

COMPREHENSIVE ENVIRONMENTAL AND CLIMATE ACTION PLAN (CECAP)

DALLAS PARK BOARD

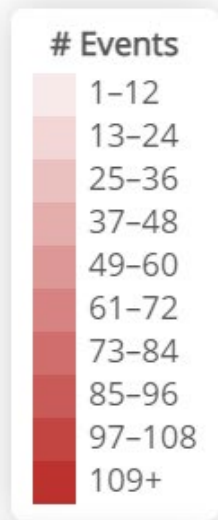
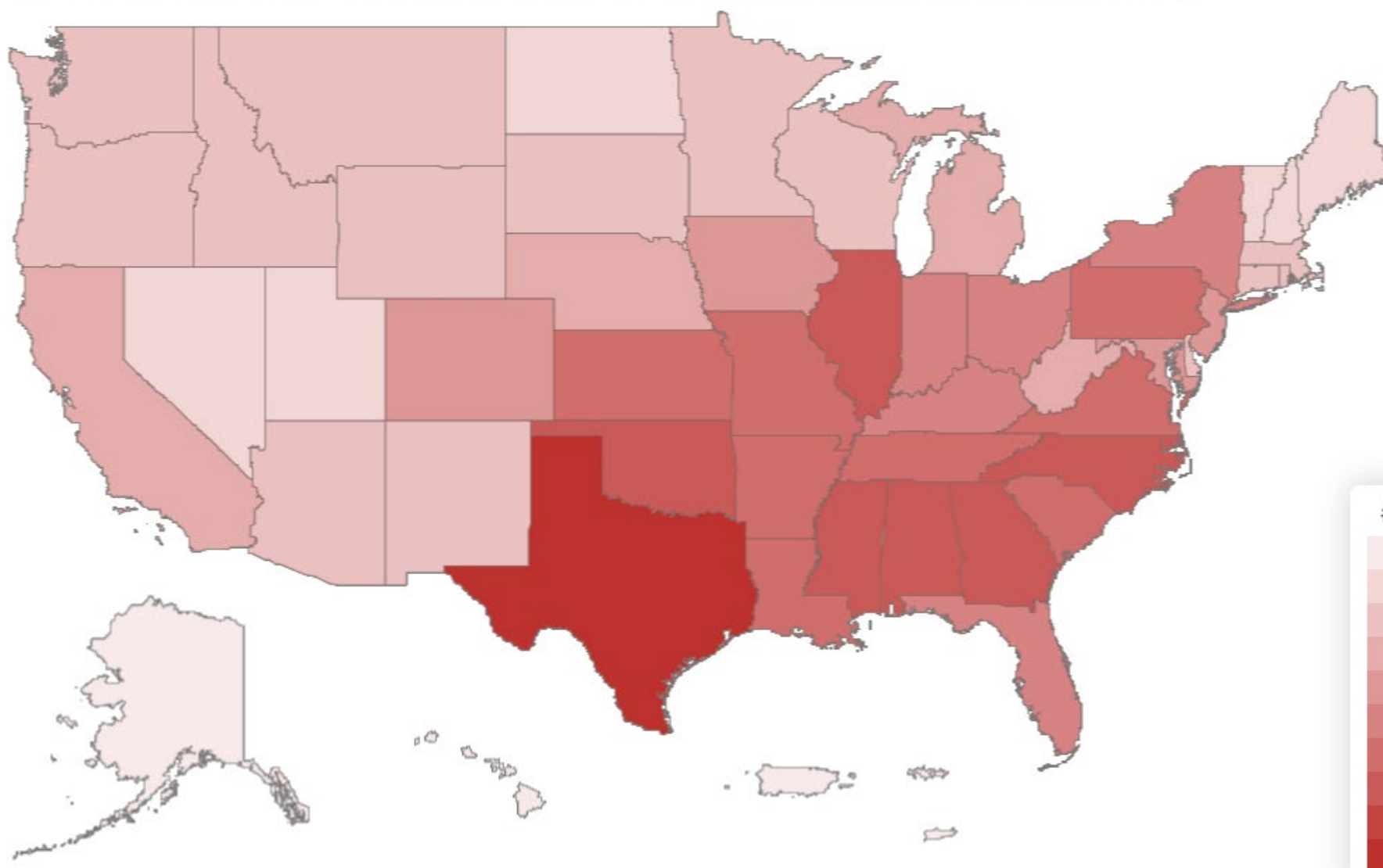
JUNE 17, 2021

Overview

- Local Climate Action Drivers
- Economic Risks from Inaction
- Climate Mayors Coordination
- CECAP
- Performance Assessment & Reporting



