



CITY OF SHREVEPORT

P. O. Box 31109, Shreveport, LA 71130 ● 505 Travis St., Suite 300, Shreveport, LA 71101
web site: www.shreveportla.gov

June 27, 2022

EPA Ozone Advance Program
c/o Mia South, Mail Code C404-04
U. S. Environmental Protection Agency
Office of Air Quality Planning and Standards
109 T.W. Alexander Drive
Durham, NC 27709

Re: Ozone Advance Program Update for the
Shreveport-Bossier City Metropolitan Statistical Area

Dear Mr. Damberg:

This is our sixth periodic update on the status of the Shreveport-Bossier City Metropolitan Statistical Area's Ozone Advance program, providing the program's status as of the end of calendar year 2021, covering calendar years 2020 and 2021.

As the attached chart shows, our area's ozone design value continues to trend downward as of the end of 2021. Unofficial design value for the MSA as of the end of 2021 was 59. The attached chart shows the design value trend since 1990.

No ozone action days were declared for our area by the Louisiana Department of Environmental Quality during calendar years 2020 and 2021.

Average temperatures during both the 2020 and 2021 ozone seasons (May 1 through September 30), as measured at the National Weather Service office in Shreveport, were very close to the historical normal average temperature for that period, with the 2020 ozone season average temperature just a fraction below normal and the 2021 ozone season average slightly above. There were no readings of 100 degrees or more during the summer of 2021 and only one 100 degree reading in the summer of 2020, which is highly unusual. (The 2022 ozone season is starting out much hotter than normal with several days already exceeding 100 degrees; however, the only air quality action days declared thus far by the LDEQ have been for particulate matter associated with a Saharan dust plume that affected a large portion of the southcentral U.S., not for ozone.)

An updated table is attached, listing the status of the various commitments still ongoing which were made by local stakeholders at the outset of the ozone advance program, as well as the status of additional projects undertaken since that time. Notable among the 2020 and 2021 activities are the numerous projects performed by various governing bodies and industries involving energy efficiency upgrades to plant equipment, lighting and HVAC. In addition, the only coal-fired power plant located within the Shreveport-Bossier City MSA, and one of the last coal-fired power plants in Louisiana, ceased operations and was permanently closed at end of 2021.

If you have any questions or need additional information, please let us know.

