



# **Climate, Environment and Coastal Protection Committee Presentation**

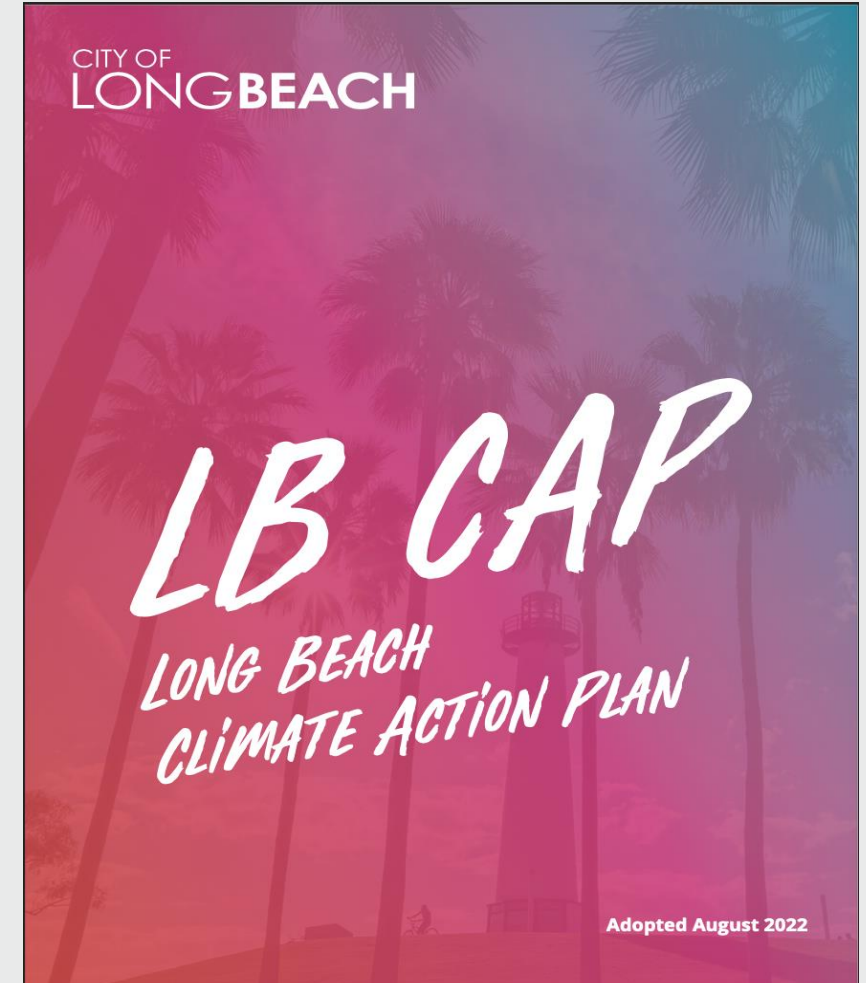
**September 26, 2023**

# Agenda

- Climate Action Plan Overview
- Inflation Reduction Act Overview &
- Grant Strategy
- Inflation Reduction Act Funding Opportunities
- Summary of Projects

