

MISSION

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

- Mayor Eric Johnson





ENVIRONMENT & CLIMATE CHALLENGES



Extreme Heat: 30-60 more extreme days per year by 2100



Average Annual Temperature: 5° F increase by 2050



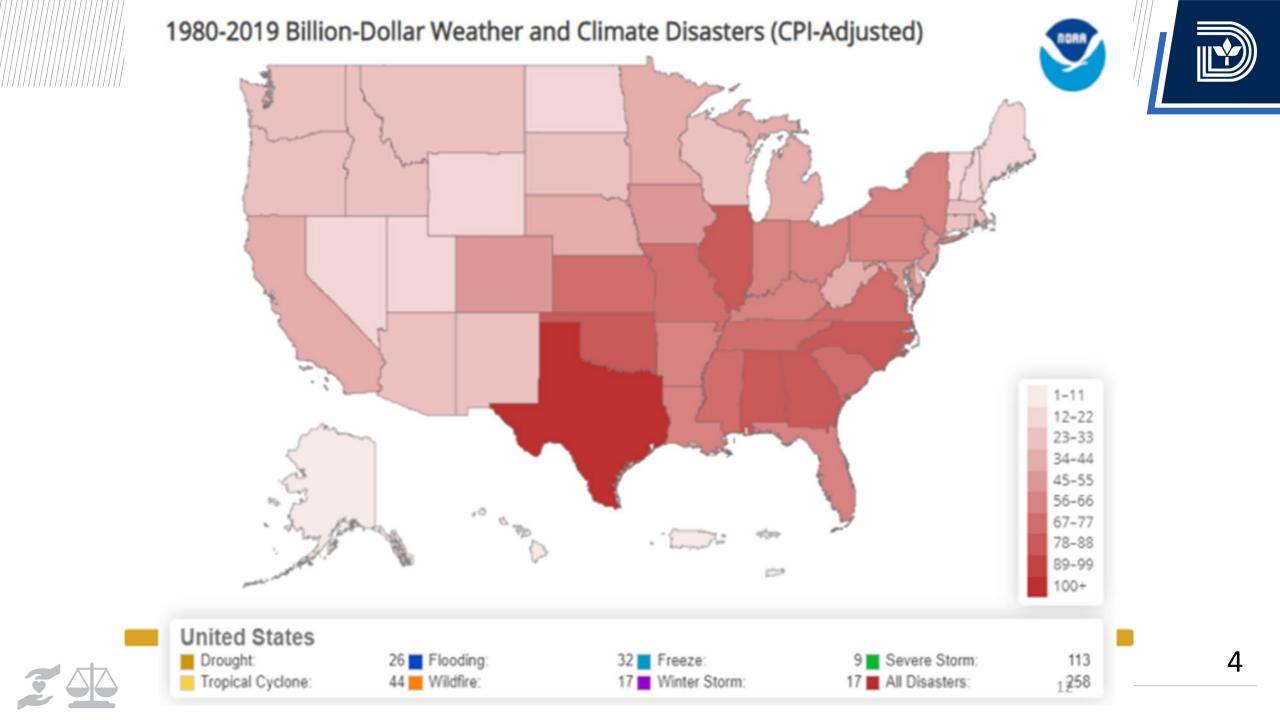
Poor Air Quality: Exacerbated by increasing heat

