

2021 Tulsa Area Ozone Advance Annual Update – New And Ongoing Projects

Section 1. Enhanced Public Outreach And Education Programs

Emission Reduction Project	Administrative Entity	Description	Status	Implementation Schedule
Tulsa Area Ozone Alert! Program	INCOG	<p>The Ozone Alert! Program takes a voluntary, episodic approach to ozone pollution reduction and healthy air quality. The Tulsa region's award-winning OzoneAlert.com continues to provide hourly ozone data, AQI information, pollen and mold spore allergy reporting, and more information.</p> <p>2021 Update: OzoneAlert.com has been migrated to TulsaAirQuality.com, which now serves as the Tulsa region's hub for outdoor air quality information. The 2021 public education and outreach season was focused on promoting the launch of the new site as the new home of OzoneAlert.com. New creative spots featured popular outdoor recreation areas in Tulsa and spread the message to "Stay Air Aware" and "Breathe Easy" while enjoying summer outdoor activities with information from TulsaAirQuality.com. New digital creative ad pieces were developed in a wide range of formats and used in targeted digital and pre-roll ads, physical billboards along various major commuting routes, and throughout media venues locally. INCOG's 2021 total media campaign expenditure of \$48,000 was additionally matched with a minimum of 20% in additional bonus scheduling by each media station involved. The program currently has hundreds of E-Alert! subscribers and over a thousand (and growing) Text Alert! subscribers. Additionally, in-person Ozone Alert! Program outreach was conducted twice during the season at the Guthrie Green's Food Truck Wednesday. Three Ozone Alert! Days were issued during the 2021 ozone season, on June 15th, 16th, 17th.</p>	Ongoing	1991 -

Emission Reduction Project	Administrative Entity	Description	Status	Implementation Schedule
Tulsa Area Clean Cities Coalition (TACC)	Tulsa Area Clean Cities Coalition / INCOG	<p>The U.S. Department of Energy's Clean Cities program's mission is to advance the energy, economic, and environmental security of the United States by supporting local decisions to adopt practices that reduce the use of petroleum in the transportation sector. Designated in 1997, the Tulsa Area Clean Cities Coalition (TACC) works with local businesses and governments through outreach and education to promote the use of alternative fuels. TACC works to advance alternative fuels, idle reduction, and to promote the education of alternative fuel fleets, vehicle availability, and refueling options. www.tulsacleancities.com</p> <p>2021 Update: In Tulsa Area Clean Cities' 2020 Annual Report (dated March 2021), the Coalition's local alternative fuel projects and actions were reported as reducing more than seven million gallons of gasoline (7,319,915), 99% of which are directly attributed to alternative fuel vehicles (AFVs). TACC projects in 2020 resulted in additional greenhouse gas emissions reductions by 38% from 2019 for a total of 14,746 tons. The AFLEET emission calculator quantifies the criteria pollutants emissions reduced by combined alternative vehicle/fuel type as follows: NOx: 29,374 lbs.; VOC: 6,152 lbs.; PM10: 16 lbs.; PM2.5: 14 lbs. TACC was heavily involved in laying the groundwork for Tulsa Transit to add four new electric buses to their fleet, which began service in September. TACC has been a key contributor to the development of Oklahoma's electric vehicle charging network, which has now expanded to include DC fast chargers every 80 miles along Oklahoma's major highways and interstates. Oklahoma's robust charging network combined with a high concentration of electric vehicles per capita has driven recent interest in EV industry development in the Tulsa area.</p>	Ongoing	1997 -
Oklahoma Electric Vehicle Coalition (OEVC)	INCOG/ACOG, Utilities, Local Government, Vehicle Manufacturers, Charging Station Providers	<p>The Oklahoma Electric Vehicle Coalition (OEVC) is a diverse group of stakeholders working toward the development and expansion of the electric vehicle market in Oklahoma, whose mission is to facilitate the adoption and awareness of EVs and EVSE throughout the state. OEVC meetings are held every other month throughout the year. The coalition has worked to identify objectives, goals, and strategies around increasing the number of electric vehicles and electric vehicle charging stations in Oklahoma. The coalition worked to be included in the Federal Highway Administration's (FHWA) Alternative Fuel Corridor designations as well as Volkswagen Settlement electric vehicle charging station investments.</p> <p>2021 Update: On October 19th, 2021, the OEVC signed an MOU joining the Drive Electric USA (DE-USA) initiative, comprised of over 14 other states in a nationwide effort to develop transportation electrification initiatives at a statewide level of scope.</p>	Ongoing	2016 -

