

DRAFT-Dallas-Fort Worth Air Quality Improvement Plan Comprehensive Action Plan (CAP) Transportation Measures

As of 11/12/2025

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Category	Proposed CAP Measures		Estimated % of Measure's Contribution to Category's Reduction	Related Mobility 2050 Policies and Programs	Implementing Agencies	Estimated Cost Per Project	Explanation of Cost Estimate	Annual Emissions Benefits Per Project (Metric Tons)				Level of Implementation in 2030	Level of Implementation in 2050	Implementation Timeline	Implementation Milestones	Metrics for Tracking Progress	Emissions Benefits in 2030				Expected Community Benefits				
	Measure Name	Project						CO ₂	NO _x	VOC	PM2.5						CO ₂	NO _x	VOC	PM2.5					
Measure Category 1: Vehicle/Equipment Technology Upgrades: Contributes 13% of the Goal to Reduce Emissions 25% by 2050	Measure 1: Expand Use of On-Road Alternative Fuel Vehicles	Expand Adoption of Light and Medium Duty Alternative Fuel Vehicles	30%	CF3-002, CF2-002, CF2-003	Public and Private Entities	\$50,000 - \$75,000	Cost Range of New Alternative Fuel Vehicle; Cost Varies Depending on Vehicle Type (Ex: Car vs Pickup Truck)	9.70	0.02	0.00	0.00	40,981	204,904	TBD	Year 5- 41,000 Adoptions; Year 15- 123,000 Adoptions; Year 25- 205,000 Adoptions	DMV Vehicle Registration Data; Fleet Survey; Long Range Metropolitan Transportation Plan	397,514.28	823.72	67.62	2,05	1,987,571.42	4,118.58	338.09	10.25	Economic Development; Improved Health and Well-Being; Increased Resiliency and Adaptability; Reduced Noise Pollution
		Expand Adoption of Medium and Heavy Duty Alternative Fuel Vehicles						25.68	0.20	0.01	0.00	28,553	142,768	TBD			738,240.81	5,567.86	242.70	42.83	3,691,204.07	27,839.29	1,213.51	214.15	
	Measure 2: Reduce Emissions from Locomotives	Demonstrate a Zero Emission Locomotive	1%	CF3-002, CF2-003	Rail Operators	\$6,000,000 - \$12,500,000	Cost of Repowering Existing Locomotive or Purchasing One New Locomotive	N/A	N/A	N/A	N/A	0	1	TBD	Year 5- 0 Demos; Year 15- 1 Demo; Year 25- 1 Demo	Yearly Project Reports; Long Range Metropolitan Transportation Plan	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Improved Health and Well-Being; Increased Resiliency and Adaptability	
		Convert Tier 0/ Uncontrolled Switcher Locomotives to Tier 4 or Lowest Emitting Technology						168.30	23.14	0	1.00	124	619	TBD	Year 5- 100 Conversions; Year 15- 400 Conversions; Year 25- 600 Conversions	Yearly Project Reports; Long Range Metropolitan Transportation Plan	20,822.08	2,862.88	0.00	123.72	104,110.38	14,314.40	0.00	618.60	
		Convert Existing Passenger Rail Locomotives to Tier 4 or Lowest Emitting Technology						168.30	23.14	0	1.00	101	506	TBD	Year 5- 100 Conversions; Year 15- 300 Conversions; Year 25- 500 Conversions	Yearly Project Reports; Long Range Metropolitan Transportation Plan	17,036.34	2,342.37	0.00	101.23	85,181.68	11,711.85	0.00	506.13	
		Add Wayside Power to Trinity Railway Express						NRT and Trinity Met	\$5,000,000	Cost of 9 Wayside Power Units		176.40	2.68	0	0.11	2	9	TBD	Year 5- 2 Installs; Year 15- 6 Installs; Year 25- 9 Installs	Yearly Project Reports; Long Range Metropolitan Transportation Plan	317.52	4.82	0.00	0.20	1,587.60
	Measure 3: Expand Use of Alternative Fuel Non-road Equipment	Expand Alternative Fuel Equipment Adoption: Engines >25hp	9%	CF3-004, CF2-002, CF2-003	Public and Private Fleets	\$60,000 - \$2,425,000	Cost Range of New Alternative Fuel Equipment; Cost Varies Depending on Equipment Type (Ex: Forklift vs Crane)	2.93	0.17	0.01	0.02	34,887	174,433	TBD	Year 5- 35,000 Adoptions; Year 15- 105,000 Adoptions; Year 25- 174,000 Adoptions	Yearly Project Reports; Fleet Survey; Long Range Metropolitan Transportation Plan	102,217.98	6,087.72	248.57	571.27	511,089.80	30,438.62	1,242.84	2,856.35	Economic Development; Improved Health and Well-Being; Increased Resiliency and Adaptability; Reduced Noise Pollution; Reduced Costs
