



City of Dallas

CECAP Annual Update

**Environment & Sustainability
Committee
May 3, 2021**

Susan Alvarez,
Assistant Director
Office of Environmental
Quality & Sustainability

Presentation Overview



- FY20-21 Work Plan
- Progress Report
- Highlights per Sector
- Collaboration & Engagement
- Next Steps



FY20-21 Implementation Work Plan



- Based on input from 19 City departments
- Focused on building capacity
- Presented to ENVS Committee in November 2020
- Included 136 milestones derived from 48 CECAP actions

COMPREHENSIVE ENVIRONMENTAL AND CLIMATE ACTION PLAN



IMPLEMENTATION WORK PLAN FY 20-21

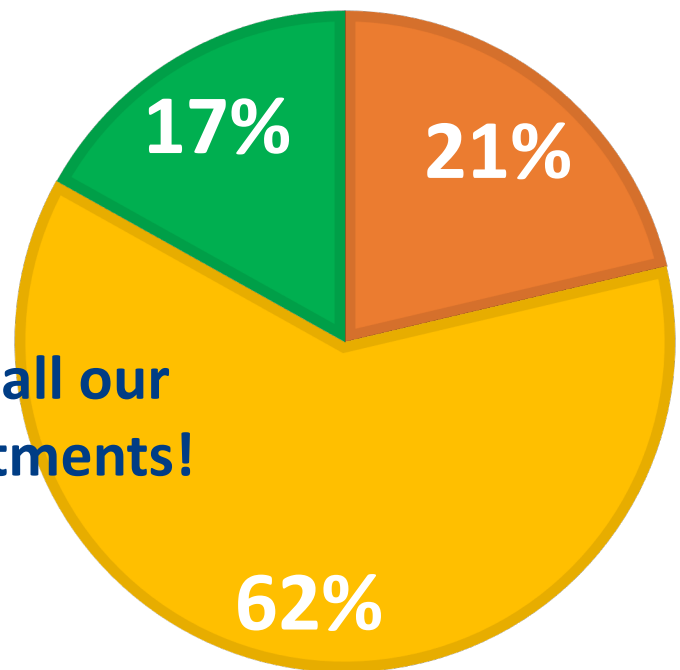
BY OFFICE OF ENVIRONMENTAL QUALITY & SUSTAINABILITY
WITH ENVIRONMENT & SUSTAINABILITY TASK FORCE AND
LEADING ENVIRONMENTAL ACTION FORWARD

NOVEMBER 2, 2020



Progress Report: Milestones

FY20-21 MILESTONE PROGRESS



■ Not started ■ In Progress ■ Complete

Thank you to all our partner departments!



CECAP Q2 UPDATE

January 2021-March 2021



TOTAL MILESTONES: 136

COMPLETE 17%
IN PROGRESS 62%
NOT STARTED 21%

BUILDINGS (16)		WATER CONSERVATION (26)
COMPLETE	25%	COMPLETE 19%
IN PROGRESS	75%	IN PROGRESS 81%
NOT STARTED	0%	NOT STARTED 0%
ENERGY (16)		ECOSYSTEMS (17)
COMPLETE	6%	COMPLETE 12%
IN PROGRESS	44%	IN PROGRESS 71%
NOT STARTED	50%	NOT STARTED 18%
TRANSPORTATION (24)		FOOD SECURITY (17)
COMPLETE	13%	COMPLETE 12%
IN PROGRESS	58%	IN PROGRESS 41%
NOT STARTED	29%	NOT STARTED 47%
ZERO WASTE (10)		AIR QUALITY (10)
COMPLETE	20%	COMPLETE 40%
IN PROGRESS	60%	IN PROGRESS 50%
NOT STARTED	20%	NOT STARTED 10%

Targets*

**Overall target is 43% reduction in Greenhouse Gas emissions by 2030*

2019 Year GHG Inventory Underway



DALLAS' BUILDINGS ARE ENERGY-EFFICIENT AND CLIMATE RESILIENT.

- 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.



DALLAS GENERATES AND USES RENEWABLE, RELIABLE, AND AFFORDABLE ENERGY.

- 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.



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

- 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 under all weather conditions.



DALLAS IS A ZERO WASTE COMMUNITY.

- 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.