Emission Reduction Project	Administrative Entity	Description	Status	Implementation Schedule
		OEVC is not one of the 14 states in the DE-USA initiative receiving DOE funding for this work, but as OEVC is already performing the expected work of DE-USA affiliates, the Coalition opted to join without the prospect of funding.		
National Drive Electric Week	Tulsa Area Clean Cities/Oklahoma EV Coalition	<p>National Drive Electric Week (NDEW), organized nationally by Plug In America, Electric Auto Association, and Sierra Club among other organizations and sponsoring companies, is an annual, nationwide celebration of the benefits of electric vehicles. Tulsa Area Clean Cities hosts events in the Tulsa area for NDEW to expand public awareness and interest surrounding electric vehicles.</p> <p>2021 Update: Tulsa Area Clean Cities organized more events than ever before in 2021 to bring public attention and interest to the benefits of electric vehicles. Drive Electric Week in Tulsa was officially proclaimed by the city council and received media coverage from several local stations. During NDEW, TACC hosted a kickoff EV showcase featuring budget-friendly plug-in electric vehicles at a local grocery store in an underserved region in Tulsa, held an EV meetup and drive-in movie for current EV owners and interested community members to connect, organized an EV charger scavenger hunt that ran throughout the event week, and finally, held the EV Ride & Drive main event at a centrally located and prominent Route 66 location. The Ride & Drive was postponed due to severe weather and took place on November 6th, with a successful turnout of over 150 attendees and over 30 test drives and rides.</p>	Ongoing	2018 -
Public Outreach	Department of Environmental Quality	<p>The Oklahoma Department of Environmental Quality (DEQ) participates in multiple public outreach and education programs, which emphasize the importance of informing individuals about the effects of ozone on citizens' health. This includes producing/supplying ozone education materials, creating online videos encouraging energy efficiency, and issuing air quality watches for the Tulsa MSA. DEQ began its Air Quality Health Advisory Program in 2006, issuing real-time email notifications of unhealthy concentrations of ozone and other air pollutants.</p> <p>2021 Update: In addition to the national topics for Air Quality Awareness Week, in May 2021, DEQ released a video trailer on social media for a new superhero named Captain Atmosphere. Additional videos featuring the superhero were released throughout the summer of 2021 on various air quality topics. The Department continues to expand its list of subscribers for emails and text messaging. Due to the COVID-19 pandemic, the first virtual National Weather Festival was held in the fall of 2021. Digital content was available online as well as access to the virtual festival which hosted over 150,000 participants.</p>	Ongoing	2006 -

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Scor3Card	Sustainable Tulsa	<p>Sustainable Tulsa's Scor3Card Program (www.Scor3card.com) is helping Tulsa area businesses assess, track, and expand their Environmental, Social, and Governance efforts. Patterned from studied successes in other regions, Tulsa's unique Scor3Card program is a proprietary sustainability framework developed by Sustainable Tulsa. Member businesses log into the Scor3Card online tool to identify and track sustainable efficiency practices in materials management, energy, transportation, air quality, water conservation, a healthy work environment, and community resilience. The program offers support through resources, workshops, coaches, tips to achieve, and a network of businesses across 6 states and 14 cities where Scor3card has members. An independent verification board reviews completed Scor3Card items at the end of each cycle and scores them for participation, bronze, silver, gold, or platinum level recognition.</p> <p>2021 Update: Tulsa's Scor3card continues to grow in business membership and in importance to the community. Now in its sixth year, the program and online reporting tool have been updated as a result of their annual third-party review. The program has enhanced its array of support for sustainability teams and leadership, has added new Key Performance Indicators (KPIs), and included a new Scor3card Item to track Remote Work policies.</p>	Ongoing	2016 -

Section 2. Energy Efficiency Strategies And Programs

Emission Reduction Project	Administrative Entity	Description	Status	Implementation Schedule
Mandated Energy Efficiency Requirements	State of Oklahoma	<p>61 O.S. § 213, enacted on 6/3/2008, requires the state to develop a high-performance building certification program for state construction and renovation projects; program must meet the certification guidelines of either the LEED system or the Green Globes rating system. The requirement applies to new construction or substantial renovation projects that begin the design phase after July 1, 2008 in buildings larger than 10,000 square feet. “Substantial renovations” is defined as projects that cost in excess of 50% of the value of the facility. In order to be considered a “state project” for purposes of the requirements, state funds or state-insured funds must constitute at least 50% of the project cost. State agencies are directed to meet the highest level of certification attainable under a payback period of 5 years or less. Public schools (K-12) and state archive buildings are exempted from the requirements. The law also authorizes the Office of Management and Enterprise Services to pursue ENERGY STAR designation from the EPA to demonstrate further the energy efficiency of a public building project.</p> <p>2021 Update: No update.</p>	Ongoing	2008 -
The Oklahoma Energy Security Act	State of Oklahoma	<p>The Oklahoma Energy Security Act (17 O.S., Section 801.2 et seq.), which became effective in 2010, set statewide goals for alternative and domestically produced energy, including 15% of energy from renewables by 2015, and CNG fueling stations every 100 miles by 2015 and every 50 miles by 2025. Oklahoma’s renewable electricity generation surpassed the 15% goal in 2012. As of 2018, 32% of Oklahoma’s installed generating capacity uses renewable resources, and as of 2019, Oklahoma is 3rd in the nation for wind power generation.</p> <p>2021 Update: Oklahoma’s renewable electricity generation surpassed the 15% goal in 2012. As of 2020, 42% of Oklahoma’s installed generating capacity uses renewable resources and (as of 2020) Oklahoma is 3rd in the nation for wind power generation.</p>	Ongoing	2010 - 2025

