

Applicant Information

Legal Name of Organization	County of San Bernardino, Fleet Management Department	Primary Business Operations*	Distribution
Street Address	210 N Lena Rd	City	Rancho Cucamonga
State	CA	Zip	92415
County	San Bernardino	Mailing Address the same as Organization Address.	Yes
Mailing Address	11829 Lucca Dr	City	Rancho Cucamonga
State	CA	Zip	91701
County	San Bernardino	First Name	Melanie
Last Name	Eustice	Email Address	melanie.eustice@ftm.sbcounty.gov
Phone Number	(949) 632-1032	Is Primary Contact the same as the person authorized to sign application and execute grant agreement?	Yes
First Name	Melanie	Last Name	Eustice
Email Address	melanie.eustice@ftm.sbcounty.gov	Phone Number	(949) 632-1032

Project - San Bernardino County Fleet Charging at 210 N. Lena Road

Project Identifier	San Bernardino County Fleet Charging at 210 N. Lena Road	Proposed Project Life	10
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Infrastructure Project Location

Street Address	210 N Lena	City	San Bernardino
State	CA	Zip Code	92415
County	San Bernardino	Is the land for the Infrastructure project owned or leased?	Owned

Infrastructure Project Details

The County of San Bernardino's Department of Fleet Management is requesting funds from INVEST Clean's Heavy Duty Charging Infrastructure Program Measure 1 (PA#2026-03) at 210 N. Lena Road. This site is located in an SB535 Designated Disadvantaged Community (or DAC) census tract, making it a priority area for greenhouse gas and air pollution reduction efforts for the state. The project is envisioned in two parts comprising the overall EV charging project for goods movement. "Part A" leverages the existing infrastructure on site to cost effectively install DC Fast Charging using spare site capacity, whereas "Part B" installs a dedicated new SCE meter to provide the additional DC Fast Charging capacity needed for the County's Class 4-8 fleet. Part A would consist of six DC Fast Charging single "plugs" or dispensers, and Part B would consist of 24 DC Fast Charging single dispensers. To provide further decarbonization benefits to this project, as well as bill savings, the County has planned to install solar PV and Battery Energy Storage (BESS) in addition to the DC Fast Charging at their Lena Road Complex. This site functions as part of San Bernardino County's government facilities complex and supports the Fleet Management Department, Fire Department Garage, and Public Works as an existing fleet depot, with a majority of their 2470 vehicles passing through or parking overnight at this depot. The County Fleet includes 438 class 4-8 vehicles that support goods movement in and around the 20,105 square mile county, the largest county in the contiguous United States. Goods movement for County purposes

includes the transport of medical and emergency supplies, fuel and maintenance materials, construction and infrastructure materials, parks and facilities equipment, public safety and law enforcement gear, and administrative and program related cargo which are critical to the County's ability to provide services to the public. If electrified, it is estimated that the County's Class 4-8 vehicles would consume 5.2 GWh of electricity, reducing fuel-related emissions by almost 3,800 metric tons of CO₂e on an annual basis. Despite the recent relaxing of California Air Resources Board's Advanced Clean Fleet (ACF) regulation, the County has demonstrated an unwavering commitment towards decarbonization and fleet electrification by adhering to their original compliance plan deadlines. However, there exists a significant funding gap for installing the EV charging infrastructure necessary to support an electrified goods movement fleet. INVEST CLEAN funding for this charging infrastructure project is crucial to the decarbonization of the County's goods movement fleet and will allow for a more aggressive zero emission fleet transition plan. Proposed project "Part A – Behind the Existing Meter" includes the installation of one Kempower 400kW distributed charging station system with one power cabinet and six single port dispensers at 210 N. Lena Road. Each dispenser has a maximum charging power of up to 400 kW. This project would be installed behind the existing San Bernardino County Fleet Management electrical meter leveraging spare site capacity and thus would not require a site power upgrade. These initial 6 DCFC ports are the most cost-effective solution for goods movement fleet charging for San Bernardino County. This project also envisions solar PV and BESS to offset both EV charging and facility costs while generating carbon free electricity and controlling grid facing demand. This solution provides for a 400kW fast opportunity charging for vehicles passing through the Lena Rd. depot which need to return to service quickly and, using the same infrastructure, is also able to leverage dynamic power management to charge multiple connected vehicles at 25-400kW according to the requests of the individual vehicles and other factors, such as power availability and cost. Proposed project "Part B – New Meter" includes the installation of four Kempower 400kW distributed charging station systems with a total of four power cabinets and 24 single port charging dispensers at 210 N. Lena Road drawing a maximum of 1600kW in total. Each dispenser has a maximum charging power of up to 400 kW. This project would be installed behind a new Southern California Edison Meter which provides the additional charging capacity needed to facilitate the remainder of the County's class 4-8 vehicles. This project also envisions solar PV and BESS to offset both EV charging and facility costs while generating carbon free electricity and controlling grid facing demand. This solution provides for 400kW fast opportunity charging for vehicles passing through the Lena Rd. depot which need to return to service.

