

COUNTY OF SANTA BARBARA
GENERAL SERVICES

County of Santa Barbara

Zero-Emission Vehicle Policy And Fleet Electrification Update



Policy is Intended to:

- ✓ Support County Climate Action Plan.
- ✓ Improve air quality.
- ✓ Replace end of life internal combustion engine vehicles with zero-emission, all-electric non-public safety sedans, SUVs, light duty pickups, and vans.
- ✓ First option priority for the County fleet even if comparable fossil fuel vehicles cost less to purchase.

General Services' Vehicle Operations will:

Seek rebates and grants to purchase ZEVs and charging infrastructure.

Implement the installation of charging infrastructure to support the annual purchase of ZEVs.

Test, evaluate, and, when feasible, acquire ZEVs for medium and heavy-duty vehicle classes.

150 to 200 existing combustion engine light duty vehicles in the County fleet will reach end of life over the next 2-5 years.

Exemptions to purchasing a ZEV include:

- 1) No viable ZEV option is available for purchase in the current vehicle market.
- 2) ZEV doesn't meet functional operational requirements, such as:
 - a) Rated towing capacity or payload;
 - b) Maximum required daily mileage or operating hours;
 - c) Specialized functionality or utilization needed;
 - d) Necessary emergency vehicle capabilities or emergency response functions. Will work with Public Safety partners to explore options.
- 3) No fueling infrastructure access for the ZEV is available or planned to be completed within 12 months

- **Exemption must be authorized by Vehicle Ops and CEO**
- **Options if an exemption to purchasing a ZEV is requested, Department options are as follows:**

- 1** Defer purchasing a new vehicle if a ZEV market option will be available and/or infrastructure will be installed in less than two years.
- 2** Lease or purchase a plug-in electric hybrid vehicle if available in the market.
- 3** Lease or purchase a hybrid-electric fuel vehicle if available in the market.
- 4** Lease or purchase an internal combustion engine powered vehicle.

EV Charging Infrastructure

- 1) General Services Vehicle Operations and Capital Projects Divisions to assess:
 - a) Optimal locations of EV charging stations;
 - b) Optimal type of charger;
 - c) Ability to share chargers with other vehicles;
 - d) Charger funding and financing options; and
 - e) Anticipated costs and timelines to install an EV charger in support of the vehicle.

EV Charging Station Infrastructure Replacement Fund established to fund the costs to replace EV chargers and infrastructure at end of life. Funded with revenues collected from the public or employees who utilize the EV chargers.



State of the Electric Vehicle Program



State of the Electric Vehicle Program

Electric Vehicles

Only 4% of North American car production is currently electric.

The following models are, or projected to be coming, on the market over the next few years and will be considered for County purchase:

EV Sedans:



Chevy Bolt
(60 currently
in the fleet)



Nissan Leaf
(30 on order
for the fleet)



Hyundai
Kona Electric

State of the Electric Vehicle Program

Electric Pickup Trucks:



Ford F-150
Lightning
(Expected:
2023)
currently
two reserved



Chevrolet
Silverado EV
(Expected:
2023)
currently
two reserved



GMC Sierra
EV
(Expected:
2023-24)



Ram 1500 EV
(Expected:
2024)

Electric SUVs:



Ford
Explorer EV
(Expected:
2025)



Chevrolet
Blazer EV
(Expected:
2024)



Chevrolet
Equinox EV
(Expected:
Late 2023)

Electric Vans:



Ford E-Transit
(Delivery:
2023)



Nissan
Townstar



Chrysler
Pacifica Electric
(Expected:
2025)

Sites and quantities determined after surveying Departments' needs.