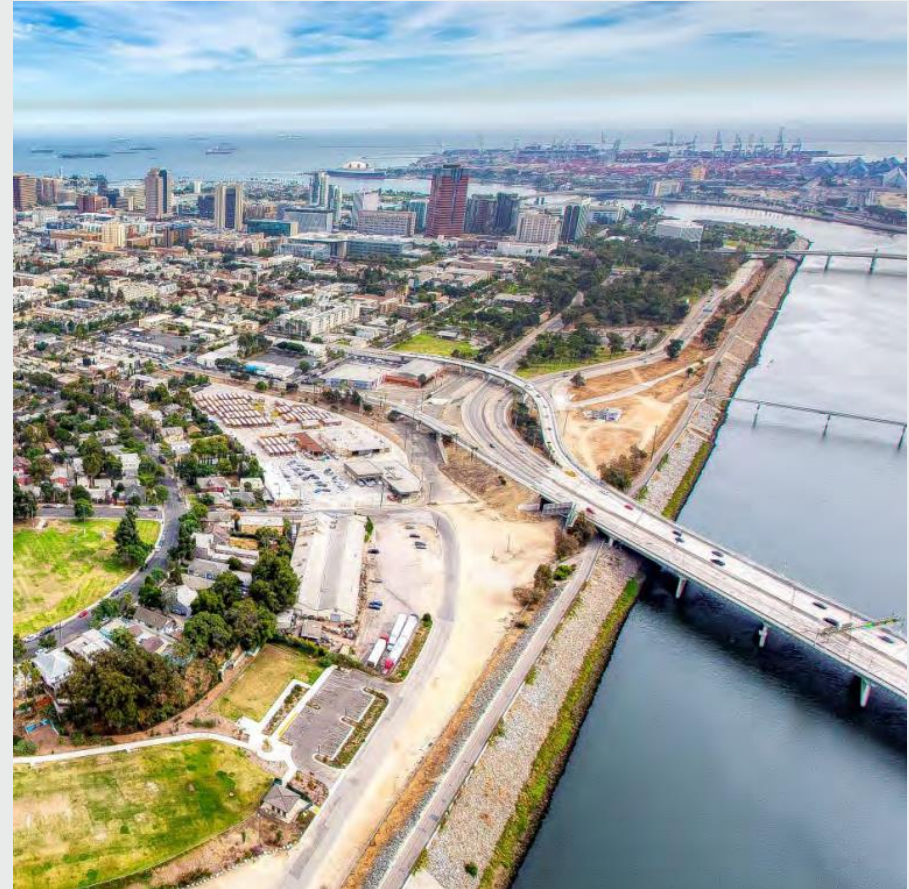
# Climate Action Plan - Overview

- Long Beach Climate Action Plan (LB CAP) was adopted in August 2022
- Helps City comply with various local, regional, state, and federal regulations
- Actions to reduce impact people have on climate system by reducing GHG emissions (mitigation)
- Actions to reduce negative impact climate change has on infrastructure, services, and the well-being of the community (adaptation)



