

**CLERK OF THE BOARD OF SUPERVISORS
EXHIBIT/DOCUMENT LOG**

MEETING DATE & AGENDA NO. 10/16/19 #2

STAFF DOCUMENTS (Numerical)

No.	Presented by:	Description:
1	Staff	power point
2		
3		
4		

PUBLIC DOCUMENTS (Alphabetical)

No.	Presented by:	Description:
A		
B		
C		
D		
E		
F		
G		

OFFICIAL RECORD
Clerk of the Board of Supervisors
County of San Diego

Exhibit No. 1

Meeting Date: 10/16/19 Agenda No. 2

Presented by: Staff

A collage of images related to electric vehicles, including a parking sign, charging stations, and various cars.



A collage of images related to electric vehicles, including a parking sign, charging stations, and various cars.



APRIL 10TH BOARD OF SUPERVISORS DIRECTION

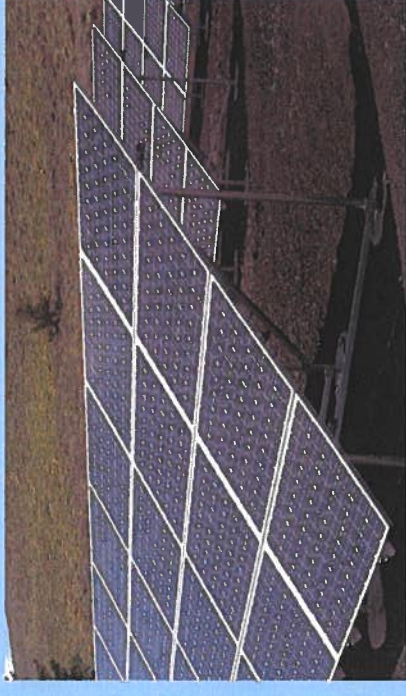
Develop an electric vehicle (EV) Roadmap that:

- **Builds upon related local studies and progress to date**
- **Describes strategies to increase EV ownership and use**
- **Increases installation of EV charging infrastructure**
- **Identifies grant opportunities to support recommendations**

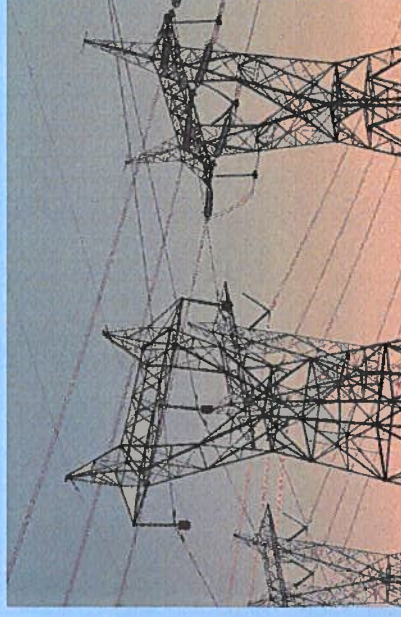
VEHICLE ELECTRIFICATION CONTEXT

Greenhouse
Gas Emissions

- Vehicle electrification decreases GHG emissions
- Additionally, EVs will be powered by renewable electricity



- EVs produce fewer smog-forming pollutants than conventional fossil-fuel vehicles and improve air quality
- Electrification benefits communities burdened by air pollution



