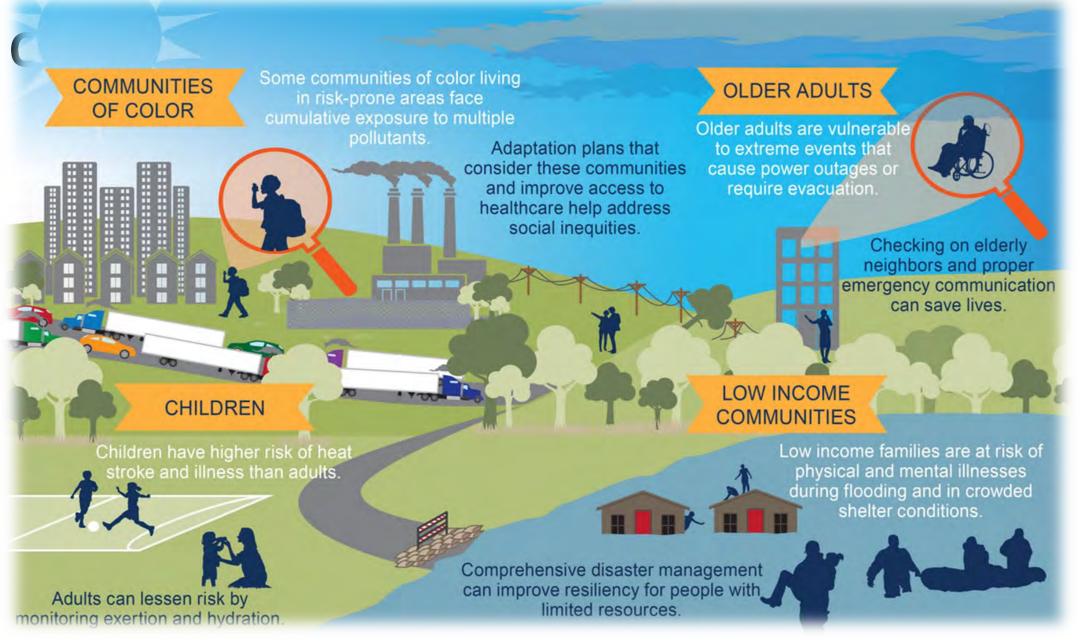
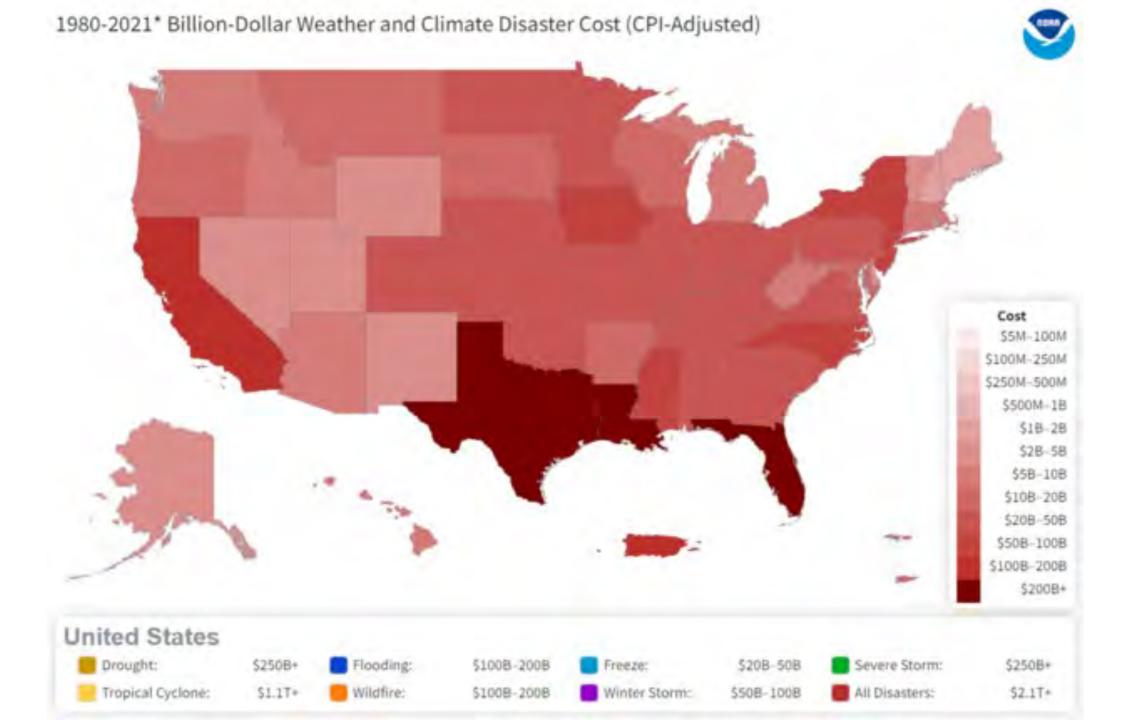