		Expand Alternative Fuel Equipment Adoption: Engines <25hp						Public and Private Fleets and Residents	\$30 - \$500	Cost Range of New Alternative Fuel Equipment; Cost Varies Depending on Equipment Type (Ex: Weedwhacker vs Mower)		7.32	0.04	0.00	0.00	32,583	162,916	TBD	Year 5- 32,000 Adoptions; Year 15- 101,000 Adoptions; Year 25- 163,000 Adoptions	Yearly Project Reports; Fleet Survey; Long Range Metropolitan Transportation Plan	238,508.57	1,412.09	145.65	5.21	1,192,542.85
Measure 4: Expand Sources and Use of Low-Emitting Fuels	Expand Availability and Adoption of On-Road Low Emitting Fuels (Gasoline Alternatives)		5%	CF2-002, CF2-001	Public and Private Entities	\$2,000	Average Annual Cost of Alternative Fuels for Light Duty Vehicles Operating 15,000 Miles Annually	16.60	0.04	0.00	0.00	3,991	19,956	TBD	Year 5- 4,000 Adoptions; Year 15- 12,000 Adoptions; Year 25- 20,000 Adoptions	Yearly Project Reports; Alternative Fuels Data Center; Alternative Fuels Price Report; Long Range Metropolitan Transportation Plan	68,252.39	159.84	11.97	0.40	331,261.96	798.22	59.87	2.00	Economic Development; Improved Health and Well-Being; Increased Resiliency and Adaptability; Reduced Noise Pollution; Reduced Costs
	Expand Availability and Adoption of On-Road Low Emitting Fuels (Diesel Alternatives)							CF3-002, CF2-003	Public and Private Entities	\$4,500	Average Annual Cost of Alternative Fuels for Medium/Heavy Duty Vehicles Operating 30,000 Miles Annually		17.70	0.00	0.00	0.00	6,951	34,757	TBD	Year 5- 7,000 Adoptions; Year 15- 21,000 Adoptions; Year 25- 35,000 Adoptions	Yearly Project Reports; Alternative Fuels Data Center; Alternative Fuels Price Report; Long Range Metropolitan Transportation Plan	123,040.13	0.00	0.00	0.00
Measure 5: Implement Regional Emissions Compliance Program	Implement Law Enforcement Operations Focused on Illegal Engine Tampering and Emissions Compliance Activities	TBD	AQ3-003, AQ3-004, AQ2-001	NCTCOG & Public Entities	\$8,000,000	Cost Represents Regional Implementation (i.e. Multiple Projects in the 10-County Ozone Nonattainment Region)		TBD	TBD	TBD	TBD	0	1	TBD	Year 5- 0 Projects; Year 15- 5 Projects; Year 25- 10 Projects	Yearly Project Reports; Long Range Metropolitan Transportation Plan	TBD	TBD	TBD	TBD	TBD	TBD	TBD	Improved Health and Well-Being; Increased Engagement and Awareness; Increased Safety; Reduced Noise Pollution	
Measure 6: Reduce Emissions from Airports	Increase Airport Accreditation, Establish Best Practices, and Increase Use of Sustainable Aviation Fuel	5%	AV3-003, AQ2-004, AV2-002	Airports	\$27,918,000	Annual Cost to Fuel a Boeing 737 With Sustainable Aviation Fuel (710 Gallons per hour at 3000 hours)	10,230.00	5.09	3.08	0.07	19	93	TBD	Year 5- 20 Implementations; Year 15- 60 Implementations; Year 25- 90 Implementations	Yearly Project Reports; Airport Carbon Accreditation Map; Long Range Metropolitan Transportation Plan	189,292.52	94.11	56.94	1.24	946,462.58	470.53	284.69	6.18	Economic Development; Increased Safety; Increased Resiliency and Adaptability	

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Category	Proposed CAP Measures		Estimated % of Measure's Contribution to Category's Reduction	Related Mobility 2050 Policies and Programs	Implementing Agencies	Estimated Cost Per Project	Explanation of Cost Estimate	Annual Emissions Benefits Per Project (Metric Tons)				Level of Implementation in 2030	Level of Implementation in 2050	Implementation Timeline	Implementation Milestones	Metrics for Tracking Progress	Emissions Benefits in 2030				Expected Community Benefits					
	Measure Name	Project						CO ₂	NO _x	VOC	PM2.5						CO ₂	NO _x	VOC	PM2.5						
Measure Category 2: System Operations Contributes 5% of the Goal to Reduce Emissions 25% by 2050	Measure 7: Optimize Transportation System Efficiency	Optimize Technology and Multimodal Connectivity	8%	FP3-004, FP2-004, TT2-001, FP2-001, TT2-005	Public Entities	\$5,000,000	Cost for One Project Implementation	197.00	0.68	0.02	0.02	1,537	7,687	TBD	Year 5- 1,500 Projects; Year 15- 4,500 Projects; Year 25- 7,500 Projects	Yearly Project Reports, Long Range Metropolitan Transportation Plan	302,868.19	1,045.43	30.75	30.75	1,514,340.97	5,227.17	153.74	153.74	Increased Access to Service; Economic Development; Increased Safety; Reduced Costs; Increased Resiliency and Adaptability; Improved Health and Well-Being; Reduced Noise Pollution	
