

# Memorandum



CITY OF DALLAS

DATE October 27, 2021

TO Honorable Chair and Members of the Environment & Sustainability Council Committee

SUBJECT **Comprehensive Environmental & Climate Action Plan (CECAP): FY 2021  
Performance Summary Report Memorandum**

This memorandum transmits a copy of the Comprehensive Environmental & Climate Action Plan (CECAP) FY 2021 Summary Performance Report, provided for your review and information. The report provides status of the FY 20-21 efforts under the CECAP as required by Resolution 20-0688, adopting the CECAP for implementation towards our commitment to meeting the goals of the 2017 Paris Climate Agreement through the US Climate Mayors pledge.

This report provides key highlights in each of the eight primary CECAP focus areas and appends tables and graphics that provide detailed information on the status of each action and milestone included in the FY 2020-2021 CECAP Implementation Work Plan. The shared outcomes have been briefed to the Environment & Sustainability Task Force prior to compilation into the attached report. Detailed performance information may also be found at: <https://www.dallasclimateaction.com/>.

We are proud of working along with our colleagues in 17 City of Dallas departments towards successfully completing 126 of the 136 milestones included in this plan, thus activating 48 of the 97 actions in this 30-year plan. We are collectively making enormous strides towards a more sustainable environment and better quality of life for the Dallas community. Staff will be providing regular updates to both the Environment Commission and the ENVIS City Council Committee going forward. Should you have questions or need additional information, please contact me or Sheila Delgado at 214-670-1642.

A handwritten signature in blue ink, appearing to read 'Joey Zapata'.

Joey Zapata  
Assistant City Manager

c: T.C. Broadnax, City Manager  
Chris Caso, City Attorney  
Mark Swann, City Auditor  
Billierae Johnson, City Secretary  
Preston Robinson, Administrative Judge  
Kimberly Bizer Tolbert, Chief of Staff to the City Manager  
Majed A. Al-Ghafry, Assistant City Manager

Jon Fortune, Assistant City Manager  
Joey Zapata, Assistant City Manager  
Dr. Eric A. Johnson, Chief of Economic Development and Neighborhood Services  
M. Elizabeth Reich, Chief Financial Officer  
M. Elizabeth (Liz) Cedillo-Pereira, Chief of Equity and Inclusion  
Directors and Assistant Directors



2021

# CECAP: IMPLEMENTATION SUMMARY REPORT



Office of Environmental Quality & Sustainability

11/1/2021

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# **Comprehensive Environmental & Climate Action Plan Fiscal Year 2021 Implementation Summary Report**

## **I. Introduction**

This FY 21 Implementation Summary report provides an update on progress of the City's Comprehensive Environmental & Climate Action Plan (CECAP) during its first year of implementation (FY 21). Year one of CECAP focused on building capacity through education and outreach, expanding partnerships, amplifying ongoing actions, exploring funding opportunities, pilots and proof of concept projects, and tracking and accountability. The FY 21 Implementation Work Plan included activation of 48 of the CECAP's 97 actions. Each action included in the plan includes 126 milestones identified as key steps towards full activation of the strategy and that were tracked and reported quarterly.

## **II. Background**

The CECAP was passed unanimously by Dallas City Council on May 27, 2020, and serves as a comprehensive roadmap to outline the specific activities that the City plans to undertake to improve quality of life for all residents, to reduce greenhouse gas emissions, to prepare for the impacts of climate change, and to create a healthier and more prosperous community. The Council has provided the staff direction to continue to develop and maintain programs that improve regional air quality, reduce carbon emissions and otherwise address climate change, as a common-sense approach that is good for our residents, our businesses and our planet.

The goals and actions set forth in the CECAP are determined to build coalitions and strengthen communities and are determined to significantly reduce carbon emissions and improve the quality of life for residents. The plan proposes 97 actions across eight sectors. The suite of actions in the plan have been carefully selected to include mitigation, adaptation, and environmental quality activities, all under an equity lens, to start Dallas on a 30-year path towards achieving carbon neutrality by 2050. Each action was evaluated for the potential to deliver a robust range of co-benefits, including social equity, economic, public health, mitigation, sustainability over time, environmental quality, and adaptation.

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. The IWP outlines efforts that collectively maintain the City of Dallas as a leader in reducing emissions and sets the path forward towards addressing climate and environmental risk with effective, equitable, and common-sense solutions. The CECAP commits to reaching net zero carbon by 2050, with an interim goal of a 43 percent reduction in greenhouse gas emissions from 2015 levels by 2030.

During this time, three stakeholder groups were formed to advise on outreach, strategies, and milestones. These groups include the Environment and Sustainability Council Committee (ENVS), the Environment and Sustainability Task Force (EAS-TF), Leading Environmental Action Forward (LEAF), and Regional Integration of Sustainability Efforts (RISE) Coalition. Each had an important role towards engaging the public, stakeholders and even other North Texas Cities.

### III. Summary Results

With appreciation for the ongoing effort and collaboration with 17 City departments as well as external partner organizations, 126 (93%) of the 136 milestones defined in the FY 21 Implementation Work Plan were completed, exceeding the goals as set forth by the Dallas City Manager. Seven (5%) milestones remain in progress, while three (2%) are not started. The following provides a summary of programmatic highlights. Tables summarizing sector-by-sector milestone status are attached, and may also be found online at [DallasClimateAction.com](https://DallasClimateAction.com).

