

Ozone Advance Emission Reduction Projects - Oklahoma City MSA

Progress Report 6-1-2020 through 5-31-2021

Emission Reduction Projects	Entity	Status	Description	Schedule/ Completion Dates
Bike Month Activities	ACOG	Ongoing	<p>Bike Month is established each May to promote cycling activities. Bike to Work Day is an annual event designed to encourage people to use their bikes as a means of transportation. Since its inception, numerous communities have participated in the various bicycle group rides and events, including Bike to School, Bike to Work, and Bike to Church.</p> <p>2021 Update: Due to COVID-19 restrictions, Bike to Work Day is being pushed back to September 22, to coincide with Car Free Day. Bike Month will still be celebrated in May, primarily through Social Media engagement and the promotion of activities that don't require gatherings.</p>	2005 - Continuous
Bicycle Friendly Communities	ACOG, City of Norman	Ongoing	The League of American Bicyclists' Bicycle Friendly Community program provides a roadmap to improving conditions for bicycling and guidance to help make a community's vision for a better, bike-able environment a reality. The City of Norman is the only ACOG member community to be awarded this, and they are at the Bronze level of recognition.	Ongoing
Bicycle Friendly Business	ACOG, Allegiance Credit Union, Trek Bicycle Oklahoma City	Ongoing	Through the League of American Bicyclists' Bicycle Friendly Business program, employers are recognized for their efforts to encourage a more welcoming atmosphere for bicycling employees, customers, and the community. For businesses in the ACOG area, Allegiance Credit Union in Oklahoma City and Trek Bicycle Oklahoma City have been awarded the Bronze and Platinum levels of recognition respectively for bicycle friendliness.	Ongoing
Bicycle Friendly Universities	ACOG, University of Central Oklahoma, University of Oklahoma	Ongoing	The League of American Bicyclists' Bicycle Friendly University program recognizes institutions of higher education for promoting and providing a more bike-able campus for students, staff, and visitors. Universities in the ACOG area that have been recognized include The University of Oklahoma, which has the Silver award, and The University of Central Oklahoma, which has the Bronze award.	Ongoing

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Air Quality Small Grant Program	ACOG	Ongoing	<p>Cities, counties, transit agencies, and tribal governments, along with public schools, public school districts, and public universities are eligible to receive Air Quality Small Grant funds for small infrastructure projects and congestion relief efforts that assist in the reduction of single-occupancy trips and/or ozone-forming emissions. Since the revival of the Air Quality Small Grant Program in 2018, three projects have been successfully completed. These projects include the expansion of the Spokies bike share fleet, the installation of new bus shelters, and the installation of 50 bicycle racks. Two more projects are currently in progress; The City of Edmond and the City of Oklahoma City are both working on the installation of protected bicycle lanes in their cities as a way to promote multimodal, non-vehicular travel.</p> <p>2021 Update: ACOG is preparing to issue a new funding RFP in fall 2021.</p>	2018 - Continuous
Central Oklahoma Urban Tree Canopy Project	ACOG, Oklahoma City Community Foundation, Oklahoma Forestry Services	Ongoing	<p>ACOG partnered with Oklahoma Forestry, Oklahoma City Community Foundation, and Davey Resource Group to conduct a regional tree canopy assessment in 2019. The project included collecting and conducting an inventory of vital tree canopy data in the Oklahoma City metropolitan area. Resulting end data includes a database of tree canopy coverage and land cover summary, prioritized tree planting plan, and ecosystem service benefits analysis, including an analysis of the benefits of trees on air quality. Data collected during the urban tree canopy study will be integrated into the metropolitan planning process, including advanced regional air quality analysis and planning. ACOG continues to maintain and analyze the resulting data and make it available to local municipalities.</p> <p>2021 Update: ACOG staff and stakeholders are collecting data on impact of an October 2020 winter storm on the tree canopy and plan to develop updates to mapping and public outreach materials to reflect damage and considerations for replanting.</p>	Continuous
National Drive Electric Week OKC	ACOG	Ongoing	<p>2021 Update: In September 2020, an EV Poker event was held in Edmond, OK. At five charging station locations participants drew a card and the best five card hands won prizes. The goal of the event was to highlight new charging stations in the Edmond community and engage EV drivers.</p>	Ongoing