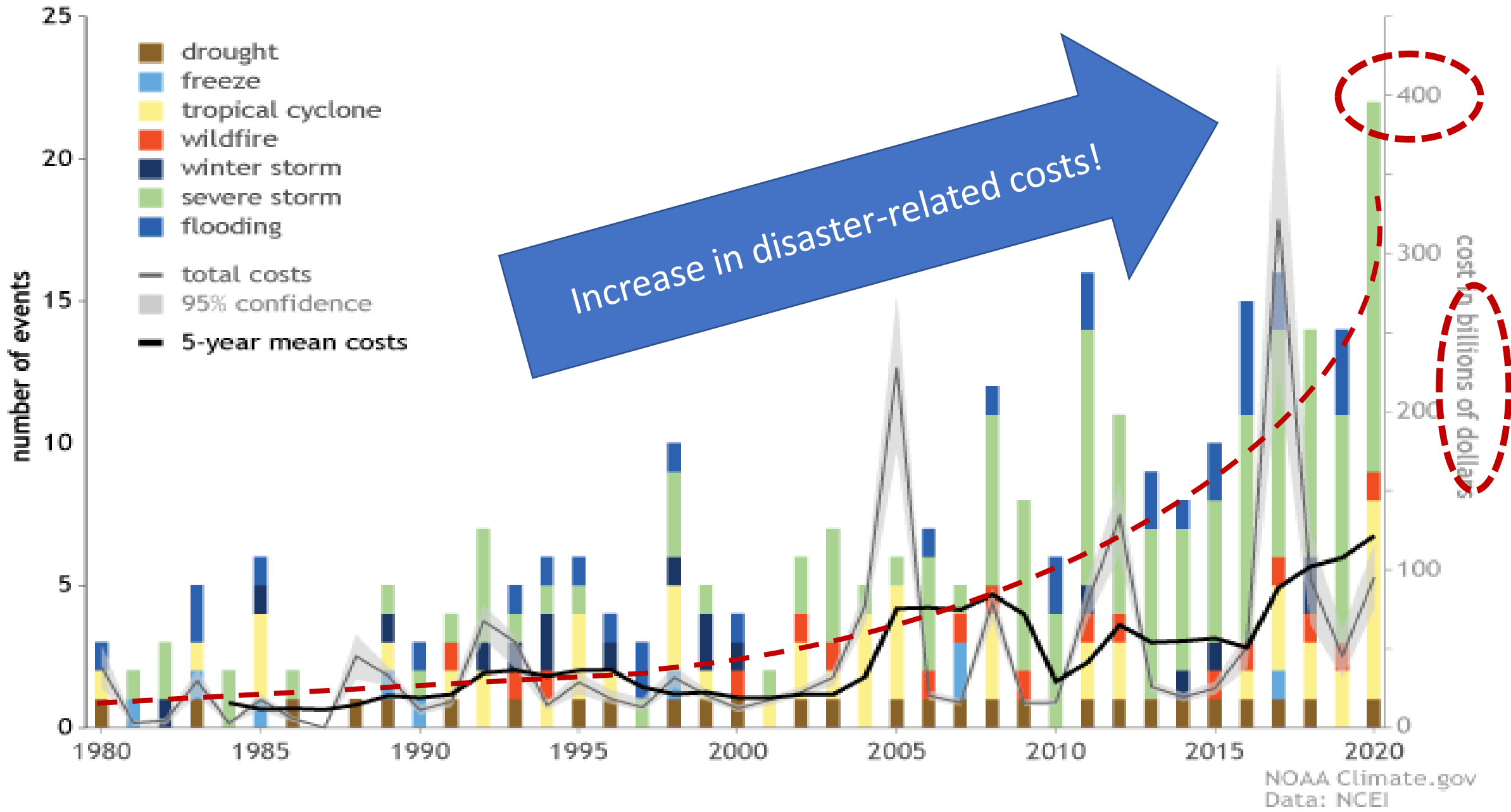
1980-2020 Billion-Dollar Weather and Climate Disasters (CPI-Adjusted)



United States

■ Drought: 28	■ Flooding: 33	■ Freeze: 33	■ Severe Storm: 9	128
■ Tropical Cyclone: 52	■ Wildfire: 18	■ Winter Storm: 17	■ All Disasters: 285	

Billion-dollar disasters and costs (1980-2020)



Construction Return on Investment



- FEMA, HUD, EDA, ICC, AIA, NFPA, Insurance Institute for Business & Home Safety (IBHS), & others
- The project team found a **national benefit of \$11 for every \$1** invested in Code updates.
- FEMA, HUD and U.S. Economic Development Administration (EDA) found hazard mitigation funding **can save the nation \$6 in future disaster costs, for every \$1 spent.**



https://cdn.ymaws.com/www.nibs.org/resource/resmgr/docs/NIBS_MitigationSaves2018-Sum.pdf