DALLAS PROTECTS ITS WATER RESOURCES AND ITS COMMUNITIES FROM FLOODING AND DROUGHT.

- 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.



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

- 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.



ALL DALLAS' COMMUNITIES HAVE ACCESS TO HEALTHY, LOCAL FOOD.

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



ALL DALLAS' COMMUNITIES BREATHE CLEAN AIR.

- Take a comprehensive approach to addressing air quality at the neighborhood level.
- Increase energy efficiency of existing buildings or facilities.
- Reduce trips where people drive alone.
- Synergize jobs and housing with transportation infrastructure to increase access to walking and biking options, and public transit.
- Increase, enhance and maintain healthy forests, parks, and green spaces, that improve air quality.
- Operate a clean, green and efficient waste system.



Goal 1: Dallas buildings are energy efficient and climate resilient.

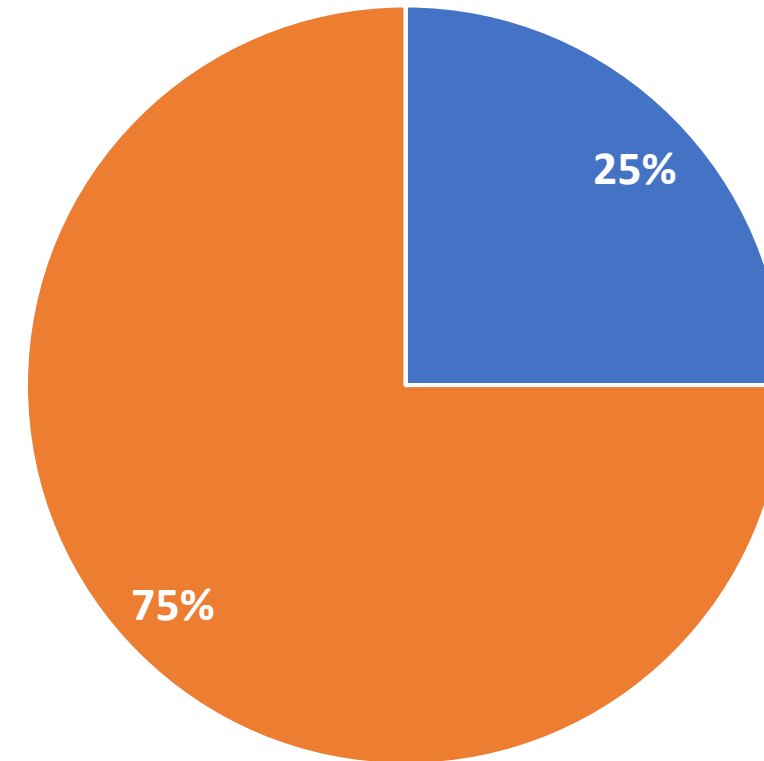


Progress Report: Buildings Sector Update



- Create an energy management system for City facilities
- Airport Carbon Accreditation Programs
- Engage in regional building code updates
- Identify City facilities for resilience hubs
- Collaboration with SMU on weatherization and efficiency improvements

Buildings
FY20-21 Progress of 4/1/21
16 Milestones



■ Complete ■ In Progress ■ Not Started

Progress Report: Building Sector Highlights



Vickery Park Branch Library – 43+ KW Solar

- Energy Management System for City facilities - Underway
- Evaluation of City Facilities for Resilient Hubs:
 - Explore Tier IV Generators versus of Solar Generation +Battery Storage?
- NCTCOG & City staff reviewing local updates re: 2021 International Building Code



Goal 2: Dallas generates and uses renewable, reliable, and affordable energy.