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Ozone Alert Day Notifications	ACOG	Ongoing	Email notifications of Ozone Alert Day declarations in Central Oklahoma are serviced to elected officials, policymakers, and members of the public via email. Linked content includes information on public transit throughout Central Oklahoma, information on the health impacts of ground-level ozone, and a link to the Oklahoma Department of Transportation online camera-based traffic monitoring system. 2021 Update: In 2020, one Ozone Alert Day was declared; notifications were sent to a total of 647 recipients with an average open rate of 26.1% and an average click-through rate of 1.3 percent.	Continuous
Public Alternative Fuel Stations	ACOG	Ongoing	Within the state, there are currently 97 compressed natural gas (CNG) stations, 31 propane fueling stations, 274 level 2 and DC Fast Charging electric vehicle (EV) stations, and 72 ethanol (E85) stations.	Continuous
Social Media Public Outreach	ACOG	Ongoing	Central Oklahoma's MPO utilizes Facebook and Twitter to keep members of the public updated on air quality and air quality-related issues throughout the region, state, country, and world.	2009 - Continuous
Transportation Alternatives Program	ACOG	Ongoing	In 2014, approximately \$2.8 million was administered to bicycle and pedestrian infrastructure projects throughout the Central Oklahoma region as part of MAP-21 through TAP. In 2018, approximately \$8.4 million was administered to bicycle and pedestrian infrastructure projects throughout the Central Oklahoma region as part of the STBG-UZA (TAP set aside) through the FAST Act. Eligible projects included on-road and off-road trails, safe routes for non-drivers, rails-to-trails conversions, and Safe Routes to School projects. 2021 Update: Another call for projects is planned for 2022.	April 2014 - Continuous
Transportation Systems Management (TSM) Projects	ACOG	Ongoing	Emission reduction strategies that may include: intersection improvement projects, signal improvements, signal coordination efforts, Intelligent Transportation System (ITS) enhancements, and bicycle and pedestrian facilities. These projects reduce transportation-related emissions by improving traffic flow and reducing congestion throughout the region.	Continuous

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Open Streets OKC	ACOG, Oklahoma City-County Health Department	Ongoing	The Open Streets event promotes active transportation and the relationship between transportation mode choice and public health, and has drawn around 65,000 total attendees from across the region. Businesses and organizations participate all along the route with fun and active activities for families. The event earned significant media coverage and calls for more walkable development, biking infrastructure, and accessible, quality transit throughout Oklahoma City. The event is planned to now occur twice a year beginning in 2015.	Ongoing
Oklahoma Electric Vehicle Coalition (OEVC)	ACOG, Utilities, Local Government, Vehicle Manufacturers, Charging Station Providers	Ongoing	OEVC meetings are held every other month throughout the year. The coalition has worked to identify objectives, goals, and strategies around increasing the amount 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.	2016- Ongoing
Clean Fuel use	Central Oklahoma Clean Cities	Ongoing	<p>The Central Oklahoma Clean Cities 2019 annual survey of stakeholder fleets showed a reduction of 13,628,317 gallons of gas equivalent (GGEs) of petroleum fuel used. The survey indicated that 97 percent of the recorded petroleum reduction can be attributed to alternative fuel vehicles. The majority of the remaining reduction can be attributed to idle reduction fleet policies and technologies.</p> <p>2021 Update: Central Oklahoma stakeholder fleets accounted for 14,301 on-road vehicles operating on alternative fuels. Deployment of compressed natural gas (CNG) vehicles and fueling stations resulted in 87 percent of petroleum fuel reduction, followed by propane (11 percent), and E85 ethanol-blend (1.6 percent). This fuel use and additional alternative fuel off-road equipment use, idle reduction, and vehicle miles traveled reduction resulted in 19,217 tons of greenhouse gas reductions, 231,889 pounds of NOx reductions and 3,948 pounds of VOC reductions.</p>	1996 - Continuous

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Alternative Transp. Promotion	City of Edmond	Ongoing	In 2018, the City began promoting all forms of alternative transportation through an initiative called "Edmond Shift." This initiative will use social media and other City marketing tools to bring more awareness and participation to the community. Edmond Shift will be a policy that encourages, promotes, plans, and creates active transportation alternatives to improve how people can conveniently and safely walk, bike, ride the bus, share a car, and drive throughout Edmond. The Edmond Shift logo will begin to appear on a variety of projects that make it easier for people to use all the transportation options available in the City.	2018 - Continuous