EV Charging Infrastructure

Currently the County has 127 EV chargers installed at 13 sites

| Existing Locations | Existing Level 2 Chargers as of Oct. 2022 | Existing DC Fast Chargers) |
|---|---|-----------------------------|
| Foster Road Yard – Santa Maria Fleet Garage | 4 | |
| Foster Road Public Works | 2 | |
| Betteravia Campus | 4 | |
| Public Health Dept. - Lompoc | 22 | |
| Santa Barbara Admin Parking Lot | 30 | 2 |
| Santa Barbara APCD - Calle Real | 6 | |
| South County Jail - Calle Real | 2 | |
| Public Health – Calle Real | 29 | 4 |
| Social Services – Calle Real | 16 | |
| Santa Barbara GS Road Yard - Calle Real | 4 | |
| Isla Vista Solar Parking Lot - Embarcadero | 4 | |
| Lookout Park along the 101 | 2 | |
| Rincon County Park along the 101 | 2 | |
| Total | 121 | 6 |

EV Charging Infrastructure

Plan to install another 122 EV chargers at existing sites

| Existing Locations | Planned Additional Level 2 Chargers 2-4 Year Outlook |
|---|--|
| Foster Road Yard – Santa Maria Fleet Garage | 10 |
| Foster Road Public Works | 20 |
| Betteravia Campus | 60 |
| Public Health Dept. - Lompoc | |
| Santa Barbara Admin Parking Lot | |
| Santa Barbara APCD - Calle Real | |
| South County Jail - Calle Real | 6 |
| Public Health – Calle Real | 20 |
| Social Services – Calle Real | |
| Santa Barbara GS Road Yard - Calle Real | 6 |
| Isla Vista Solar Parking Lot - Embarcadero | |
| Lookout Park along the 101 | |
| Rincon County Park along the 101 | |
| Total | 122 |



State of the Electric Vehicle Program

EV Charging Infrastructure

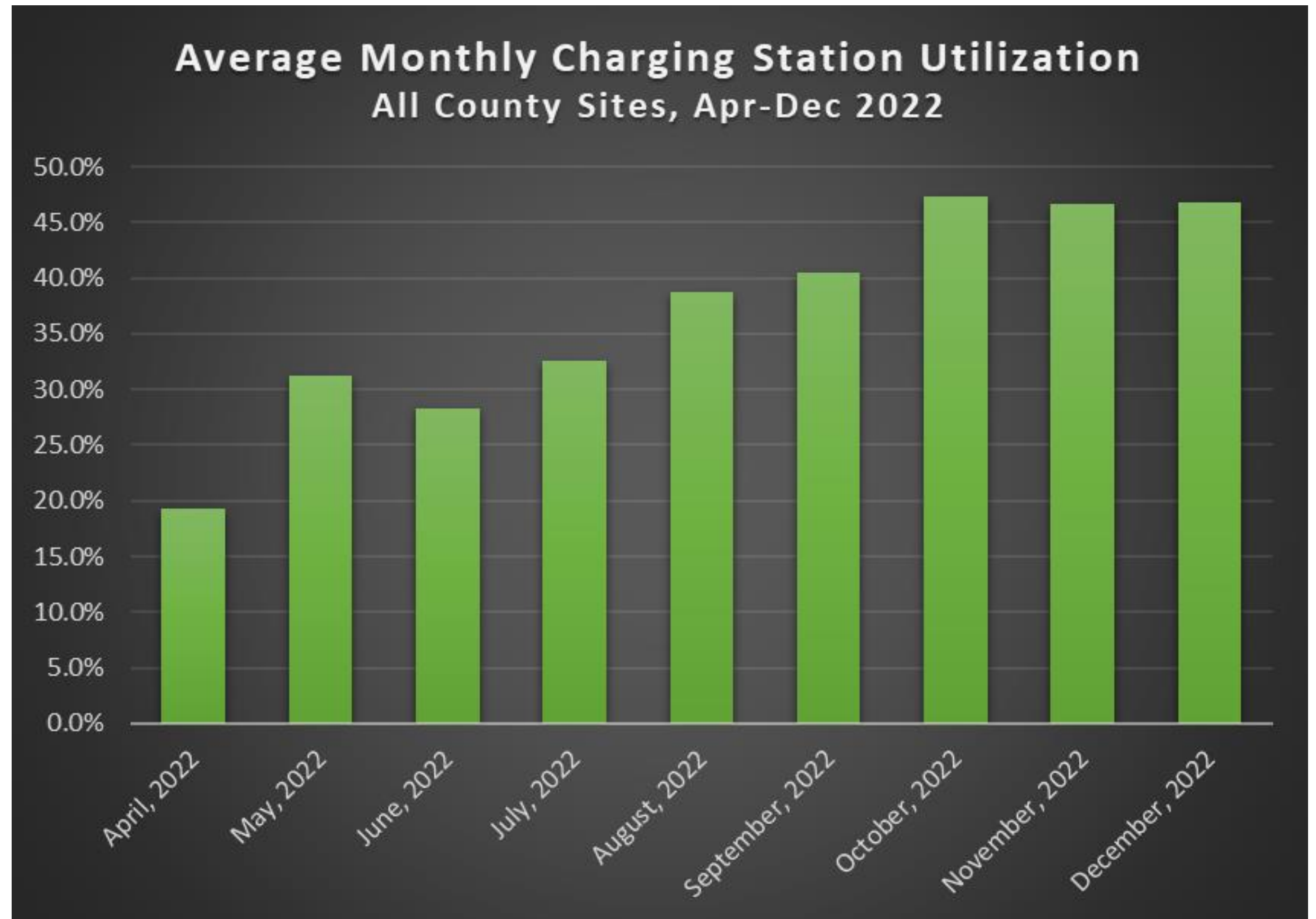
Plan to install another 44 EV chargers installed at new sites