U.S. Climate Mayors Commitment

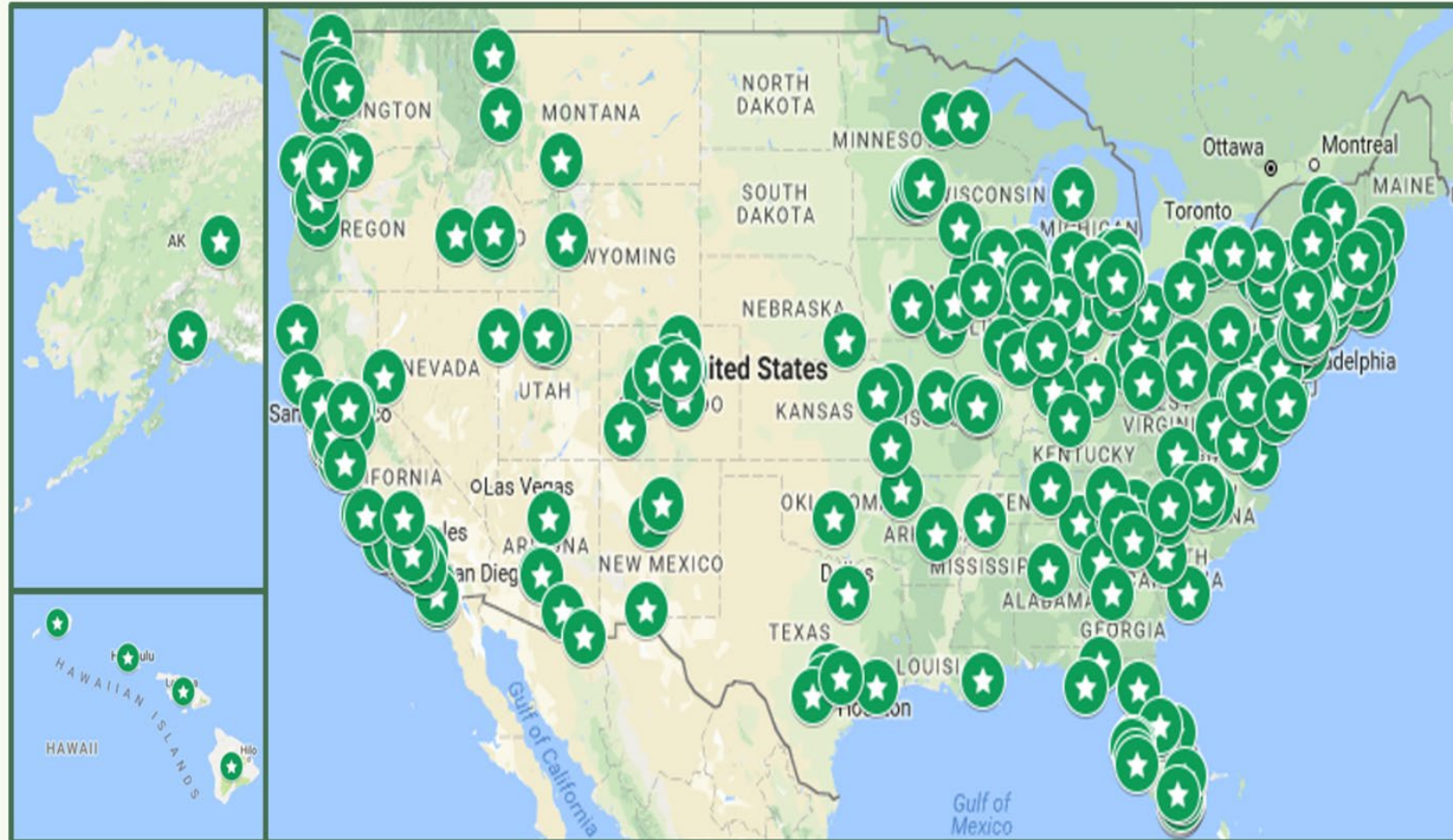


474!!

~~407~~ US #ClimateMayors, representing 70 million Americans, have committed to adopt, honor and uphold the climate goals of the Paris Agreement