# Climate Action Plan - Vision

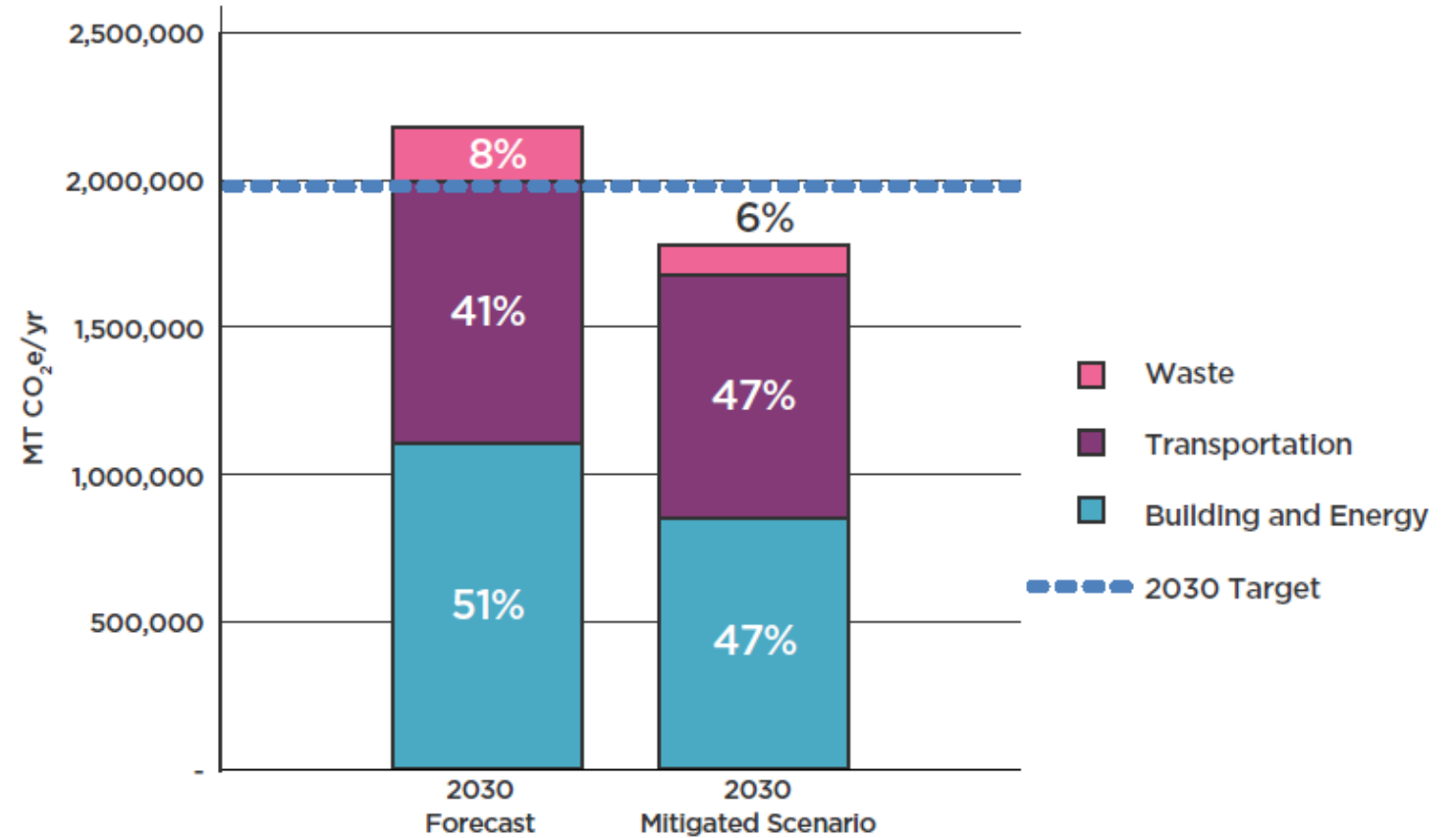
- Create a more sustainable, resilient, and equitable city by addressing climate change in a way that remedies existing environmental health disparities while also improving health, quality of life, and economic vitality throughout Long Beach