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Bicycle Master Plan	City of Edmond	Ongoing	<p>The Bicycle Master Plan (2012) was updated in 2018 to include more on-street wayfinding routes and refinements to the proposed trail components. The updated plan also consolidates some facility types, removes corridors that are infeasible, and presents new opportunities.</p> <p>Rt. 66 Trail on the north side of Arcadia Lake (a segment of the planned 19-mile trail around Arcadia Lake) is currently under construction. This segment between the regional Edmond Park and the Arcadia Lake Project Office, along Rt. 66, will be completed in 2020 (1.3 miles). An additional segment will extend the trail to the Arcadia Lake Dam on the east side of Arcadia Lake (.46 miles). The next phase of this trail is designed to extend the trail to 66 Park on Post Rd.</p> <p>Creekbend Trail, a planned 14 ft. wide segment, is under design. It will extend the Arcadia Lake Trail network further west into the urbanized area at Coltrane Rd. (1.16 miles).</p> <p>Future arterial widenings are also planned to feature additional 10 ft. multi-use side paths or bike lanes. Two notables are projects planned for Covell Rd. (totaling 4.3 miles) and 33rd St (.93 miles).</p> <p>In 2020 the City was awarded a reimbursable grant through ACOG's Air Quality Small Grant program in the amount of \$108,500 to create protected by lanes along Ayers St. This project encourages the use of bicycles from apartments and student residents in the area that attend the university. Ayers was once a through-street that traversed through the University of Central Oklahoma (UCO) campus. Since the street has been closed through campus, the street no longer warrants a four-lane road. It will make residents and students feel safer about riding their bicycles, and will also coincide with Citylink bus routes, which all have bicycle racks mounted on the fronts of the buses. In addition to the 1,895 beds for on-campus housing, there are 662 residential units within a 1/4 mile of the project on the west, 52% of that in multifamily units. To the east there are 816 residential units within a 1/4 mile of the project, 81% of that in multifamily units.</p> <p>A lane reapportionment from four to two lanes, while adding two buffered bike lanes, will take place. This project promotes a reduction in Nitrogen Oxides and will improve the transportation system for multimodal options. Currently, there are existing shared lane markings on this corridor. This will also enhance the safety and connectivity between the university and the downtown business district for multimodal travel on the west, and it will enhance connectivity between the university and student housing and businesses closer to Bryant Ave on the east side (.83 miles).</p>	2020-Ongoing

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			<p>2021 Update: Creekbend Trail, a planned 14 ft. wide segment, is under design. It will extend the Arcadia Lake Trail network further west into the urbanized area at Coltrane Rd. (1.16 miles). Future arterial widenings are also planned to feature additional 10 ft multi-use side paths or bike lanes. Two notables are projects planned for Covell Rd. (totaling 4.3 miles) and 33rd St (.93 miles). On May 10, 2021 the City passed the first E-BIKE ordinance, which enables electric-assisted bicycles, whether they are Class 1, Class 2, or Class 3 to be classified as bicycles. This enabling ordinance will allow E-BIKES to be used on the City's trail system, whether in the Parks or other trails systems. This promotes bicycle usage in the City of Edmond, contributing to alternative modes of travel.</p>	

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Citylink Transit	City of Edmond	Ongoing	The City of Edmond has had the Citylink Transit System in place since 2009. It offers citizens an alternative form of transportation to and from work, shopping, medical visits and the University of Central Oklahoma (UCO). There are four fixed routes within Edmond city limits and one commuter route to the OKC bus terminal, the OU medical facilities, the VA hospital, and the OKC Social Security Office.	Continuous
Edmond Fleet	City of Edmond	Ongoing	<p>Today, GPS technology allows Solid Waste routing to be as efficient as possible and allows for monitoring of the city's idle reduction initiatives throughout the entire fleet. The Fleet Manager receives automatic notifications through software triggers on excessive idling and can respond quickly via phone or email. This program is ongoing and will continue to be monitored.</p> <p>Other critical fleet management operations that the City pursues to make the fleet more sustainable are right-sizing vehicles for the duties that will be required, regular maintenance, pursuit of clean diesel technology, and efficient solid waste routing for the waste management service. The City now reviews solid waste routing yearly and redesigns routes in July every year, as needed. Annual Solid Waste Routing Reviews allow for more efficient routing. These activities lower environmental impacts and reduce the cost of operations, which directly benefit the citizens of Edmond.</p>	Ongoing

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Electric Vehicle Initiative	City of Edmond	Ongoing	<p>In 2018 Edmond Electric bought an EV for the City (Electric/Public Works) use. In 2019, Water Resources purchased two new EV vehicles for their fleet. This department also installed three EV charging stations at the new Water Resource and Recovery Facility. At the new Water Treatment Plant, there are also plans to install two (2) dual chargers, and it will easily be expandable to two (2) more EV spaces in the future. In 2019, the City Council Strategic Plan outlined current and future goals "Develop policies and plans to take advantage of the growing market for electric vehicles, including a program to promote home charging and adding vehicles to the city fleet." For the private sector, three charging stations have been installed at the new hotel/conference center at I-35 and Covell Rd through a partnership with Edmond Electric. The City is hoping to achieve similar arrangements with other private partners moving forward. In 2019, the City of Edmond partnered with the University of Central Oklahoma (UCO), to receive \$50,550 to install ten (10) public and workplace charging stations for electric vehicles. These types of stations are capable of charging two electric vehicles simultaneously and will initially be free to the public. These stations will also be powered by 100 percent wind energy. Two grants were received in coordination with the Association of Central Oklahoma Governments (ACOG) Clean Air Public Fleet Grant (\$25,138.60), and the Oklahoma DEQ 2019 Charge OK Grant Program (\$25,367.00). The grants will also pay for the bollard concrete mounting kits, a one-year prepaid commercial cloud plan to remotely monitor the stations (including avoided emissions), an on-site validation per the vendor's requirements, and a five-year prepaid Assurance Plan, which provides high-quality maintenance and a warranty period by the vendor.</p> <p>2021 update: Six EV stations were installed. The locations include Mitch Park, the City First Administration Building near downtown Edmond, the Service-Blake Soccer Complex, the City's new Tennis Center, and two locations on UCO's campus. One UCO location is in Student Housing parking on the east side of campus, and the other is in Visitor parking on the west side of campus. For the six EV Stations, "No Parking" signs were installed, and personalized decals inserted into the stations. They have all been made ADA accessible as well. All stations have been activated. At the new Water Treatment Plant there are also plans to install two dual charging stations, and it will easily be expandable to two more EV spaces in the future. Edmond Electric has also purchased a Level3 Station, allowing faster charging, but the location has not yet been determined. City staff have met and discussed 5 new potential locations for EV Stations. City staff expect to apply for more grants for the next round of available funds.</p>	Ongoing