Air Quality

CALIFORNIA ZEV GOALS



Existing	2025 Goal	2030 Goal
626,824	1,500,000	5,000,000

-



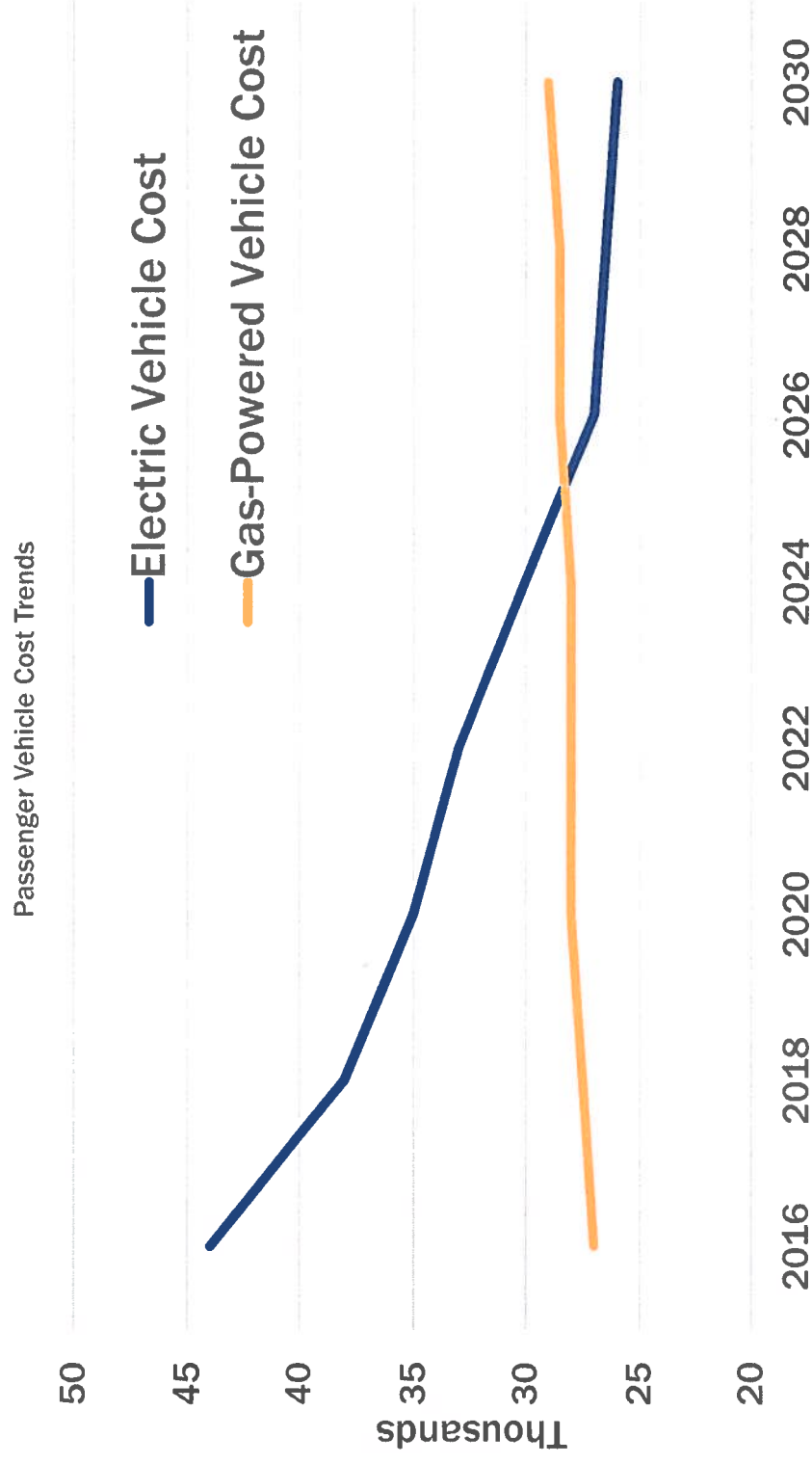
Existing	2025 Goal	2030 Goal
35,000	136,500	449,400
1,741	6,600	19,700