Sincerely,

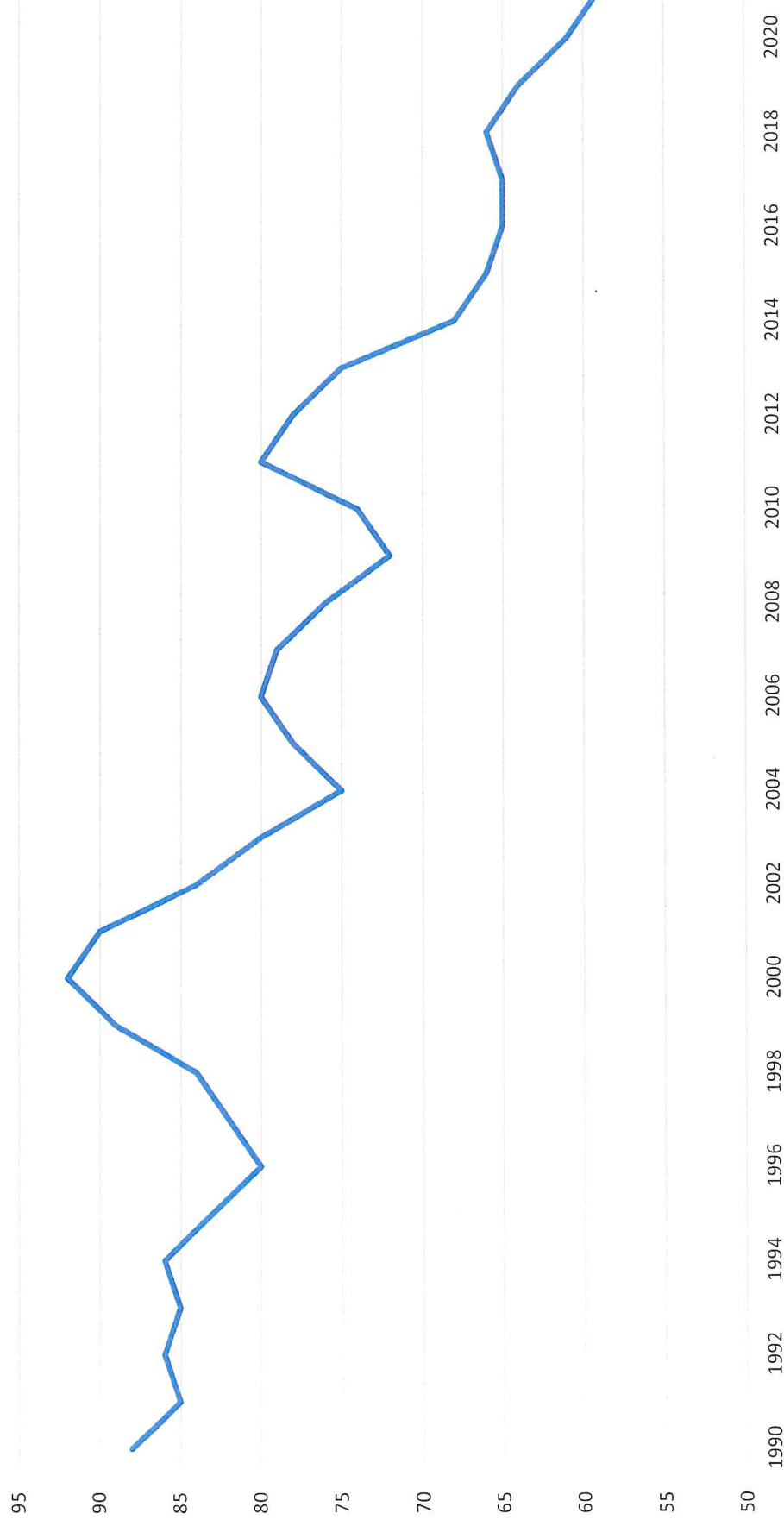


Wes Wyche
Environmental Services Manager

attachments

cc: Thomas H. Chandler, Mayor of Bossier City
Butch Ford, Parish Administrator, Bossier Parish Police Jury
Vivian Johnson, Louisiana Department of Environmental Quality
Michael Norton, Parish Administrator, DeSoto Parish Police Jury
Adrian Perkins, Mayor of Shreveport
J. Kent Rogers, Executive Director, Northwest Louisiana Council of Governments
Dr. Woodrow Wilson, Jr., Parish Administrator, Caddo Parish Commission

Shreveport Area Ozone Design Values



Commitments listed in initial path forward letter¹:

RESPONSIBLE PARTY	ACTION	START DATE	COMPLETION DATE	ANNUAL UPDATE
City of Shreveport/Local Ozone Action Network	Reorganize/revitalize local ozone action network	Kickoff meeting held July, 2012	Ongoing—efforts continue to increase number of stakeholders and stakeholder participation	Continued to keep stakeholders updated on air quality matters via e-mails; continued efforts to recruit new stakeholders
City of Shreveport/Local Ozone Action Network	Media campaign	Press release issued March 19, 2013; issuance of survey Press conference held Earth Day 2013 TV appearances, Spring 2013	Ongoing	Continued to update local ozone action network by e-mails on initiatives and issues pertaining to ozone
Louisiana Dept. of Transportation and Development	Display ozone information on electronic traffic billboards before during ozone action days	Ozone season 2013	Ongoing during ozone seasons	Ongoing. Ozone action days were not declared for our area in 2020 or 2021
City of Shreveport	Update/Improve local Air Quality website https://www.shreveportla.gov/255/Air-Quality-Information	2013	Ongoing	Updated website, ensured all informational links are operational

¹ Commitments fully completed prior to 2020 are no longer listed.

Barksdale Air Force Base	Utilize Defense Connect Online system to conduct and attend meetings, reducing vehicle travel.	2013	Ongoing	Ongoing
City of Bossier City	Installation of two publicly accessible CNG fueling stations; replacement of old gasoline/diesel fleet vehicles with new CNG vehicles	Began 2011	Fueling infrastructure completed by 2011; as of summer 2013, 6 dump trucks, 1 sweeper, 45 SUVs and 30 pickups purchased.	As of end of 2021, City has 2 CNG bucket trucks, 8 CNG dump trucks, 2 CNG sweepers, 180 CNG SUVs and pickups City's contract refuse hauler utilizes all CNG packers.
SPORTRAN	Installation of fast-fill CNG fueling facility; Replacement of 14 old diesel buses and 3 para-transit vans with CNG vehicles	Began 2010	Further expansion of alternative fuel fleet is ongoing	As of end of 2021, operating 35 CNG transit buses, 4 CNG shuttle buses, and 5 electric buses. Currently on order for 2022 delivery are an additional 9 CNG transit buses and 2 electric buses. 6 Electric chargers are installed, with on fast charger on order. Grants have been submitted for the potential acquisition

SPORTAN, continued					of up to 13 additional electric buses and 8 depot chargers New electric bus maintenance facility expected to be built in 2023.
City of Shreveport	Installation of public accessible CNG fueling facility; replacement of 19 old diesel garbage trucks with diesel trucks	Initial refuse trucks acquired 2011	Station complete and open to public spring 2013; buses purchased and in service 2012	18 CNG refuse trucks remain in service as of 2021. City not planning to expand CNG garbage truck fleet at this time and has closed the CNG garbage truck fueling facility.	
AEP-SWEPCO (local electric utility)	Residential Energy Efficiency Program - Free energy efficiency audits offered to qualifying residences, with incentives for implementing recommended improvements	2015	Ongoing	Program continuing as of 2020/21. Incentives available annually on first come, first served basis until funding for year runs out.	
AEP SWEPCO	Commercial/Industrial Energy Efficiency Program - Incentive payments available to qualifying program participants that install energy efficiency upgrades	2015	Ongoing	Program continuing. Incentive payments available annually on first come, first served basis until funding for year runs out.	