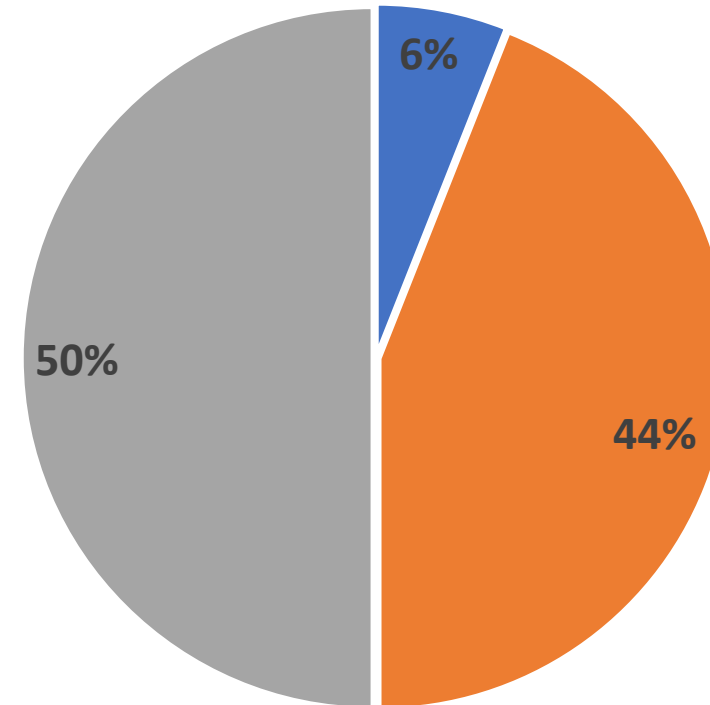


Progress Report: Energy Sector Update



- Extend partnerships to promote renewable energy adoption
- Continue implementing Dallas Green Energy Policy for city facilities
- Advocate for renewable energy policy at state and federal levels
- Evaluate renewable energy hubs
- Continue partnership education on renewable energy options

Energy
FY20-21 Progress of 4/1/21
16 Milestones



Progress Report: Energy Sector Highlights



Community Solar Program

- NCSP Technical Assistance Grant (complete)
- Deepwood Landfill Solar Farm RFCSP (eta May 2021)
- Dallas Community Solar Initiative with Housing : St. Philip's School & Community Center /Other locations tbd

Energy Management System for City facilities

- City Facility Energy Audits
- Evaluation of City Facilities for Resilient Hubs





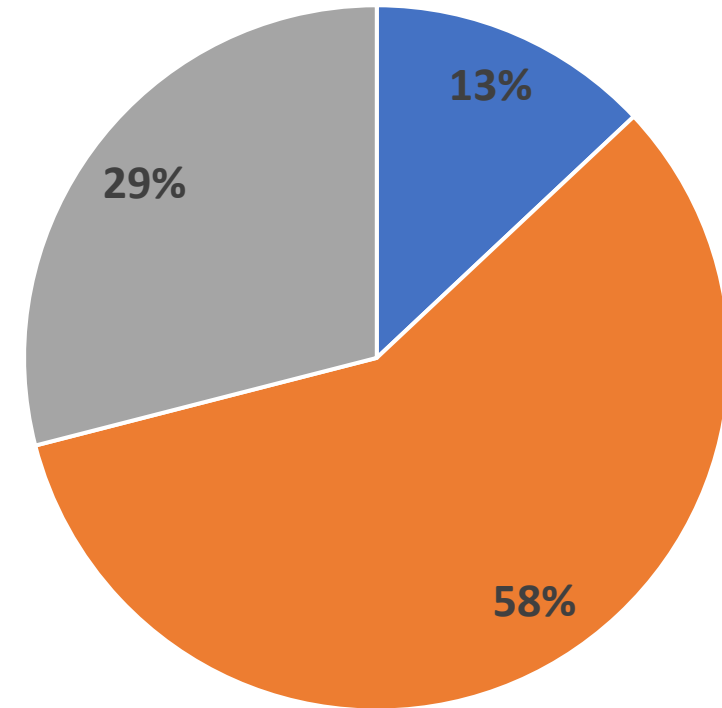
Goal 3: Dallas communities
have access to
sustainable, affordable,
transportation options.

FY20-21 Key Projects:



- Fleet electrification
- Support and expand travel demand strategies
- Continue work on transit between super commuting cities
- Adopt parking ordinance to support mode split goals & transit-oriented development
- Conversion of streetlights and traffic lights to LEDs

FY20-21 Progress of 4/1/21
24 Milestones



■ Complete ■ In Progress ■ Not Started



Progress Report: Transportation Sector Highlights



- City Fleet Electrification Study
- EV Charging study
- Connect Dallas (Strategic Mobility Plan)
- Update Comprehensive Landuse Plan (AKA Forward Dallas)
- Texas High Speed Rail continues
- Parking recommendations (underway)
- Conversion of streetlights and traffic lights to LEDs (underway)





Goal 4: Dallas is a zero waste community.