#### **Goal 1: Dallas Buildings are Energy-Efficient and Climate Resilient.**

The combined building and energy sectors account for the highest percentage of GHG emissions in Dallas (64%). In FY 20-21, six actions from this sector were initiated, with 16 identified milestones. These actions included expansion of existing programs and efforts, and key updates to existing codes and ordinances. Interdepartmental collaboration included Building Services, Aviation, Economic Development, Office of the Bond Program, Housing & Neighborhood Revitalization, Parks, Libraries, and the Office of Environmental Quality & Sustainability. Highlights of key milestones completed in the Building Sector include, but are not limited to:

- Initiated energy benchmarking
- Performed energy audits
- Maintained/improved Airport Carbon Accreditation
- Increased participation in PACE Program
- Began developing net-zero specifications for 2022 Facility Bond Program



*Completed construction & opened New Vickery Park Library*

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

The combined building and energy sectors account for the highest percentage of GHG emissions in Dallas (64%). While the City has committed to using 100 percent renewable energy, there is a desire to convert from using renewable energy credits to local on- and off-site generation. In FY

20-21, six actions from this sector were initiated, with 16 identified milestones. These actions included expansion of existing programs and efforts, as well as updates to existing codes and ordinances. Implementation was performed through interdepartmental collaboration of the Office of Environmental Quality & Sustainability, Building Services, Sanitation Services, Office of the Bond Program, and the Office of Government Affairs. Highlights of milestones completed in the Energy Sector include, but are not limited to:



324 Solar Panel installation at Kiest Park (Previous installation)

- Collaborated with North Texas Renewable Energy Group to develop evaluation criteria for resilience hubs at city-owned facilities
- Completed Community Solar Study via technical assistance grant from US Department of Energy National Community Solar Partnership
- Installed solar on low-income housing projects (residential/multi-family)
- Developed Request for Competitive Sealed Proposals for a solar farm at Deepwood and Loop 12 landfills (project on short-term hold)

### **Goal 3: Dallas' Communities Have Access to Sustainable, Affordable, Transportation Options.**

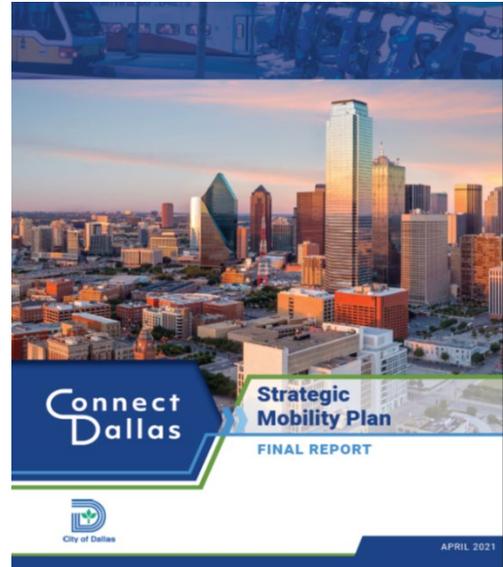
The transportation sector forms the single largest contribution of GHG emissions in Dallas (34%), of which 98 percent is attributed to on-road transportation. The majority (78%) of Dallas residents drive to work alone, while another 23.2 percent carpool, telework (4.8%), and use transit (3.8%), and other modes of transportation.

In FY 20-21, six actions from this sector, with 24 milestones, were initiated. These actions included implementation of the Connect Dallas Mobility Plan, along with expansion of existing programs and efforts, as well as updates to existing codes and ordinances. This sector involved Transportation, Equipment & Fleet Management, Office of the Bond Program, Economic Development, the Ad Hoc COVID Recovery Committee, Sustainable Development & Construction, Planning & Urban Design, as well as external partners such as DART and DISD.

During FY 20-21, the NCTCOG implemented a resolution requesting participating Cities to pledge towards a 20 percent reduction in Single Occupancy Vehicular travel. The goals of the CECAP for FY 2030 are consistent with this regional initiative.

Highlights of milestones completed in the Transportation Sector include, but are not limited to the information provided on the following page:

- Adopted Connect Dallas Strategic Mobility Plan
- Initiated fleet electrification study via a contract with the National Renewable Energy Laboratory
- Received funding for 50 electric vehicle charging stations through the Volkswagen Mitigation Trust Settlement, a grant program administered by TCEQ
- Worked towards coordinating transportation with the Forward Dallas Comprehensive Land Use Plan Update and DART Transit Oriented Development (TOD)
- Worked with DART on the bus network redesign



#### **Goal 4: Dallas is a Zero-Waste Community.**

Because of good landfill management practices that entail aggressive gas collection and re-sale, the emissions from the waste sector in Dallas are very minimal. However, during the public engagement conducted to develop the CECAP, there was significant public interest in additional actions within this sector. In FY 20-21, five actions from this sector, with 10 milestones were initiated. These actions include developing an update to the 2013 Local Solid Waste Management Plan (AKA Zero Waste Plan), along with expansion of existing programs and efforts, and updates to existing codes and ordinances. Implementation of these milestones involved collaboration by the Office of Environmental Quality & Sustainability, Office of Procurement Services, and Sanitation Services. Highlights of milestones completed in the Zero Waste Sector include, but are not limited to:



*Typical Bulk/Brush Layout: Pilot for separating bulk/brush underway*

- Actively promoted source reduction, recycling, and composting
- Developed and initiated the Sustainable Procurement Program
- Improved solid waste, recycling, and brush/bulky waste collection efficiency
- Initiated update to Local Solid Waste Management Plan

## **Goal 5: Dallas Protects its Water Resources and its' Communities from Flooding and Drought.**

The water and wastewater sectors together comprise less than 1 percent of the Dallas' GHG emissions; however, climatic variation from flooding to drought forms the largest single risk posed by climate change. Dallas Water Utilities has proactively planned for future conditions as a part of standard operations for years. The CECAP builds upon these ongoing robust plans and related actions. In FY 20-21, 11 actions from this sector, with 27 milestones were initiated, and or performed as part of planned ongoing operations by the utility. These actions include expansion of existing programs and efforts, as well as updates to existing codes and ordinances. Implementation of Goal 5 milestones was primarily under Dallas Water Utilities leadership with participation by the Office of Environmental Quality & Sustainability, Sustainable Development & Construction, Park & Recreation, and the Office of Planning and Urban Design. Highlights of key milestones completed in the Water Resources Sector include, but are not limited to the following:

### **Outreach and Education – Continue:**

- Water conservation, leak detection, water-wise landscaping programs
- Local and regional awareness campaigns
- Irrigation system evaluations

### **Infrastructure Resiliency – Continue:**

- Major drainage infrastructure projects
- Storm Drainage System Assessment and planning process
- Implementing Drought Contingency Plan
- Emergency planning to protect & maintain key water infrastructure services in extreme weather