Emission Reduction Project	Administrative Entity	Description	Status	Implementation Schedule
Oklahoma State Facilities Energy Conservation Program	State of Oklahoma	<p>The Oklahoma State Facilities Energy Conservation Program, established in 2012 (27A O.S. Section 3-4-106.1), directs all state agencies and higher education institutions to achieve an energy and conservation improvement target of at least 20% by 2020 when compared with 2012 utility expenditures. Oklahoma state-owned building energy usage is tracked with Energy CAP located at https://my.energycap.com/app/login. Reporting since 2014 can be accessed by logging in with the word "oklahoma" for Username, Password, and Data source.</p> <p>2021 Update: Statewide building energy use tracking continues to indicate improvements, reflecting continued decline in energy use and increases in cost savings. Costs statewide were reduced by 36% percent from 2019 to 2020.</p>	Ongoing	2012 -
Demand Response Energy Performance Reduction Program – Residential and Commercial	Public Service Company of Oklahoma	<p>Public Service Company of Oklahoma's (PSO) Energy Efficiency and Demand Response portfolio is multi-faceted portfolio of programs for residential and business customers encouraging and incentivizing the reduction in energy usage and peak energy demand. Since 2010, PSO has successfully implemented programs to help customers save energy, reduce peak demand, and make the most efficient use of electricity. The programs attempt to successfully reach all demographics including limited income, hard to reach, new construction, existing construction, non-profit, state, and local governments, and business customers of all sizes. PSO continues to refine and update offerings for customers to enhance energy efficiency and demand response opportunities.</p> <p>2021 Update: PSO's most recent 2020 Annual Report indicates an annual net EE Lifetime Energy Savings total of 1,635,943,000 kWh. PSO's Peak Demand reduction program reduced summer peak demand of the system by 58 MW. Using the eGRID annual emission rates for the SPP South (SPSO) sub region, the 2020 annual savings equates into water savings of 651 million gallons and emission reduction estimates of 1,233,695 tons of CO₂, 90 tons of CH₄, and 14 tons of NO₂. Since 2010, PSO estimates EE Lifetime Energy Savings net total of more than 11.7 billion kWh, lifetime water savings of 4.9 billion gallons, and lifetime emission reduction estimate of 7.4 million tons of CO₂.</p>	Ongoing	2010 -

Emission Reduction Project	Administrative Entity	Description	Status	Implementation Schedule
Oklahoma Natural Gas (ONG) Energy Efficiency Program	Oklahoma Natural Gas (ONG)	<p>2021 Update: ONG's latest Energy Efficiency Program Portfolio's reporting (dated March 2021) reflects the following combined Annual savings and reductions:</p> <ul style="list-style-type: none"> • Annual Source Therms Saved: 4,819,421 • Annual Source MMBtu Saved: 7,173,864 • Water Saved: 13,202,605 gallons/year • Annual Green House Gas Reductions (CO₂e, 1000lbs): 67,747.06 • Annual SO₂ Reductions (lbs.): 16,706.42 • Annual NO_x Reductions (lbs.): 80,330.81 	Ongoing	2012 -
OG&E Energy Efficiency Programs-Commercial	OGE Energy Corp.	<p>2021 Update: System wide, OG&E currently projects energy efficiency and demand reductions of up to 340 MW and 991 GWh through 2024.</p> <p>In 2020, Commercial Energy Efficiency Program (CEEP) generated total savings of 110,377,677 kWh. Includes:</p> <ol style="list-style-type: none"> 1) Commercial HVAC Tune-up and Plenum Seal 2) C&I HVAC Equipment, Chillers, Air Compressor, motor rebates 3) Midstream LED lighting discounts at commercial distributors 4) Schools and Government, HVAC & Lighting rebates, and assessments 5) Small Business direct install measures and midstream point-of-sale inducements 6) Continuous Energy Improvement (behavioral, operational improvements to save energy) 	Ongoing	2016 -
Electric Vehicle Promotion, Education, and Outreach	OGE Energy Corp.	<p>2021 Update: OG&E has promoted participation in OG&E ride and drive events; assisted with dealership outreach for OG&E events; promoted OG&E Charging Stations during ChargerChase OK and other EV events. OG&E encourages the adoption of electric vehicles (EVs) and plans to electrify its light duty vehicle fleet by 2030 and certain parts of its heavy-duty fleet. OG&E currently has approximately 25 electric vehicles in its fleet.</p>	Ongoing	2020 -
OG&E Energy Efficiency Programs-Residential	OGE Energy Corp.	<p>Oklahoma Gas and Electric Company (OG&E) has the most widespread Smart Grid technology in the country, which offers variable pricing through their Smart Hours program.</p> <p>2021 Update: In 2020 OG&E offered the following energy efficiency programs targeting Residential Customers:</p> <ul style="list-style-type: none"> - 2020 Home Energy Efficiency Program (HEEP) savings of 45,152,966 kWh 1) Residential HVAC Replacement and Tune-up services 2) OK Schools outreach; Educational Kit including install items for 5th grade students 3) Upstream LED lighting and other household equipment discounts in select stores 	Ongoing	2013 -

