

Charging infrastructure for electric trucks and buses

ELEVATING CLEAN TRANSPORTATION AND CLEAN AIR



Approximately 41% of California's greenhouse gas emissions come from transportation. In San Diego, that percentage is even higher – about 50%. Transportation, especially trucks that run on diesel, is also a major source of air pollution. The American Lung Association's "State of the Air" report gives the San Diego region an "F."

Medium-duty/heavy-duty electric vehicle infrastructure program

As part of our commitment to clean transportation and clean air, we've submitted a proposal to the California Public Utilities Commission (CPUC) to build charging stations for about 3,100 medium-duty/heavy-duty (MD/HD) electric vehicles (EVs) and equipment to run on electricity, rather than gasoline or diesel. Our goal is to make it easier for commercial and industrial businesses to switch over to zero-emission transportation, without range anxiety. Range anxiety – considered a key barrier to EV adoption – is the fear of running out of battery power before getting to your destination or the next charging point.

Advances in technology have made electric trucks, school and transit buses, forklifts and refrigerated trailers a reality. Our proposed program, if approved by the CPUC, will provide charging infrastructure for both on-road vehicles and support equipment, helping California meet its ambitious climate action goals.

Program highlights include:

- Charging equipment and electric system upgrades to support approximately 3,100 electric MD/HD vehicles and equipment.
- A five-year effort to engage the business sector and support their efforts to help move them to zero-emission vehicles.
- A focus on reducing emissions in disadvantaged communities burdened with pollution, health and safety concerns.



Improved charging infrastructure will help get more clean vehicles, like public transit buses, on the road.

- Customer choice of charging station ownership.
- An innovative vehicle to grid (V2G) pilot program to support local schools and the electric grid. Ten electric school buses will use their on-board batteries to discharge excess energy to the grid (i.e. operating like a mobile battery) during peak demand hours.

Accelerating clean transportation

SDG&E's program supports Governor Brown and California Senate Bill 350 goals to reduce greenhouse gas emissions by speeding up the adoption of zero-emission vehicles. The governor has set a goal of 5-million zero-emission vehicles on California's roads by 2030. The San Diego region's share is 500,000 zero-emission vehicles. Currently, the region has about 30,000 EVs on the road.

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To make the widespread adoption of EVs possible, it's important for charging infrastructure to be easily accessible. With our track record in undertaking major capital projects, SDG&E is well-positioned to build the infrastructure necessary to support the growing number of EVs and equipment that are expected to plug into the grid in the coming years.

Electric infrastructure installation and maintenance isn't something most businesses would undertake, so many prefer to have SDG&E handle the work. By assuming construction, operation and maintenance responsibilities for EV charging infrastructure, our proposed program and expertise will help accelerate transportation electrification among key sectors in our region.

Creating healthier communities

Air pollution impacts everyone, but it especially impacts low-income and minority communities which are more likely to be located near busy roadways, shipping ports, rail yards, and warehouses. These disadvantaged communities suffer disproportionately from the effects of air pollution, which include higher incidences of asthma and other health conditions. Our program will help alleviate air pollution from diesel vehicles in these communities. EVs emit zero tailpipe emissions and help create cleaner air and healthier communities.



EVs emit zero tailpipe emissions and help create cleaner air and ultimately healthier communities.

Local job creation and economic benefits

SDG&E's Clean Transportation programs help support and create local jobs and provide training opportunities for the regional workforce for future employment. The MD/HD program will employ trained and skilled workers to install the charging equipment throughout our service area.