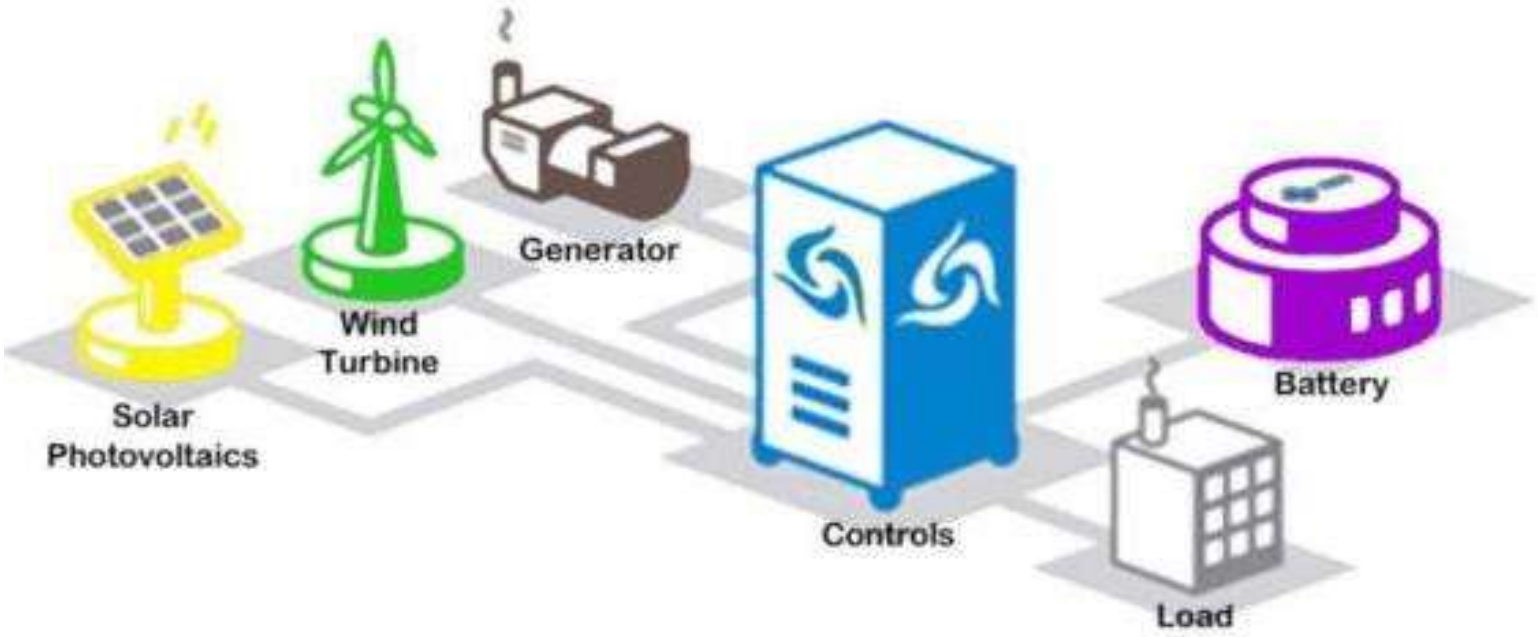

Flood Proofing

Flood proofing critical facilities like power substations and water pumping stations can prevent outages.

BUILDINGS + DEVELOPMENT

Goal: Upgrade existing buildings and design new buildings and development projects to withstand climate change impacts.

#	Action
BD 6.0	Provide back-up power for emergencies at all identified critical facilities
BD 7.0	Improve thermal safety of buildings during extreme heat events
BD 8.0	Pursue deep energy and water efficiency for all buildings
BD 9.0	Incorporate climate resilience into development planning and review
BD 10.0	Leverage land-use planning to promote resiliency
BD 11.0	Provide incentives to private property owners and developers for flood resilience

Resilient Buildings

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NEIGHBORHOODS + COMMUNITIES

Goal: Make neighborhoods and communities safer and more prepared by strengthening community, social, and economic resiliency.

#	Action
NC 12.0	Improve emergency preparedness and planning related to climate change
NC 13.0	Reduce risks of extreme heat and the urban heat island
NC 14.0	Strengthen Community Cohesion for Safety + Resilience
NC 15.0	Develop Eco-Resiliency District and Community Resilience Hubs

Cool Neighborhoods

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Cool roofs, trees, light colored pavement, and green space can reduce urban heat island impacts and save lives.

Community Resilience

Build capacity for **community level** preparedness and resilience planning.