# Climate Action Plan - Mitigation

- Building + Energy
- Transportation
- Waste

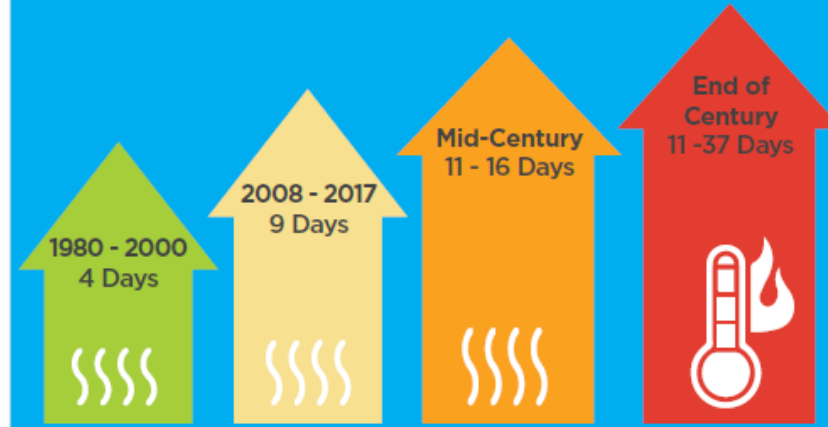
Figure 21: 2030 Reduction Target



# Climate Action Plan - Adaptation

- Extreme Heat
- Air Quality
- Drought
- Sea Level Rise + Flooding

## Projected days of extreme heat (95 degrees and above)

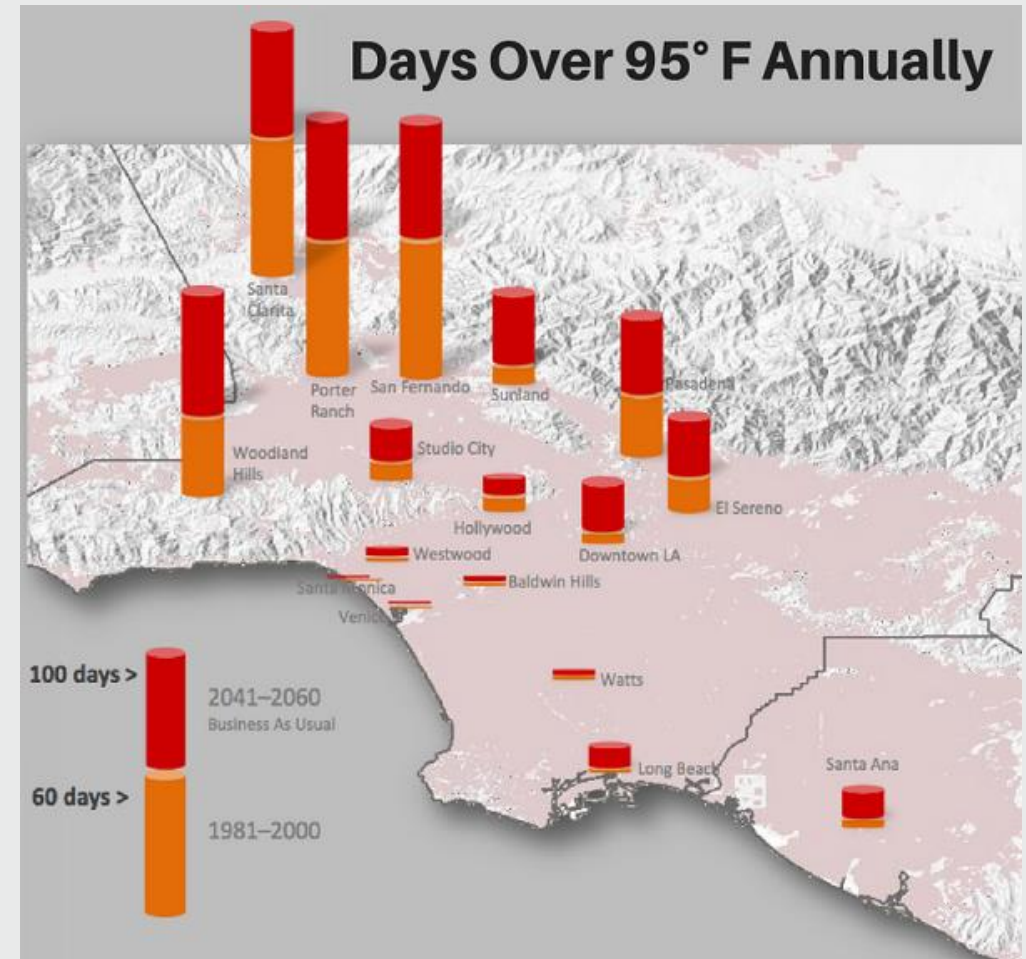


As extreme heat gets worse, the urban heat island effect could accelerate. The urban heat island effect impacts low-income areas and communities of color in North, Central and West Long Beach the most.