CLIMATEMAYORS.ORG



CECAP Centered on Environmental Justice

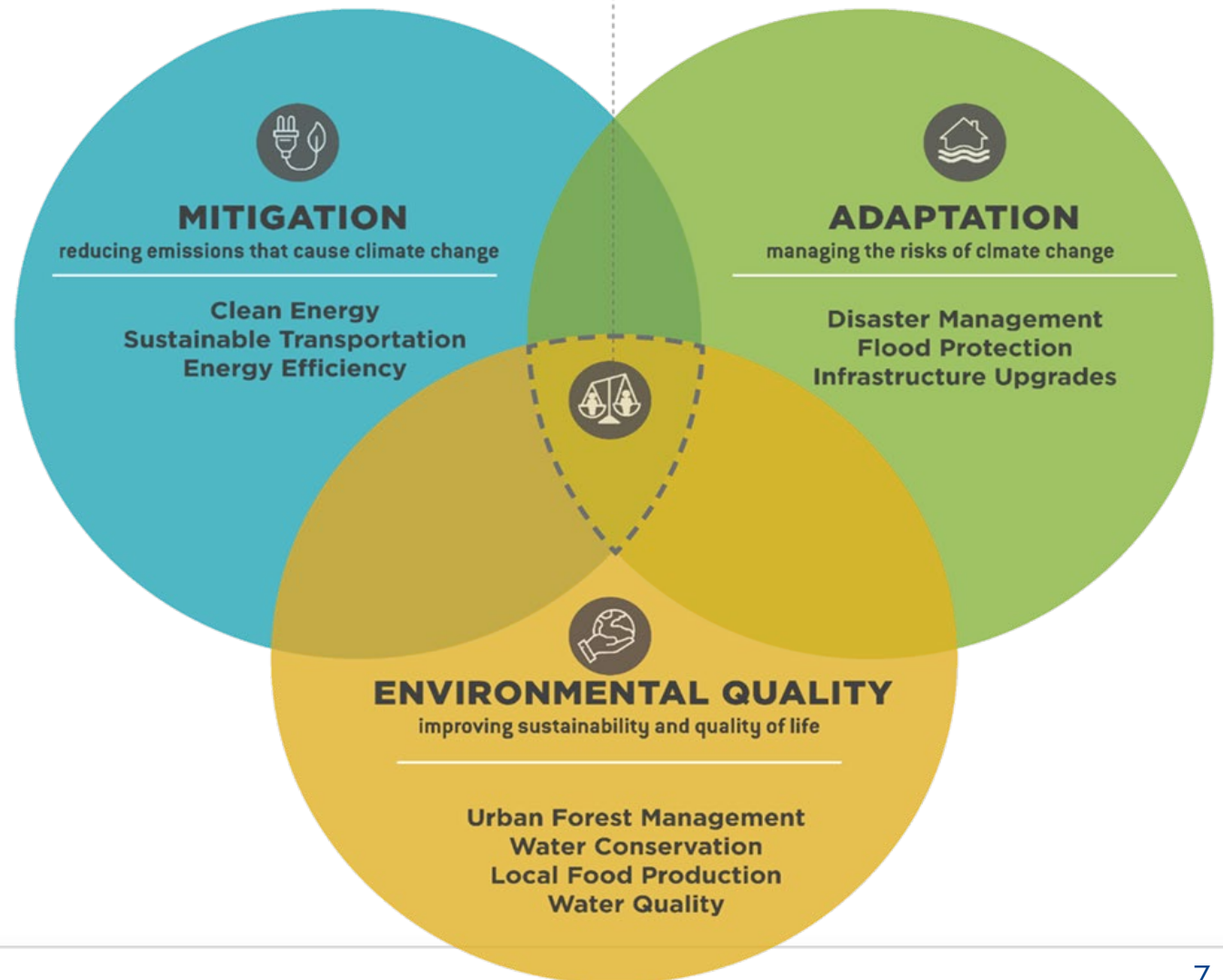


ENVIRONMENTAL JUSTICE

prioritizing communities most impacted or most in need across all actions

Environmental justice lies at the center of mitigation, adaptation, and environmental quality.

Many issues are interconnecting, and many actions have multiple benefits.



CECAP Breakdown:

SECTORS / GOALS

PRIMARY BENEFIT

CO-BENEFITS

97
CECAP
Actions



16
BUILDINGS



11
ENERGY



19
TRANSPORTATION



09
SOLID WASTE



15
WATER RESOURCES



09
ECOSYSTEMS



14
FOOD + URBAN
AGRICULTURE



04
AIR QUALITY



45
MITIGATION



21
ADAPTATION



20
ENVIRONMENTAL
QUALITY



11
ENVIRONMENTAL
JUSTICE



46
IMPROVE PUBLIC
HEALTH + WELL-BEING



40
PROVIDE COST
SAVINGS



31
IMPROVE
AIR QUALITY



28
PROVIDE EDUCATION,
SKILLS OR TRAINING



24 IMPROVE ACCESS
TO EMPLOYMENT /
JOB CREATION



15
REDUCE INEQUALITY
+ POVERTY



17
REDUCE GHG
EMISSIONS



08 INCREASE
NATURAL RESOURCE
CONSERVATION



11
IMPROVE WATER
QUALITY



13
REDUCE RESOURCE
CONSUMPTION



10 PROMOTES
ENVIRONMENTAL
STEWARDSHIP



10
REDUCE
VULNERABILITY



CECAP: FY 20-21 Work Plan



Includes 48 CECAP actions that are divided up into 136 milestones for implementation and tracking purposes

Q2 Milestone Progress

Complete:	17%
In Progress:	62%
Not Started:	21%

COMPREHENSIVE ENVIRONMENTAL AND CLIMATE ACTION PLAN



IMPLEMENTATION WORK PLAN FY 20-21

**BY OFFICE OF ENVIRONMENTAL QUALITY & SUSTAINABILITY
WITH ENVIRONMENT & SUSTAINABILITY TASK FORCE AND
LEADING ENVIRONMENTAL ACTION FORWARD**

NOVEMBER 2, 2020



The CECAP TEAM!!!