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EPA Green Power Community	City of Edmond	Ongoing	Over a decade ago Edmond Electric was among the first utilities in the state to offer an innovative, green-power program designed to allow customers to purchase electricity from a pure, non-polluting wind resource. Edmond Electric purchases its power from the Oklahoma Municipal Power Authority (OMPA). The program is known as Pure and Simple. Geothermal energy is also utilized to save energy on many city facilities and partners, including the YMCA facility at Mitch Park, the new Water Resource and Recovery Facility, the Crosstimbers Municipal Complex, as well as the 70,000 square foot Public Safety Center. These forms of energy also reduce the use of power generated from point sources of emissions.	Ongoing
Intelligent Transp. Systems (ITS)	City of Edmond	Ongoing	Intelligent Transportation Systems (ITS) have been installed at signalized intersections. ITS should facilitate the management of traffic during congested periods, allowing better mobility and resulting in less idle time. Phase I of Edmond ITS is complete. It includes 21 intersections along Edmond Rd./2nd St. from Santa Fe to Saints Blvd. Intersections are hard wired via fiber optics. There is also a wireless component that connects four water towers, which will also be hard wired with fiber optics. The intersection controllers are using the latest NTCIP communications protocol and are connected to the Traffic Management Center. The intersections have a battery backup system, emergency pre-emption system, CCTVs, redundant vehicle detection systems, LED signal indications, flashing yellow left turn arrows, and audible pedestrian systems. 2021 update: In 2020 Phase II of the Edmond ITS is nearing completion. Phase II includes 22 signalized intersections and 3 school zone locations. The intersection controllers use the latest NTCIP communications protocol and are connected to the Traffic Management Center. A total of 59,512 feet of fiber optic cable was installed. 148 audible pedestrian push buttons and pedestrian countdown heads were installed. Infra-red detection system, battery backup system, CCTV cameras, and over 195,221 feet of signal wiring has been installed. The project is substantially complete except for the LEEDAR detection system.	Ongoing

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Urban Forestry	City of Edmond	Ongoing	<p>Urban Forestry, a division of Community Image, administers multiple programs that support and enhance Urban Tree Canopy in Edmond. Trees remove pollutants such as ozone from the air, reduce energy consumption and emissions, and provide many other environmental services. New trees are planted each year on public property around City facilities, along rights-of-way, and on park land and detention areas through special Urban Forestry projects, Arbor Week, and the volunteer program. In addition, Urban Forestry plants trees along rights-of-way in residential areas through the Foster-A-Tree program. Urban Forestry hosts periodic tree distributions and works with Edmond Electric in facilitating their 'Energy Saving Trees' program, also partnering with the Arbor Day Foundation. Through this program, customers use an online module to determine the most appropriate species available and the best location to plant the tree in order to maximize energy savings. Urban Forestry also administers the City's landscape requirements found within the Title 22 Zoning Ordinance, and actively fosters public engagement and education through programs such as the Edmond Tree Awards, Arbor Week, the volunteer program, Edmond Tree Mail, and social media.</p> <p>2021 Update: Title 21 was updated to include new design requirements for tree preservation. Lots smaller than 5 acres are exempt from the tree preservation requirements. Developers are required to submit a Forest Area Plan. Additionally, a tree planting plan must be prepared for sites not meeting tree preservation requirements. These plans must be submitted at the time of the preliminary plat. A minimum of 20 percent of the total area being platted must be planned as Forest Area to be used for the preservation and/or planting of trees.</p>	Continuous
Ozone Alert Day Mowing Deferral	City of Mustang	Ongoing	The City of Mustang has an internal policy for City mowing crews to not mow on Ozone Alert Days.	Continuous