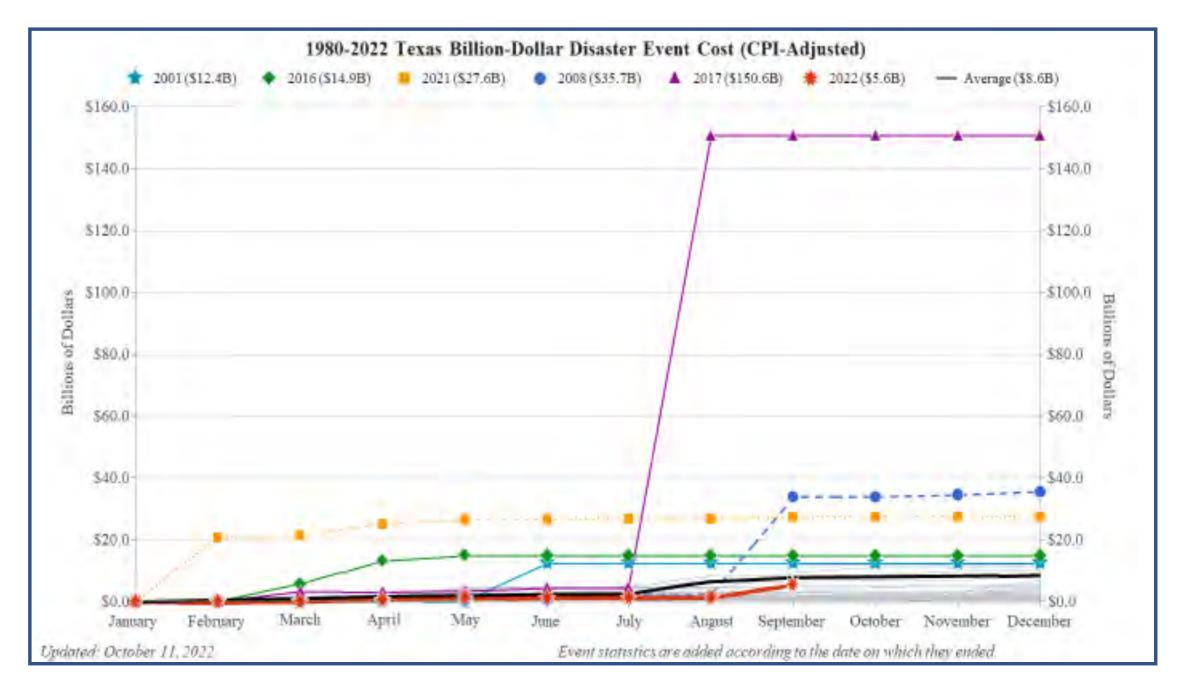
BACKGROUND: LOCAL CLIMATE CHALLENGES





United States Global Change Research Program. 2018. Strategic Finding #SF-2 of National Climate Assessment No. 4, November, 2018;





Moody Investors Series Inquiry

Exhibit 4

Cities with largest investment in climate mitigation projects planned or underway

Among survey respondents, \$ millions



CECAP

Adopted unanimously by Dallas City Council on May 27, 2020

"With equity and inclusion as core values, the CECAP proposes solutions that will improve our natural environment, our education and economic outcomes, the affordability of our housing stock, and our transportation systems."

-Mayor Eric Johnson





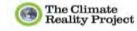
Robust Stakeholder Input

Stakeholder Advisory Group





















Council of Governments



















American Airlines

























City Environmental Task Force

- Transportation
- Dallas Water Utilities (Water, • Wastewater, Drainage)

Park & Recreation

- Sustainable Development
- Planning + Urban Design
- **Public Works**
 - Fleet
- Economic Development
- Aviation
- Housing/Fair Housing

- **Building Services**
- And others!