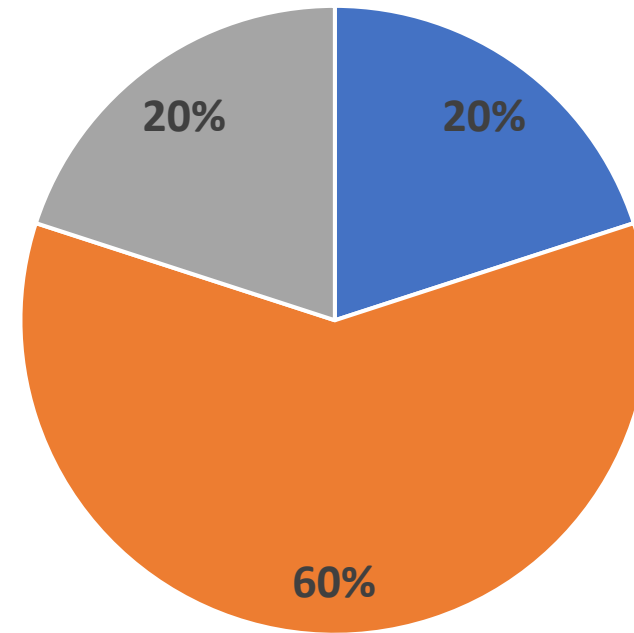
Progress Report: Waste Management Sector Update



- Green Procurement program
- Update to Local Solid Waste Management Plan
- Improve collection efficiency
- Take-a-Peek audits to educate customers on the recycling program




Zero Waste
FY20-21 Progress of 4/1/21
10 Milestones



■ Complete ■ In Progress ■ Not Started



An aerial photograph showing a wide, muddy-brown river winding through a vast, dense forest of green trees. The forest covers the majority of the landscape, with the river acting as a central waterway. In the far distance, a flat horizon line separates the forest from a pale, overcast sky. The text "Goal 5: Dallas protects its water resources and its communities from flooding and drought." is overlaid in white on the right side of the image.

Goal 5: Dallas protects its water resources and its communities from flooding and drought.

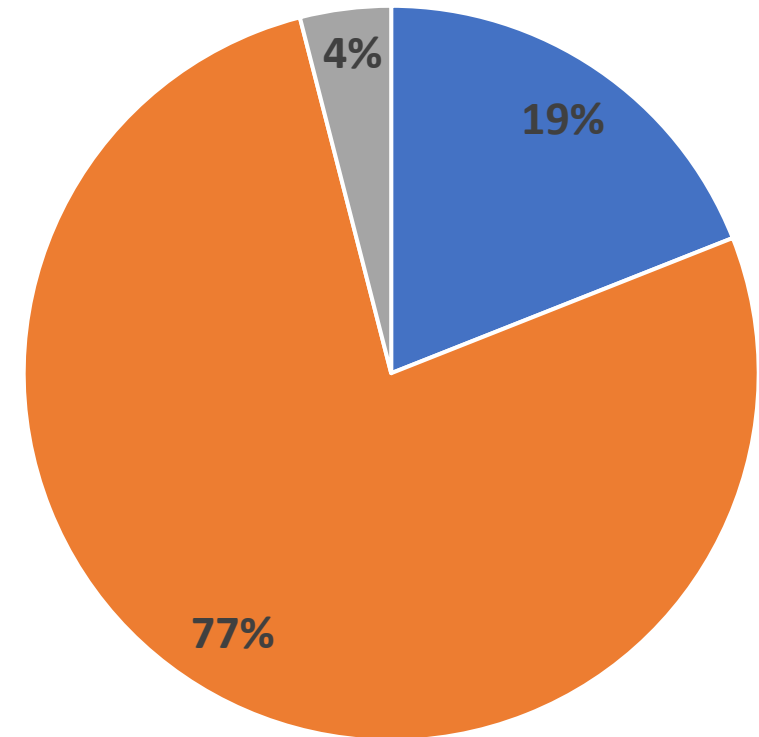
Progress Report: Water Sector Update



- Continue public awareness campaigns to increase water conservation knowledge
- Continue leak detection programs
- Encourage drought tolerant landscaping
- Continue water infrastructure projects
- Continue water quality monitoring