*Leading
Environmental
Actions
Forward*

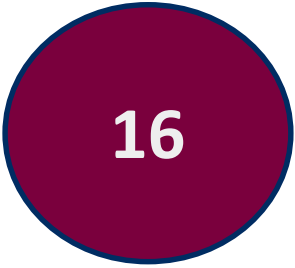
LEAF 
Leading Environmental Action Forward

- City Departments:
Leading Environmental Actions Forward (LEAF)
- Participation based on work plan commitments
- Team: Staff from 19+ Departments implementing CECAP actions, and other related planning efforts
- Meets quarterly





GOAL 1: DALLAS' ***BUILDINGS*** ARE ENERGY EFFICIENT AND CLIMATE RESILIENT.



Objectives



Increase energy efficiency of **existing buildings** or facilities.



Ensure that **new buildings** are constructed sustainably and are carbon neutral.



Increase **climate resilience** for new and existing buildings through structural and operational improvements.

Targets

Net zero energy new construction

- 100% starting in 2030

Energy use in existing residential buildings

- 10% of existing buildings reduce energy use 10% by 2030
- 10% of existing buildings reduce energy use 25% by 2030







Planned Actions FY 20-21: Buildings



B2: Continue Airport Carbon Accreditation Programs

B7: Expand Green Business Certification Program

 B11: Update Building Code to include energy efficiency, photovoltaics and electrical vehicle charging (FY21)

 B15: Begin evaluation of City-owned properties for creation of “resilience hubs”



Vickery Park Branch Library – 43+ KW Solar





GOAL 2: DALLAS GENERATES AND USES RENEWABLE, RELIABLE, AND AFFORDABLE ENERGY.

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Objectives



Maintain a high degree of reliability during extreme weather events.

- Encourage investment in, and greater use of, renewable energy.
- Ensure affordable access to renewable electricity.

Targets

Solar power generated:

- 739,000 Kwh by 2030
- 3,695,000 Kwh by 2050

Renewable electricity plans

- 20% of residents + businesses enrolled by 2030
- 50% of residents + businesses enrolled by 2050





GOAL 3: DALLAS' COMMUNITIES HAVE ACCESS TO SUSTAINABLE, AFFORDABLE, *TRANSPORTATION* OPTIONS.

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Objectives

- Shift the surface transportation system to move people and goods in **fuel-efficient vehicles**.
- **Reduce trips** where people drive alone.
- **Synergize jobs and housing** with transportation infrastructure to increase access to walking and biking options, and public transit.
- Ensure that walking, biking, public transit, vehicular transportation **infrastructure is reliable and safe**.

Targets

Publicly available EV charging

- 1,500 outlets to support 39,000 vehicles by 2030

Electric fleets

- All new transit vehicle purchases by the City, DISD, DART fully electric by 2030
- 100% electrified fleet by 2040

Single occupant vehicle travel mode shift

- 88% to 79% in 2030
- 88% to 62% in 2050



GOAL 4: DALLAS IS A ZERO *WASTE* COMMUNITY

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Objectives

- Create opportunities to go **beyond recycling** and choose to refuse, reduce, reuse and repair.
- Operate a clean, green and **efficient waste system**.
- **Generate energy** from organics.

Targets

Organic waste

- 35% diverted by 2030
- 80% diverted by 2050

Paper waste

- 60% diverted by 2030
- 90% diverted by 2050

Landfill diversion*

- 35% diversion in waste by 2030
- 45% diversion in waste by 2040



* Current total diversion rate~19%





Planned Actions FY 20-21: Zero Waste



-  SW1: Actively promote source reduction, recycling and composting
-  SW2: Begin comprehensive green procurement plan
- SW3: Improve solid waste, recycling and brush/bulky waste collection efficiency
- SW5: Update Local Solid Waste Management Plan
- SW8: Continue to capture gas and expand landfill capacity





GOAL 5: DALLAS PROTECTS ITS *WATER RESOURCES* AND ITS COMMUNITIES FROM FLOODING AND DROUGHT.

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Objectives

- **Conserve and protect** our water resources through community stewardship, educational programs and best management practices.
- Protect neighborhoods from **flooding** and prepare them for **droughts**.
- Be a **regional leader** in water resilience by leveraging innovative approaches, strategies and technologies.

Targets

Water consumption

- 1% decrease (per-capita) annually

Water for indirect reuse

- 5% implementation by 2030
- 10% implementation by 2050

Impaired waterbodies

- 30%, 60% and 100% reduction by 2030, 2040 and 2050 (*DWU service area*)

GHG emissions from treatment facilities

- 45% reduction by 2035
- 100% reduction by 2050



Planned Actions FY 20-21: Water Resources



WR1: Continue Water Conservation program

WR2: Continue leak detection



WR4: Encourage water-wise landscaping

WR5: Continue water quality monitoring & protection

WR6: Continue monitoring for emerging contaminants





GOAL 6: DALLAS PROTECTS AND ENHANCES ITS ECOSYSTEMS, TREES AND **GREEN SPACES** THAT IN TURN IMPROVE PUBLIC HEALTH.



