

# Sacramento Area Zero Emission Vehicle Deployment Strategy

## *Putting the region on the path to sustainable transportation energy*

- 600 new EV buses to serve the region
- 5 new charging plazas for EV trucks and other zero emissions freight vehicles
- 52 eMobility hubs
- New green tech jobs



Sacramento



SACRAMENTO METROPOLITAN



## Sacramento region zero emission vehicle deployment strategy

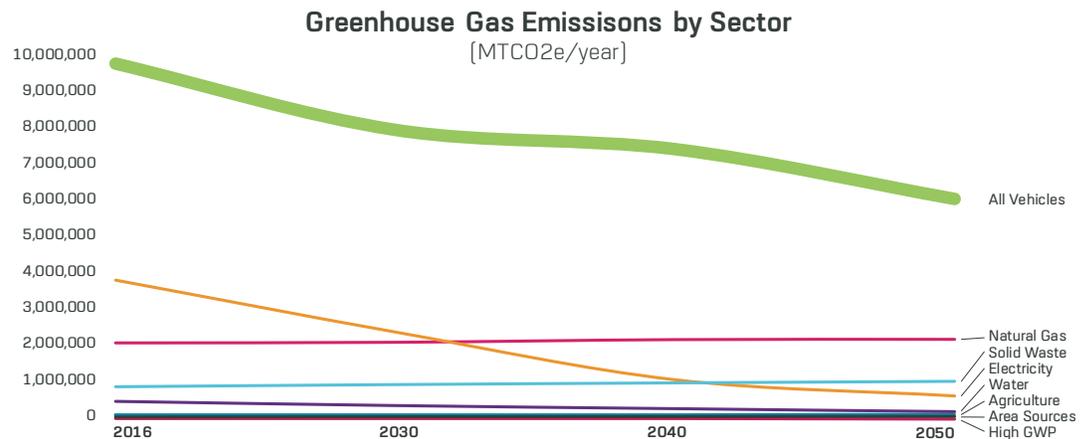
### Region suffers from some of the worst air quality in the nation

Unfortunately, the Sacramento Region suffers from some of the worst air quality in the nation, ranking 6<sup>th</sup> by the American Lung Association for worst ozone and 10<sup>th</sup> for worst particulate matter pollution. Both ozone and particulate matter cause lung damage and other adverse health effects. Both are primarily caused by transportation emissions with 67 percent of the ozone causing emissions in Sacramento come from on-road and other mobile sources.

### Four-agency partnership already making progress at moving toward ZEV future

Based on the need to improve air quality, reduce greenhouse gases, abate exposure to toxics, adapt to a warming planet, and promote efficient mobility, the Sacramento Metropolitan Air Quality Management District, Sacramento Area Council of Governments, Sacramento Regional Transit and the Sacramento Municipal Utility District have been working together to create a regional zero

emission vehicle deployment strategy to help address these environmental concerns especially in under-resourced communities. The Sacramento Green Region Plan is focused on concentrating investment in electrification of the region's transportation fleet to demonstrate technologies and our region's interest in a zero emission transportation future. The plan prioritizes electrification in under-resourced communities, personal vehicles, shared ride vehicles, public and private transit, micro-transit and shuttles, and medium and heavy duty fleets. Complimentary programs and cooperation across the four agencies are already making progress at moving toward this future.



The new Causeway Connection service between Sacramento and Davis uses 12 electric buses



## Regional funding priorities

### Zero emission transit fleet conversion and refueling infrastructure - \$540M

The Sacramento region is serviced by a network of transit agencies that are located in both Sacramento and the surrounding counties. To support both a reduction in emissions and vehicle miles traveled these fleets need to transition to zero emission fuels. In addition to the buses themselves, a regional refueling facility



is needed to supply the commute operations for these buses. To support this effort, collectively we would transition over 600 transit buses to zero emission fuels, and strategically locate at least five charging facilities throughout the region. Preliminary actions are already in progress with over 20 electric buses having already been

deployed along with the first charging station. Additional funding would support vehicle transition and deployment of the refueling facilities to support this strategy and promote a long-term ZEV plan inclusive of both battery and fuel cell technologies powered by renewable electricity and hydrogen.

### Zero emission goods movement, and medium and heavy duty fleet transition - \$100M

Sacramento sits at the intersection of Interstate 5, Interstate 80 and State Highway 99 which represents all the major goods movement highways in Northern California. Based

on a study from the West Coast Clean Transportation Corridor Initiative, five major zero emission truck charging plazas would be needed to support the region.

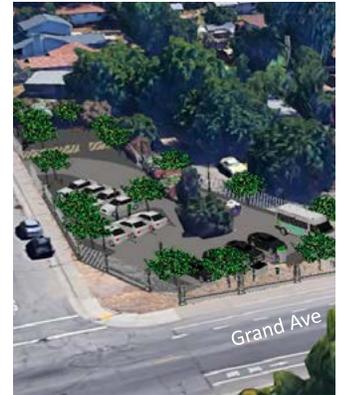
Prospective locations were already identified in the study and input from the electric utilities supported the locations.



### Charging stations and clean transportation options for under resources communities - \$182M

To support zero emission vehicles in under-resourced communities projects several joint projects have already been initiated including eMobility hubs in partnership with community based organizations and deployment of both electric share cars and charging infrastructure in multi-family housing (MFH) locations. Additional

eMobility hubs have been planned to create a network in our region for underserved communities. This initiative will add charging technologies, vehicle deployment options, innovative community services and educational opportunities to provide transportation equity to these underserved communities. To complete the network of eMobility hubs that can be used by both residents and micro-shuttles, 27 eMobility hubs are needed in Sacramento and additional 25 are needed across the region to support mobility needs. In addition to transportation support these eMobility hubs will be designed with battery energy storage and microgrid capability to maintain charging operations during power outages and address resiliency needs in these critical areas.



Locating eMobility hubs in areas targeted by the region for infill growth opportunities and comprehensive investments, such as transportation, sewer, water and power networks, will increase hub demand and shift trips away from traditional single occupancy vehicles. 23 cities and counties in our region have committed to specific targeted growth areas and lowering barriers to development, priming opportunities for additional eMobility hubs.

### Under-resourced community workforce development - \$145M

To support all the transition to zero emission fuels lots of jobs will be created. Sacramento has already launched a workforce development program the California Mobility Center to recruit under-resourced community members



toward the high paying jobs that will be created in this space. Additional effort with regard to outreach and programs with community based organizations, junior colleges, vocational schools and high schools is needed to create a pipeline of workers to

support all these clean transportation technologies. This is a once in a generation opportunity to harness new technology to create jobs in underserved communities and Sacramento is ready to strike gold again.



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