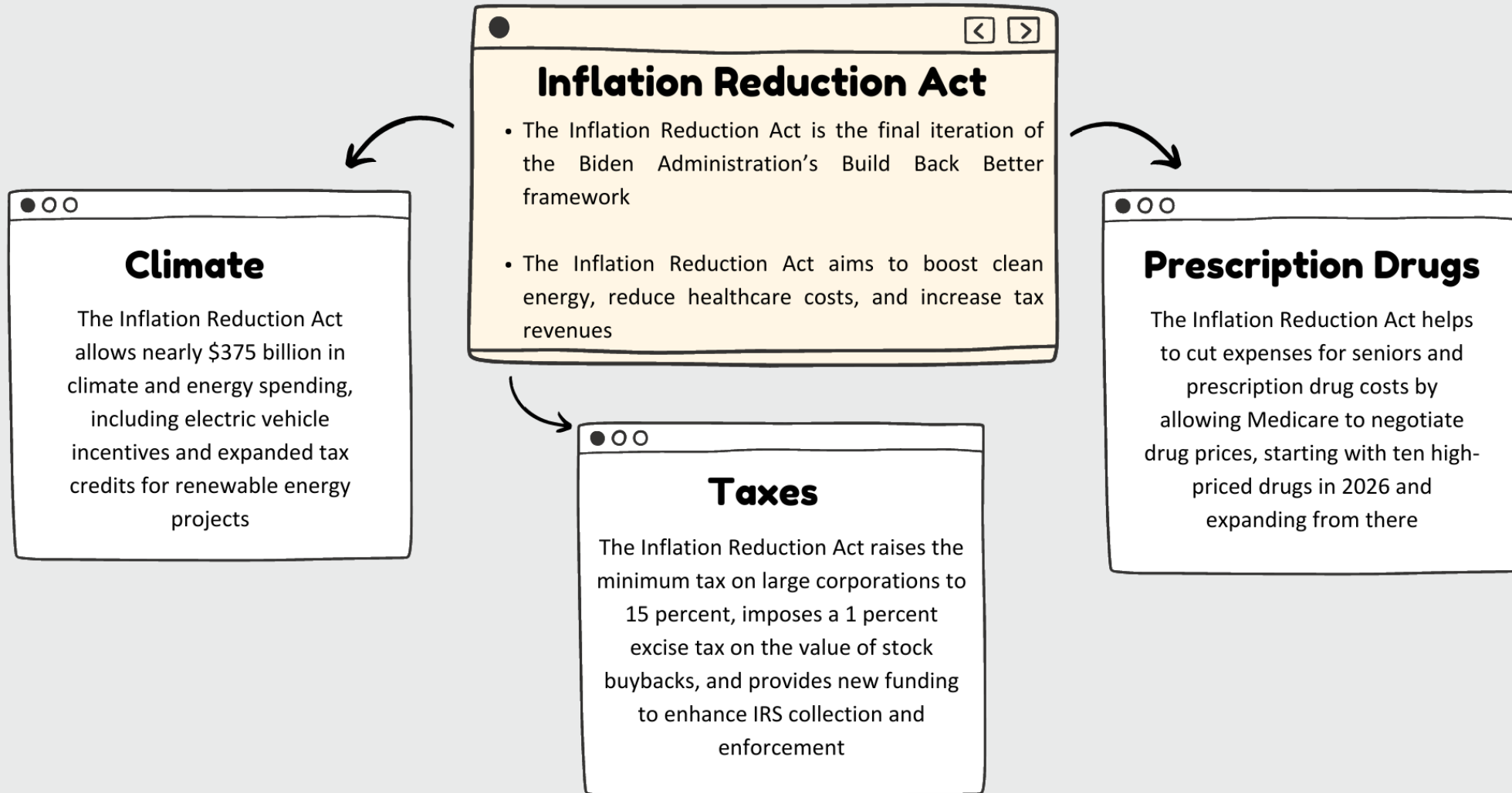


# Climate Action Plan – Why Now?

- Coastal areas and central Los Angeles will experience three times more days of temperatures over 95°F
- Projected extreme heat days is 11-16 days by 2050 and 11-37 days by 2100
- Human-caused climate change has doubled area of forest burned in the West
- Sea level has risen 8 inches since 1880
- Projected sea level rise is 11 inches by 2023, 24 inches by 2050, and 37-66 inches by 2100