Existing	2025 Goal	2030 Goal
5,400	21,000	69,100
76	1,000	3,000

Unincorporated
County

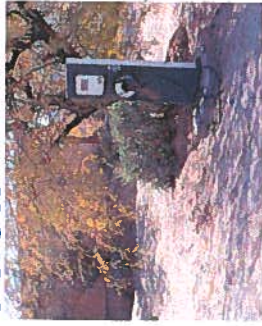
VEHICLE ELECTRIFICATION TRENDS



Source: Bloomberg

THE COUNTY'S EV ROADMAP

**Infrastructure
Installation**



**Incentives &
Grants**



**Local & Regional
Partnerships**



**Education &
Outreach**



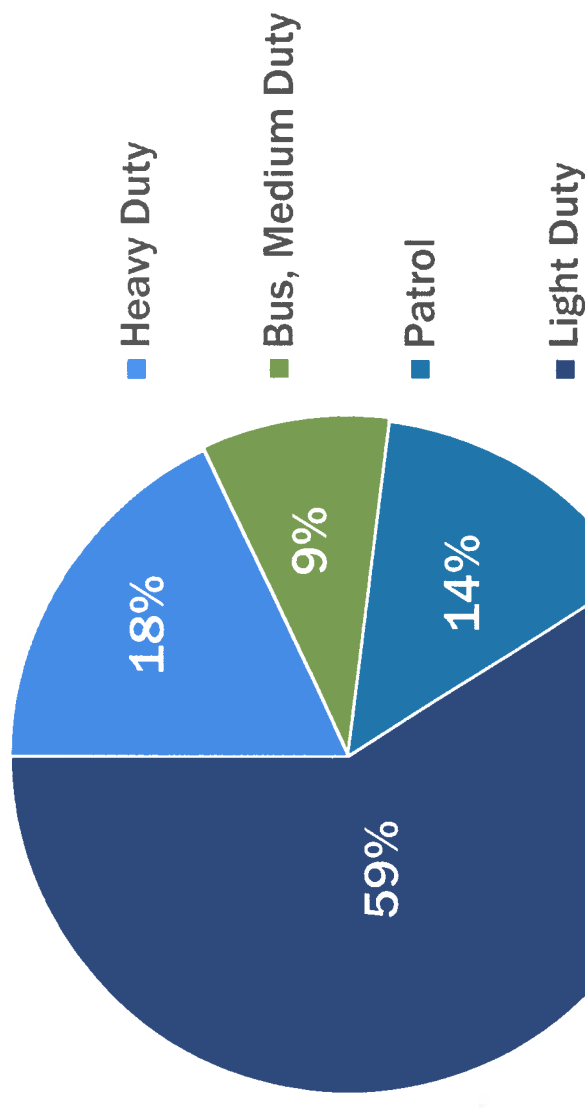
COUNTY OPERATIONS ROADMAP GOALS

Goal 1

Further Reduce the County's Fleet of Gas-Powered Vehicles

- **County Fleet: ~4,500 vehicles**
- **GHG emissions reduction targets:**
 - 10% reduction by 2020
 - 20% reduction by 2030
- **EV conversion goals:**
 - 50 EVs in service by 2020
 - 250 EVs in service by 2025
 - Currently 40 EVs in service, 10 on order

Fleet Composition



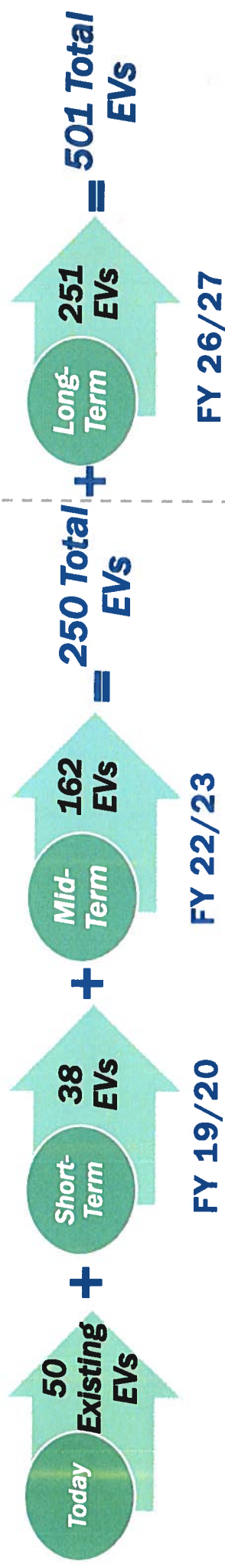
COUNTY OPERATIONS ROADMAP GOALS

Goal 1

Further Reduce the County's Fleet of Gas-Powered Vehicles

Green Fleet Action Plan Goal

Additional Conversions



COUNTY OPERATIONS ROADMAP GOALS

Goal 1

Further Reduce the County's Fleet of Gas-Powered Vehicles

RECOMMENDATION A:
Amend Board Policies F-22, H-1, and H-2 to require new light-duty purchases to be EV when feasible.

- Short-Term (1 Year)
- OTO: \$0 additional funds to amend Policies. Policy implementation could incur costs.