GREENHOUSE GAS EMISSIONS



















60%

Buildings + Energy



38%

Transportation



3%

Industrial processes



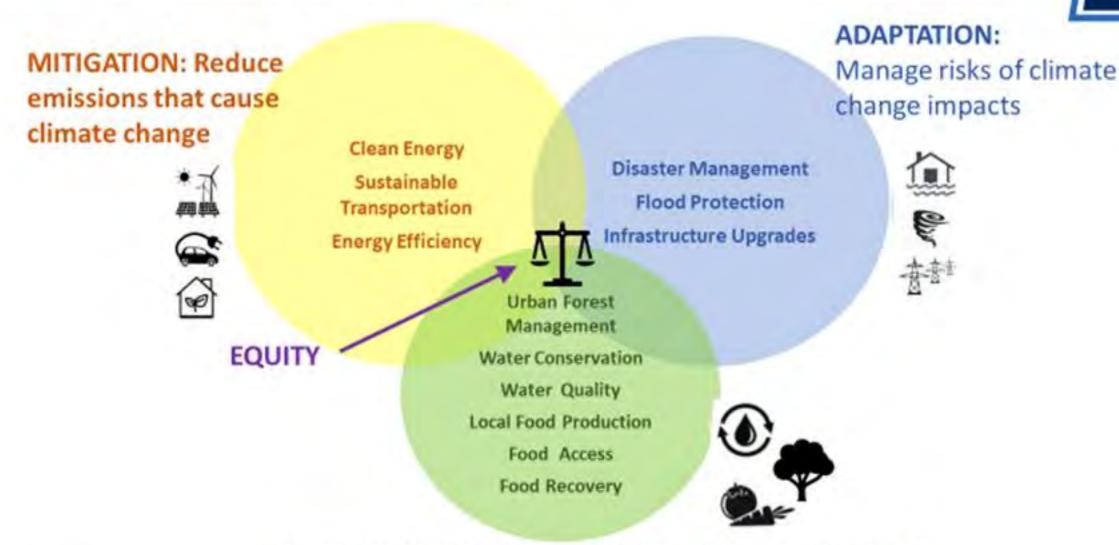


1%

Solid waste + wastewater treatment

APPROACH TO PLANNING





ENVIRONMENT: Improve Quality of Life + Public Health



CECAP Breakdown

SECTORS / GOALS

PRIMARY BENEFIT





16



45 **MITIGATION**

ADAPTATION

ENVIRONMENTAL

ENVIRONMENTAL

20

QUALITY

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



REDUCE INEQUALITY + POVERTY



REDUCE GHG EMISSIONS



08 INCREASE NATURAL RESOURCE CONSERVATION



IMPROVE WATER QUALITY



REDUCE RESOURCE CONSUMPTION



10 PROMOTES ENVIRONMENTAL STEWARDSHIP



10 REDUCE VULNERABILITY



BUILDINGS



ENERGY



TRANSPORTATION



SOLID WASTE



WATER RESOURCES



09 **ECOSYSTEMS**

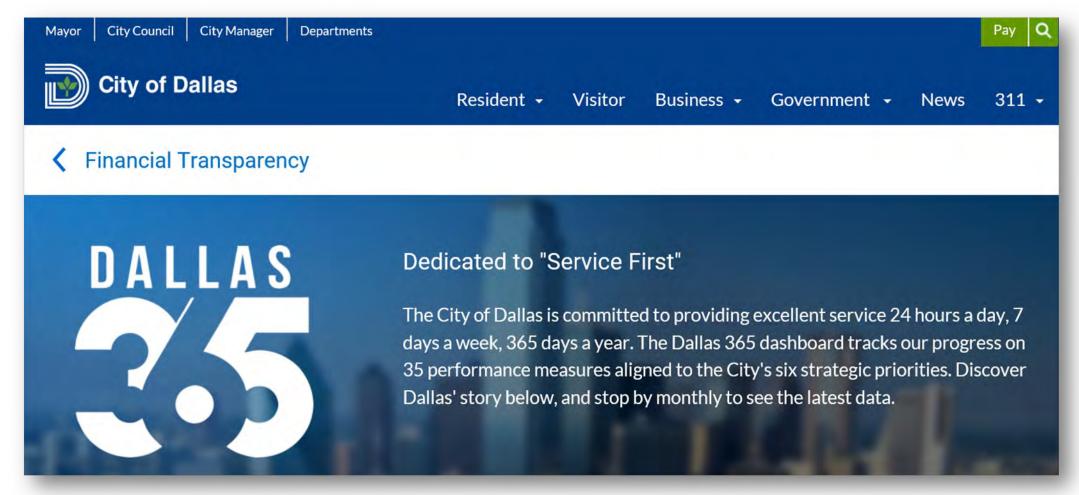


14 **FOOD + URBAN AGRICULTURE**



04 **AIR QUALITY**

Background

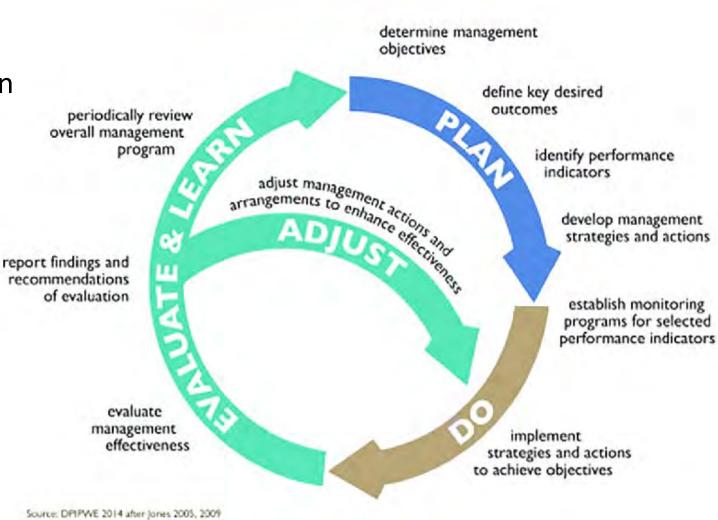


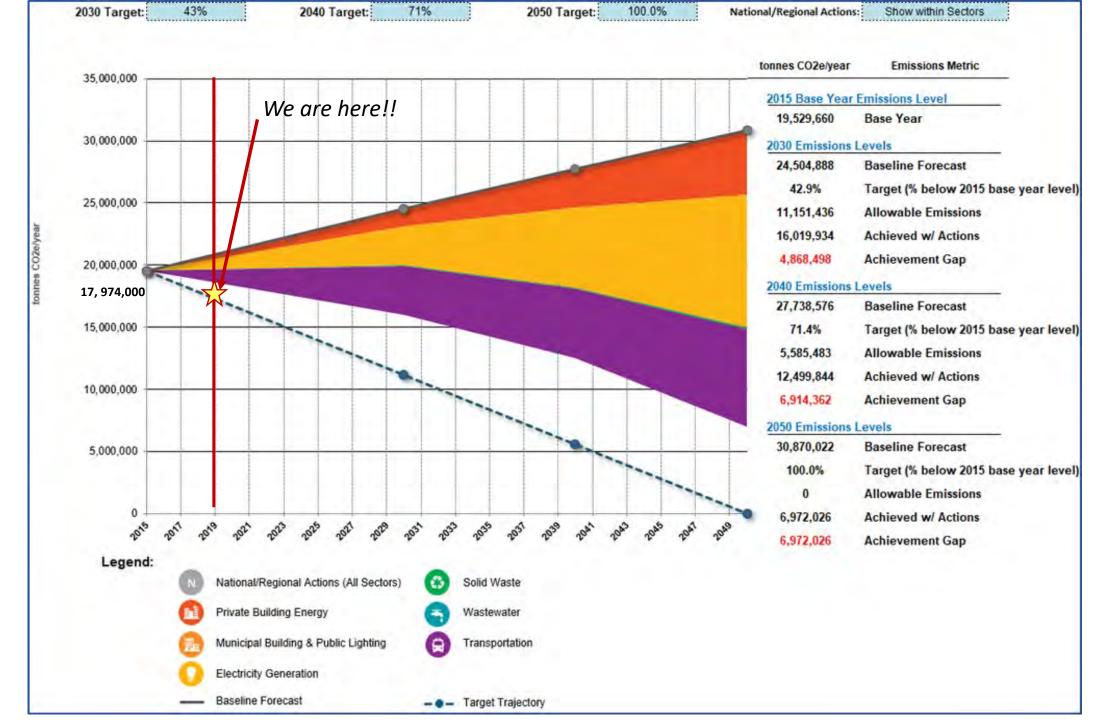
Performance Measure: 92% CECAP FY Milestones Implemented

Approach to Implementation

- Update the GHG Inventory in 2021 using 2019 data
- Two-year updates will be included in CECAP
- Re-evaluate ERCOT, NCTCOG, and other data to update estimates
- Re-calibrate actions towards zero emission goals

The adaptive management cycle





From the IPCC Sixth Report (April 4, 2022)

B.2 GHG emissions have increased since 2010 across all major sectors globally. An increasing share of emissions can be attributed to urban areas....in particular increases from rising global activity in industry, energy supply, transport, agriculture and buildings. THE PARTY OF THE P (high confidence) C.7. Buildings are projected to approach net zero GHG emissions in 2050 if policy combining ambitious sufficiency, efficiency, and renewable energy measures, are effectively implemented and barriers to decarbonization are removed.well-designed and effectively implemented mitigation interventions, have significant potential to contribute to achieving SDGs in all regions while adapting buildings to a future climate.