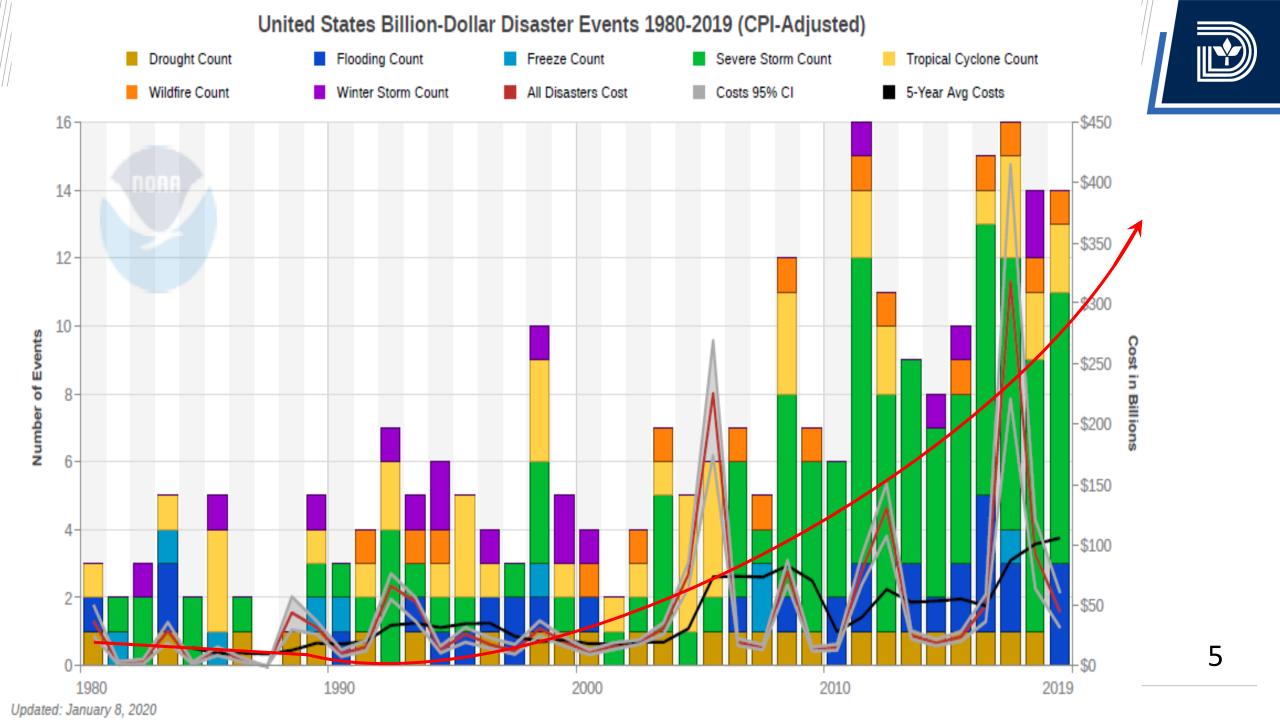


Flooding: 40% increase in extreme storms by 2100



Drought: Exacerbated by increasing heat





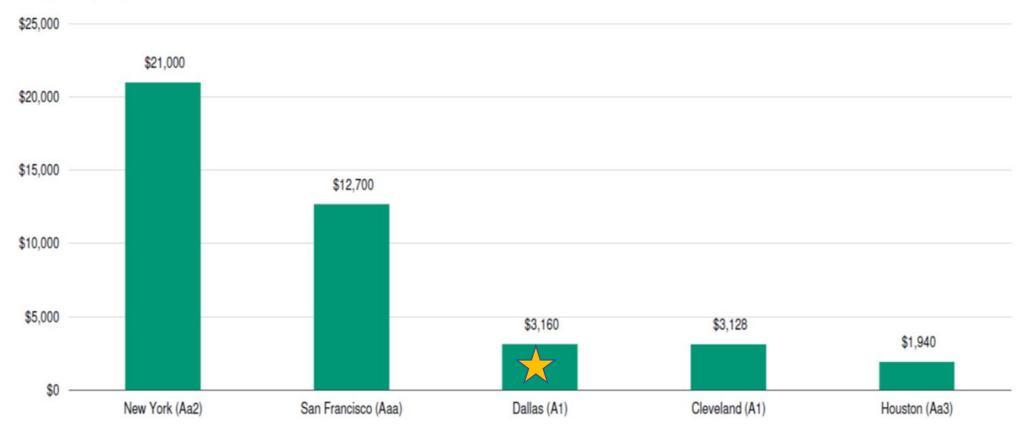
Moody Investors Series Inquiry



Exhibit 4

Cities with largest investment in climate mitigation projects planned or underway