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		<p>4) Residential Solutions home energy advisors available to help customers improve knowledge of Energy Efficiency in their living spaces; includes multi-family direct install measures.</p> <p>- Weatherization: Energy efficiency improvements provided for lower-income hard-to-reach customers which includes ceiling insulation, general air infiltration improvements, LED lighting installations and performance testing; 2020 savings of 13,008,395 kWh.</p> <p>- Positive Energy New Home Construction: certification for homes that are shown to be more efficient than code; 2020 savings of 2,143,345 kWh.</p>		
State Energy Program American Recovery & Reinvestment Act Revolving Loan Funds	Tulsa Area Clean Cities Program / INCOG	<p>In 2013, the State Energy program - American Recovery and Reinvestment Act (SEP ARRA) revolving loan program, previously administered by the Oklahoma Department of Commerce, was transferred to INCOG for administration. The 1% interest rate for public entities and 2% private interest rate loan program provides capital necessary for the implementation of building energy efficiency retrofits, renewable energy and demand management projects, and alternative fuel infrastructure or fleet conversion. Current recipients of the loan program include:</p> <p>Tulsa County Parks: O'Brien Park Recreation Center, \$320,000 for HVAC and lighting replacements and upgrades.</p> <p>2021 Update: Due to the closing of the Recreational Center from 2019 to late 2020, some utility information remains incomplete from that time. Significant backfill of utility data from pre-project completion years was added, providing a more robust baseline and thus improved calculations for the most recent quarterly report. 2021 YTD Savings: Electricity: 22.63% more efficient than baseline; Gas (Cost): 31.49% less than baseline</p> <p>Rogers County Sheriff's Office: \$310,000 to restore the County Courthouse Depression Era building.</p> <p>2021 Update: This project lacks a baseline for energy use due to vacancy of the building for a decade prior to the renovations. The utility companies servicing the building during the vacant period and years prior do not have data available to establish a baseline. In lieu of a baseline, an estimate of energy savings is now being sought, using comprehensive documentation of the technical specifications on the project upgrades. Progress on this front is expected in 2022.</p> <p>Tulsa County Courthouse: \$1,055,000 to update the HVAC systems throughout the County Courthouse, Annex, and Administration buildings.</p>	Ongoing	2013 -

Emission Reduction Project	Administrative Entity	Description	Status	Implementation Schedule
		<p>2021 Update: Work is needed to examine the method currently used to show project financial savings, as although reductions in energy used are evident, those savings are not currently reflected in calculations of dollars saved. <u>2021 YTD Savings:</u> Chilled Water: data indicate the system is 6.4% more efficient than baseline. Though this number is small, it represents large efficiency gains over previous quarters when it was substantially less efficient than baseline. Repairs were made to the system resulting in better efficiency.; Steam: 31.9% more efficient than baseline; Electricity: 16.4% more efficient than baseline</p>		
Tulsa International Airport Energy Efficiencies	Tulsa Airport Authority (TAA)	<p>Tulsa International Airport (TIA) is a modest facility located approximately five miles northeast of downtown Tulsa. Facility operations for this 1961 era building are handled by the Tulsa Airport Improvement Trust (TAIT). In conjunction with planning for major building renovations, TAIT took the opportunity to turn the Airport into a clean energy and environmentally resourceful model for the Tulsa region. Tulsa's attainment status precludes many funding opportunities intended to encourage voluntary emission reductions projects, such as the Federal Aviation Administration's Voluntary Aviation Low Emissions (VALE) Program, which is only available to areas that are in non-attainment or maintenance of the NAAQS. However, even without funding incentive, TAIT's renovation efforts strategically included unique projects and achievements to reduce ground-level air emissions during the renovations and build clean air efficiencies into the Airport's future.</p> <p>2021 Update: No update</p>	Ongoing	2012 -