Brief Description of Project	quickly and, using the same infrastructure, is also able to leverage dynamic power management to charge multiple connected vehicles at 25-400kW according to the requests of the individual vehicles and other factors such as power availability and cost.	Does the project site require upgrades to bring additional power?	Yes
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Infrastructure Project Information			
Station Type	New	Powered by Renewable Sources	Solar
Publicly Accessible	No		

Charging Station/Equipment Information			
Number of Stations	5	Number of Connectors per Station	6
Total Number of Connectors	30	Charging Level	Level 3
CCS connector (DC Fast Charging)	true	Tesla connector (DC Fast Charging)	true
Voltage (v)	480	Power Output/Charging Rate (kW)	400

Construction Cross-Cutter Questionnaire			
Describe any environmental review (local, state, or federal), such as CEQA, that has already been completed for this site? Attach if necessary.	Once the schematic design is established to a level required and approved by the County as part of Phase 1, the environmental approval processes will commence. If required, the County will be responsible for contracting with a consulting firm who specializes in the California Environmental Quality Act (CEQA) process. The environmental processes will run concurrently with the design phases of the Project, and shall be completed prior to and/or concurrently with the completion of Phase 1. The Contractor shall provide to the County the necessary drawings and project information required for the environmental consultant's use during Phase 1.	Indicate if site is on developed or undeveloped land.	Developed
Describe current and past site use.	The site at 210 N. Lena Road, San Bernardino, California is currently owned and operated by the County of San Bernardino. It functions as part of the County's government facilities complex and supports the Fleet Management Department, Fire Department Garage, and Public Works. The project area property includes the Motor Pool parking lot adjacent to the administrative offices. Its ongoing use is consistent with public service and infrastructure activities. Historically, the site has been utilized for County government operations dating back several decades. Records indicate long-term use under County ownership, including facilities associated with the San Bernardino Public Safety Authority and related infrastructure agreements established in the 1960s and 1970s. There is no record of industrial, commercial, or other private development on the site prior to County acquisition.	Is the site a former brownfield?	No
Is site currently being used for farming or ranching activities?	No	Are any properties on the project site listed, or potentially eligible to be listed, in the National Register of Historic Places (NRHP)? (https://www.nps.gov/subjects/nationalregister/index.htm)	No
Will any effects to threatened or endangered species, or critical habitat, be caused by proposed site activity?	No	Will the project cause on- or off-site hydrologic impacts during and after construction (for low elevation sites, include potential impacts of hydrologic changes over life of installed infrastructure)?	No
Does the project require any removal of trees or vegetation?	No	Will the project cause a significant increase to pre-project light or noise conditions in the site or immediate surrounding area?	No

Is project located within a Coastal Zone boundary regulated under the Coastal Zone Management Act (CZMA)? (<https://coast.noaa.gov/czm/mystate/#california>)

No

Annual Usage Projection

What is the Annual Usage Projection (kwh) for the project?

3,173,760

Describe in detail how the Annual Usage Projection was determined.

To estimate annual kWh usage for Class 4–8 vehicles in SB County, purchase year and total mileage for each vehicle were collected. Vehicle age was calculated from the purchase year, and average annual mileage was determined by dividing total mileage by age. Conversion factors for kWh per mile—based on U.S. Department of Energy AFDC efficiency ranges—were applied using the average efficiency for each class. Annual kWh consumption was then calculated for each vehicle, and the totals were summed to yield an overall annual consumption of 3,173,760 kWh.

Estimated number of vehicles that will use the infrastructure in a day.

133

Estimated Average connection time.

33

Class 4 (14,001 – 16,000 lbs)

true

Class 5 (16,001 – 19,500 lbs)

true

Class 6 (19,501 – 26,000 lbs)

true

Class 7 (26,001 – 33,000 lbs)

true

Class 8 (>= 33,001 lbs)

true

Are you applying for equipment funded by a different INVEST CLEAN Measure?

No

INVEST CLEAN Measure #

Measure 3 (Battery Electric Cargo Handling Equipment)

Is there a fleet committed to using installed infrastructure (own/partnership)

Yes

Name of Fleet/Business

County of San Bernardino, Fleet Management Department

Does this Fleet/Business use vehicles for "Goods Movement"

Yes

Charging Station/Equipment Cost

Switchgear

\$68,422

Electric cabinets

0

Electrical panels

0

Metering system

0

Data Logger

0

Networking equipment

\$23,040

Transformer

0

Solar panels

\$5,508,409

Energy storage system

\$1,800,000

Cables, conduits and other electrical parts

\$148,751

Application Funding Details

Total Amount Requested from SCAQMD

1400000

Total Amount to be paid by Applicant

1000581

Total cost of project

2400581