| Planned New Locations | Planned Additional Level 2 Chargers |
|------------------------------------|-------------------------------------|
| Calle Real (Public Works Yard) | 4 |
| Foster Road Animal Shelter | 2 |
| Fire Sta 27 New Cuyama | 2 |
| County Emergency Operations Center | 6 |
| New Probation Headquarters | 14 |
| SB County - Northern Branch Jail | 10 |
| Lompoc Road Yard | 6 |
| Total | 44 |



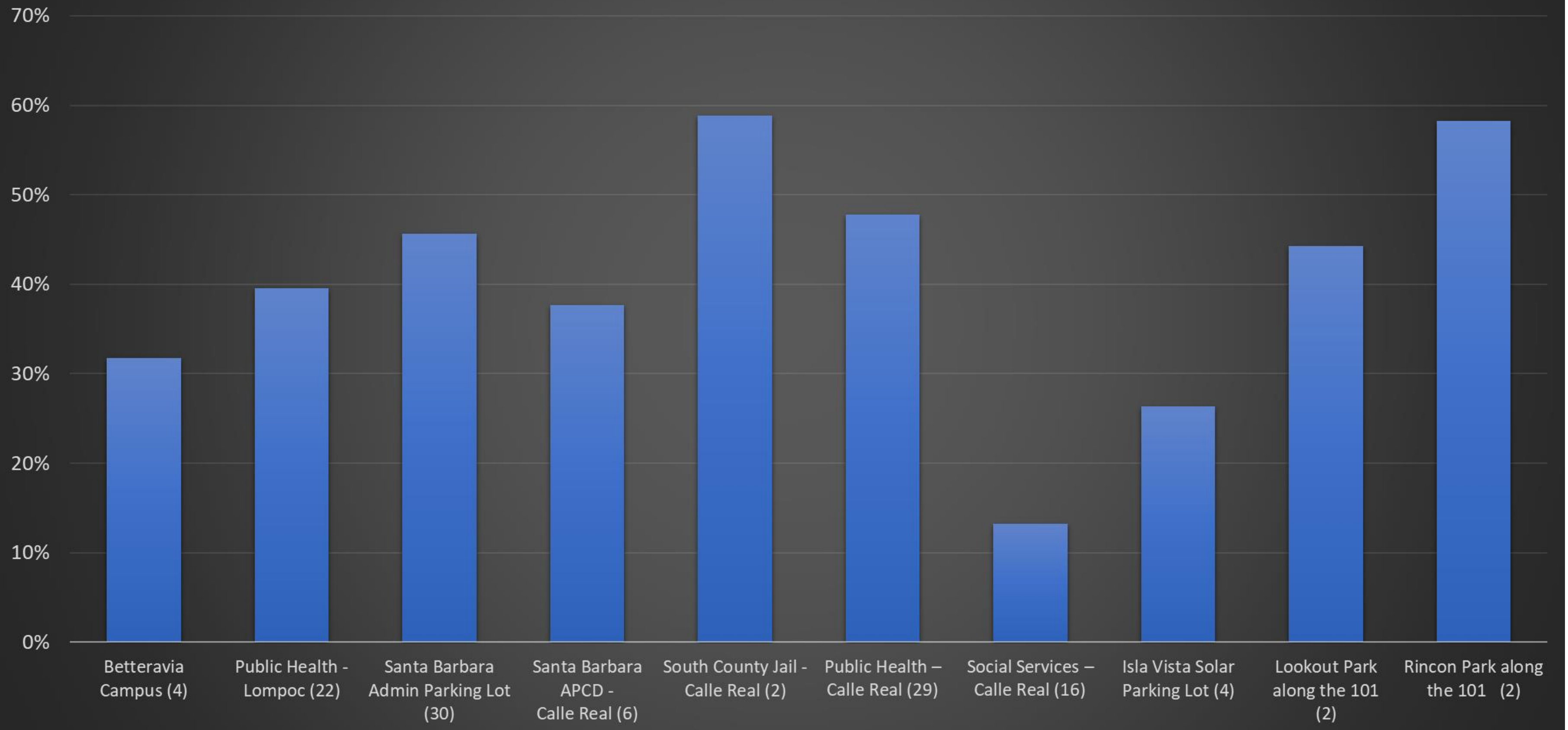
Metrics – Existing PowerFlex Chargers

- EV charging by both the public, employees, and County Fleet vehicles is increasing every month.
- Utilization has increased steadily since all chargers have come on line, doubling from 20% in April, 2022 to 47% in December.



State of the Electric Vehicle Program

Average EV Charging Station Utilization
By Site for the 9 month period April - December, 2022



Metrics – Existing PowerFlex Chargers

- In addition, green house gases have been avoided and gasoline usage is lower.

| January - November 2022 | |
|-------------------------|-----------------|
| Pounds GHG avoided | 246,520 lbs |
| Gallons gas avoided | 12,582 Gasoline |
| Electric miles provided | 280,958 miles |



Electric Charging Infrastructure - Funding

Rebates and Grants

- Central Coast Community Energy
- California Electric Vehicle Infrastructure Project (CALeVIP)
- Air Pollution Control District
- All future infrastructure grant/rebate programs will also be pursued