# Overview of the Inflation Reduction Act





# Inflation Reduction Act Tax Credit Programs

- The Inflation Reduction Act includes significant investments in tax credit programs that advance climate goals, including:
  - Energy tax provisions for electric vehicle adoption
  - Production tax credits to accelerate U.S. manufacturing of solar panels, wind turbines, batteries, and critical minerals processing.
  - Tax credits and rebate programs for consumers who add renewable energy items to their homes

# Inflation Reduction Act Energy Spending

- The Inflation Reduction Act also invests in the clean energy transition through the following types of programs:
  - Offshore wind in the Gulf and southern states
  - Increase the royalty rate for new offshore oil and gas leases
  - Funding for the Energy Department to implement a “Home Owner Managing Energy Savings” or HOMES rebate program for energy saving retrofits
  - Loans or refinancing guarantees for energy infrastructure projects to reduce emissions

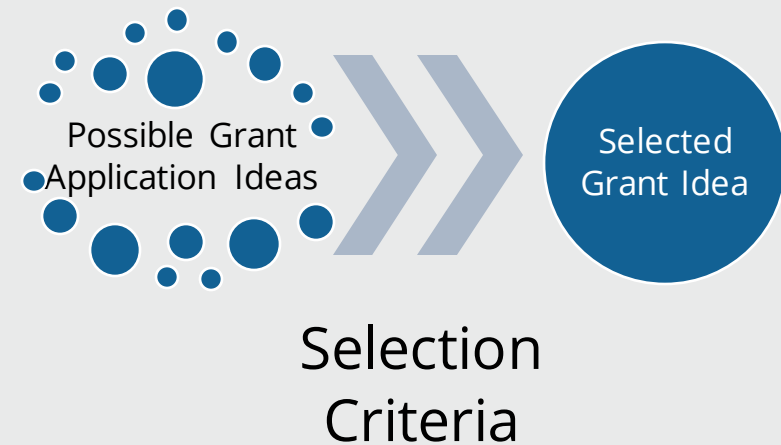
# Overview of the Climate-Related Grant Opportunities

- Inflation Reduction Act includes investments to lower energy costs, accelerate investment in clean energy solutions, decrease greenhouse gas emissions, and create good-paying jobs and economic opportunities for workers
- Investments advance the Justice40 Initiative, which commits to delivering 40% of the overall benefits of climate, clean energy, and related federal investments to marginalized communities that have been overburdened by pollution
- 107 climate-related programs and initiatives will be funded through the Inflation Reduction Act, and of those, the City could be eligible to apply for 13 competitive grant programs

# City Grant Strategy

- Departments identify priority projects in need of grant funding every year and include in grant list
- Project prioritization guidelines: aligned with Strategic Vision 2030, located in equity investment area, meets community need, master plan approved
- Review priority projects that would be eligible/competitive based on the grant opportunity's selection criteria

***Important Strategy:***  
***Match an existing project need  
to the grant opportunity***



# IRA Funding Opportunity

- National Oceanic and Atmospheric Administration (NOAA): Climate Resilience Regional Challenge Grant
  - Regionally significant projects that build resilience of coastal communities to extreme weather & other climate change impacts
  - Two Funding Tracks
    - Track 1: \$500K to \$2M for strategy development
    - Track 2: \$15M to \$75M for project implementation
  - Eligibility
    - State and local governments; tribes and tribal organizations; nonprofit organizations; and institutions of higher education (from/supporting coastal and Great Lakes communities)
  - Timeline
    - Letters of intent due August 21 (invites to submit full proposal in early Oct.)
    - Full application due February 13

# NOAA Climate Resilience Regional Challenge Grant

- Evaluation criteria focuses heavily on regional collaboration, equity, outreach, risk reduction and enduring capacity with focus on
  - Marginalized, underserved and underrepresented communities
  - Building capacity within and across regional networks
- Project Proposals scored based on how well they address the following merit criteria:
  - Risk Reduction, Regional Coordination and Collaboration, Equity and Inclusion, and Enduring Capacity
  - Technical and Scientific Merit
  - Overall Qualifications of the Funding Applicants
  - Project Costs
  - Outreach and Engagement