Emission Reduction Project	Administrative Entity	Description	Status	Implementation Schedule
Oklahoma Commercial Property Assessed Clean Energy (C-PACE) Programs	INCOG/Tulsa County/ Oklahoma Office of Energy and Environment/ Oklahoma Department of Commerce	<p>Although Oklahoma has technically been a PACE enabled state since 2009, the original law contained a number of barriers to developing viable programs. In May 2019, the Oklahoma state legislature passed a revision to the statute that effectively cleared the way for counties to establish commercial PACE programs throughout the state. Tulsa County became the first to pass a Resolution expressing intent to develop a C-PACE Program. By Memorandum of Understanding with Tulsa County, the Oklahoma Department of Commerce and the Oklahoma Office of Energy and Environment, INCOG has led the design, development, and implementation of a C-PACE program for Tulsa County that can be replicated through enactment by counties state-wide. The Oklahoma C-PACE Program launched in October of 2020, at which point INCOG, as the organization administrating the program, began working with county governments across the state to enable C-PACE financing.</p> <p>2021 Update: Tulsa County was the first to enable the Oklahoma C-PACE program and closed the first C-PACE financed project in April of 2021. Soon after, Cleveland County and Canadian County each enabled the program. A second C-PACE financed project closed in Tulsa County in July, and several more projects are in progress and expected to close before the end of 2021.</p>	Ongoing	2019 -
Selected Wind Facilities (North Central) Project	Public Service Company of Oklahoma	<p>Public Service Company of Oklahoma and Southwestern Electric Power Company (both subsidiaries of American Electric Power) have a planned wind project that will add 1,485 megawatts of electricity to the regional grid from three separate wind-powered facilities located across seven counties in north-central Oklahoma. The project was approved by the Oklahoma Corporation Commission (OCC) in early 2020 and continues to move forward, having also received regulatory approval from Arkansas, Louisiana, and the federal government. PSO will own 45.5%, accessing 675 megawatts to its renewable mix for customers. The facilities were targeted for completion by December 2021.</p> <p>2021 Update: Two of the three wind facilities in this project began commercial operation in 2021. The 199-megawatt Sundance wind farm began operation on April 14, 2021, and the 287-megawatt Maverick facility was announced as in-service on September 10, 2021. The 999-megawatt Traverse wind farm remains under construction and is planned to begin commercial operation in early 2022.</p>	Ongoing	2019 - 2022

Emission Reduction Project	Administrative Entity	Description	Status	Implementation Schedule
Oklahoma Net Metering Rule Changes	Oklahoma Corporation Commission	<p>Oklahoma saw a significant rule change in July 2019 that will help grow Oklahoma's rooftop solar and small wind power generation. Changes to OK 17 O.S., Section 156, and Commission Rules (OAC 165:40-9) referencing distributed generation now finally include an additional provision which requires utilities to compensate net metering customers for any excess energy production. The compensation rate is equal to the utility's avoided energy cost and a production limit is set at 125% of peak load. Additionally, the maximum participation level for net metering customers was increased from 100kW to 300kW. Generation facilities greater than 300kW are covered by separate rules. Oklahoma utility customers were not provided any compensation for excess production prior to this rule change.</p> <p>2021 Update: No update.</p>	Ongoing	2019 -
Nitrogen Oxides Reduction	OGE Energy Corp.	<p>In fulfillment of ongoing commitment to emissions reduction, nitrogen oxides (NOx) are expected to be nearly 75 percent below 2005 levels. OG&E has taken a number of actions to achieve this, including:</p> <ul style="list-style-type: none"> • Added more than 1,000 MW highly efficient combined-cycle natural gas units. These units employ NOx emission reduction technologies, including low-NOx combustion systems and, for the majority, post-combustion Selective Catalytic Reduction (SCR) systems. • Retired 630 MW of older, inefficient gas generation. • Added 460 MW of high-efficiency, quick start turbines that provide critical reliability support for Oklahoma's rapidly growing wind supply as well as help displace higher-emitting generation in the Southwest Power Pool. These natural gas-fired turbines employ state-of-the-art low-NOx combustion systems. • Added 450 MW of OG&E-owned wind generation and 12.5 MW of pioneering solar generation, with Purchase Power Agreements for up to 400 MW of wind power. • Increased investment in energy efficiency and conservation. • Implemented 100% deployment of Smart Meters which has enabled and empowered customers to manage their usage, reducing annual demand on the grid by approximately 150 MW. • Created and implemented the Smart Hours program that incentivizes customer electricity use at "off-peak" times and delays the need for new peaking generation. <p>2021 Update: In fulfillment of the ongoing commitment to emissions reduction, OG&E power plant nitrogen oxide (NOx) emissions are over 75 percent below 2005 levels.</p>	Ongoing	2019 -

Emission Reduction Project	Administrative Entity	Description	Status	Implementation Schedule
Planned Expansion of Renewable Generation	Public Service Company of Oklahoma	<p>In their 2021 Integrated Resource Plan (IRP), the Public Service Company of Oklahoma (PSO) announced significant expansion of renewable resource electricity generation. The IRP's "Preferred Plan" includes additions of 2,100 MW of solar generation and 2,800 MW of wind generation over the next decade. PSO's Five-Year Action Plan also explicitly targets investigation in distributed energy resources to provide capacity relief and increased reliability. PSO's current (2022) installed capacity of 5,955 MW is comprised of 62% gas, 30% wind, and 8% coal generation. Under the IRP Preferred Plan, capacity will be increased to 9,610 MW by 2030 and will be comprised of 48% wind, 30% gas, and 22% solar generation. PSO's 2021 IRP compliments the goal of their parent company, AEP, to reduce CO2 emissions by 80% relative to 2000 levels by 2030, and the goal of achieving net zero emissions by 2050. The Preferred Plan selected by PSO reduces portfolio emissions by 95% by year 2031 relative to the 2000 baseline.</p>	NEW	2021 -