*"Big Tex", AKA the Mill Creek Project tunneling equipment*



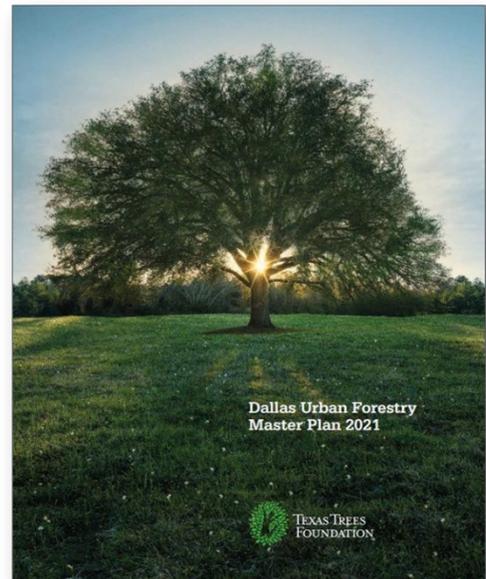
### **Water Quality – Continue:**

- Ongoing water quality monitoring and protection programs
- Ongoing monitoring for emerging contaminants

## **Goal 6: Dallas Protects and Enhances its Ecosystems, Trees, and Greenspaces That in Turn Improve Public Health.**

In Dallas, there are 388 parks totaling over 27,000 acres, plus the approximate 6,000-acre Great Trinity Forest. However, these green spaces are not evenly distributed, and only about 60 percent of Dallas residents have access to a park within ½ mile walk of their home. Additionally, the City of Dallas is second only to Phoenix, Arizona relative to the size of the urban heat island. In FY 20-21, five actions from this sector, with 17 milestones were initiated. These actions include implementing the Urban Forest Master Plan, along with expansion of existing programs and efforts, as well as updates to existing codes and ordinances. Goal 6 actions and milestones involved collaboration between Dallas Water Utilities, Sustainable Development & Construction, Office of Environmental Quality & Sustainability, Parks & Recreation, Planning & Urban Design, and Public Works. Key highlights of accomplishments under this sector include but are not limited to:

- Adopted and began implementing the City of Dallas Urban Forest Master Plan
- Completed green infrastructure modelling with The Nature Conservancy and Texas A&M Agrilife
- Initiated tree inventory of all public lands and created the City of Dallas Tree Task Force
- Initiated Dallas Forestry Website
- Developed and Initiated Emerald Ash Borer Plan
- Continued Branch-Out, Branching Out Dallas, Cool Schools and Re-tree post-storm planting programs
- Completed Parks' Sustainable Landscape Equipment Pilot



## **Goal 7: All Dallas' Communities have Access to Healthy, Local Food.**

Access to healthy food for vulnerable communities in southern and western Dallas is a significant challenge. It has been documented that over 36 percent of Dallas' residents live in census tracts that meet the USDA definition for food deserts. Additionally, the food supply chain is heavily dependent upon food suppliers outside of Texas and the United States. Rising temperatures, changing precipitation patterns and more frequent droughts may result in losses to crops and livestock, and could lead to supply chain issues and increased food insecurity. This is also an area with significant community concern. In FY 20-21, five actions from this sector, with 17 milestones were initiated. These actions include developing an Urban Agriculture Plan to guide efforts

forward as well as updates to existing codes and ordinances. Departments involved in Goal 7 activities include Office of Environmental Quality & Sustainability, Office of Innovation, Economic Development, Office of Procurement Services, and Convention & Event Services. Key Highlights include, but are not limited to:

- Initiated Healthy Food Procurement for City Events via a Request for Proposals (underway)
- Initiated Food Advisory Council with both internal and external stakeholders
- Initiated Comprehensive Food & Urban Agriculture Planning efforts
- Initiated USDA grant to address food waste
- Supported neighborhood, school, and church community gardens
- Participated in the North Texas Food Policy Alliance through the University of Texas at Arlington Regional Center for Excellence to address food security at a regional level.



*“Growzilla” – a controlled environment agricultural facility located at Fair Park*

### **Goal 8: All Dallas’ Communities Breathe Clean Air.**

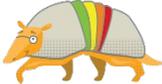
While air quality in Dallas is generally improving, in north Texas, 10 counties including Dallas, do not consistently meet the 2008 Federal Air quality criteria for ground level ozone; nine counties consistently do not meet the 2015 federal ozone standard. In addition, in 2020, the regional air quality for ground level ozone was deemed to be in “Severe Non-Attainment” despite the government shutdown and reduced traffic and transportation.

Air Quality is also an area with significant community concern. In FY 20-21, work commenced on 10 milestones under the four actions in this sector. These actions include implementing both regulatory and non-regulatory monitors, and expanding several existing programs. Departments working towards these efforts include the Office of Environmental Quality & Sustainability, Transportation, Planning & Urban Design, and Sustainable Development & Construction. All Air Quality actions have been activated and will be continued towards meeting programmatic targets of attaining National Ambient Air Quality Criteria standards compliance.

Highlights in the Air Quality Sector are provided on the following page:



*Breathe Easy Air Quality monitor installation at Exline Recreation Center*

- Installed and activated new TCEQ regulatory monitoring site at Pilgrim Drive
- Installed Breathe Easy Dallas air quality monitors in 12 locations across City
- Continued Air North Texas program of air-quality focused public information efforts with the NCTCOG 
- Developed and shared mapping of Industry v residential & other sensitive receptors with the Planning & Urban Design group to support Comprehensive Landuse Plan update efforts.

#### **IV Ongoing Efforts**

With appreciation for the work accomplished towards completing the milestones under the FY 20-21 Implementation Work Plan, we recognize several milestones that are still **in progress** that will continue into FY 22. These milestones include:

- **Buildings**
  - B11: Develop a list of building codes related to solar photovoltaics and EV charging
- **Transportation**
  - T1: Complete fleet electrification study
- **Zero Waste**
  - SW5: Formally complete and adopt updated Local Solid Waste Management Plan
- **Water Resources**
  - WR7: Evaluate feasibility for undertaking additional initiatives to qualify for Class 4 FEMA rating
  - WR15: Award construction contracts that will result in the replacement and rehabilitation of approximately 32 miles of wastewater pipelines, including relocation and private development projects
- **Ecosystems**
  - EG3: Establish protocols for assessing tree canopy loss

- **Food Security**

- FA14: Develop a program to help event organizers donate surplus food

There are also three milestones that are **not started**, all of which are related to the future high-speed rail line currently under development.