	Measure 8: Optimize Truck and Rail Flow	Improve Roadways with Features such as Improved Alignments, Roundabouts, Dedicated Turn Lanes, etc.		MO3-001, FP2-004, TSSF2-002	Public Entities	\$40,000,000	Cost for Completion of One Project	10,705.06	5.32	3.22	0.07	11	53	TBD	Year 5- 10 Projects; Year 15- 30 Projects; Year 25- 50 Projects	Yearly Project Reports, Transportation Improvement Program Database, Long Range Metropolitan Transportation Plan	112,638.64	56.00	33.88	0.76	563,193.21	279.99	169.40	3.78	Increased Access to Service; Economic Development; Increased Safety; Reduced Costs; Increased Resiliency and Adaptability; Improved Health and Well-Being; Reduced Noise Pollution	
		Install Grade Separations		FP3-014	TxDOT, Local Governments	\$40,000,000		483.87	0.23	0.10	0.00	2	10	TBD	Year 5- 2 Projects; Year 15- 6 Projects; Year 25- 10 Projects	Yearly Project Reports, Transportation Improvement Program Database, Long Range Metropolitan Transportation Plan	927.74	0.46	0.20	0.01	4,638.70	2.30	1.00	0.03		
	Measure 9: Enhance Regional Traffic Signal Operations	Upgrade or Replace All Traffic Signal Equipment that do not Meet Regional Minimum Standard	9%	TSM03-008, TSM02-002, RD2-002	Public Entities	\$50,000,000	Cost to Upgrade/Replace All Traffic Signal Equipment that does not Meet Regional Minimum Standards	0.00	0.00	0.00	0.00	0	1	TBD	Year 5- 20% of traffic signals upgraded; Year 15- 40% of traffic signals upgraded; Year 25- 100% of traffic signals upgraded	Yearly Project Reports, Transportation Improvement Program Database, Long Range Metropolitan Transportation Plan	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
		Improve Signal Timing in the Region		TSM0-007, TSM02-002, TSM02-003, RD2-002	Public Entities	\$6,500	Cost to Upgrade One Traffic Signal	203.87	0.10	0.06	0.00	715	3,573	TBD	Year 5- 700 Improvements; Year 15- 2,100 Improvements; Year 25- 3,500 Improvements	Yearly Project Reports, Internal Data, Transportation Improvement Program Database, Long Range Metropolitan Transportation Plan	145,755.33	71.48	42.88	1.00	728,776.65	357.30	214.38	5.00	Increased Access to Service; Economic Development; Increased Safety; Reduced Costs; Increased Resiliency and Adaptability; Improved Health and Well-Being; Reduced Costs	
		Install Bus Signal Prioritization Equipment		TR3-008, TSM02-002, RD2-002	Public Entities	\$187,000	Cost of the Upgrading of One Route with Multiple Signals and Purchase Installation of Associated Vehicle Equipment	597.87	0.18	0.14	0.00	453	2,265	TBD	Year 5- 500 Installations; Year 15- 1,600 Installations; Year 25- 2,000 Installations	Yearly Project Reports, Internal Data, Transportation Improvement Program Database, Long Range Metropolitan Transportation Plan	270,688.33	81.52	63.41	0.95	1,353,441.65	407.62	317.03	4.76		
Measure Category 3: Mode Operations Contributes 7% of the Goal to Reduce Emissions 25% by 2050	Measure 10: Expand Active Transportation Network	Improve and expand bicycle and pedestrian facilities, improving connections with major destinations	9%	BP3-001, BP2-002	Public Entities	\$2,000,000	Cost for One Project Implementation (i.e. One Trail, Off-Street Bikeway, Sidewalk)	3,955.98	0.76	0.85	0.02	86	431	TBD	Year 5- 90 Projects; Year 15- 260 Projects; Year 25- 430 Projects	Yearly Project Reports, Internal Data, Transportation Improvement Program Database, Long Range Metropolitan Transportation Plan	340,726.83	65.46	73.21	1.72	1,703,634.17	327.29	366.05	8.81	Economic Development; Improved Health and Well-Being; Increased Access to Service; Increased Resiliency and Adaptability; Increased Safety; Increased Awareness and Engagement; Reduced Noise Pollution	