Section 3. Alternative Fuel And Electric Vehicle Projects

Emission Reduction Project	Administrative Entity	Description	Status	Implementation Schedule
Private Alternative Fuel Vehicle (AFV) Loans	State of Oklahoma	<p>Private loan program with a 3% interest rate for the cost of converting private fleets to operate on alternative fuels, for the cost of purchasing an original equipment manufacturer AFV, and for the installation of AFV fueling infrastructure. Maximum repayment six-years.</p> <p>2021 Update: No update</p>	Ongoing	2010 - 2025
Alternative Fuel Vehicle (AFV) Tax Credit	State of Oklahoma	<p>For tax years beginning before January 1, 2015, a one-time income tax credit is available for 50% of the incremental cost of a new AFV or converting a vehicle to operate on an alternative fuel. The state also provides a tax credit for 10% of the total vehicle cost, up to \$1,500, if the incremental cost of a new AFV cannot be determined or when an AFV is resold, as long as a tax credit has not been previously taken on the vehicle. Equipment used for conversions must be new. The alternative fuels eligible for the credit are compressed natural gas, liquefied natural gas, hydrogen, and liquefied petroleum gas (propane). Tax credits may be carried forward for up to five years. (68 O.S. §2357.22) Effective January 1, 2020, hydrogen fuel cell vehicles are no longer eligible for the tax credit. Oklahoma extended tax incentives for CNG Vehicles and other "qualified clean-burning motor vehicle fuel property" which includes LNG and propane. There will be an annual limit of 20 million dollars. Tax credits are now extended from January 1, 2020 to December 31, 2027. Instead of 45% credit the credit amounts are as follows:</p> <ul style="list-style-type: none"> a. \$5,500 – vehicles up to or below 6,000 lbs., b. \$9,000 – vehicles between 6,001 lbs. to 10,000 lbs., c. \$26,000 – vehicles of 10,001 lbs., but not in excess of 26,500 lbs., d. \$50,000 – vehicles in excess of 26,501 lbs. <p>2021 Update: No update</p>	Ongoing	1990 -

Emission Reduction Project	Administrative Entity	Description	Status	Implementation Schedule
Alternative Fueling Infrastructure Tax Credit	State of Oklahoma	<p>For tax years beginning before January 1, 2015, a tax credit is available for up to 75% of the cost of alternative fueling infrastructure. Eligible alternative fuels include compressed natural gas (CNG), liquefied natural gas, liquefied petroleum gas (propane), hydrogen, and electricity. The infrastructure must be new. A tax credit is also available for up to 50% of the cost of installing a residential CNG fueling system, for up to \$2,500. The tax credit may be carried forward for up to five years. (68 O.S. §2357.22) In 2019, Oklahoma extended tax incentives for CNG Infrastructure with several modifications. Tax credits are extended now from January 1, 2020 to December 31, 2027. The per-location credit was changed from 75% to 45% of the cost of the qualified clean-burning motor vehicle fuel property (CNG, LNG, propane), with a limit of 20 million dollars. Hydrogen infrastructure is no longer eligible for the tax credit.</p> <p>2021 Update: No update</p>	Ongoing	1990 - 2027
Alternative Fuels Incentive	Oklahoma Natural Gas Company	<p>ONG offers rebates of \$2,000 for the purchase of a dedicated or bi-fueled vehicle and \$3,000 for the purchase of a residential home-fueling system. The program is expected to continue, with no set cut-off or termination date. https://www.oklahomanaturalgas.com/save-money/rebates-and-incentives/natural-gas-vehicle-program</p> <p>2021 Update: Rebates for both types of vehicles and home refueling appliances have been increased for their maximum amounts under this program.</p>	Ongoing	2012 -
Residential EVSE Rebate	Public Service Company of Oklahoma	<p>PSO residential customers are eligible for rebates on various energy efficiency upgrades. One eligible rebate includes an ENERGY STAR Certified Electric Vehicle (EV) Level 2 Charger for \$200-\$250. https://powerforwardwithpsoc.com/rebates/</p> <p>2021 Update: The application window for 2021 closed on November 30, 2021 and new rebate offerings will be available starting January 2022.</p>	Ongoing	2019 -
Fleet Conversion	Metropolitan Tulsa Transit Authority (MTTA)	<p>MTTA maintains a fleet of approximately 100 vehicles. These include full-size, fixed-route passenger and smaller lift program buses. In 2011, MTTA made the commitment to move toward a 100% CNG fleet and began a concentrated effort to locate and secure funding to do so. In 2012, they completed a \$1.7 million-dollar CNG filling station on the property. In 2019, MTTA made strategic planning efforts to additionally pursue zero emission electric buses and charging infrastructure. To this end, MTTA was awarded a \$2,991,000 grant through the</p>	Ongoing	2011 -