- T2: Work with DART to incentivize and expand current offerings in the city for transit commuting services (Not Started)
- T2: Work with partners to identify businesses that heavily utilize short-haul air travel (Not Started)
- T2: Work with transit commuting services to create awareness campaigns and benefits to shift away from short-haul air travel (Not Started)

## **V Adaptive Management**

The CECAP commits to regular review of performance towards meeting the emissions reduction goals set forth in the 2017 Paris Agreement, per the U.S. Climate Mayors commitment. This review is based upon performing regular updates of the greenhouse gas (GHG) inventory and assessment of data trends towards reductions in emissions. The CECAP includes a minimum three-year GHG inventory interval.

The CECAP was based upon the most GHG inventory available to the department. This baseline inventory was completed using the International Local Governments for Sustainability (ICLEI) methodology in 2019, using data for the 2015 calendar year.

While sufficient for initial planning, the OEQS climate staff have begun updating this inventory this year to reflect data from 2019, to allow an assessment of where the City currently stands relative to GHG emissions, and to guide future planning, identify any necessary CECAP plan updates and help guide the overall focus for implementation.

Because of the government shutdown, and other related anomalous data excursions during 2020, the data from 2019 will be used to support this effort, and the ICLEI methodology, using the Clearpath tool will be used to develop this inventory (consistent with the 2015 effort).

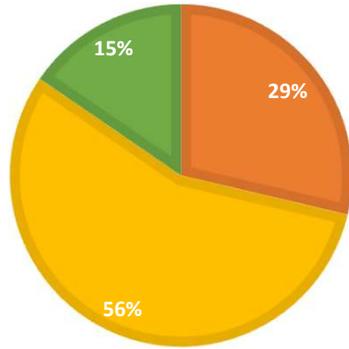
The results of this new inventory and evaluation of trends in emissions reduction will be brought forward to the Dallas City Council in Spring, 2022, along with any recommended updates to the CECAP, based on these data.

It should also be noted that the City of Dallas intends to contribute these data with the NCTCOG's Regional Integration of Sustainability Efforts (RISE) Coalition towards forming a regional emissions inventory. The regional effort may also be considered relative to any potential revisions to the CECAP.

## **APPENDIX – Tables & Graphs**

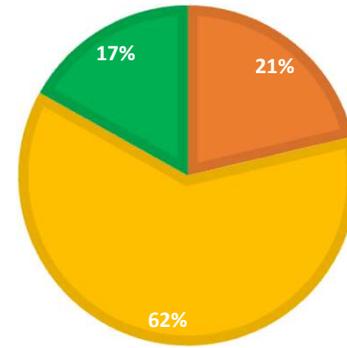
# FY 20-21 Milestone Progress by Quarter

## FY20-21 Q1 MILESTONE PROGRESS



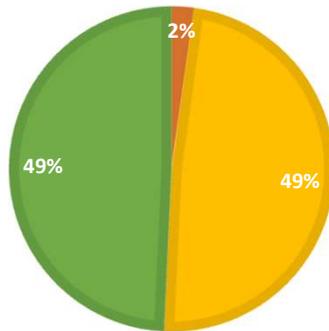
■ Not started ■ In Progress ■ Complete

## FY20-21 Q2 MILESTONE PROGRESS



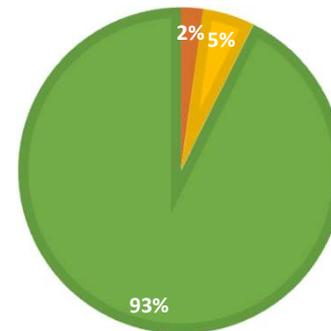
■ Not started ■ In Progress ■ Complete

## FY20-21 Q3 MILESTONE PROGRESS



■ Not started ■ In Progress ■ Complete

## FY20-21 Q4/EOY MILESTONE RESULTS



■ Not started ■ In Progress ■ Complete

## FY 20-21 Quarterly Milestone Progress

Overall Progress									
	Q1	Q1	Q2	Q2	Q3	Q3	Q4	Q4/EOY	
Not started		39	29%	29	21%	3	2%	3	2%
In Progress		76	56%	84	62%	66	49%	7	5%
Complete		21	15%	23	17%	67	49%	126	93%
		136		136		136		136	

### Quarterly Milestone Progress by Sector

Buildings										Energy									
	Q1	Q1	Q2	Q2	Q3	Q3	Q4	Q4/EOY		Q1	Q1	Q2	Q2	Q3	Q3	Q4	Q4/EOY		
Not started	6	38%	0	0%	0	0%	0	0	0	Not started	11	69%	8	50%	0	0%	0	0%	
In Progress	8	50%	12	75%	8	50%	1	6%	6%	In Progress	4	25%	7	44%	7	44%	0	0%	
Complete	2	13%	4	25%	8	50%	15	94%	94%	Complete	1	6%	1	6%	9	56%	16	100%	
	16		16		16		16		16		16		16		16		16		
Transportation										Zero Waste									
	Q1	Q1	Q2	Q2	Q3	Q3	Q4	Q4/EOY		Q1	Q1	Q2	Q2	Q3	Q3	Q4	Q4/EOY		
Not started	7	29%	7	29%	3	13%	3	13%	13%	Not started	2	20%	2	20%	0	0%	0	0%	
In Progress	14	58%	14	58%	12	50%	1	4%	4%	In Progress	6	60%	6	60%	6	60%	1	10%	
Complete	3	13%	3	13%	9	38%	20	83%	83%	Complete	2	20%	2	20%	4	40%	9	90%	
	24		24		24		24		24		10		10		10		10		
Water Resources										Ecosystems									
	Q1	Q1	Q2	Q2	Q3	Q3	Q4	Q4/EOY		Q1	Q1	Q2	Q2	Q3	Q3	Q4	Q4/EOY		
Not started	1	4%	0	0%	0	0%	0	0%	0%	Not started	3	18%	3	18%	0	0%	0	0%	
In Progress	20	77%	21	81%	12	46%	2	8%	8%	In Progress	12	71%	12	71%	6	35%	1	6%	
Complete	5	19%	5	19%	14	54%	24	92%	92%	Complete	2	12%	2	12%	11	65%	16	94%	
	26		26		26		26		26		17		17		17		17		
Food										Air Quality									
	Q1	Q2	Q1	Q2	Q3	Q3	Q4	Q4/EOY		Q1	Q1	Q2	Q2	Q3	Q3	Q4	Q4/EOY		
Not started	8	47%	8	47%	0	0%	0	0%	0%	Not started	1	10%	1	10%	0	0%	0	0%	
In Progress	7	41%	7	41%	12	71%	1	6%	6%	In Progress	5	50%	5	50%	3	30%	0	0%	
Complete	2	12%	2	12%	5	29%	16	94%	94%	Complete	4	40%	4	40%	7	70%	10	100%	
	17		17		17		17		17		10		10		10		10		