Among survey respondents, \$ millions



Source: Moody's Investors Service



Greenhouse Gas Emissions



























64%Buildings + Energy

34%Transportation

3%
Industrial processes

Solid waste + wastewater treatment

1%



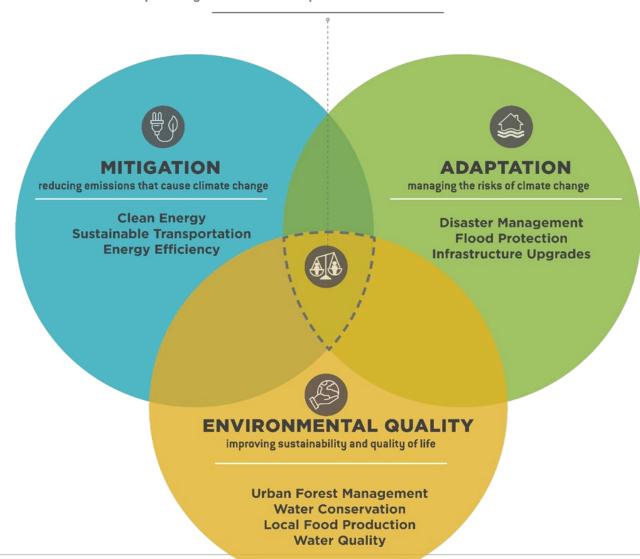
Achieving Environmental Justice



ENVIRONMENTAL JUSTICE

prioritizing communities most impacted or most in need across all actions

INTERSECTION OF
MITIGATION,
ADAPTATION &
ENVIRONMENTAL QUALITY





Action Overview



SECTORS / GOALS

PRIMARY BENEFIT

CO-BENEFITS



16 **BUILDINGS**



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





ENERGY



TRANSPORTATION



SOLID WASTE



15 **WATER RESOURCES**



09 **ECOSYSTEMS**



14 **FOOD + URBAN AGRICULTURE**





Target Overview





NET ZERO ENERGY NEW CONSTRUCTION

ENERGY USE IN EXISTING RESIDENTIAL BUILDINGS



SOLAR POWER GENERATED

RENEWABLE ELECTRICITY
PLANS



PUBLICLY AVAILABLE EV CHARGING

ELECTRIC FLEETS

SINGLE OCCUPANT VEHICLE TRAVEL MODE SHIFT



ORGANIC WASTE

PAPER WASTE

LANDFILL DIVERSION



WATER CONSUMPTION

WATER FOR INDIRECT REUSE

IMPAIRED WATERBODIES
LISTED IN WATERSHED

GHG EMISSIONS FROM TREATMENT FACILITIES



CANOPY COVER CITYWIDE

URBAN HEAT ISLAND INDEX

PARK OR TRAIL ACCESS



HEALTHY, AFFORDABLE FOOD ACCESS

ACRES OF URBAN GARDENS

RESTAURANTS, FARM STANDS, OR MARKETS SOURCING FROM LOCAL PRODUCERS



GROUND LEVEL OZONE

AIR POLLUTANTS





GOAL 1: DALLAS' BUILDINGS ARE ENERGY EFFICIENT AND



Objectives

 Increase energy efficiency of existing buildings or facilities.

CLIMATE RESILIENT.

- Ensure that new buildings are constructed sustainably and are carbon neutral.
- Increase climate resilience for new and existing buildings through structural and operational improvements.

16 related actions to address 34% emissions

OEQS + Aviation, Building Services Department, Housing, Park and Recreation, the Bond Office, Sustainable Development + External Partners







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



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.

11 related actions to address next 30% emissions

OEQS + Building Services Department+ External Partners







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



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.

