

The San Joaquin Valley Clean Transportation Center



By Joseph Oldham,
Director

CALSTART San Joaquin Valley Clean Transportation Center
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Goals

- To enable significant reductions in transportation-related emissions in the San Joaquin Valley.
- Increase acceptance and deployment of light, medium, and heavy duty Alternative Fuel Vehicles in the SJV.
- Address barriers that hinder widespread deployment of on-road and off-road AFVs in the region.

Local Office and Staff

San Joaquin Valley Clean Transportation Center office is located in the restored 1936 Terminal Building at Fresno Chandler Executive Airport two miles west of downtown Fresno. Center staff have access to conference room and restaurant in the building for meetings with clients.



Primary Focus Areas for Center

- Promote EVs through:
 - Increased workplace and public access charger deployment
 - Innovative transit projects using electric buses
 - Developing new projects that produce a “wow” factor
 - Off-grid solar EV chargers, such as Envision Solar EV ARCs and “Solar Trees”
 - First deployment of electric aircraft for flight training in the United States
- Assisting fleets interested in alternative fuels
 - EVs and natural gas vehicles

Promoting EV Chargers Through Existing Programs

- SJVCTC has partnered with the City of Fresno Business Energy Tune-up Program to promote EV charger deployment as part of their ASHRAE Level 1 energy audit program for businesses in Fresno, Kings and Tulare Counties. The program is supported through PG&E with funding from the CPUC.
 - SJVCTC assists the business in getting incentive funding from the SJ Valley Air District Charge-up Program, organizes quotes from contractors, and provides assistance with selecting the right charger.
- Working closely with San Joaquin Valley EV Partnership, Project Clean Air, and San Joaquin Valley Clean Cities Coalition.



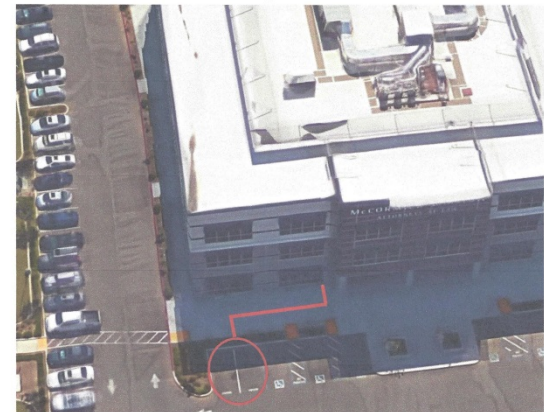
ECM 16: Electrical Vehicle Charging Station

Installing an electrical vehicle (EV) charging station assists in the following:

- Promote Sustainability Practices
- Promotes Employee Recruitment and Retention
- Demonstrates a Good Public Image
- Promotes Employee Satisfaction
- Attracts Customers

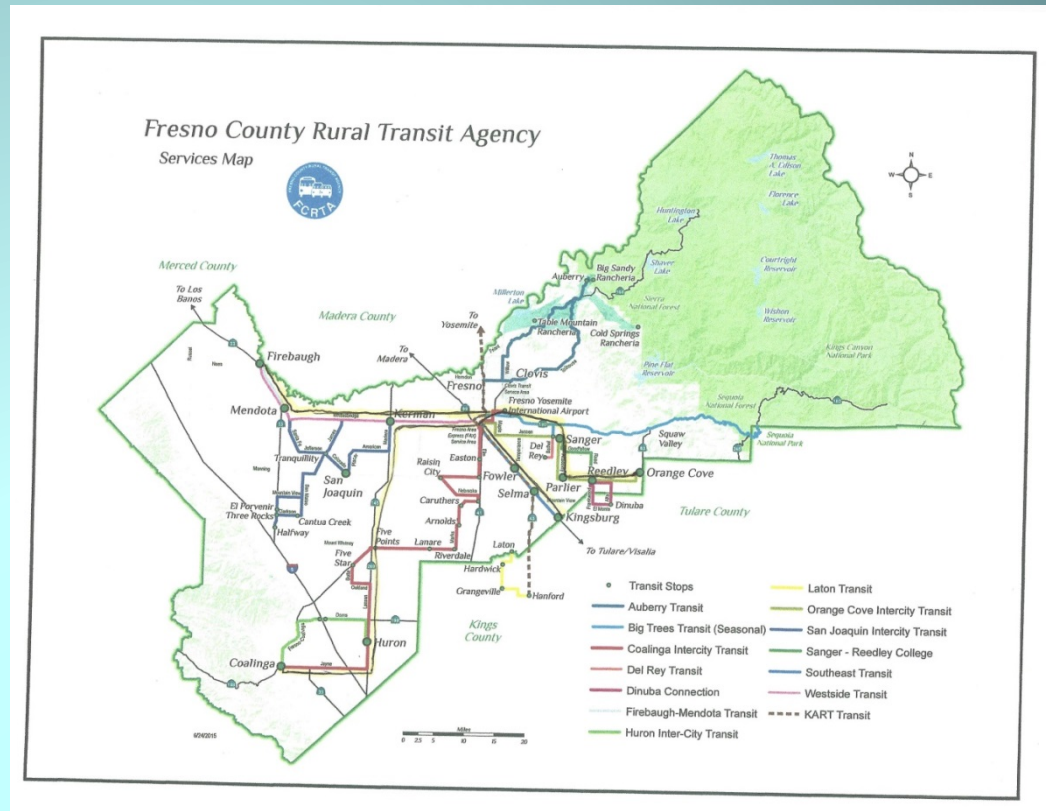
Figure 79 shows an aerial view of the site and a possible location for installing an EV charging station. The two spots circled in red could be potential EV charger parking spots. The red line represents the routing to the main switch board (MSB) location.

Figure 79
EV Charger Location



Assisting Transit Fleets with Electric Bus Deployment

Assisted Fresno County Rural Transit with grant proposal to deploy two (2) BYD 35 foot extended range electric buses on new bus/rail connector service in Fresno County using Envision Solar "Solar Trees" for off-grid charging.



Implement Innovative Projects for the Region



Worked with FCRTA to purchase and deploy thirteen (13) Envision Solar EV ARC solar powered EV charging stations in every rural city in Fresno County.

Worked with City of Reedley, City of Mendota, Reedley College, and Fresno Business Council to deploy the first production electric General Aviation aircraft in flight training operations in the United States. Project is developing the first network of airports in the U.S. to support electric aircraft operation. Project includes four aircraft and four charger locations at Fresno County airports.



Assist with Implementing ARB Funded Projects



Assist Valley transit and other agencies/companies that were awarded funding from ARB in deployment of EV chargers and vehicles.



Current Effort

- Organize and hold a second SJV Clean Transportation Summit at CSU, Fresno on March 14-15, 2018.
- Add local staff to help support grant funded project implementation.
- Continue work with regional stakeholders, such as Project Clean Air, Valley CAN, and San Joaquin Valley EV Partnership, to improve outreach and project development opportunities.
- Leverage innovative projects to build excitement about new clean transportation options.
- Continue to provide feedback to Valley Air District to enhance local incentive programs and increase participation.

Future Opportunities

- Integration of effort in support of SB350 to improve the efficiency of existing buildings, deploy renewable energy, and deploy electrified transportation. Example is current \$1.5 million EPIC grant in Fresno to accelerate deployment of Advanced Energy Communities.
- Develop Valley-centered solutions to facilitate commercial-scale renewable natural gas production in the San Joaquin Valley for both power and transportation use.

Questions?

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