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		<p>Federal Transit Authority's FY19 Low No Bus Grant Program. Funds provided for replacement of four 35' and 40' model year 2005 diesel buses, which reached the end of their usefulness in 2017, with four Proterra Catalyze 40-ft. E2 MAX electric buses and four chargers for overnight depot charging. MTTA now only purchases CNG or Electric buses. Expanding the electric fleet will continue to occur as funding & grants become available.</p> <p>2021 Update: The four electric buses were unveiled by Tulsa Transit on August 3rd and began service in mid-September.</p>		
CNG Fleet Conversion	City of Owasso	<p>The City of Owasso continues to incorporate CNG vehicles into their city fleet. By 2011, they had opened their first public-private CNG station in their downtown area and are now well on the way to converting the fleet. The City of Owasso remains committed to CNG and purchased their first fully dedicated CNG Refuse Truck in 2013. In 2014, the City's Public Works Department added three dedicated CNG Ford Pickup Trucks to their fleet (one F250 and two F350s). As of 2019, the City of Owasso has one heavy-duty CNG truck and 13 light-duty vehicles and continues to maintain their downtown Owasso public CNG fueling station.</p> <p>2021 Update: No update.</p>	Ongoing	2010 -
CNG Fleet Conversion	Tulsa Public Schools	<p>Tulsa Public Schools (TPS) plans to convert 100% of their bus and car fleet to CNG by 2020. TPS fully upgraded a compressor station at the fleet's McBirney bus lot in 2014 and operated nearly 150 CNG school buses.</p> <p>2021 Update: TPS currently operates 73 CNG school buses and 3 CNG vans.</p>	Ongoing	1988 -
Idle Reduction Program	Tulsa Public Schools	<p>Since 2014, TPS has implemented a fleet Idle Reduction Program throughout their 179-vehicle fleet. The 2019-2020 reporting year identified 10 min/day, 173 days/year of reduced idling per vehicle, eliminating an estimated 8,566 gallons of burned fuel and its equivalent emissions.</p> <p>2021 Update: TPS' school buses are equipped with factory idle reduction devices that automatically shut off idling within 5 minutes.</p>	Ongoing	2014 -
City of Tulsa Strategic Mobility Plan	City of Tulsa Urban Mobility Innovation	<p>The City of Tulsa's Urban Mobility Innovation Team, in collaboration with INCOG, is leading the development of a Mobility Innovation Strategy to lay the groundwork for new mobility options to thrive in the City. The strategy will focus on providing an actionable path forward for state and local government,</p>	Ongoing	2018 -

Emission Reduction Project	Administrative Entity	Description	Status	Implementation Schedule
	Team , City of Tulsa/ INCOG	<p>universities, venture capital, manufacturers, and related industries to collaborate on developing and beta testing solutions that lead to increased access to jobs, education, healthy food, and healthcare services. The strategy will also focus on a diagnosis of the problems of access, evaluation of current and developing technology, relationship building between public and private sector, and stimulation of testing and measurement of new mobility solutions. The project consultant was selected and a 12-month date research and analysis process is underway.</p> <p>2021 Update: This project is extended and remains underway.</p>		
Clean Diesel / DERA Program Funding	DEQ	<p>Diesel Emissions Reduction Act (DERA) funds are used to remove harmful air pollutants from the air by replacing old diesel buses that excessively pollute with new diesel buses and alternative fuels buses.</p> <p>2021 Update for Tulsa Area Projects: Mannford Public School successfully replaced a 1996 diesel school bus with a new 2022 bus under the DERA program. They received a reimbursement of \$20,482 to complete this project which was completed August 24, 2021. Claremore Public Schools is operating under the same program and currently working to replace one 1999 diesel school bus. Successful completion of this project will provide Claremore with up to \$21,955.25 in reimbursement.</p>	Ongoing	2017 -

Section 4. Transportation System Strategies And Projects

Emission Reduction Project	Administrative Entity	Description	Status	Implementation Schedule
Bus Rapid Transit Expansion	City of Tulsa/MTTA/ INCOG	<p>A second Bus Rapid Transit (BRT) line is underway and will be an east-west route across the City of Tulsa, complementing the north-south Peoria Avenue AERO. Tulsa voters just passed partial funding (\$5.3M) in the Improve Our Tulsa 2 sales tax package on November 12th, 2019. The route will begin in downtown Tulsa and end at East Gate Metroplex, using a combination of 11th and 21st streets (Historic Route 66). The two Bus Rapid Transit lines together will ultimately reduce average trip time by 15 minutes (25%) and compliment a host of 2019 system redesign improvements to improve quality of life, mobility, and air quality for the citizens of Tulsa. In 2020, system planning began between INCOG, the Tulsa Planning Office, MTTA, and the City of Tulsa Mayor's Office, and a steering committee of community stakeholders was established to provide guidance on route alignment and BRT station locations.</p> <p>2021 Update: A draft detailing BRT stops, and the new 11th Street route was published November 2021 and is open for public review and comment.</p>	Ongoing	2019 - 2024
Tulsa Bike Share System	INCOG/Tulsa Tough/Tulsa Bike Share This Machine	<p>Tulsa's Bike Share System, This Machine, is a 501c3 missioned to transform Tulsa by providing a high quality, convenient, and affordable bicycle transit system connecting people to more places where they live, work, and play in the region. Since the Tulsa Regional Comprehensive GO Plan was finalized in 2015, progress on an affordable bicycle transit system has continued. In 2020, This Machine replaced its manual bike-sharing fleet with a new electric bike system, optimizing the system's use even through the region's extreme summer temperatures.</p> <p>2021 Update: After an entire year of operations under the new electric bike system and service area expansion, This Machine Tulsa Bike Share experienced a 300% increase in ridership. This Machine's service area has expanded to include 8 square miles of Tulsa across Downtown, Midtown, Kendall Whittier, and Brookside neighborhoods, with the E-Bike network now comprised of 50 stations and 200 bikes. An additional 13 stations are planned for the upcoming year. Stations are heavily concentrated near bike lanes, trails, and within Tulsa Parks and Tulsa RiverParks areas. (https://thismachinetulsa.com.)</p>	Ongoing	2016 -

