

FY 2019/20 CMAQ Approved Projects

On February 27, 2020, the San Joaquin Council of Governments (SJCOG) Board of Directors approved the CMAQ programming recommendations recommended by SJCOG staff. The two projects below the red line are on the CMAQ contingency list, which would be positioned to receive CMAQ funds should there be project cost savings, significant delays, or undeliverable projects. The projects on the CMAQ contingency list would expire upon the start of the next CMAQ call for projects.

Applicant	Project Title	Total Project Cost	Total CMAQ Request	Cost-Effectiveness (\$ per lb.)
San Joaquin County	Hospital Solar EV Charger	\$840,000	\$790,000	\$10.99
Stockton	Transportation Management Center Equipment Upgrade	\$4,056,000	\$3,906,000	\$15.27
San Joaquin County	Mountain House Parkway Traffic Signal Synchronization Project	\$102,500	\$102,500	\$15.55
Ripon	East Main Street Traffic Signal	\$720,000	\$480,000	\$25.41
Manteca	2019 Street Sweeper Replacement	\$1,050,000	\$929,565	\$26.52
Ripon	One CNG Solid Waste Collection Vehicle	\$375,000	\$100,000	\$28.85
SJRTD	Zero-Emission Electric Bus Replacement Project (2 2006 Hybrid	\$2,140,000	\$2,140,000	\$96.30
Stockton	Arch Airport Road Traffic Synchronization and Signal Prioritization Project	\$1,257,000	\$1,157,000	\$99.33
SJRRC	Railcars Purchase	\$11,625,000	\$7,500,000	\$115.16
Port of Stockton	Port of Stockton Near Zero Emission Cargo Handling	\$614,000	\$614,000	\$126.87
San Joaquin County	Signalization of Mariposa Road and Jack Tone Road	\$700,000	\$619,700	\$137.01
Stockton	Alpine & Alvarado Traffic Signal with Intersection Coordination	\$1,040,000	\$921,000	\$139.36
Tracy	Adaptive Signal System on Grant Line Road	\$925,000	\$875,000	\$150.29
Tracy	Signalization at Corral Hollow Road & Linne Road	\$660,000	\$330,000	\$154.70
Manteca	City of Manteca Phase II Communications	\$4,855,000	\$4,563,000	\$199.39
SJRTD	Zero-Emission Electric Bus Replacement Project (15 2010 and	\$16,057,500	\$8,109,000	\$322.39
		\$47,017,000	\$33,136,765	

Attachment A:

Description of Projects

Project Applicant:	San Joaquin County	Description: The project would install electric vehicle charging equipment at San Joaquin General Hospital. The charging station will be powered by solar energy, meaning that it will not draw from the electrical grid (whose power is generated through a mix of sources, including combustion of fuels).
Project Name:	Hospital Solar EV Charger	
CMAQ Funded:	\$790,000	
Emissions Reduced (lbs):	71,884	
Cost Effectiveness (\$ per lb)	\$10.99	

Project Applicant:	Stockton	Description: Stockton plans to upgrade the current Transportation Management System, including upgrading 230 traffic signal controllers and 297 unmanaged ethernet switches to managed switches. These upgrades will allow the city to manage congestion hot spots in real time, minimizing vehicle stopping and queuing.
Project Name:	Transportation Management Center Equipment Upgrade	
CMAQ Funded:	\$3,906,000	
Emissions Reduced (lbs):	255,796	
Cost Effectiveness (\$ per lb)	\$15.27	

Project Applicant:	San Joaquin County	Description: This project will implement traffic signal coordination between Bryon Road and Von Sosten Road. The scope of the project will include the installation of wireless modems at five intersections, procurement of a centralized computer system, and signal coordination to reduce air pollution and congestion.
Project Name:	Mountain House Parkway Traffic Signal Synchronization Project	
CMAQ Funded:	\$102,500	
Emissions Reduced (lbs):	6,592	
Cost Effectiveness (\$ per lb)	\$15.55	

Project Applicant:	Ripon	Description: The project would install a four-way traffic signal, with ADA compliant ramps, and restriping of the intersection. Installation of the signal will improve level of service from "LOS F" to "LOS C."
Project Name:	East Main Street Traffic Signal	
CMAQ Funded:	\$480,000	
Emissions Reduced (lbs):	18,890	
Cost Effectiveness (\$ per lb)	\$25.41	

Project Applicant:	Manteca	Description: The City would replace three of its oldest street sweepers with new sweepers powered by compressed natural gas. Such a project provides air quality benefit in two ways: (1) replacement of aging equipment with cleaner equipment, and (2) removal of particulate matter from roadways, minimizing the impact of traffic on road dust.
Project Name:	2019 Street Sweeper Replacement	
CMAQ Funded:	\$929,565	
Emissions Reduced (lbs):	35,051	
Cost Effectiveness (\$ per lb)	\$26.52	

Project Applicant:	Ripon	Description: The City would replace its existing diesel fueled refuse truck with a new refuse truck powered by compressed natural gas.
Project Name:	One CNG Solid Waste Collection Vehicle	
CMAQ Funded:	\$100,000	
Emissions Reduced (lbs):	3,466	
Cost Effectiveness (\$ per lb)	\$28.85	