RECOMMENDATION B:
Convert 250 County Fleet Gas Powered Vehicles to EVs by 2025.

- Mid-Term (2-4 Years)
- OTO: FY 20-21: \$1.85M
FY 21-22: \$4.05M
FY 22-23: \$2.05M
Total: \$7.95M
- Ongoing: 1 FTE starting FY 20/21, \$0.148M

RECOMMENDATION C:
Convert an Additional 251 County Fleet gas-powered vehicles to EVS for a total of 501.

- Long-Term (>5 Years)
- OTO: FY 23-24: \$4.39M
FY 24-25: \$3.53M
FY 25-26: \$3.52M
FY 26-27: \$1.70M
Total: \$13.14M

RECOMMENDATION D:
By 2025 update goals to reflect medium- and heavy-duty fleet goals and explore additional light duty fleet conversion.

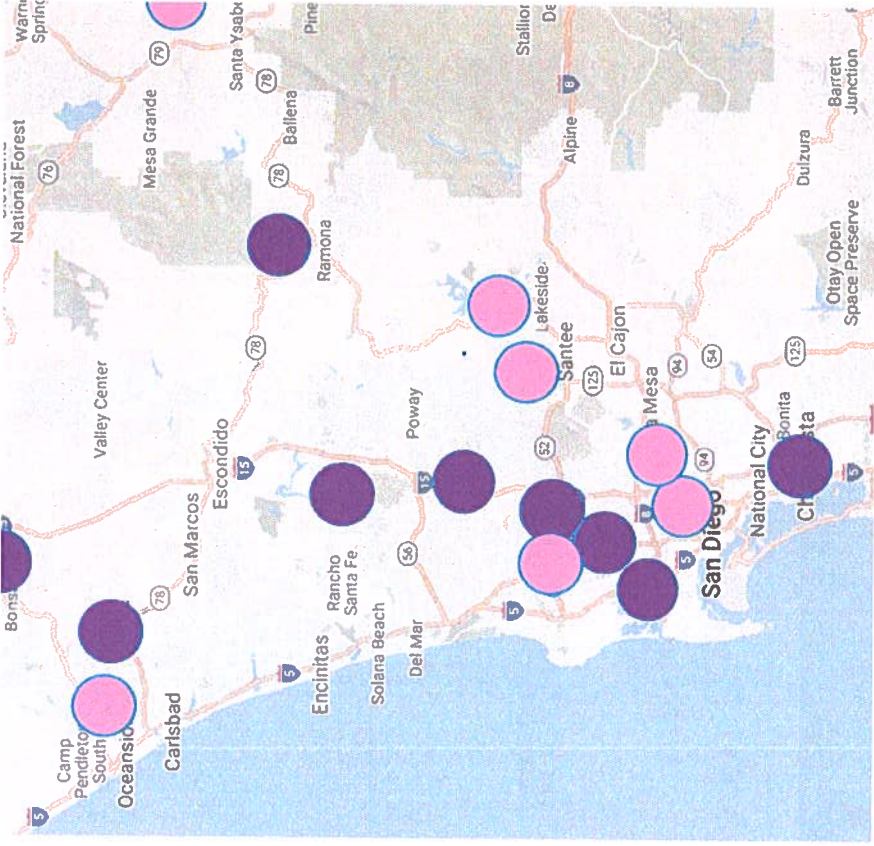
- Long-Term (>5 Year)
- OTO: FY 20-21: \$0.05M

COUNTY OPERATIONS ROADMAP GOALS

Goal 2

37

63



COUNTY OPERATIONS ROADMAP GOALS

Goal 2

Install EV Charging Stations at Public Locations in County Facilities and in the Unincorporated County

RECOMMENDATION A:

Amend Board Policy G-15 to require all new County facilities to include charging infrastructure for public and employees.

- Short-Term (1 Year)
- OTO: \$0 additional funds to amend Policies. Policy implementation could incur costs.

RECOMMENDATION B:

Install an additional 63 publicly accessible EV charging stations for a total of 100 chargers at County facilities.

- Short-Term (1 Year)
- OTO: FY 20-21: \$760,000

RECOMMENDATION C:

Prepare an EV charger site assessment for County Facilities and the unincorporated area and install 2,040 chargers.