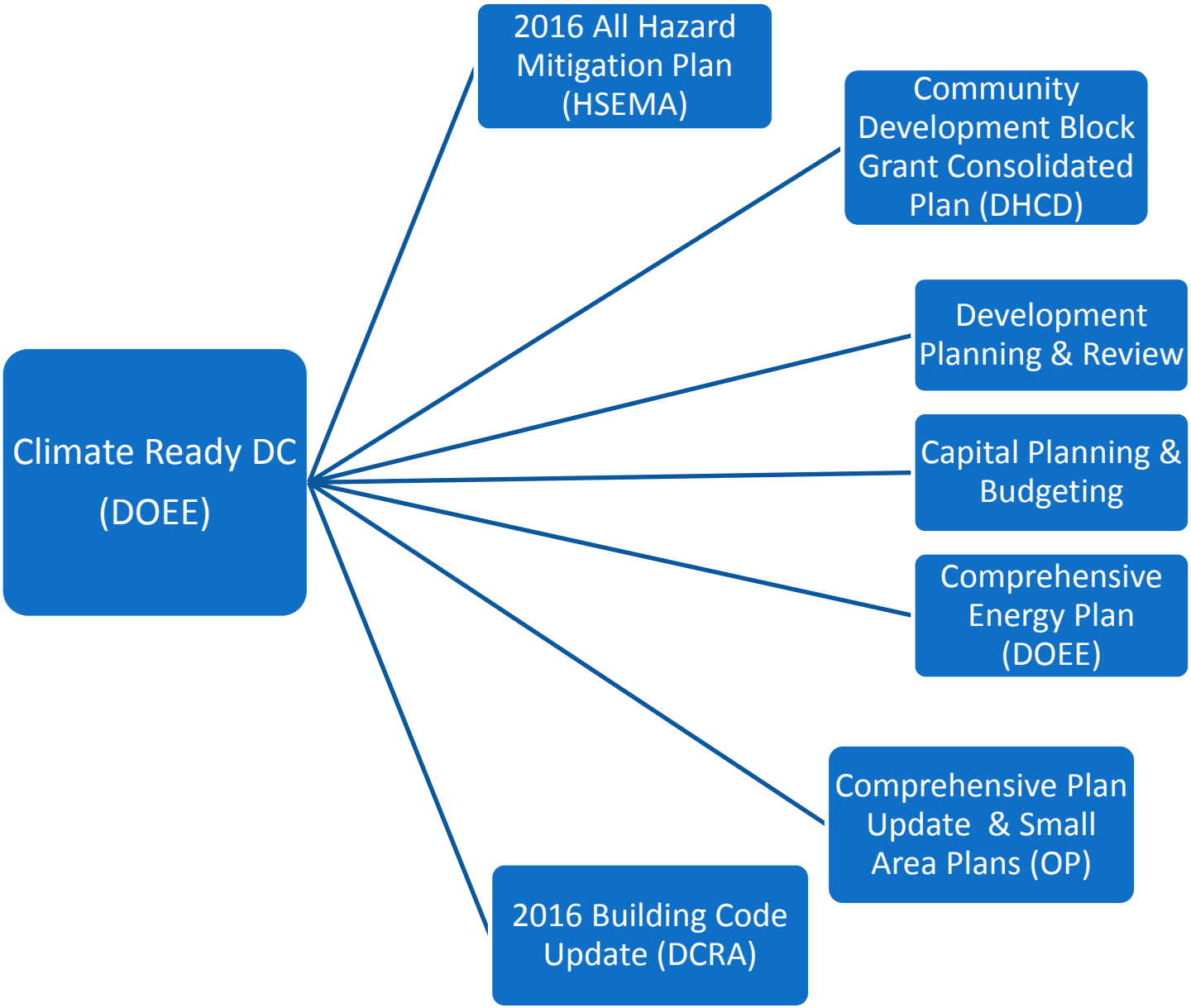
The **Evacuteer** organization in New Orleans, in partnership with the city, recruits, trains, and manages evacuation volunteers who assist with New Orleans' emergency response efforts.

GOVERNANCE + IMPLEMENTATION

Goal: Establish the policies, structures, and monitoring and evaluation procedures to ensure successful implementation of the adaptation plan.

#	Action
GI 16.0	Continue to analyze climate vulnerability to account for latest science
GI 17.0	Integrate Climate Ready DC into related planning efforts
GI 18.0	Establish the necessary structures to ensure successful implementation

Opportunities for Implementation & Integration



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