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

#	Action	FY 20-21 Milestones	Status
B1	<p>B1: Demonstrate leadership in developing a carbon neutrality plan for municipal operations.</p> <p>Primary benefit: Mitigation Co-benefits: Cost savings, education</p>	<p>Conduct energy benchmarking for City facilities Establish an inter-departmental energy committee Initiate a citywide energy management system</p> <p>Initiate energy audits to identify retrofit opportunities</p> <p>Begin implementing no cost to low cost retrofits and efficiency improvements identified from energy audits</p> <p>Initiate renewable energy feasibility study to identify suitable locations for installing solar photovoltaic panels on City of Dallas facilities</p>	<p>Complete Complete Complete Complete Complete</p>
B2	<p>B2: Achieve Level 3+ Airport Carbon Accreditation at Love Field for carbon neutral operations, maintain accreditation for DFW and pursue for Dallas Executive Airport</p> <p>Primary benefit: Mitigation Co-benefits: Cost savings</p>	<p>Maintain Level 2 accreditation at Love Field Airport</p> <p>Maintain Level 3 carbon accreditation at DFW</p>	<p>Complete Complete</p>
B5	<p>B5: Identify new financing mechanisms to accelerate energy efficiency improvements in existing buildings.</p> <p>Primary benefit: Mitigation Co-benefits: Cost savings, education, inequality</p>	<p>Expand participation in the City's existing PACE financing program</p>	<p>Complete</p>
B7	<p>B7: Increase participation and scope of the Dallas Green Business Certification Program</p> <p>Primary benefit: Mitigation Co-benefits: Cost savings, education, resource consumption</p>	<p>Evaluate existing program for participation and effectiveness</p> <p>Partner with Chambers of Commerce to increase awareness and participation in the program</p>	<p>Complete Complete</p>
B11	<p>B11: Update the Building Code to require wiring conduits for solar photovoltaics and electric vehicle charging infrastructure in new construction</p> <p>Primary benefit: Mitigation Co-benefits: Adaptation</p>	<p>Develop a list of building codes related to solar photovoltaics and EV charging</p> <p>Initiate building code updates upon completion of the NCTCOG 2021 Code Update process</p>	<p>In Progress Complete</p>
B15	<p>B15: Evaluate potential city-owned properties for the creation of "resilience hubs"</p> <p>Primary benefit: Adaptation Co-benefits: Public health, cost savings, inequality</p>	<p>Develop a criteria rubric for resilience hubs</p> <p>Identify potential resilience hubs</p> <p>Evaluate viability of potential resilience hubs</p>	<p>Complete Complete Complete</p>

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

#	Action	FY 20-21 Milestones	Status
E3	<p>E3: Continue partnership with public utility companies on an intensive program on renewable energy options.</p> <p>Primary benefit: Mitigation Co-benefits: Employment, cost savings, education</p>	<p>Develop educational programs focused on commercial, industrial, and institutional sectors</p> <p>Partner with stakeholders (local utilities, PACE program, educational institutions, etc.), to participate in public information program</p> <p>Explore new financing opportunities such as grants and subsidies</p>	<p>Complete</p> <p>Complete</p> <p>Complete</p>
E5	<p>E5: Build a regional strategic partnership to promote adoption of renewable energy.</p> <p>Primary benefit: Mitigation Co-benefits: Employment, education</p>	<p>Identify potential partners (counties, school districts, universities, etc.)</p> <p>Develop strategic partnerships to increase investment in renewable energy projects</p>	<p>Complete</p> <p>Complete</p>
E6	<p>E6: Establish and invest in renewable energy hubs through partnerships with the private sector.</p> <p>Primary benefit: Mitigation Co-benefits: Employment, cost savings, adaptation</p>	<p>Establish criteria rubric for renewable energy hubs</p> <p>Identify institutional and contractual requirements to form partnership for joint development of renewable projects</p> <p>Evaluate funding opportunities</p>	<p>Complete</p> <p>Complete</p> <p>Complete</p>
E7	<p>E7: Extend city efforts to develop more renewable energy projects on city facilities.</p> <p>Primary benefit: Mitigation Co-benefits: Cost savings, adaptation</p>	<p>Initiate renewable energy feasibility study to identify suitable locations for installing solar photovoltaic panels on City of Dallas facilities</p> <p>Complete Community Solar Technical Assistance Grant Project from USDOE Grants to attain recommendations for City Community Solar Program to benefit low-income residents.</p> <p>Initiate Community Solar Pilot Program</p> <p>Identify funding sources for design and installation of renewable energy projects for multiple city facilities.</p>	<p>Complete</p> <p>Complete</p> <p>Complete</p> <p>Complete</p>
E8	<p>E8: Continue to implement Green Energy Policy for city facilities.</p> <p>Primary benefit: Mitigation Co-benefits: Cost savings</p>	<p>Continue to implement Green Energy Policy</p> <p>Identify opportunities for partnerships that can facilitate implementation of renewable energy projects</p>	<p>Complete</p> <p>Complete</p>
E10	<p>E10: Advocate for renewable energy policies at the state and federal levels</p> <p>Primary benefit: Mitigation</p>	<p>Advocate through U.S. Climate Mayors for policies that facilitate decarbonization of the power sector</p> <p>Work with Texas mayors to advocate the state legislature to increase the Texas Renewable Portfolio Standard to 90% zero-carbon electricity by 2050.</p>	<p>Complete</p> <p>Complete</p>