- Long-Term (>5 Years)
- OTO: \$0 additional funds to prepare assessment. Installation of chargers will incur costs.

COUNTY OPERATIONS ROADMAP GOALS

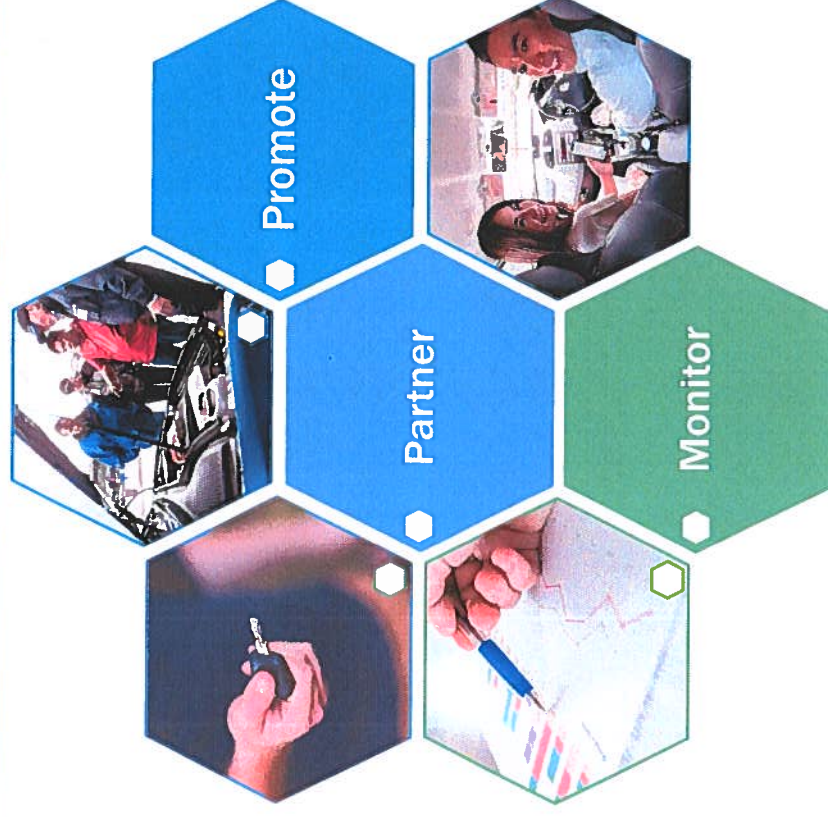
Goal 3

Promote and Incentivize County Employee EV Ownership

RECOMMENDATION:

Develop partnerships with banks, credit unions, and dealerships to extend lending and pricing benefits to County employees.

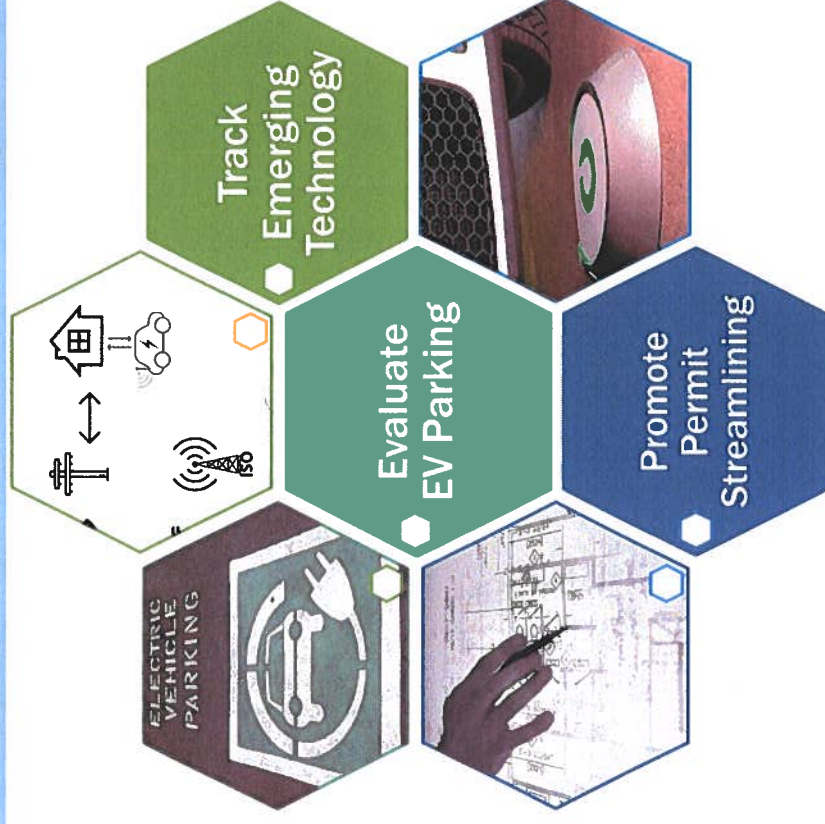
- Mid-Term (2-4 Years)
- OTO: \$0 additional funds to develop partnerships. Implementation could incur costs.