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New Home Energy Efficiency Pilot	City of Norman	New	Waives a percentage of the City's building permit fees based on the nationally recognized Home Energy Rating System (HERS)/Energy Rating Index (ERI) for energy efficiency. The lower the HERS score, the more energy efficient the house and the bigger the discount on the permit. Newly constructed single-family homes built to code in Norman average a HERS rating of 100. A home meeting the minimum threshold to cash in on the incentive (HERS rating of 65) would be 35 percent more efficient. Under the pilot program, which began on July 1, 2019, homes that achieve a HERS rating of 55 could be exempt from the City's building permit fee altogether.	Continuous
CNG and Alternative Fuel Fleet	City of Oklahoma City	Ongoing	The City of Oklahoma City (Public Works, Utilities, General Services and Airports) operates a fleet of 164 light and heavy duty CNG vehicles, 5 electric cars, and 4 hybrid vehicles. EMBARK transit agency presently has 17 40-foot CNG buses, one 40-foot hybrid bus, and one 35-foot hybrid bus. 2021 Update: The first all-electric transit bus serving Central Oklahoma was deployed in April 2021	Continuous
Oklahoma City Streetcar	City of Oklahoma City	Ongoing	Approved by voters in December 2009, the modern streetcar is a \$131 million project as part of a \$777 million debt-free capital improvement package. The streetcar includes seven cars, each holding 100 people, which travel a 4.6 mile on-street rail system with 22 stops throughout downtown Oklahoma City. Service launched in December 2018.	2009 - Service Ongoing
adaptokc	City of Oklahoma City	Ongoing	The City has been developing a community-wide sustainability plan that focuses on several specific areas: Energy Productivity, Air Quality, Natural and Built Environment, and Waste Reduction. Recommendations and proposed actions, policies, and programs serve as an amendment to the City's comprehensive plan. Plan development included subject matter expert engagement and research and data-driven conclusions.	2016 - Ongoing
2017 Temporary Sales Tax Extension	City of Oklahoma City	Ongoing	In September 2017, Oklahoma City voters approved a 27-month one penny sales tax extension projected to generate \$240 million for transportation projects. This proposal was specifically a response to the City's needs for improved street conditions based on resident feedback. The debt-free projects to be funded through this extension include \$168 million for street resurfacing, \$24 million for streetscapes, \$24 million for sidewalks, \$12 million for trails, and \$12 million for bicycle infrastructure.	2017 - Ongoing

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			2021 update: As of April, a total of 80 projects has been completed, valued at more than \$74.4 million. An additional 104 projects valued at \$120 million are either currently planned or underway.	
Residential Curbside Recycling Expansion	City of Oklahoma City	Ongoing	Beginning in FY 19, the City's curbside recycling program expanded service to 6,000 new customers and shifted fully to 195,000 96-gallon polycarts from 18-gallon containers. Recyclable goods drop-off centers were added in rural areas without curbside service. This more than doubled the reported "percentage of trash recycled" from 2.94% in FY 18 to 6.37% in FY 19, thereby increasing the amount of avoided landfill emissions. Both the public and private fleets of waste haulers are CNG-fueled.	2019 - Ongoing
Spokies Bikeshare Program Expansion	EMBARK	Ongoing	Launched in 2012, the Spokies bikeshare provides a transportation alternative around downtown Oklahoma City through bikeshare stations placed strategically throughout the Central Business Districts and abutting downtown commercial and residential districts. In June 2019, Spokies introduced 25 Spokies Dash smart bikes, a new dockless bikeshare feature.	2012 - Ongoing
2017 General Obligation Bond	City of Oklahoma City	Ongoing	On Sept. 12, 2017, Oklahoma City voters approved 13 bond propositions as part of the Better Streets, Safer City program. Of the \$967 million bond package, there will be investments of \$6.325 million for bicycle infrastructure, \$8.435 million for trails, and \$18.745 million for sidewalks over a 10-year period.	2017 - Ongoing
Sunday Bus Service	EMBARK	Complete	In FY 19, Oklahoma City's transit service expanded to Sunday and establishing seven day a week service. Sunday service was added commensurate with Saturday service, seeing 16 routes with one-hour frequency between 6:30 a.m. and 6:30 p.m. The year-to-date (YTD) figures for Sunday service cumulatively totaled more than 103,000 riders, based on the year beginning on February 1, 2019.	2019 - Ongoing