# NOAA Climate Resilience Regional Challenge Grant

- The Regional Collaborative Building and Strategy Development fund is designed to support the following activities, including help with:
  - Building and expanding regional partnerships; Engaging and partnering with tribes and marginalized, underserved, underrepresented communities; Assessing risk and vulnerability. Planning resilience strategies and adaptation actions; Building community and workforce capacity for climate adaptation efforts.
- The Implementation of Resilience and Adaptation Actions fund is designed to support regionally significant actions such as:
  - Acquiring vulnerable land; Building natural infrastructure; Strengthening or protecting public access to coastal natural resources; Building regional capacity for ongoing actions that increase resilience; Planning and preparing for community-led relocation; Updating state and local codes and policies.
- Ineligible Projects
  - Placement of sand on beaches for renourishment; construction of shoreline stabilization structures (e.g. breakwaters, riprap, jetties, breakwaters, seawalls)

# NOAA Grant Proposal Summaries

- Solar in Long Beach Marinas Feasibility Study (Track 1, requested \$2M)
  - Investment grade audit that examines the cost, benefit, and other considerations of installing solar canopies in marina parking lots
  - Assess whether the power produced can provide electricity for boat slips and new EV charging stations that will power City vehicles
  - Study is replicable/scalable and will be shared with other cities
- Long Beach Municipal Stormwater Treatment (Track 2, requested \$20M)
  - Connect five stormwater pump stations to LB-MUST to convey additional dry weather and first flush flows
  - Introduce one-acre of community greenspace in park-poor area with underground cistern for storing treated water for non-potable uses
  - Improve water quality and urban runoff control in LA County region



# NOAA Grant Proposal Summaries

- Alamitos Bay Water Quality Enhancement Project (Track 2, requested \$73M)
  - Install new fish-friendly pumps to maintain existing water circulation and protect water quality in Alamitos Bay
  - New pumps needed after phasing out AES pumps that have circulated water in the bay as part of operation for 50 years
  - Maintaining water quality will ensure that Alamitos Bay can continue to serve as a cooling destination during heat events for the region
- Long Beach Living Shoreline Project (Track 2, requested \$75M)
  - Implement dune network using native landscaping along 1 mile of peninsula
  - Protect peninsula from sea level rise and flooding
  - Aligned with similar proposal submitted by LA County

# Additional IRA Grant Applications

- USDA Forest Service Urban and Community Forestry Program (*awarded*)
  - Applied for \$5M, awarded \$1M
  - Use stormwater infiltration (rain garden, rain barrel, cistern) and street trees to improve water quality, reduce stormwater pollution, and mitigate heat
  - Project will be located in disadvantaged communities in North, West, and Central Long Beach
- EPA Climate Pollution Reduction Grant (*awarded*)
  - LA County successfully applied for a climate action planning grant on behalf of the Los Angeles-Long Beach-Anaheim Metro Area (approx. \$1M)
  - LA County will apply for implementation grant on behalf of the region to reduce GHG emissions (Long Beach partnering)
  - Grant awards from \$2M - \$500M, application due April 1, 2024

# Future IRA Grant Opportunities

- DOT Reconnecting Communities and Neighborhoods (due Sept. 28)
  - Advance community-centered transportation connection projects, with a priority for projects that benefit disadvantaged communities that improve access to jobs, education, healthcare, food, nature, and recreation
  - Grant awards from \$2M - \$5M for planning, no min/max for construction
- NOAA's Transformational Habitat Restoration and Coastal Resilience Grant (due Nov. 17)
  - Support habitat restoration projects that restore marine/coastal ecosystems using approaches that enhance resilience to climate hazards
  - Grant awards from \$1M - \$25M



**Thank you**

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