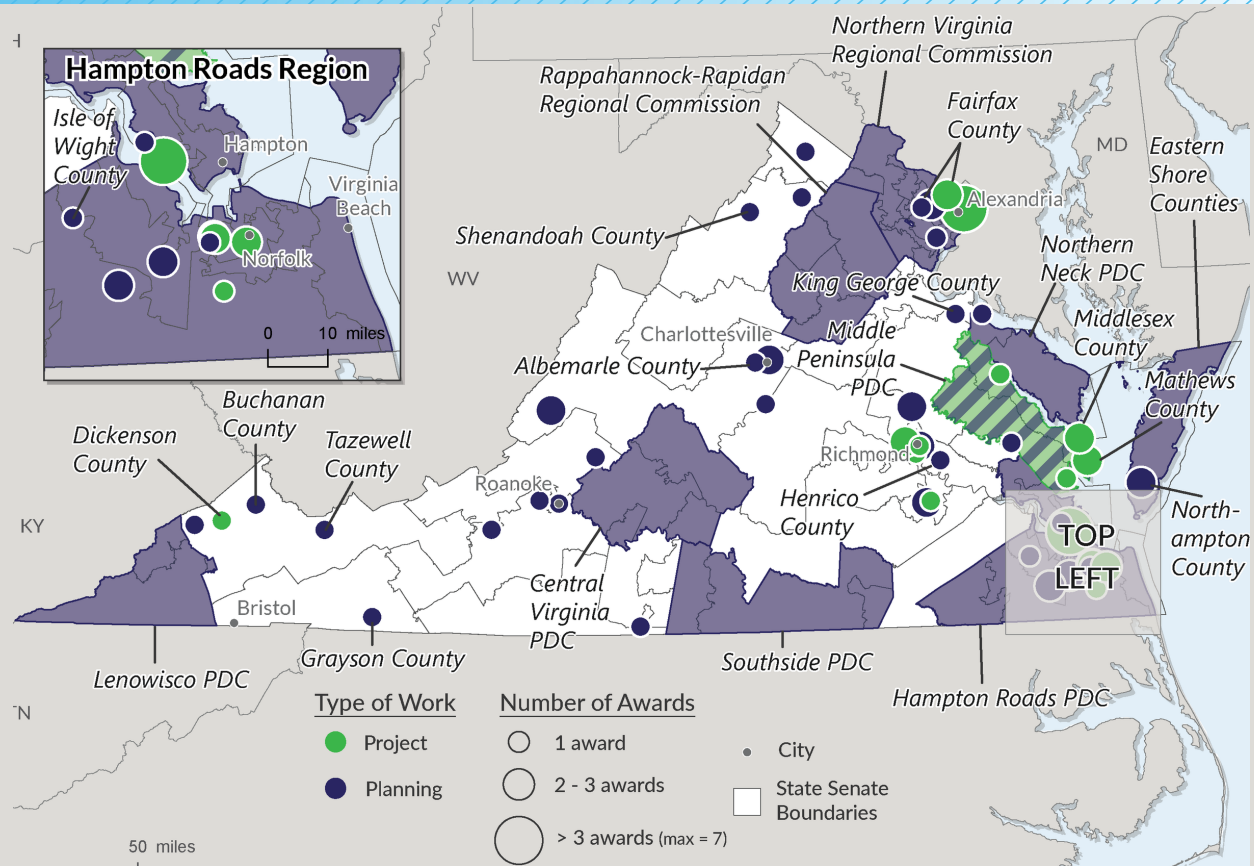


RGGI GRANTS

COMMUNITY FLOOD PREPAREDNESS FUND



Virginia passed the Clean Energy and Community Flood Preparedness Act of 2020, allowing the Commonwealth to join the Regional Greenhouse Gas Initiative (RGGI) and establishing the Community Flood Preparedness Fund (CFPF). RGGI is a market-based program of 11 states that generates funds while reducing electricity sector emissions. Half of its proceeds fund low-income energy efficiency programs and 45% fund the CFPF.

The CFPF provides loans and grants for projects, studies, and planning throughout the Commonwealth to identify and address flood vulnerability for communities. CFPF funds can build capacity in localities that need additional resources to develop comprehensive flood vulnerability assessments and action-oriented flood mitigation approaches.

CITY OF NORFOLK

The City of Norfolk is a highly urbanized, relatively flat community that serves as a commercial center for Hampton Roads. Norfolk is a low-income community classified as moderately socially vulnerable in Virginia, with 20% of residents living below the federal poverty standard. The city is increasingly at risk from flooding, damage from coastal storms, and facing future flood impacts on its urban stormwater systems due to rainfall-drive flooding.



\$ 27,463,800



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1 NORFOLK COASTAL STORM RISK MANAGEMENT ANALYSIS

This CFPF award will support a study on coastal storm processes that is necessary for the continued design of the city's coastal resiliency infrastructure. The new models and calculations will increase understanding of storm surge and wave mitigation, as well as the hydrological impacts of flood protection measures.

2 LAKE WHITHURST WATERSHED STUDY

Norfolk's Lake Whitehurst is a managed drinking water reservoir with a nearly 3000 acre watershed. Stormwater runoff entering the lake has begun to exceed the managed level of the lake and result in flooding. Using this CFPF award, Norfolk will conduct a hydrology and hydraulics analysis of Lake Whitehurst's drainage in an effort to determine present and future impacts of tidal and major storm events on the watershed.

3 WATERSHED MASTERPLAN STUDY & PURCHASE OF FLOOD SENSORS

This CFPF award will enable Norfolk to revise its Coastal and Precipitation Flooding Master Plan to incorporate best available science for sea level rise and future rainfall projections and update ordinance recommendations accordingly. The City will conduct a system-wide inventory of stormwater infrastructure, including future conditions, to develop realistic metrics and timeframes for flood risk reduction and prioritize project recommendations that incorporate social equity and nature-based solutions.

4 RIVERSIDE MEMORIAL CEMETERY SHORELINE RESTORATION

This CFPF award will stabilize over 1,500 linear feet of shoreline and restore nearly an acre of historical wetlands along Riverside Memorial Cemetery. Over 95% of the project will be nature-based solutions like bank fill, grading, and other living shoreline techniques. This project will protect and enhance a valuable community asset, provide coastal erosion protection, enhance aesthetics and wildlife habitat, and improve the water quality of a creek through the Campostella neighborhood and the Elizabeth River as a whole.

5 GHENT-DOWNTOWN-HARBOR PARK FLOOD PROTECTION BARRIER SYSTEM

The City of Norfolk, along with US Army Corps of Engineers Norfolk District, will complete the analysis and planning necessary to begin construction of a floodwall segment located along the Elizabeth River from Harbor Park to the Downtown Berm area, which would connect to the existing downtown Norfolk floodwall. The flood protection system will include levees, floodwalls, surge barriers, and the integration of nature-based solutions like living shorelines and wetland restoration.

WHY IT MATTERS

The City of Norfolk is experiencing the fastest rate of relative sea level rise along the Atlantic seaboard, in addition to increasing precipitation and other nuisance flooding. These CFPF awards will enable the City to advance strategic approaches that address identified stresses, potential shocks, and incorporate nature-based solutions to reduce flood risk and build resilience.