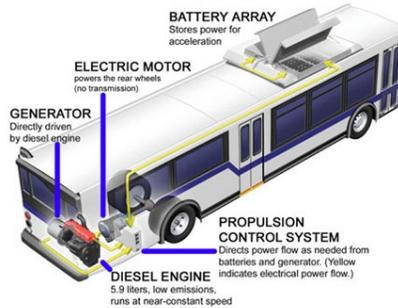


# San Joaquin One Voice® Project Request

## San Joaquin Regional Transit District (RTD) Diesel Hybrid Bus Project



### Project Summary:

The Diesel Hybrid Bus Project includes the purchase of one (1) Diesel Hybrid Bus to replace a retired limited-range electric bus in the current fleet and provide adequate bus service to the district. The diesel hybrid engine helps drive the bus and recharges a set of batteries. Those batteries supply energy to the electric motor that also helps drive the bus. When the bus first starts or accelerates, both motors are used. The diesel engine is then used to maintain a constant speed. When the bus slows down, some of its energy goes back into the batteries. By using less fuel, hybrids give off less Carbon Monoxide, fewer Hydrocarbons, and fewer Oxides of Nitrogen, all of which are gases that are bad for the air. Using less fuel also means less smoke comes out of the tailpipe. In addition, most of RTD's buses already use a cleaner fuel that creates less pollution.

RTD operates services primarily in and around the City of Stockton where most of the census tracts fall within the 75th percentile or higher, especially the central and southern areas of the city where nearly all census tracts are in the 75th percentile or higher.

The project is a good use of taxpayer funds since it will further develop RTD's capacity to reduce and manage its dependency on the electric grid, contribute toward grid resiliency and reduce energy costs.

## **Community Impact:**

Stockton is a low-income community with a high percentage of minorities. This project will serve approximately 309,000 residents:

- 42.2% Hispanic or Latino
- 11.1% Black
- 21.2% Asian
- .2% American Indian

Percent of population with income below 150% of poverty level:

-36.0%

The areas surrounding the Stockton, CA Transit Center and areas served by RTD are considered a collection of environmental justice (EJ) neighborhoods due to a dense area of minority, immigrant, and low-income communities that are closely integrated with polluting ports, railroads, industries and some of the busiest goods-movement pathways in the nation. RTD has their domicile zero emission bus depots in EJ neighborhoods. Urban buses and trains are the workhorses of California's public transit systems. Disadvantaged communities make up the majority of RTD's service area as well as the broader region. The California Environmental Protection Agency's (CalEPA)

Cal Enviro notes that 51% (71 of 139) of San Joaquin County's census tracts are defined as SB 535 Disadvantaged Communities.

More than 34% of children ages 1–17 in San Joaquin County have been reported as diagnosed with asthma compared to 7% nationwide. In addition, 20% of adults in the county have been diagnosed with asthma compared with 8% nationwide. San Joaquin County ranks 9th highest in the nation for particulate matter and is in non-attainment for federal air quality standards for particulate matter (PM 2.5) and ozone.

In many of the low-income areas of Stockton, Asthma rates are within the 90 to 100th percentile of the state of California. Outdoor pollution can trigger asthma attacks or make asthma worse and cause people to be more susceptible to pneumonia, flu and other illnesses. The project will reduce the emission of particulates that create local air pollution, which leads to local environmental health concerns, smog and unhealthy ozone concentrations.

# Diesel Hybrid Vehicle Project

The Diesel Hybrid Bus Project includes the purchase of one (1) Diesel Hybrid Bus to replace a retired limited-range electric bus in the current fleet and provide adequate bus service to the district. The project incorporates environmental justice principles since the Diesel Hybrid Bus Project (which will improve air quality) will primarily operate in the City of Stockton, which has a population comprised primarily of low-income Hispanic or Latino and Black residents.

- **Purchase 1 Diesel Hybrid Bus**
- **Project Cost**
  - \$900,000
  - \$135,000 (Local Match)