Board allocated monies.

- During the FY 22-23 Budget year, the Board allocated \$400,000 for this purpose.



- a) Receive and file the update on the County's transition from internal combustion gasoline engine light duty vehicles to electric vehicles in the County fleet and the associated charging infrastructure; and
- b) Approve the Zero Emission Vehicle Policy; and
- c) Determine that the above action is not a project under the California Environmental Quality Act (CEQA) pursuant to CEQA Guidelines Sections 15378.

Questions?



Electric Charging Infrastructure - Funding

- Currently have the following available funding in place this FY:
 - Next Project – **Betteravia Phase 1** (20 Chargers Spring 2023)
 - CALeVIP Rebate - \$35,000
 - APCD Grant - \$75,000
 - CCCE Rebate - \$90,000
 - **\$200,000**
 - **Betteravia Phase 2** (40 Chargers)
 - Board Allocated Funding - \$400,000
 - Remaining funds rolled forward from initial installation project - \$118,000



Electric Charging Infrastructure - Funding

- Additional funding required for future projects

- FY23-24 \$500,000- Santa Barbara GS Road Yard - Calle Real; South County Jail - Calle Real; Foster Road Public Works; Fire Sta 27 New Cuyama; Lompoc Road Yard; PW Yard – Calle Real)
- FY24-25 \$480,000- New Probation HQ; Foster Road Animal Shelter; EOC Northern Branch Jail
- FY25-26 \$100,000- To be Determined

Will continue to seek grants and rebates.