UNINCORPORATED AREA ROADMAP GOALS

Goal 4

Incentivize and/or Require EV Charging Infrastructure in New and Existing Private Multi-Family Residential and/or Non-Residential Development



RECOMMENDATION:

Prepare cost/benefit analysis of options to incentivize and/or require EV charger installations in the unincorporated area

- Mid-Term (2-4 Years)
- OTO: \$0 additional funds to prepare analysis. Implementation of incentives/requirements could incur costs.

UNINCORPORATED AREA ROADMAP GOALS

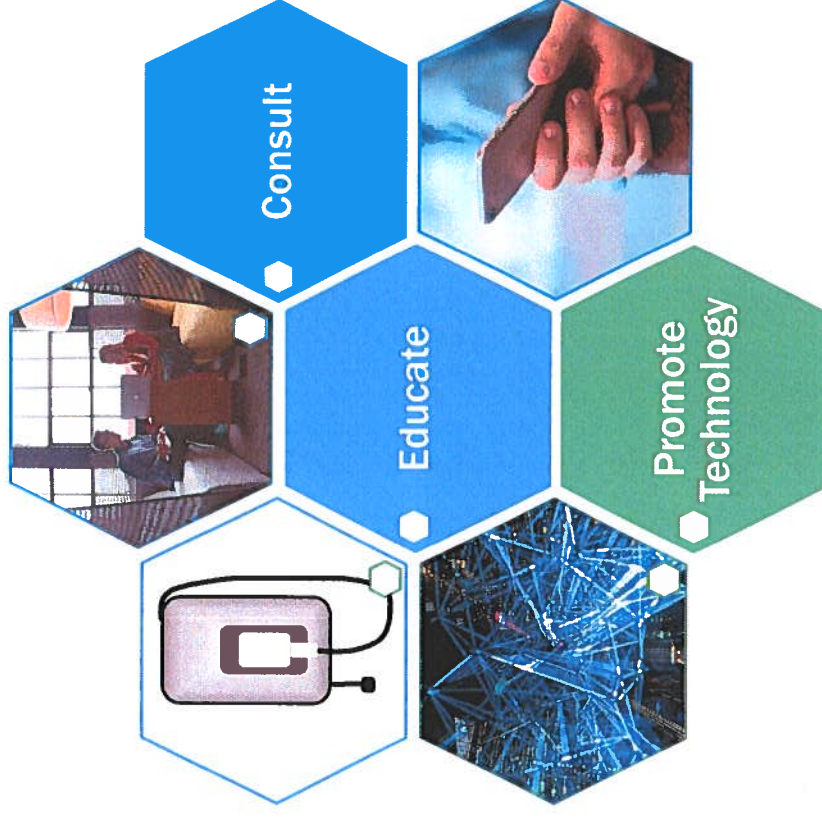
Goal 5

Fund EV Expert/Consumer Advocate as a Regional Resource

RECOMMENDATION:

Identify regional partners and cost sharing opportunities to fund a regional EV expert on an ongoing basis.

- Ongoing
- Ongoing: \$25,000 annually starting FY 20/21.