Emission Reduction Project	Administrative Entity	Description	Status	Implementation Schedule
Transportation Management System Considerations	INCOG	<p>The Tulsa Transportation Management Area will research, analyze, select, and implement a variety of emission reducing Transportation System Management (TSM) projects. These may include expressway on-ramp congestion traffic flow system projects, intersection improvement projects, signal improvements, signal coordination efforts, Intelligent Transportation System (ITS) enhancements, and more. TSM improves traffic flow and reduces congestion, thereby reducing emissions. In 2019, INCOG began tracking pedestrians, bikes, and all alternative modes of transportation in the region's general planning model.</p> <p>2021 Update: INCOG acquired additional traffic counting hardware, including one permanent counter to track pedestrians and cyclists simultaneously, which is now installed on the River Parks Trails.</p>	Ongoing	2013 -
Transportation Alternative Program	INCOG	<p>Administered by INCOG, this program helps to reduce emissions and improve air quality in the Tulsa Urbanized Area by funding diverse types of on and off-road bicycle and pedestrian projects such as recreational trails, safe routes to school programs, and environmental mitigation relating to stormwater and habitat connectivity. INCOG administered approximately \$2.7 million for the FFY 2017-2018 Urbanized Area Transportation Alternatives Program (TAP), allocated through the FAST Act. In 2020, INCOG issued a request for applications with awards approximating \$3.5 million for FFY 2019-2021 Transportation Alternative projects.</p> <p>2021 Update: INCOG most recently selected projects in Broken Arrow, Coweta, City of Tulsa, and Tulsa County for award.</p>	Ongoing	2014 -
Federal Transit Administration (FTA) Bus & Bus Facilities Infrastructure Investment Program	ODOT	<p>On September 25, 2018, FTA announced approximately \$366.2 million in project selections to improve the safety and reliability of America's bus systems and enhance mobility for transit riders across the country. A total of 107 projects in 50 states and territories will receive funding from FTA's Buses and Bus Facilities Infrastructure Investment Program. Of the total (Oklahoma: \$4,281,796), the Oklahoma Department of Transportation (ODOT) will receive \$3,874,200 to purchase replacement and expansion vehicles throughout the state. The new vehicles will help replace existing vehicles that have exceeded their useful life and help expand service to rural and tribal areas in 51 of Oklahoma's 77 counties. The remainder of the funds, \$407,596, will be used by ODOT to rehabilitate bus facilities throughout the state. The project will</p>	Ongoing	2018 -

Emission Reduction Project	Administrative Entity	Description	Status	Implementation Schedule
		<p>improve transit accessibility in rural areas. The Bus & Bus Facilities Infrastructure Investment Program (49 U.S.C. 5339) makes federal resources available to states and direct recipients to replace, rehabilitate, and purchase buses and related equipment and to construct bus-related facilities including technological changes or innovations to modify low or no emission vehicles or facilities. Funding is provided through formula allocations and competitive grants. A sub-program, the Low- or No-Emission Vehicle Program, provides competitive grants for bus and bus facility projects that support low and zero-emission vehicles.</p> <p>2021 Update: No update.</p>		
Electric Scooters	City of Tulsa	<p>City of Tulsa's ordinance established rules for the many new Lime and Bird electric scooters that have been introduced all over the City since summer 2018.</p> <p>2021 Update: No update.</p>	Ongoing	2018 -
Gilcrease Expressway Extension Project	ODOT/ Turnpike Authority/ FHWA/ City of Tulsa	<p>Gilcrease Expansion and System Completion -- October 22, 2019 saw a groundbreaking for a significant transportation project to improve the region's transportation system. The five-mile Gilcrease Expressway extension will finally connect two major Oklahoma roadways I-44 and US 412 and complete a Tulsa Expressway Master Plan project identified as needed more than five decades ago. The \$330 million dollar project is possible through an innovative and creative public-private partnership involving INCOG, the City of Tulsa, Tulsa County, ODOT and the OK Turnpike Authority, and will include five miles of protected trails connecting and expanding the Tulsa Area Trails System. This critical project for economic development in the western portion of the metro area is equally important to traffic mitigation efforts and continued improvements in regional air quality. The project broke ground late October 2019 and is scheduled for Summer 2023 completion.</p> <p>2021 Update: Anticipated project completion is mid-2022.</p>	Ongoing	2019 - 2023
Bike Racks	Tulsa Public Schools	<p>Using Congestion Mitigation and Air Quality (CMAQ) funding, INCOG approved projects at multiple Tulsa Public Schools locations for bike rack installation.</p>	NEW	2021 -