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

	Action	FY 20-21 Milestones	Status
T1	<p>T1: Work with City of Dallas, DISD, and DART to transition the bus and light duty fleet to 100% electric by 2040.</p> <p>Primary benefit: Mitigation Co-benefits: Air quality, cost savings</p>	<p>Determine locations for EV charging stations Conduct a fleet electrification study Explore funding opportunities for EV charging and fleet electrification Install public and semi-public EV charging infrastructure as feasible</p>	<p>Complete In Progress Complete Complete</p>
T2	<p>T2: Work with private and public intrastate transport operators to expand transit services between major super commuting cities.</p> <p>Primary benefit: Mitigation Co-benefits: Air quality</p>	<p>Work with DART to incentivize and expand current offerings in the city for transit commuting services Continue to work on development of high-speed rail Work with partners to identify businesses that heavily utilize short-haul air travel Work with transit commuting services to create awareness campaigns and benefits to shift away from short-haul air travel</p>	<p>Not Started Complete Not Started Not Started</p>
T5	<p>T5: Support and expand recommended Travel Demand Management strategies identified in the Strategic Mobility Plan.</p> <p>Primary benefit: Mitigation Co-benefits: Air quality, public health, cost savings</p>	<p>Adopt Strategic Mobility Plan Work with business community to educate on benefits of travel demand, including, but not limited to, work at home, and shifting office schedules</p>	<p>Complete Complete</p>
T11	<p>T11: Develop a new comprehensive land use strategy in the upcoming comprehensive plan update to pair with the SMP and CECAP goals, adopt policy to reduce transportation related GHG emissions.</p> <p>Primary benefit: Mitigation Co-benefits: Air quality, employment, public health, cost savings</p>	<p>Initiate comprehensive land use plan update, as feasible During development process, coordinate with DART's long-range transit plan and the TOD policy During development process, ensure alignment with the bus system, regional job growth, density and CECAP goals During development process, ensure alignment with other relevant plans such as the Strategic Mobility Plan, Economic Development Plan, and Comprehensive Housing Policy Evaluate need for a policy requiring conformity with land use strategy for staff approval Evaluate need for a policy requiring non-conforming developers to demonstrate how they will mitigate negative impacts</p>	<p>Complete Complete Complete Complete Complete Complete</p>
T14	<p>T14: Adopt a revised parking ordinance strategy that supports new mode split goals and land use strategy that minimizes available parking in transit-oriented districts.</p> <p>Primary benefit: Mitigation Co-benefits: Air quality, cost savings</p>	<p>Consider establishing parking maximums in areas with mature transit infrastructure Consider establishing parking management districts as needed Pilot a parking district in a Dallas PID, as feasible</p>	<p>Complete Complete Complete</p>
T16	<p>T16: Convert all traffic lights and streetlights to LEDs.</p> <p>Primary benefit: Mitigation Co-benefits: Cost savings</p>	<p>Contract with ONCOR to perform lighting energy audits Identify best available retrofit improvements Update streetlight standards to require energy-efficient streetlights for new and replacement installations Initiate conversion of traffic lights to LEDs, where feasible Initiate conversion of streetlights to LEDs, where feasible</p>	<p>Complete Complete Complete Complete Complete</p>

**Goal 4: Dallas is a zero waste community.**

#	Action	FY 20-21 Milestones	Status
<b>SW1</b>	SW1: Actively promote source reduction, recycling, and composting to the Dallas community.  Primary benefit: Environmental quality Co-benefits: Resource consumption, emissions reduction, employment	Expand current education efforts to inform residents and business owners of their options to refuse, reduce, reuse, and recycle	Complete
<b>SW2</b>	SW2: Develop a comprehensive green procurement plan for city operations and establish a sustainable procurement policy.  Primary benefit: Environmental quality Co-benefits: Resource consumption, resource conservation, emission reduction, employment, cost savings	Conduct goods and services purchasing study Implement voluntary green procurement pilot	Complete Complete
<b>SW3</b>	SW3: Improve solid waste, recycling, and brush/bulky waste collection efficiency.  Primary benefit: Mitigation Co-benefits: Cost savings, air quality	Evaluate benchmarks for service frequency Evaluate collection routes for efficiency	Complete Complete
<b>SW5</b>	SW5: Update and implement the Zero Waste Management Plan.  Primary benefit: Mitigation Co-benefits: Resource consumption, air quality	Update the Local Solid Waste Management Plan Formally adopt revised Local Solid Waste Management Plan Monitor and evaluate waste to energy alternatives for feasibility	Complete In Progress Complete
<b>SW8</b>	SW8: Continue to capture gas and expand capacity from landfill for reuse and evaluate for city operations.  Primary benefit: Mitigation Co-benefits: Resource consumption, air quality, cost savings	Annually evaluate need for gas collection system expansion  Expand program as needed to increase methane recovery	Complete  Complete