Water
FY20-21 Progress of 4/1/21
26 Milestones



■ Complete ■ In Progress ■ Not Started



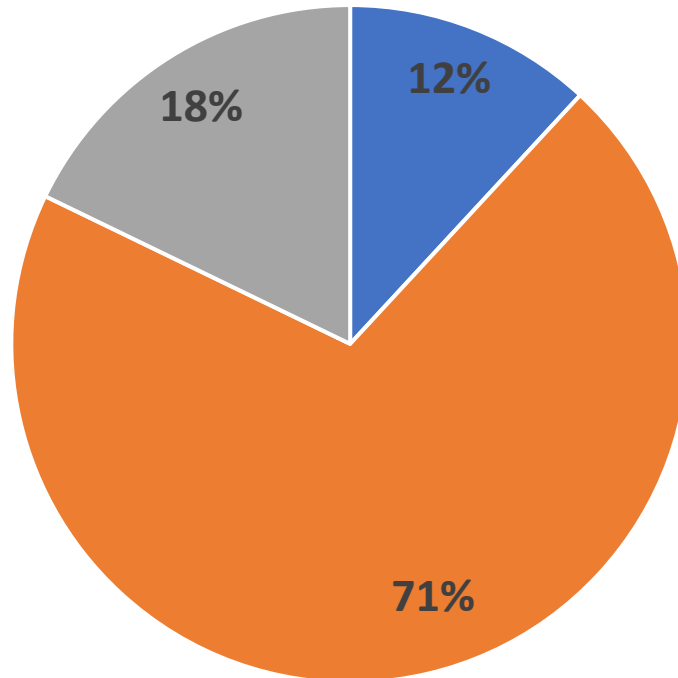


Goal 6: Dallas protects and enhances its ecosystems, trees, and green spaces that in turn improve public health.

Progress Report: Ecosystems/ Green Space Update



Ecosystems/Green Space
FY20-21 Progress of 4/1/21
17 Milestones



■ Complete ■ In Progress ■ Not Started

- Adopt Urban Forest Master Plan
- Continue existing tree outreach programs
- Update city park O&M to include eco-friendly and sustainable practices
- Assess opportunities for blue-green-gray infrastructure
- Support public-private partnerships using nature-based solutions



Progress Report: Urban Ecosystems/Green Spaces



- Adopt Urban Forest Master Plan
- Complete Green Stormwater Infrastructure Study with The Nature Conservancy
- Pilot green O&M practices in City Parks
- Work with the Texas Trees Foundation & others to plant trees in City parks



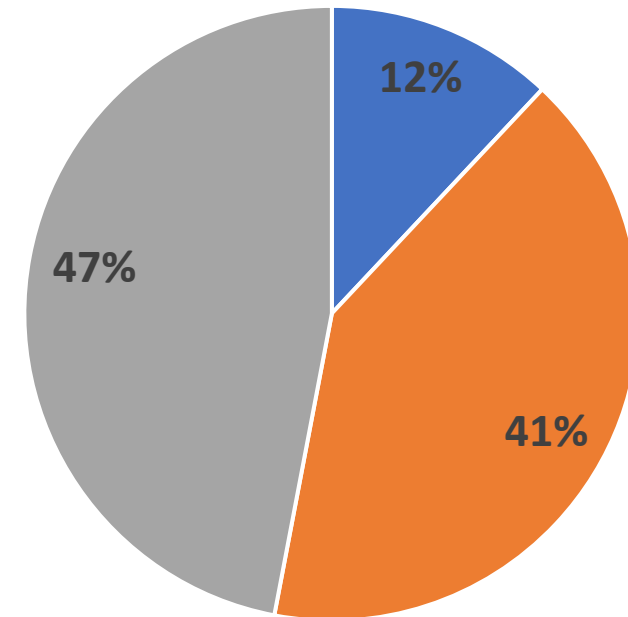
Goal 7: All Dallas
communities have
access to healthy,
local food

Progress Report: Food/Urban Agriculture Update



- Increase access to healthy local foods
- Create Food Advisory Council
- Develop Comprehensive Food and Urban Agriculture Plan
- Adopt special events ordinance/ Local food procurement plan