19 actions to address 34 percent of emissions in Dallas

OEQS + Fleet Management Services, Housing Transportation, Public Works, Office of Economic Development, Planning +Urban Design, the Bond Office, Sustainable Development, Office of Business Diversity, + External Partners (DART, NCTCOG)





GOAL 4: DALLAS IS A ZERO WASTE COMMUNITY



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.

9 Actions in Waste sector

OEQS + Sanitation Services Department, Office of Innovation + External Partners







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



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.

15 actions identified in water resources, mostly based on current DWU planning



OEQS + Dallas Water Utilities, Park and Recreation, the Bond Office, Sustainable Development + External Partners





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.

9 Actions related to ecosystems and green spaces

OEQS + Park and Recreation, The Bond Office, Sustainable Development, Planning +Urban Design, Dallas Water Utilities + External Partners







GOAL 7: ALL DALLAS' COMMUNITIES HAVE ACCESS TO

HEALTHY, LOCAL FOOD.



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.

14 Food + Urban Agriculture Actions



OEQS + Office of Innovation-Food Task Force,
Library, Office of Community Care, Office of
Economic Development, Code Services, Sanitation
Services, + External Partners

17

GOAL 8: ALL DALLAS' COMMUNITIES BREATHE CLEAN AIR.

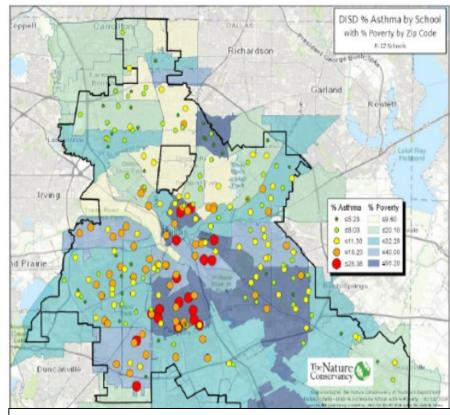


Objectives

 Take a comprehensive approach to addressing air quality at the neighborhood level. (4 Actions)

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.



TNC. 2020. DISD % Asthma by School with % Poverty

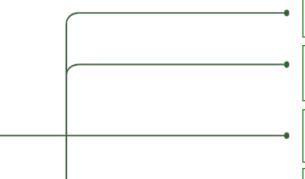




GOAL 8: ALL DALLAS' COMMUNITIES BREATHE CLEAN AIR.



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



Work with the Texas Commission on Environmental Quality to install additional air quality monitoring stations across the city.

Partner with nonprofits and schools to develop and implement non- regulatory monitors in neighborhoods.