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

#	Action	FY 20-21 Milestones	Status
WR1	<p>WR1: Continue investment in public awareness campaigns to increase knowledge of the value of water and importance of conservation.</p> <p>Primary benefit: Adaptation Co-benefits: Stewardship, resource conservation, education</p>	<p>Continue to offer rebate and incentive-based programs to promote water conservation in an effort to resourcefully manage the City's annual GPCD</p> <p>Continue to offer education and outreach opportunities to promote water conservation in an effort to resourcefully manage the City's GPCD</p> <p>Continue the 'Save Water. Nothing Can Replace It.' local public awareness campaign, promoting local conservation programs and educational opportunities for DWU customers</p> <p>Continue activities and efforts related to the "Defend Your Drains" public awareness campaign</p> <p>Continue the North Texas Regional unified public awareness campaign</p> <p>Continue water conservation outreach efforts to support wholesale customer cities</p>	<p>Complete</p> <p>Complete</p> <p>Complete</p> <p>Complete</p> <p>Complete</p> <p>Complete</p>
WR2	<p>WR2: Continue investment in leak detection and expand programs to reduce overall water loss through the conveyance systems.</p> <p>Primary benefit: Adaptation Co-benefits: Stewardship, education</p>	<p>Continue existing leak detection programs</p> <p>Expand leak detection programs, as feasible</p> <p>Continue requesting and tracking TWDB Annual Water Conservation Reports for wholesale customer cities, which include 5- and 10-year water loss targets</p>	<p>Complete</p> <p>Complete</p> <p>Complete</p>
WR4	<p>WR4: Encourage businesses and residents to plant drought-tolerant and native vegetation or xeriscape to reduce irrigation water use.</p> <p>Primary benefit: Adaptation Co-benefits: Stewardship, resource consumption, emissions reduction, cost savings</p>	<p>Continue to offer free automatic irrigation system evaluations and promote best management practices on outdoor watering</p> <p>Develop additional resources to promote reducing outdoor water use</p> <p>Continue ongoing education and outreach programs to promote best management practices that recognize landscape design that reduces water consumption</p>	<p>Complete</p> <p>Complete</p> <p>Complete</p>
WR5	<p>WR5: Continue to monitor and protect water quality and implement improvement projects in the watershed.</p> <p>Primary benefit: Environmental quality Co-benefits: Water quality, public health</p>	<p>Continue to collaborate with other agencies within the Trinity Watershed</p> <p>Update current Stormwater Quality Monitoring Program to include other surface water bodies and expand upon parameters monitored</p>	<p>Complete</p> <p>Complete</p>
WR6	<p>WR6: Continue to protect and monitor water quality by tracking emerging contaminants that may impact public health.</p> <p>Primary benefit: Environmental quality Co-benefits: Public health</p>	<p>Enhance monitoring plan for emerging contaminants, (i.e., PFAS) as needed</p>	<p>Complete</p>
WR7	<p>WR7: Use FEMA community rating system to educate and protect communities from flooding.</p> <p>Primary benefit: Adaptation Co-benefits: Cost savings</p>	<p>Evaluate feasibility for undertaking additional initiatives to qualify for Class 4 rating</p> <p>Use rating system to educate flood-prone communities</p>	<p>In Progress</p> <p>Complete</p>

<b>WR8</b>	WR8: Complete the implementation of major planned and ongoing drainage infrastructure projects to improve community resilience to flooding.  Primary benefit: Adaptation Co-benefits: Cost savings	Fund and implement highlighted stormwater capital improvement objectives for FY 20-21 from SDM Budget	Complete
		Continue construction of Mill Creek Drainage Relief Tunnel scheduled for completion in 2023	Complete
		Implement Dallas Floodway/Dallas Floodway Extension	Complete
<b>WR9</b>	WR9: Initiate a comprehensive storm drainage system assessment and planning process.  Primary benefit: Adaptation Co-benefits: Public health	Initiate comprehensive storm drainage assessment activities that will identify resources and organizational needs, assess infrastructure condition, identify critical projects, and evaluate stormwater utility funding needs	Complete
<b>WR11</b>	WR11: Continue monitoring, evaluating, and updating the drought contingency plan.  Primary benefit: Adaptation Co-benefits: Public health, resource conservation	Continue to monitor and evaluate effectiveness of the Drought Contingency Plan Update Drought Contingency Plan as necessary	Complete Complete
<b>WR12</b>	WR12: Continue contingency planning to protect and maintain service of key water infrastructure facilities from extreme weather events.  Primary benefit: Adaptation Co-benefits: Cost savings, emissions reduction	Evaluate recommended risk management strategies developed as part of a completed Risk and Resilience Assessment for DWU's critical water facilities to plan and prioritize future mitigation measures	Complete
		Evaluate potential to install secondary power sources for critical infrastructure	Complete
<b>WR15</b>	WR15: Continue investment in sewer collection system to reduce inflow/infiltration (I/I) to improve water quality and reduce energy usage.  Primary benefit: Environmental quality Co-benefits: Cost savings, emissions reduction, public health	Award construction contracts that will result in the replacement and rehabilitation of approximately 32 miles of wastewater pipelines, including relocation and private development projects	In Progress

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

#	Action	FY 20-21 Milestones	Status
EG2	<p>EG2: Assess opportunities for blue-green infrastructure in the public realm to reduce flood risk.</p> <p>Primary benefit: Adaptation Co-benefits: Emissions reduction, air quality, water quality, public health, resource conservation</p>	<p>Initiate comprehensive storm drainage system assessment activities to identify areas prone to current and future flood risk</p> <p>Complete engineering efforts for a pilot project at 8470-8506 Britannia Way for the construction of alternative “green” erosion control measures</p>	<p>Complete</p> <p>Complete</p>
EG3	<p>EG3: Increase tree canopy in both private and public realm to complete implementation of recommendations from the Urban Forest Master Plan.</p> <p>Primary benefit: Adaptation Co-benefits: Emissions reduction, air quality, water quality, public health</p>	<p>Adopt Urban Forest Master Plan</p> <p>Begin implementation of actions in the Dallas Urban Forest Master Plan</p> <p>Establish protocols for assessing canopy loss</p> <p>Establish protocols for managing debris</p> <p>Initiate program development protocols for replanting and monitoring, including after storms and droughts that result in loss</p>	<p>Complete</p> <p>Complete</p> <p>In Progress</p> <p>Complete</p> <p>Complete</p>
EG4	<p>EG4: Continue ongoing programs to collaborate with community organizations to promote tree planting efforts, protection of trees and prairies, and drought tolerant landscapes.</p> <p>Primary benefit: Adaptation Co-benefits: Emissions reduction, air quality, water quality, public health, employment</p>	<p>Work with community-based organizations on land stewardship programs that educate residents and businesses and that plant and maintain trees in areas subject to heat island impacts</p> <p>Initiate ongoing effort to develop educational resources on best practices for maintaining mature trees</p> <p>Increase community outreach on tree knowledge and forest education</p> <p>Support partnerships and initiatives that protect and expand Blackland Prairies, as feasible</p> <p>Continue Branch Out Dallas, Branching Out Dallas, and Reforestation Program</p>	<p>Complete</p> <p>Complete</p> <p>Complete</p> <p>Complete</p> <p>Complete</p>
EG5	<p>EG5: Update city park operations and maintenance procedures to include comprehensive ecofriendly and sustainable best management practices.</p> <p>Primary benefit: Environmental quality Co-benefits: Education, air quality</p>	<p>Update park operations and maintenance procedures to include ecofriendly and sustainable practices</p> <p>Train City parks maintenances staff on the updated sustainable practices</p>	<p>Complete</p> <p>Complete</p>
EG9	<p>EG9: Support public and private partnerships using nature-based solutions to address public health challenges.</p> <p>Primary benefit: Environmental justice Co-benefits: Education, public health, employment</p>	<p>Provide technical assistance with grant writing</p> <p>Provide informational resources on funding opportunities and financing options to nonprofits</p> <p>Work with the Nature Conservancy, Re-tree, and Texas Trees on Breathe Easy Dallas, post-tornado reclamation and Cool-Schools Programs</p>	<p>Complete</p> <p>Complete</p> <p>Complete</p>