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City of Oklahoma City Bicycle and Pedestrian TIP Projects, Federal Fiscal Year (FFY) 20 – FFY 23	City of Oklahoma City	Planned	The City of Oklahoma City is routing a greater share of transportation dollars towards alternate modes of transportation. In FFY 2020, Oklahoma City will spend approximately \$11.5 million in combined STBG-UZA funds and local match dollars to design and construct pedestrian facilities. In FFY 2021, Oklahoma City will spend approximately \$3.1 million in combined STBG-UZA funds and local match dollars on a major bicycle-pedestrian project. In FFY 2022, Oklahoma City will spend a minimum of \$2.7 million in combined STBG-UZA funds and local match dollars on bicycle-pedestrian projects.	2019 - Ongoing
City of Oklahoma City Transp. Alternatives Program (TAP) Projects	City of Oklahoma City	Planned	In FFY 2020, Oklahoma City will spend approximately \$8.3 million in combined TAP funds and local match on a range of bicycle and pedestrian projects, including a recreational trail along a segment of the Deep Fork River, new sidewalks, amenities along two existing recreational trails, a road diet on a major downtown avenue, and a bicycle-pedestrian safety awareness campaign.	2019 - Ongoing
MAPS 3 Scissortail Park	City of Oklahoma City	Ongoing	With funding from the third iteration of the Metropolitan Area Projects (MAPS) program generated by a voter-approved temporary one cent sales tax, 70 acres of downtown property was acquired to serve as a two-section downtown park: a 36-acre northern section and, connected by a bicycle-pedestrian bridge across Interstate 40, a southern segment of 34-acres that abuts the Oklahoma River and connects with the Oklahoma River Trails that span 13 total miles along both banks. With a budget of approximately \$132 million, Scissortail Park includes nearly 1,000 trees at a cost of about \$608,000. The 36-acre upper section of Scissortail Park opened on September 27, 2019 with about 28,000 people attending the grand opening concert. Construction on the 30-acre lower park begins in 2020 and is scheduled to finish in 2021.	2017 - Ongoing
Northwest Multimodal Transportation Corridor	City of Oklahoma City, EMBARK	Planned	Funding sources include a \$14.3 million BUILD grant from the U.S. Department of Transportation, as well as \$10.8 million from general obligation bonds and \$2.2 million from sales tax revenue. Planning for the project began in 2015 and was supported through grants from Smart Growth America, a Federal Highway Administration beta test for health in transportation corridor planning, and local stakeholders including the City of Oklahoma City, the Oklahoma City-County Health Department, the Greater Oklahoma City Chamber of Commerce, and the local chapter of the Urban Land Institute. The corridor plan includes the addition of 9 to 10 miles of bus rapid transit (BRT) connecting downtown Oklahoma City with the northwestern suburban areas of the city along with	2015 - Ongoing

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			significant bicycle and pedestrian infrastructure additions along the corridor. In April 2020, COTPA completed environmental review and approved a contract for project engineering that will carry the project through the design phase. Full service for the corridor BRT is anticipated to begin in 2023.	
Regional Transportation Authority (RTA)	Central Oklahoma Transportation & Parking Authority (COTPA)	New	The Regional Transportation Authority of Central Oklahoma will serve its five-member cities: Del City, Edmond, Moore, Norman, and Oklahoma City by planning, developing, funding, implementing, and operating a regional transit system. The system may include expanded and enhanced bus service, modern streetcars, commuter rail, and other modes of transportation.	Continuous
Ozone Alert Day Action Promotion	City of Yukon	Ongoing	The City of Yukon includes emissions reductions actions for Ozone Alert Days in promotional materials. Actions include: delaying driving errands, avoiding filling up vehicles until after sundown, and not mowing.	Continuous
Air Quality Public Outreach	DEQ	Ongoing	The Department 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 ozone watches for the Oklahoma City MSA. DEQ began its Air Quality Health Advisory Program in 2006, issuing real time email notifications of unhealthy concentrations of ozone. In 2020 DEQ moved to a new mobile-friendly website with completely redesigned pages that include searchable content, easy access to daily air quality forecasts, and streamlined education pages. Also, DEQ expanded its social media outreach with several video series, including "Carpool Conversations" (air quality and other topics) and "Breath of Fresh Air" (ozone monitoring and prevention), campaigns which generated over 30,000 video views and 3,000 Facebook followers. DEQ continues to utilize social media sites, including Facebook, Instagram, and Twitter to issue Ozone Health Advisories and Ozone Alerts. 2021 Update: The Department continues to expand its list of subscribers for emails and text messaging.	2012 - Present