Project Applicant:	SJRTD	Description: The project would replace two 2006 hybrid diesel-electric buses with two zero-emission electric buses.
Project Name:	Zero-Emission Electric Bus Replacement Project (2 2006 Hybrid Buses)	
CMAQ Funded:	\$2,140,000	
Emissions Reduced (lbs):	22,222	
Cost Effectiveness (\$ per lb)	\$96.30	

Project Applicant:	Stockton	Description: The project includes installation of two traffic signals, crosswalks, intersection lighting, lane striping, signs and signal priority, retiming and synchronization. Currently, the existing traffic signals on Arch Airport Road are operated in "Free" mode, and are not sensitive to traffic levels or stopped delay. Implementation of the project will substantially improve congestion along the corridor.
Project Name:	Arch Airport Road Traffic Synchronization and Signal Prioritization Project	
CMAQ Funded:	\$1,157,000	
Emissions Reduced (lbs):	11,648	
Cost Effectiveness (\$ per lb)	\$99.33	

Project Applicant:	SJRRRC	Description: Purchase of three railcars and associated spare parts to support the expansion of ACE service. With the surrounding highway system at full capacity, ACE expansion will help to divert cars to rail, helping to address the regional congestion experienced on I-5, I-205, I-580, SR-99, and SR-120.
Project Name:	Railcars Purchase	
CMAQ Funded:	\$7,500,000	
Emissions Reduced (lbs):	65,127	
Cost Effectiveness (\$ per lb)	\$115.16	

Project Applicant:	Port of Stockton	Description: The project would replace two existing diesel-powered cargo front end loaders with new zero-emission cargo handling equipment. Port equipment used to offload ships are a significant contributor to emission levels in the county. Replacement of this equipment with zero-emission equipment will have an immediate impact on the health of port employees and nearby residents.
Project Name:	Port of Stockton Near Zero Emission Cargo Handling Equipment	
CMAQ Funded:	\$614,000	
Emissions Reduced (lbs):	4,840	
Cost Effectiveness (\$ per lb)	\$126.87	

Project Applicant:	San Joaquin County	Description: This project proposes an intersection improvement at the current all-way STOP controlled intersection of Mariposa Road at Jack Tone Road. Signalization will improve the peak hour level of service from "LOS D" to "LOS B."
Project Name:	Signalization of Mariposa Road and Jack Tone Road	
CMAQ Funded:	\$619,700	
Emissions Reduced (lbs):	4,523	
Cost Effectiveness (\$ per lb)	\$137.01	

Project Applicant:	Stockton	Description: The project would convert the existing side-street stop at E. Alpine Avenue and Alvarado Avenue into a signal, as well as coordinate signals along the Alpine Avenue corridor. This area experiences significant delay and queuing - which this project will help to alleviate.
Project Name:	Alpine & Alvarado Traffic Signal with Intersection Coordination	
CMAQ Funded:	\$921,000	
Emissions Reduced (lbs):	6,609	
Cost Effectiveness (\$ per lb)	\$139.36	

Project Applicant:	Tracy	Description: The project would install adaptive signal controllers, detection equipment, and software at signalized intersections on Grant Line Road from Byron Road to Naglee Road at six locations. The corridor currently operates at deficient LOS, and this project would restore operations to an acceptable level - thereby reducing congestion and emissions.
Project Name:	Adaptive Signal System on Grant Line Road	
CMAQ Funded:	\$875,000	
Emissions Reduced (lbs):	5,822	
Cost Effectiveness (\$ per lb)	\$150.29	

Project Applicant:	Tracy	Description: The project would install a new signal at the intersection of Corral Hollow Road and Linne Road. Signalization would improve the level of service from "LOS F" to "LOS C."
Project Name:	Signalization at Corral Hollow Road & Linne Road	
CMAQ Funded:	\$330,000	
Emissions Reduced (lbs):	2,133	
Cost Effectiveness (\$ per lb)	\$154.70	

Project Applicant:	Manteca	Description: The project will interconnect (via fiber optic cable) existing traffic signals and City buildings along 8.5 miles of city roadway. Interconnecting the traffic signals will enable coordination along the corridors and also provide the City with remote monitoring of the traffic signals during incidents and fine tuning the signal timing during the peak periods.
Project Name:	City of Manteca Phase II Communications Equipment	
CMAQ Request:	\$4,563,000	
Emissions Reduced (lbs):	22,885	
Cost Effectiveness (\$ per lb)	\$199.39	

Project Applicant:	SJRTD	Description: The project would replace fifteen 2010 and 2012 hybrid diesel-electric buses with fifteen zero-emission electric buses.
Project Name:	Zero-Emission Electric Bus Replacement Project (15 2010 and 2012 Hybrid Buses)	
CMAQ Request:	\$8,109,000	
Emissions Reduced (lbs):	25,153	
Cost Effectiveness (\$ per lb)	\$322.39	