Objectives

- Leverage green spaces to provide **climate adaptation benefits**.
- **Increase, enhance and maintain** healthy forests, parks, and green spaces.
- Integrate nature-based solutions into the public realm as a **public health strategy**.

Targets

Canopy cover citywide

- 33% by 2030
- 37% by 2040
- 40+% by 2050

Urban heat island index

- 20% reduction by 2030
- 50% reduction by 2040
- 75% reduction by 2050

Park or trail access *(1/2 mile walk from home)*






- 80% of the population by 2030
- 90% of the population by 2040
- 95% of the population by 2050

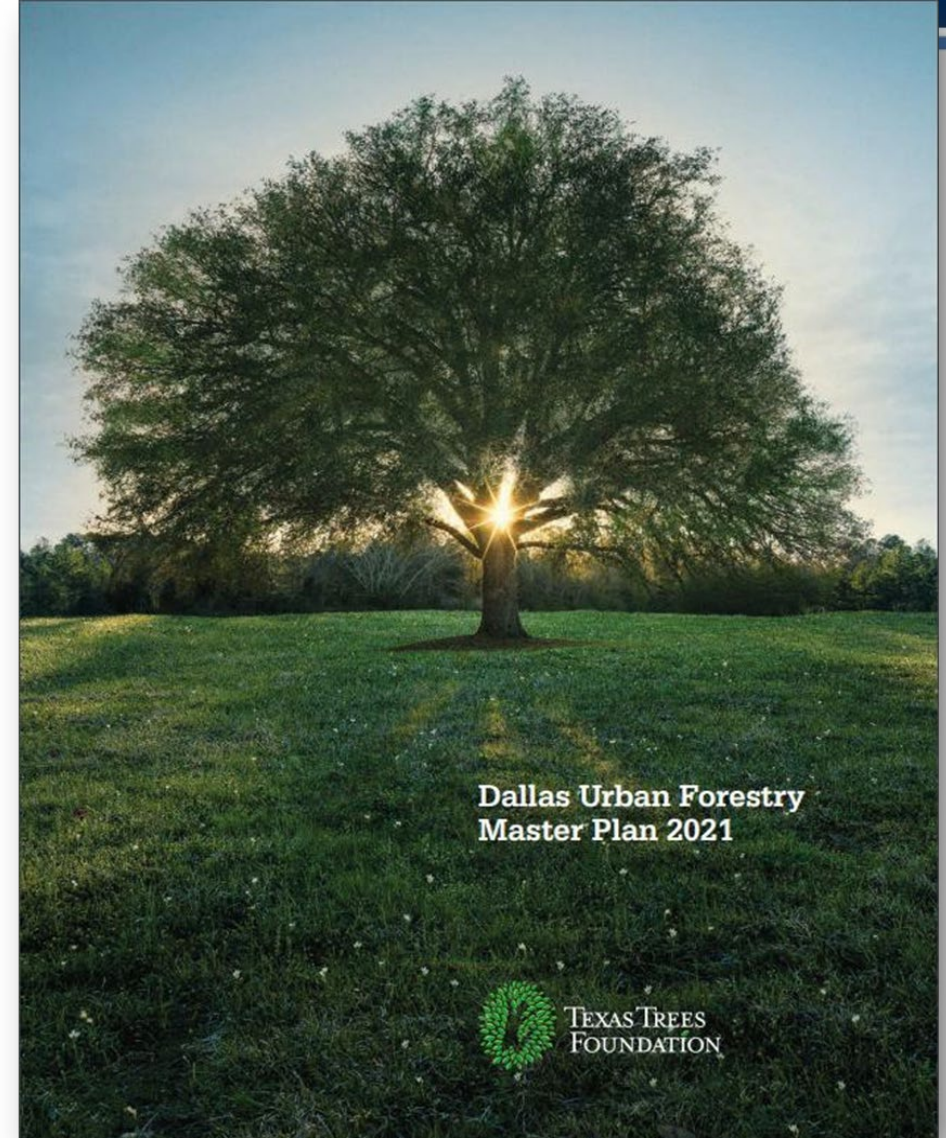




Planned Actions FY20-21: Ecosystems/Green Space



-  EG2: Assess opportunities for blue-green infrastructure to reduce flood risks
-  EG3: Develop and implement Urban Forest Master Plan
-  EG4: Promote tree-planting efforts, protect trees & prairies, and promote drought-tolerant landscapes
-  EG5: Update Parks O&M procedures to include eco-friendly practices
-  EG9: Continue partnering using nature-based solutions to address public health challenges (Cool Schools)





GOAL 7: ALL DALLAS' COMMUNITIES HAVE ACCESS TO HEALTHY, LOCAL *FOOD*.