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Energy Conservation Program	DEQ	Ongoing	<p>The Oklahoma Department of Environmental Quality received an award from Governor Fallin on November 10, 2015 for being the first state agency to hit the 20 percent energy savings goal. The award for 20 percent reduction was based on a month to month normalized electric savings, using 2012 as the baseline year. Currently, DEQ averages an annual normalized electric reduction of 19.9 percent since the program's inception in 2012. Some of these savings result from behavior change, but many of DEQ's energy savings derive from mechanical building improvements. The annual normalized average of 19.9 percent savings equates to 1,135,705 kWh. DEQ has volunteered to set a new goal to achieve 30 percent electric reduction by 2020.</p> <p>2021 update: This program was ended at DEQ due to the possibility of agency relocation, but DEQ continues to implement practices in order to reduce utility usage.</p>	2018 Ozone Season - Present
Air Quality Awareness Week	DEQ	Ongoing	<p>Since 2018, DEQ has participated in the national Air Quality Awareness Week, sharing relevant air quality topics through social media posts daily during the national Air Quality Awareness Week in early May, as well as throughout the ozone season. Topics often include how to interpret the daily Air Quality Index, what ozone is and how it is formed, the effects on air quality from fires and smoke, how air quality affects those with asthma and other health conditions, and how to sign up for Health Advisories to get real-time warnings when air quality is unhealthy for sensitive groups. Each post contains a graphic and links to more information, including the Air Quality Health Advisory and Ozone Alert notification programs.</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 will be released throughout the summer of 2021 on various air quality topics."</p>	2018 – Ongoing annually
Beat Ozone BINGO	DEQ	Ongoing	<p>The DEQ Green Team and the Air Quality Division sponsored Green Commuter BINGO in the month of May 2018 to help reinforce the efforts of Air Quality Awareness week in early May. BINGO activities included raising awareness of the agency's health advisories shared on social media, and ways to reduce motor vehicle emissions by changing travel habits and trying alternative methods of commuting. Prizes, provided for by the Green Team, were awarded to employees who successfully completed their BINGO cards. Green Commuter BINGO was renamed to Beat Ozone BINGO for the 2019 Ozone season contest. The intent is to increase awareness among employees while also sharing the information via social media to expand awareness to more citizens.</p>	Ongoing

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			2021 update: Due to the COVID-19 restrictions placed on workplaces, AQD chose to suspend this program until late-summer.	
Weather Festival	National Weather Center-Norman	Ongoing	<p>The annual weather festival showcases the many weather-related organizations and activities in central Oklahoma. This event features weather balloon launches, storm research vehicle displays, children's activities, amateur radio demonstrations, and weather-related information and products. The Air Quality Division is responsible for presentation space showcasing the division's programs and the air quality themed children's activity room.</p> <p>2021 Update: Due to the COVID-19 pandemic, the first virtual National Weather Festival was held in the fall of 2020. Digital content was available online as well as access to the virtual festival which hosted over 150,000 participants.</p>	Continuous
Electric Mowers	OGE Energy Corp.	Ongoing	OG&E has begun to deploy autonomous electric mowers to trim grass at its facilities and rights-of-way where feasible. These zero-emission mowers replace gasoline and/or diesel-fueled mowers, thus avoiding NOx emissions. OG&E anticipates that its electric mower use will grow in the future.	Continuous
Electric Vehicle Fleet	OGE Energy Corp.	Ongoing	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. In addition, the company is installing charging stations in several of its facilities in the metro OKC area so employees can conveniently charge their vehicles.	Continuous
Electric Vehicle Promotion, Education, and Outreach	OGE Energy Corp.	Ongoing	OG&E has increased the amount of events, marketing, and other outreach conducted around the promotion of electric vehicles for their customers and employees. For example, promotion of participation in OG&E ride and drive events; assistance with dealership outreach for OG&E events; promotion of OG&E Charging Stations during ChargerChase OK and other EV events.	Ongoing

Emission Reduction Projects	Entity	Status	Description	Schedule/ Completion Dates
Solar Energy Pilot Projects	OGE Energy Corp.	Ongoing	During 2015, OG&E installed Oklahoma's first universal solar power plant, the 2.5 MW Mustang Solar Project at the Mustang Energy Center, and during 2017, sited a second 10 MW solar power plant in Covington, Oklahoma. In 2020, OG&E sited two additional 5 MW solar plants, one in Davis, Oklahoma, and one in Durant, Oklahoma, to help meet the renewable energy needs of the Chickasaw Nation and the Choctaw Nation respectively. OG&E offers all customers, on a voluntary basis, an opportunity to purchase energy from the solar and wind renewable energy generators and is consistently listed in the National Renewable Energy Lab's (NREL) Top Ten Utility Green Pricing Programs.	Ongoing
NOx Emission Reduction	OGE Energy Corp.	Ongoing	<p>In addition to other measures noted above, in fulfillment of ongoing commitment to emissions reduction, OG&E power plant nitrogen oxide (NOx) emissions are more than to be 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 which 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. • 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 which incentivizes customer electricity use at "off-peak" times and delays the need for new peaking generation. 	Ongoing

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Oklahoma State Facilities Energy Conservation Program	State of Oklahoma	Ongoing	<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>	2009 - Present
Oklahoma State Mandated Energy Efficiency Requirements	State of Oklahoma	Ongoing	<p>61 O.S. § 213, Enacted 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 further demonstrate the energy efficiency of a public building project.</p>	1990-Present
Private Alternative Fuel Vehicle (AFV) Loans	State of Oklahoma	Ongoing	<p>Private loan program with a 3 percent 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 period is six-years.</p>	Present - 2025