UNINCORPORATED AREA ROADMAP GOALS

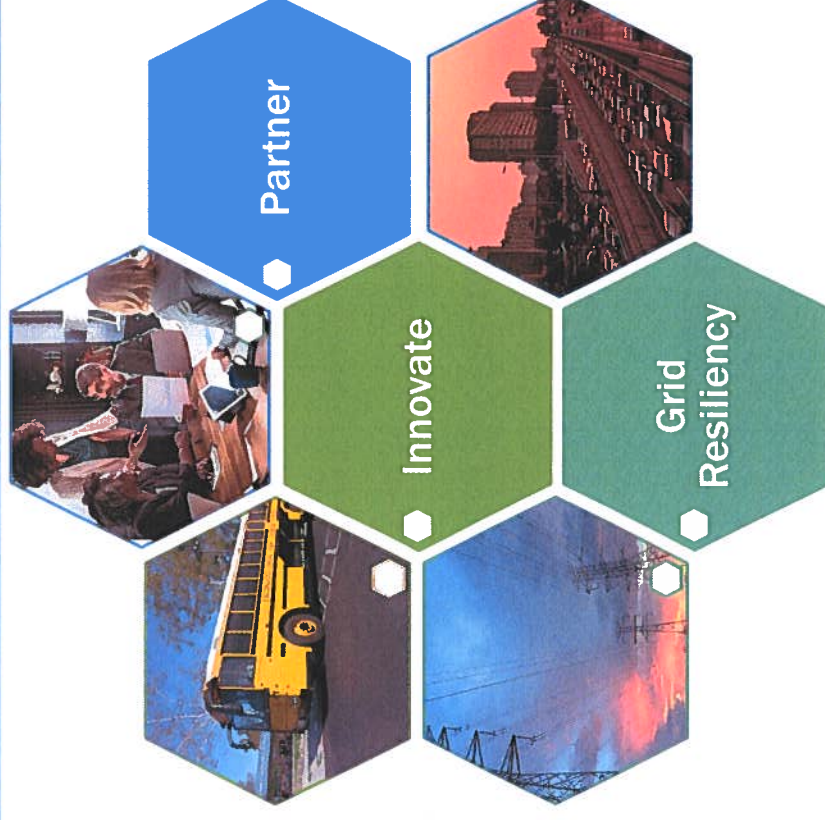
Goal 6

Collaborate with Regional Partners to Support Public and Private Fleet Electrification

RECOMMENDATION:

Provide fleet electrification technical support to convert regional fleets on an ongoing basis.

- Ongoing
- OTO: \$0 additional funds to collaborate with partners. Participation in regional partnerships could have associated costs.

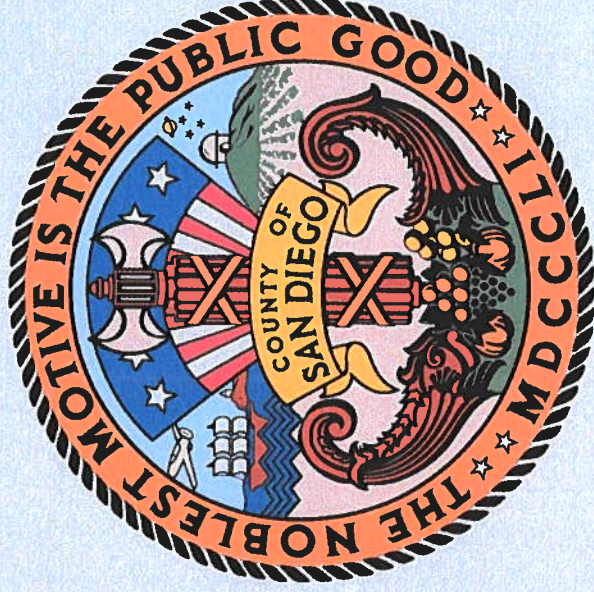


REQUESTED BOARD DIRECTION

Staff recommends the Board take the following actions:

- Receive the report on Electric Vehicle Roadmap (EV Roadmap)
- Consider programmatic options and provide direction for six recommended goals contained in the EV Roadmap report
- Find that the Board has considered the information contained in the Final Supplemental EIR dated February 14, 2018 and Addendum dated October 16, 2019
- Find that today's actions are exempt from CEQA consistent with Guidelines Section 15303 for Small Structures
- Direct staff to report back annually on Roadmap progress

ELECTRIC VEHICLE ROADMAP



BOARD OF SUPERVISORS

OCTOBER 16, 2019

AGENDA ITEM #2