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Objectives

- Build organizational capacity and partnerships.
- Improve **food access** in neighborhoods with low food access.
- **Reduce food miles** by encouraging local food production & consumption.
- Prepare the food system to be more **resilient** to extreme weather events.
- Prevent **food waste** through food donations, recovery, diversion and composting.

Targets

Healthy, affordable food access (<1/2 mile)

- 50% of the population by 2030
- 75% of the population by 2040
- 100% of the population by 2050

Urban gardens producing local food (acres)

- Increase in 20% by 2030
- Increase in 50% by 2040
- Increase in 75% by 2050

Sourcing from local producers

- Increase in 10% by 2030
- Increase in 25% by 2040
- Increase in 50+% by 2050



GOAL 8: ALL DALLAS' COMMUNITIES BREATHE CLEAN *AIR*.

Objectives

- Take a comprehensive approach to addressing air quality at the neighborhood level.

Cross cutting objectives

- Increase energy efficiency of existing buildings or facilities.
- Reduce trips where people drive alone.
- Synergize jobs & housing with transportation infrastructure.
- Increase, enhance and maintain healthy forests, parks, and green spaces, that improve air quality.
- Operate a clean, green & efficient waste system.

Targets

Ground level ozone

- Meet NAAQS attainment standard by 2030; maintain status through 2050

Air pollutants

- Maintain NAAQS attainment status through 2050 (*includes lead, carbon monoxide, nitrogen dioxide, particulate matter (PM₁₀), particulate matter (PM_{2.5}) and sulfur dioxide*)



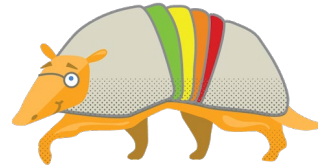
Planned Actions: FY20-21 Air Quality



AQ1: Work with TCEQ to expand regulatory air quality network

 AQ2: Partner to install non-regulatory air quality sensors

AQ3: Continue to support NCTCOG Air North Texas Program



AQ4: Ensure new industries are an appropriate distance away from neighborhoods.



Air Quality monitor installation at Exline Recreation Center



CECAP Performance Dashboard



Detailed Tracking on <https://www.DallasClimateAction.com>

GOALS AND OBJECTIVES



Dallas' buildings are energy efficient and climate resilient.

OBJECTIVES >

[MORE ON BUILDINGS](#)



Dallas generates renewable, reliable, and affordable energy.

OBJECTIVES >

[MORE ON ENERGY](#)

MEASURABLE OUTCOMES

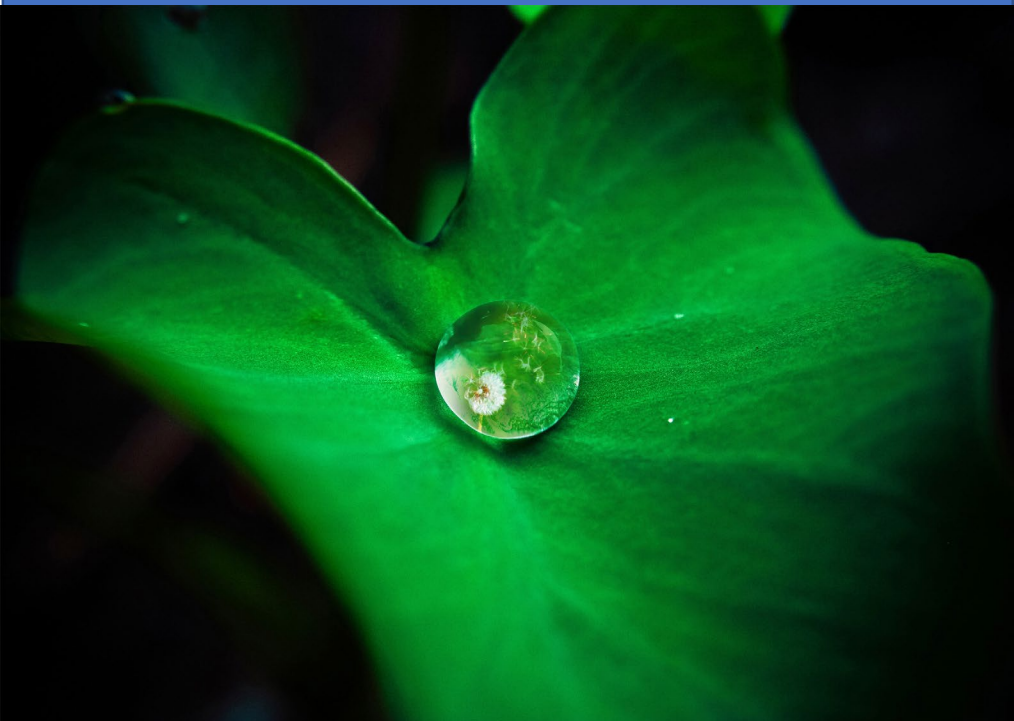
- NET ZERO ENERGY NEW CONSTRUCTION
- ENERGY USE IN EXISTING RESIDENTIAL BUILDINGS.
- SOLAR POWER INSTALLED
- RENEWABLE ELECTRICITY PLANS