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The Oklahoma Energy Security Act	State of Oklahoma	Ongoing	Established state wide goals (O.S. 17, Section 801.1 et seq.) 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. 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 2019) Oklahoma is 3rd in the nation for wind power generation.	2015- Present
Emergency and Transportation Revolving Fund	State of Oklahoma	Ongoing	In 2015, the legislature passed SB 656 (69 O.S., Section 687.3), which allows counties to apply for no-interest loans, for a maximum of 5 years, for the purchase of CNG vehicles or the conversion of existing fleet vehicles to CNG.	Ongoing
Energy Efficiency	Tinker Air Force Base	Ongoing	Currently implementing third Energy Saving Performance Contract (ESPC) task order 3 with investment of \$243 million toward Energy Conservation Measures (ECM). Energy reductions will be achieved through boiler plant improvements, building automation systems, building envelope and lighting improvements. Target energy reduction goal is 23%.	Ongoing
Water Reduction Measures	Tinker Air Force Base	Ongoing	Tinker AFB will realize water savings through Energy/Water Conservation Measures (ECMs), including decentralizing large boiler plants, replacing or discontinuing the use of aging steam lines, use of flow restrictors on valves/faucets and installing low flow fixtures. Target base wide water reduction is 2% annually.	2018 - Ongoing
Natural Gas Reductions	Tinker Air Force Base	Ongoing	The Tinker AFB ESPC task order 3 is decentralizing steam consumption by shutting down large steam boilers and replacing them with high efficient hot water heating or high efficiently natural gas fired heating units. This project is projected to result in an annual energy savings of 600,000 MMBtu/yr.	2018 - Continuous
Fleet Electrification	Tinker Air Force Base	Ongoing	Tinker has developed a multi-year plan to convert a portion of our government owned fleet vehicles to electric (EV) and plug-in hybrid vehicles (PHEV). In 2018 Tinker completed the construction of twenty-six Level 2 charging stations for their government vehicle fleet vehicles. Currently two base organizations utilize this charging station infrastructure.	Continuous

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Bike Share	Tinker Air Force Base	Ongoing	Tinker AFB installed their first bike sharing hub of eight (8) bikes in 2018 in partnership with Gotcha Bike. These bikes are primarily provided to Airmen (living on base) as an alternative to car ownership, but are open to the base populous as a whole. Tinker anticipates installing additional hubs in the future to support one-way travel.	2018 - Ongoing
Vanpooling	Tinker Air Force Base	Ongoing	Partnering with EMBARK to provide the civilian employees and military members a way to commute to Tinker in multi-passenger vehicles. This program will use Air Force's Mass Transportation Benefit to supplement the cost of commuting. No cost to the commuter based on current commodity prices.	2019 - Continuous
Glass recycling	Tinker Air Force Base	Ongoing	Installation of our first glass bottle crusher to process glass into a sand substitute to be used at our facility. Project goal is to process 5 tons of glass in the first year. Reduces landfill waste and partially replaces the purchase of sand.	2019 - Continuous
Vehicle Idle reduction policy	Tinker Air Force Base	Ongoing	An idle reduction policy memo was signed by the Installation Commander in May 2016. Limits the idle to 5 minutes for non-emergency fleet vehicles. The goal is a 50% reduction in idling on the base.	Continuous
CNG and Alternative fuel use	University of Oklahoma, Cleveland Area Rapid Transit (CART)	Ongoing	The University of Oklahoma currently has 251 on-road vehicles fueled by alternative energy sources including: 92 CNG vehicles, 24 Cleveland Area Rapid Transit buses fueled with B20, and 145 E85 vehicles.	Ongoing
Recycling	University of Oklahoma	Ongoing	In fiscal year 2018, the University recycled 660 tons of material. Diverting 660 tons from the landfill reduces the equivalent of 2,600 metric tons of carbon dioxide equivalents (source: EPA WARM tool). In terms of more comprehensible values, this would be the equivalent of removing 460 passenger vehicles driven for one year (source: EPA Greenhouse Gas Equivalencies Calculator).	Ongoing

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Metering	University of Oklahoma	Ongoing	Metering data is collected, recorded and analyzed to form the basis of energy efficiency improvements. A Metering Infrastructure Capital Improvement Plan was initiated to ensure the campus was metered with smart meters at the building-level for utilities: electric (2013), steam and chilled water (2018-2019), and natural gas (2020). To further leverage the capabilities of the smart meters, the University is investing in an Automated Metering Infrastructure. WebCTRL is a platform that will collect real time utility consumption data and provide greater insight to utility demand.	Ongoing
Building Automation	University of Oklahoma	Ongoing	In 2018, the campus implemented a building automation system (BAS) to provide higher levels of comfort and productivity, while reducing energy consumption, emissions, and operating expenses. Of the approximate 10.6 million square footage of the Norman campus, 83.98% is operated by the building automation system. The BAS establishes temperature and time parameters for HVAC systems. During occupied hours, temperature settings are established to maintain energy management goals. Additionally, buildings are scheduled to follow default heating and cooling settings during unoccupied time periods. During unoccupied time periods, temperatures are allowed to cool to 55 degrees in the winter, and allowed to rise to 80 degrees in the summer.	Ongoing