Urban Agriculture
FY20-21 Progress of 4/1/21
17 Milestones



■ Complete ■ In Progress ■ Not Started



Big Tex Urban Farms

Image Source: Dallas Morning News (Nathan Hunsinger / Staff Photographer)



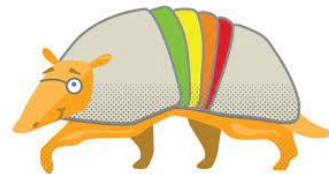


Goal 8: All Dallas communities breathe clean air

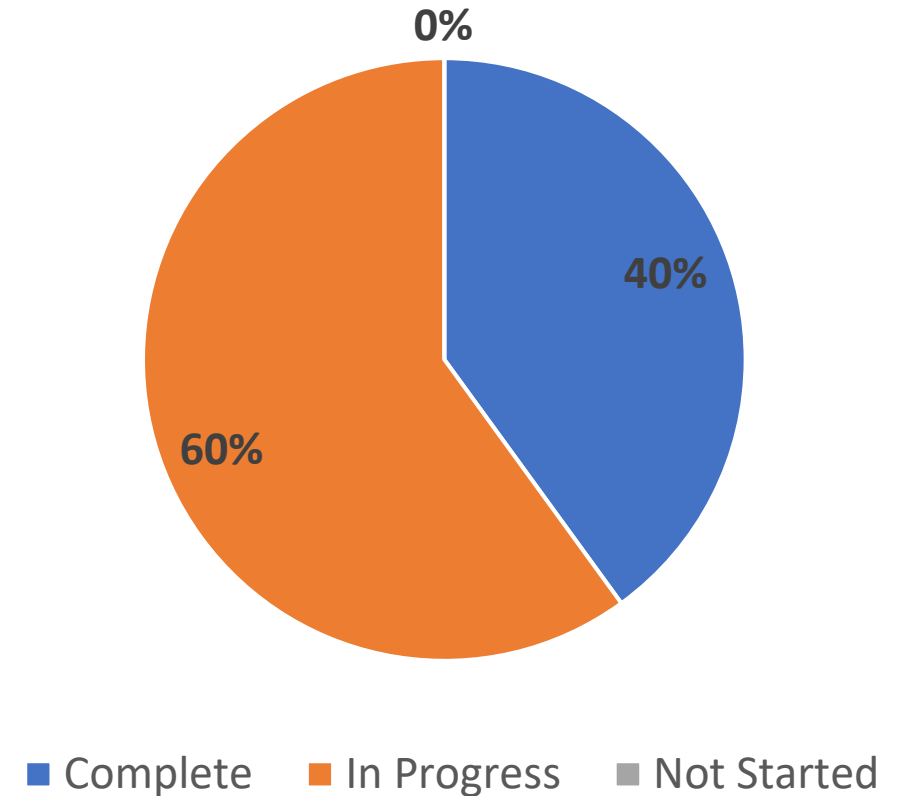
Air Quality Update



- Work with the TCEQ to site and install a new regulatory monitor
- Partner with nonprofits to implement non-regulatory air monitors
- Continue efforts with Air North Texas to raise public air quality awareness
- Ensure new industries are an appropriate distances away from neighborhoods