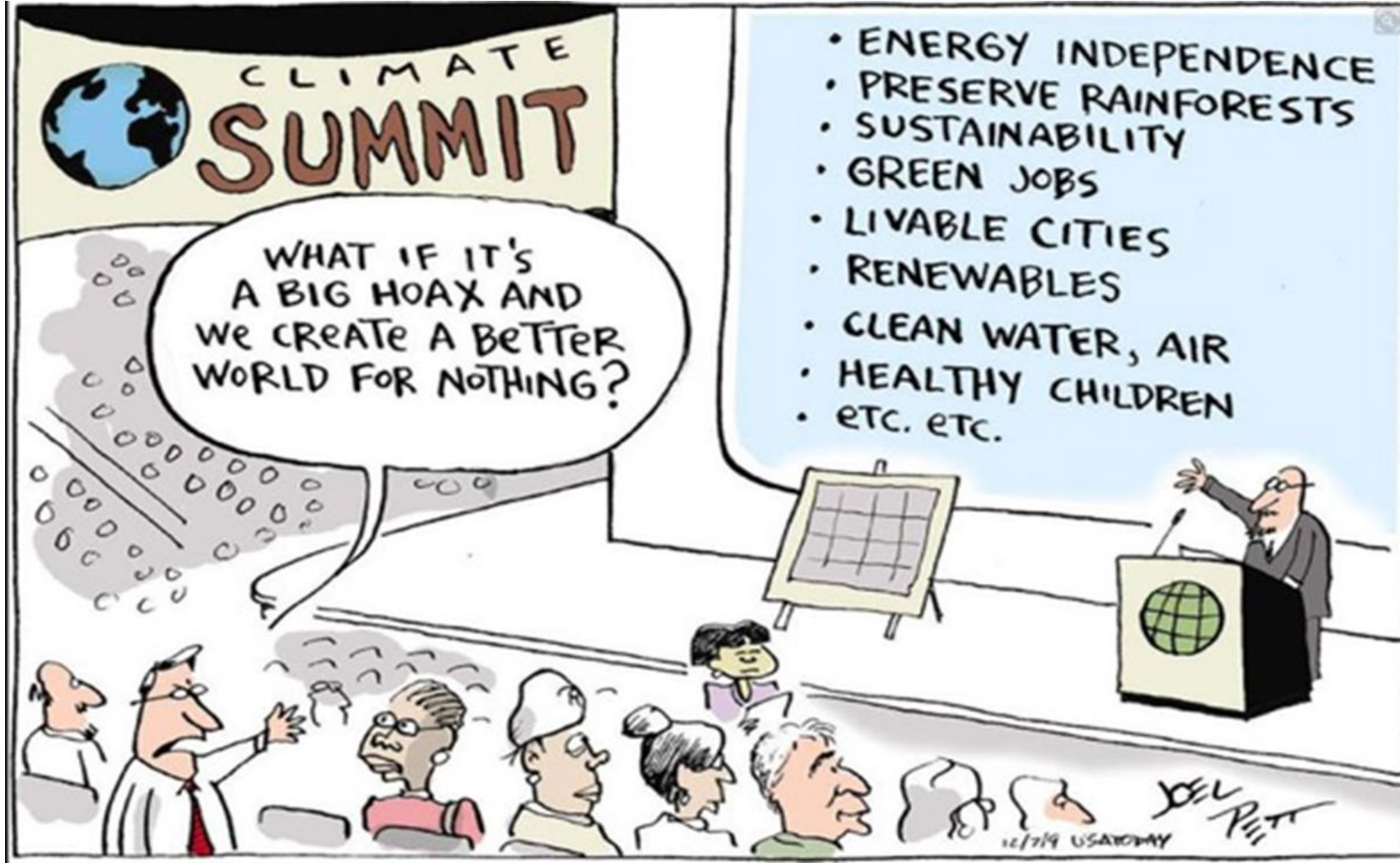
NEW !!!

ENVIRONMENTAL COMMISSION

- 1. Council-appointed, 15 voting members of the general public/ 8 non-voting technical experts**
- 2. Background or experience in environmental issues:**
 - Minimum 2 years environmental experience, OR**
 - Minimum 2 years neighborhood environmental advocacy.**
- 3. Two with public health experience.**
- 4. Monthly meetings, or as needed**
- 5. Standing Committee for Environmental Health**



Questions?



COMPREHENSIVE ENVIRONMENTAL + CLIMATE ACTION PLAN (CECAP)

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