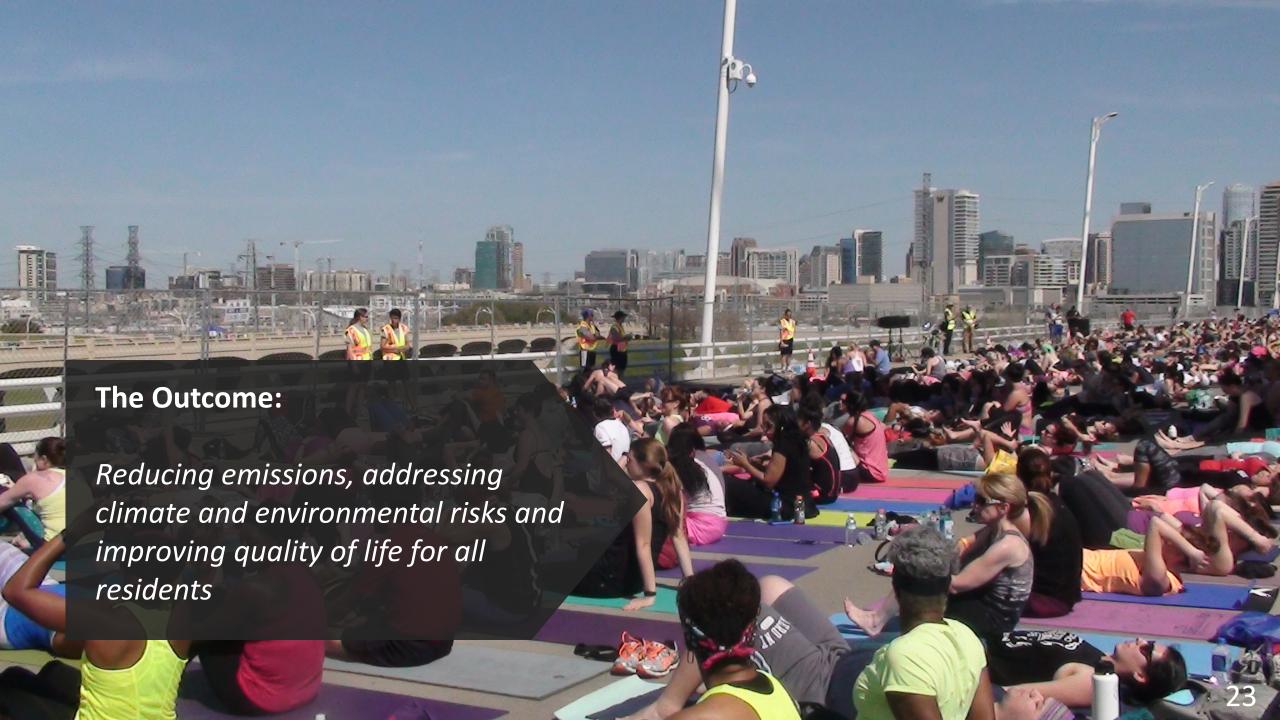
Continue to support and expand on the Air North Texas campaign to raise public awareness and improve air quality.

Ensure new industries are an appropriate distance away from neighborhoods.

OEQS + External Partners: TCEQ, NCTCOG, The Nature Conservancy, Texas A&M University Transportation Institute, Center for Applied Research for Transportation, Emissions, and Health, Parkland, Children's Health and Many Others







Implementation Planning



- Work with other City departments and appropriate partners to develop sector specific immediate implementation plans.
- Initiate quarterly meetings of Department leadership to coordinate planning efforts, and progress on plan
- **Continue 15 actions** that are currently underway; initiate 27 others in FY 20-21, to help to shape follow-on efforts.
- Initiate most actions in the near time frame (0-2 years);
- Implement all actions within the first 10 years of the plan
- Update the plan at least every three years using new Greenhouse gas data.





Critical Ancillary Planning Efforts



	CECAP		
Plan	Action Item	Lead Department	Status
Energy Management System/Plan	E8	Building Services Department	Underway; ETA FY 2021
Fleet Electrification Plan	T1	Fleet Services Department	FY 20-21
Connect Dallas Strategic Mobility Plan	T5	Department of Transportation	Underway; ETA Fall 2020
Pedestrian Sidewalk Plan	T4, T8	Public Works	Underway;
DART Bus Route Redesign	T9	DART	Underway; 2021-2022
Forward Dallas Comprehensive Land Use Plan Update	T11	Planning and Urban Design	Starting; reviewing RFPs. ETA 2021/2022
Urban Agriculture Plan	FA3	OEQS & Office of Innovation	Underway
Urban Forest Master Plan	EG3	OEQS, Texas Trees, Davis Tree Service, Several City Departments	Underway; ETA Fall 2020
Zero Waste Plan Local Solid Waste Management Plan Update	SW5	OEQS & Sanitation Services	Underway; ETA 2021-2022
Water Conservation Plan	WR1	OEQS & DWU	Plan in Use
Comprehensive Storm Drainage System Assessment & Plan	WR9	DWU & External Consultants	Underway; ETA 2021-2022



For More Information...







One More Thing...





- NCTCOG New Work Group!
- Regional Implementation of Sustainability Efforts
- Working together to address regional emissions/ impacts
- "Together we do it better"
 - Sustainable Public ROW
 - Transportation Planning
 - Drainage/ Water Quality
 - Water Supply
 - Air Quality