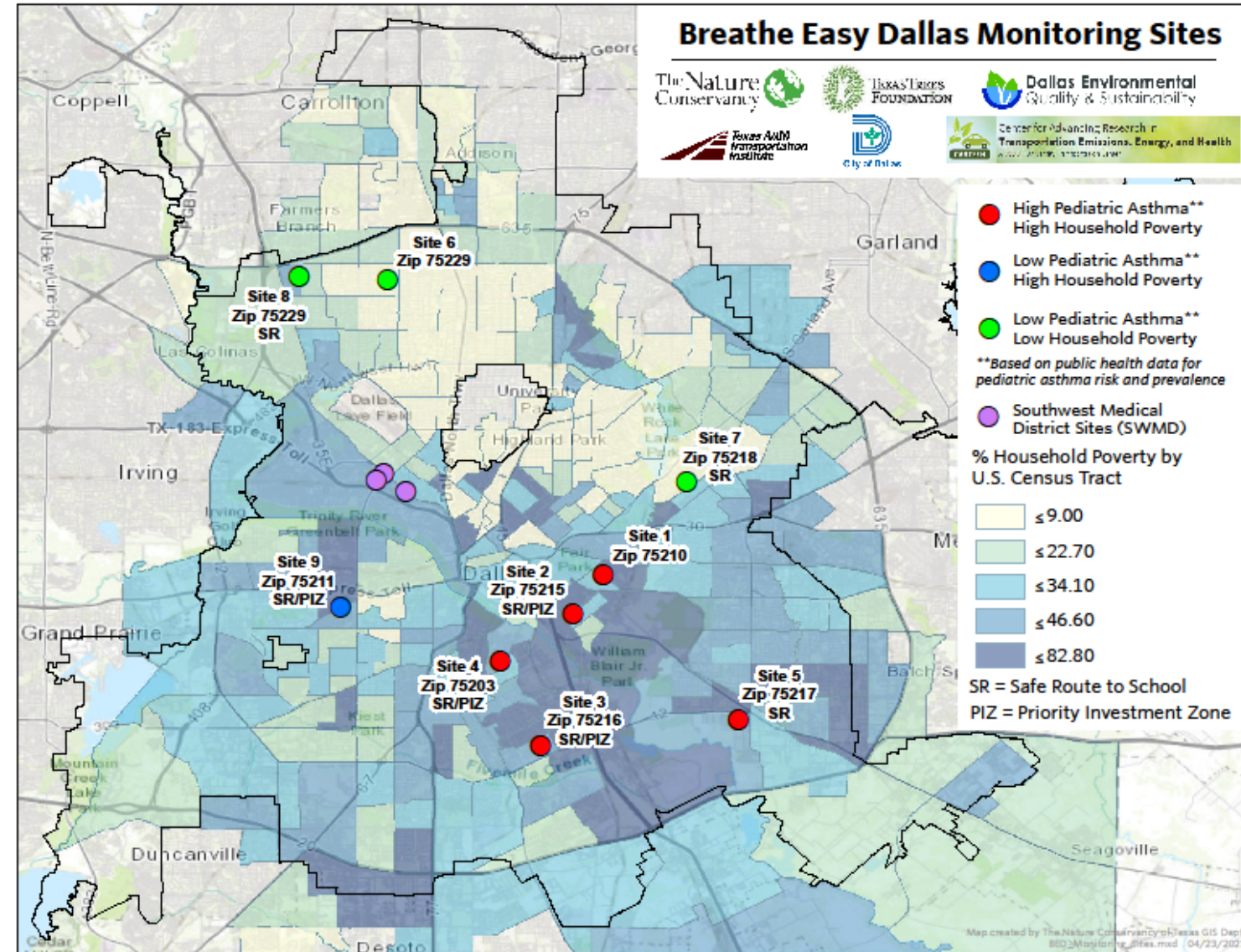
Air Quality
FY20-21 Progress of 4/1/21
10 Milestones



Progress Report: Air Quality Sector Highlights



- **Breathe Easy Dallas:** Install non-regulatory monitors in neighborhoods based upon public health and other data
- Work with TCEQ to install an additional air monitoring station



Collaboration & Engagement



EAS Task Force



Environmental Commission



Collaboration & Engagement



19

City departments engaged via four LEAF meetings and ongoing communication

9

Environment & Sustainability Task Force Meetings

~200

Public presentations



Other Related Accomplishments



- **World Economic Forum - 1 Trillion Trees Initiative**
- **Bird City, USA**
- **We're Still In/ U.S. Conference of Climate Mayors**
- **Carbon Disclosure Project City Scorecard**



Other Program Accomplishments



- Fair Park Brownfields Assessment
- Lane Plating Community Advisory Group
- Blue Star Site Settlement and Cleanup
- Old Fish Hatchery at White Rock Lake Restoration



Next Steps



- Continue to Implement FY 20-21 Work Plan
- Working with EAS Task Force to develop FY21-22 Work Plan
- Working to identify and attain funding for implementation
- Work with EAS Task Force and ENVS Committee on nominations for Environmental Commission and technical panel
- Continue to track performance





City of Dallas

CECAP Annual Update

**Environment & Sustainability
Committee
May 3, 2021**

Susan Alvarez,
Assistant Director
Office of Environmental
Quality & Sustainability