CLECO/AEP-SWEPCO Dolet Hills Power Plant	Operate new “selective non-catalytic reduction system” during ozone action days	Ozone season 2013	Complete	This 650 MW plant, which was one of the last coal-fired power plants in Louisiana and the only one in the Shreveport-Bossier City MSA, permanently closed at the end of 2021. AEP-SWEPCO is reducing its use of coal as an energy source systemwide, in favor of renewables including wind and solar.
SPORTRAN, City of Shreveport Department of Water and Sewerage	Implementation of fleet anti-idling policies	Summer 2013	Ongoing	Ongoing
Barksdale Air Force Base	Execute grounds maintenance contract specifying curtailed/restricted equipment use in order to lower emissions	Contract signed August, 2013		Ongoing
City of Shreveport/Ozone Action Network	Review/evaluate path forward actions and revise as needed		Annually	Ongoing

Additional commitments since initial path forward letter:

RESPONSIBLE PARTY	ACTION	START DATE	COMPLETION DATE	LATEST ANNUAL UPDATE
City of Shreveport	Extend landfill gas collection contract with Renovar; partner on long-term project to convert gas to pipeline quality and market to local gas utility	2014	2018	Operation of system continues as of end of 2021. Additional dewatering wells are being considered for increased efficiency.
Barksdale Air Force Base	Reduced mowing frequency	2014	ongoing	Continued with reduced mowing protocols affecting roughly 1000 acres of land ongoing
Barksdale Air Force Base	Instituted work from home and idle reduction policies	2020/21	N/A	
Kansas City Southern Railroad	Sustainability Study	2013	ongoing	Projects completed as a result of the study were listed in the 2015 report. Continued with idle reduction monitoring program as described in previous years' year's updates. In 2019, idle reduction technology was added to 4 recently overhauled Tier 1+ switch locomotives that operate solely in the Shreveport area. In 2019 25 AESS (automatic engine stop/start)-equipped new tier 4 line haul

KCS, continued				locomotives were added to the fleet which is maintained primarily in Shreveport. Since 2020, at least 48 locomotives have been overhauled at the Shreveport yard, which restores like-new emissions characteristics. Began implementation of a program to equip all remaining fleet locomotives with AESS.
Caddo Parish Commission	Anti-idling policy	2015	Ongoing	Continued this policy as of 2020/21
General Electric	Install LED lighting throughout Shreveport plant	2016	Ongoing	Project continues. Any lighting needing replacing is replaced by LED lighting. As of end of 2021, all outdoor lighting and 90% of shop floor lighting had been replaced; old HVAC equipment in various offices was replaced by energy efficient systems, and timers had been installed in 75% of shop floor fans.
Shreveport Green	Urban forestry program	Ongoing	Ongoing	Local environmental non-profit promotes urban forestry/tree canopy initiatives through programs like its regional growing station (providing trees to community groups and nonprofits).

City of Shreveport	LED lighting retrofit of Independence Stadium	2017	2019	Complete
City of Shreveport	Bike Lane projects	2017	Ongoing	Latest bike lane project is designed to improve connection of large residential area with existing bike lane network running along Red River (Knight Street project)
Barksdale Air Force Base/Centerpoint Energy	Utility Energy Savings Contract	2017	Ongoing	In 2017, Barksdale Air Force Base entered into a utility energy savings contract which will include retrofitting over 23,000 fluorescent fixtures with more efficient lighting, converting street and parking lot lighting to LED, retrofitting of airfield lighting to LED, expanding automated control of HVAC systems, more efficient tuning of over 60 boilers, and installing infrared heating in 5 maintenance facilities and hangars. Project remains ongoing.
Benteler Steel	Various activities	2018 - 2019	Ongoing	Continued phasing out of fluorescent lighting and replacing with LED throughout the mill. Two production bays completed as

Benteler Steel, continued				of end of 2021, with 3 more to go. Continued policy of operating lower temperature levels in steel furnaces when not in production In 2020/21, replaced the burners in plant's furnace with ultra low NOX burners.
Caddo Parish Commission	Energy efficiency projects	2018 - 2019	Ongoing	Continued implementation of policy to replace all lights and HVAC in parish buildings with more energy efficient equipment, as such equipment is replaced
Frymaster	Install energy efficient lighting throughout entire plant and campus (interior and exterior) Conversion of lighting to LED	2019	2020	Project complete
Port of Caddo Bossier		2020	Ongoing	In 2020, converted lighting in 30,000 sf building and high mast lighting associated with it to LED; installed LED street lighting.

Pratt Paper	Improvements to wastewater plant	2020	2021	Eliminated flaring of biogas by completing a capital project that compresses gas after desulfurization process so it can be reused in the plant boiler.
Pratt Paper	LED lighting project	2020	Ongoing	As end of 2021, approximately 70% of plant's lighting has been replaced with LED.
City of Shreveport	LED Park lighting replacement project	2020	2021	Completed the replacement of all interior, exterior, parking and tennis court lighting at 7 city parks and at City Hall with LED.