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

#	Action	FY 20-21 Milestones	Status
<b>FA1</b>	<p>FA1: Increase access to information on sustainable agriculture, best practices, and the benefits of healthy and local foods.</p> <p>Primary benefit: Adaptation Co-benefits: Public health, cost savings, education</p>	<p>Work in partnership with organizations to provide free education on the components of urban agriculture</p> <p>Connect UA stakeholders to technical assistance</p> <p>Work with Dallas schools to increase climate friendly food options in schools</p>	<p>Complete</p> <p>Complete</p> <p>Complete</p>
<b>FA2</b>	<p>FA2: Create a Food Advisory Council.</p> <p>Primary benefit: Environmental quality Co-benefits: Stewardship, education, resource consumption, emissions reduction, adaptation</p>	<p>Establish scope, roles, and responsibilities of the Food Advisory Council</p> <p>Identify potential members including farmers, advocates, nonprofits, restaurants, grocers' associations, chefs, food-supply chain entities/brokers, public health experts, and community members</p> <p>Establish the Food Advisory Council</p>	<p>Complete</p> <p>Complete</p> <p>Complete</p>
<b>FA3</b>	<p>FA3: Develop a Dallas Comprehensive Food and Urban Agriculture Plan.</p> <p>Primary benefit: Environmental quality Co-benefits: Water quality, employment, education, public health, resource consumption</p>	<p>Initiate development of a Dallas Comprehensive Food and Urban Agriculture Plan</p> <p>As part of the Urban Agriculture Plan, perform a comprehensive review of policy and regulatory barriers to growing local food for personal consumption or economic development</p> <p>As part of the Urban Agriculture Plan, develop a plan to remove aforementioned barriers</p> <p>As part of the Urban Agriculture Plan, evaluate demographic and community-specific needs</p> <p>As part of the Urban Agriculture Plan, identify incentives to support agriculture that provides carbon sequestration benefits</p>	<p>Complete</p> <p>Complete</p> <p>Complete</p> <p>Complete</p> <p>Complete</p>
<b>FA9</b>	<p>FA9: Establish a local food procurement plan to encourage local food purchasing at city-sponsored events.</p> <p>Primary benefit: Environmental quality Co-benefits: Employment, public health, adaptation</p>	<p>Build on local preference procurement policy to address food procurement that emphasizes healthy, local food</p> <p>Define geographic and nutritional standards for all City-sponsored events</p> <p>Initiate development of and pilot local food procurement procedures to support policy development</p>	<p>Complete</p> <p>Complete</p> <p>Complete</p>
<b>FA14</b>	<p>FA14: Adopt a special events ordinance that encourages procurement of locally sourced food, recycling of waste generated, and compost bins at special events.</p> <p>Primary benefit: Environmental quality Co-benefits: Education, public health, stewardship</p>	<p>Initiate draft ordinance for special events that requires multiple waste management options</p> <p>Research best practices and legal requirements for a related ordinance</p> <p>Develop a program to help event organizers donate surplus food</p>	<p>Complete</p> <p>Complete</p> <p>In Progress</p>

**Goal 8: All Dallas' communities breathe clean air.**

#	Action	FY 20-21 Milestones	Q4 Status
AQ1	<p>AQ1: Work with the Texas Commission on Environmental Quality to install additional air quality monitoring stations across the city.</p> <p>Primary benefit: Environmental justice Co-benefits: Air quality, public health</p>	<p>Work with TCEQ to identify location for installation of a new monitoring station</p> <p>Install new monitoring station at Dallas Pilgrim Drive as approved by TCEQ in FY 19-20</p> <p>Continue to make data available to the public</p>	<p>Complete</p> <p>Complete</p> <p>Complete</p>
AQ2	<p>AQ2: Partner with nonprofits and schools to develop and implement non-regulatory monitors in neighborhoods.</p> <p>Primary benefit: Environmental justice Co-benefits: Air quality, public health</p>	<p>Work with The Nature Conservancy and Texas Trees Foundation to site and install non-regulatory monitors in neighborhoods based upon public health and other data</p> <p>Select locations in coordination with stakeholders</p> <p>Use resulting neighborhood level data to track progress for air quality improvement</p>	<p>Complete</p> <p>Complete</p> <p>Complete</p>
AQ3	<p>AQ3: Continue to support and expand on the Air North Texas campaign to raise public awareness and improve air quality.</p> <p>Primary benefit: Environmental justice Co-benefits: Air quality, public health, education</p>	<p>Continue to support Air North Texas Campaign</p> <p>Expand on Air North Texas Campaign</p> <p>Tailor communication to suit needs of different communities</p>	<p>Complete</p> <p>Complete</p> <p>Complete</p>
AQ4	<p>AQ4: Ensure new industries are an appropriate distance away from neighborhoods.</p> <p>Primary benefit: Environmental justice Co-benefits: Air quality, public health</p>	<p>Develop a map of environmental data and known environmentally impacted parcels by performing analysis of residential and industrial properties, highlighting Racially and Ethnically Concentrated Areas of Poverty (RECAP)</p>	<p>Complete</p>