From the IPCC Sixth Report (April 4, 2022)

- **C.7.2** Integrated design approaches to the construction and retrofit of buildings have led to increasing examples of zero energy or zero carbon buildings...
- Design mitigation interventions include: building typology, form, and multi-functionality and repurposing unused existing buildings to avoid using GHG-intensive materials and additional land.
- Construction mitigation interventions include: low-emission construction materials, highly efficient building envelope and the integration of renewable energy solutions.
- > Operations interventions include: highly efficient appliances/ equipment, the optimization of of building use and low-emission energy
- **D.2.1 Sustainable urban planning and infrastructure design** including green roofs and facades, networks of parks and open spaces, management of urban forests and wetlands, urban agriculture, and water-sensitive design can deliver both mitigation and adaptation benefits (*medium confidence*).



Draft CECAP Implementation Work Plan

- 30-year plan with 8 focus areas and 97 Actions
- 67 Actions will be activated in FY22-23
- 202 Total milestone activities
- 17 City Departments contributing

CECAP IMPLEMENTATION WORKPLAN FISCAL YEAR 2022-2023

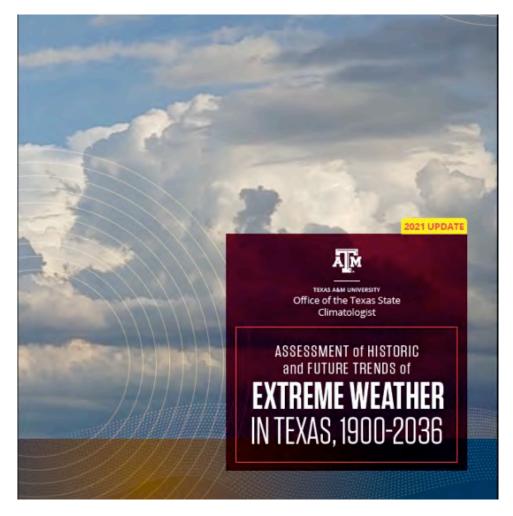


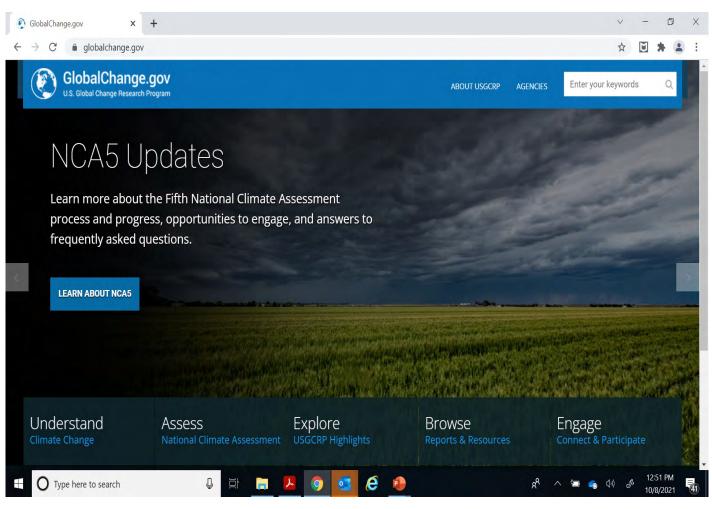
BY OFFICE OF ENVIRONMENTAL QUALITY & SUSTAINABILITY WITH ENVIRONMENTAL COMMISSION AND LEADING ENVIRONMENTAL ACTIONS FORWARD

Opportunities Moving Forward – Continue...

- Updating Green Building Policy for Net Zero Carbon and related specifications
- Building energy equity such as community solar and weatherization program
- Diversifying travel mode and fleet electrification
- Quantifying water quality improvements under the Municipal Separate Storm Sewer System (MS4) Permit
- Exploring opportunities to divert organic materials, like plant and food waste
- Implementing Urban Forest Master Plan
- Expanding green space and protecting existing tree canopy
- Ensuring local healthy food access and increasing local production
- Implementing neighborhood air quality monitoring program
- Updating 2017 Heat Island Study to assess improvement

Other Cool New Stuff.....





https://texas2036.org/texas-will-face-more-extreme-weather/

https://www.globalchange.gov/nca5