	Measure 11: Reduce Vehicle Miles Traveled	Incentivize Commuting During Off Peak Times & Other Alternative Commute Methods		SD3-006, TDM2-001, BP2-002	Employers	\$500,000	Cost for One Project Implementation	2,465.47	0.68	0.37	0.00	58	292	TBD	Year 5- 60 Projects; Year 15- 180 Projects; Year 25- 300 Projects	Yearly Project Reports, Internal Data, Transportation Improvement Program Database, Long Range Metropolitan Transportation Plan	143,766.49	39.65	21.58	0.29	718,832.43	198.26	107.88	1.45	Economic Development; Improved Health and Well-Being; Increased Resiliency and Adaptability; Increased Safety	
		Utilize Smart Infrastructure to Improve Operations		AQ3-008, AQ2-005, TT2-004	Public Entities	\$1,000,000		706,850.92	351.41	57.48	4.74	0	3	TBD	Year 5- 0 Projects; Year 15- 1 Project; Year 25- 3 Projects	Yearly Project Reports, Internal Data, Transportation Improvement Program Database, Long Range Metropolitan Transportation Plan	-	-	-	-	2,120,552.76	1,054.23	172.44	14.22		
	Measure 12: Increase Access to Transit Service	Expand Transit Service Area	6%	MD3-001, CF2-006	Local Governments and Transit Agencies	\$1,125,000	Cost for One Transit Service Expansion/Frequency Project	597.87	0.26	0.14	0.00	114	570	TBD	Year 5- 100 Projects; Year 15- 400 Projects; Year 25- 600 Projects	Yearly Project Reports, Internal Data, Transportation Improvement Program Database, Long Range Metropolitan Transportation Plan	68,145.14	29.64	15.96	0.24	340,725.89	148.22	79.81	1.20	Economic Development; Improved Health and Well-Being; Increased Access to Service; Increased Resiliency and Adaptability; Increased Awareness and Engagement; Reduced Costs	
		Increase Transit Attractiveness		TR3-007, TR3-008	Public Entities	\$8,000,000	Annual Cost for Regional Implementation	7,450.03	3.30	1.80	0.25	12	61	TBD	Year 5- 10 Projects; Year 15- 40 Projects; Year 25- 60 Projects	Yearly Project Reports, Internal Data, Transportation Improvement Program Database, Long Range Metropolitan Transportation Plan	90,860.57	40.25	21.95	3.05	454,302.83	201.23	109.76	15.25		
		Increase Development of Transit Oriented Developments and Mobility Hubs		SD3-002, TDM2-001, SD2-001, EZ2-001	Public Entities	\$1,833,000	Cost of the Development of One Mobility Hub	8,571.70	3.57	2.00	0.05	0	40	TBD	Year 5- 0 Projects; Year 15- 20 Projects Adoptions; Year 25- 40 projects	Yearly Project Reports, Internal Data, Transportation Improvement Program Database, Long Range Metropolitan Transportation Plan	-	-	-	-	340,725.08	141.91	79.50	1.99		

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	Measures Removed from DFW AQIP CAP: Transportation Sector																																				
NA	Green Purchasing/ Green Construction Program							Measure Removed From Plan; The CAP is focused on the implementation of measures which provide quantifiable air quality benefits. The development of a plan, while an essential step to beginning implementation, does not provide quantifiable benefits.																													
	Expand Landscaping, Vegetation and Tree Cover							Removed From Sector; Addressed as part of the Agriculture, Forestry, and Land Use Sector																													
	Develop Parks, Plazas, and Open Spaces							Measure Removed From Plan; The CAP is focused on the implementation of measures which provide quantifiable air quality benefits. The development of a plan, while an essential step to beginning implementation, does not provide quantifiable benefits.																													
	Preserve Existing Green Spaces							Measure Removed From Plan; The CAP is focused on the implementation of measures which provide quantifiable air quality benefits. The development of a plan, while an essential step to beginning implementation, does not provide quantifiable benefits.																													
	Develop Regional Transit Plan							Measure Removed From Plan; The CAP is focused on the implementation of measures which provide quantifiable air quality benefits. The development of a plan, while an essential step to beginning implementation, does not provide quantifiable benefits.																													