

San Joaquin Valley Plug-in Electric Vehicle Coordinating Council

*Meeting #7
August 1, 2013*



San Joaquin Valley Plug-in Electric Vehicle Coordinating Council

Meeting #7 August 1, 2013 | 1:30 p.m. – 3:30 p.m.

Announcements and Public Comments

All

Summary of July 11, 2013 Meeting

CCSE

- ✓ Plans to Attract PEV Manufacturing, Production, Infrastructure, and Services of PEV Development in the Region
- ✓ Electric Vehicle International, EV manufacturer in Stockton, CA
- ✓ Regional Planning for Public EVSE Siting

Regional Planning for EVSE Siting

- ✓ UC Irvine's model for siting PEV infrastructure

Tim Brown, UCI

Promotion of PEVs in local fleets

SJV PEVCC Members & CCSE

- ✓ Electric Vehicle International, EV manufacturer in Stockton, CA
- ✓ Guide to Adopting PEVs in Local Fleets

Ricky Hanna, EVI

Renewable Energy in PEV Charging

SJV PEVCC Members & CCSE

- ✓ Solar Adoption and PEV Adoption
- ✓ Case Study: Lyons High School
- ✓ Renewable energy portfolio

Training and Education for Car Dealerships

SJV PEVCC Members & CCSE

- ✓ CVRP's webinars for dealers

Announcements & Public Comments

SJV PEVCC Meeting Summaries

✓ Download PDF at www.energycenter.org/pluginready

Includes:

- ✓ Detailed meeting notes
- ✓ Attendee list
- ✓ Links to resources

Attracting PEV Manufacturing, Production, Infrastructure, and Services of PEV development in Region

- ✓ Mike Britt, UPS, spoke about how the company conducted the largest deployment of electric delivery trucks in the industry

PEVCC Recommendation

- ✓ Document UPS case study and distribute to regional stakeholders

Public Agency EVSE Installations

- ✓ PEVCC member, Rob Lechner, presented on the City of Lodi's experience installing EVSE
- ✓ Sample request for proposal (RFP) for public agencies to use when soliciting for EVSE installations

PEVCC Recommendations

- ✓ Installing more EVSE aligns well with cities' Climate Action Plans
- ✓ It's important to note all possible liabilities in RFP process
- ✓ RFPs should request an ample number of recent projects from the EVSE vendor/bidder to act as a qualifier

Regional Planning for Public EVSE Siting

- ✓ Overview of the EVSE siting model developed by UC Irvine.

PEVCC Recommendation

- ✓ Interacting with the utility should be an important part of the EVSE siting process

Regional Plan for Public EVSE Siting

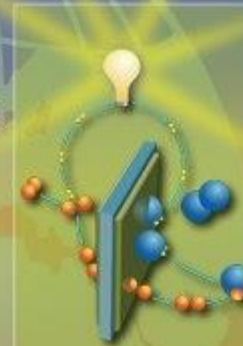
Dr. Tim Brown, UC Irvine

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***Advancing Clean and Efficient
Energy Technologies Worldwide***



Electric Vehicle International

Ricky Hanna, CEO



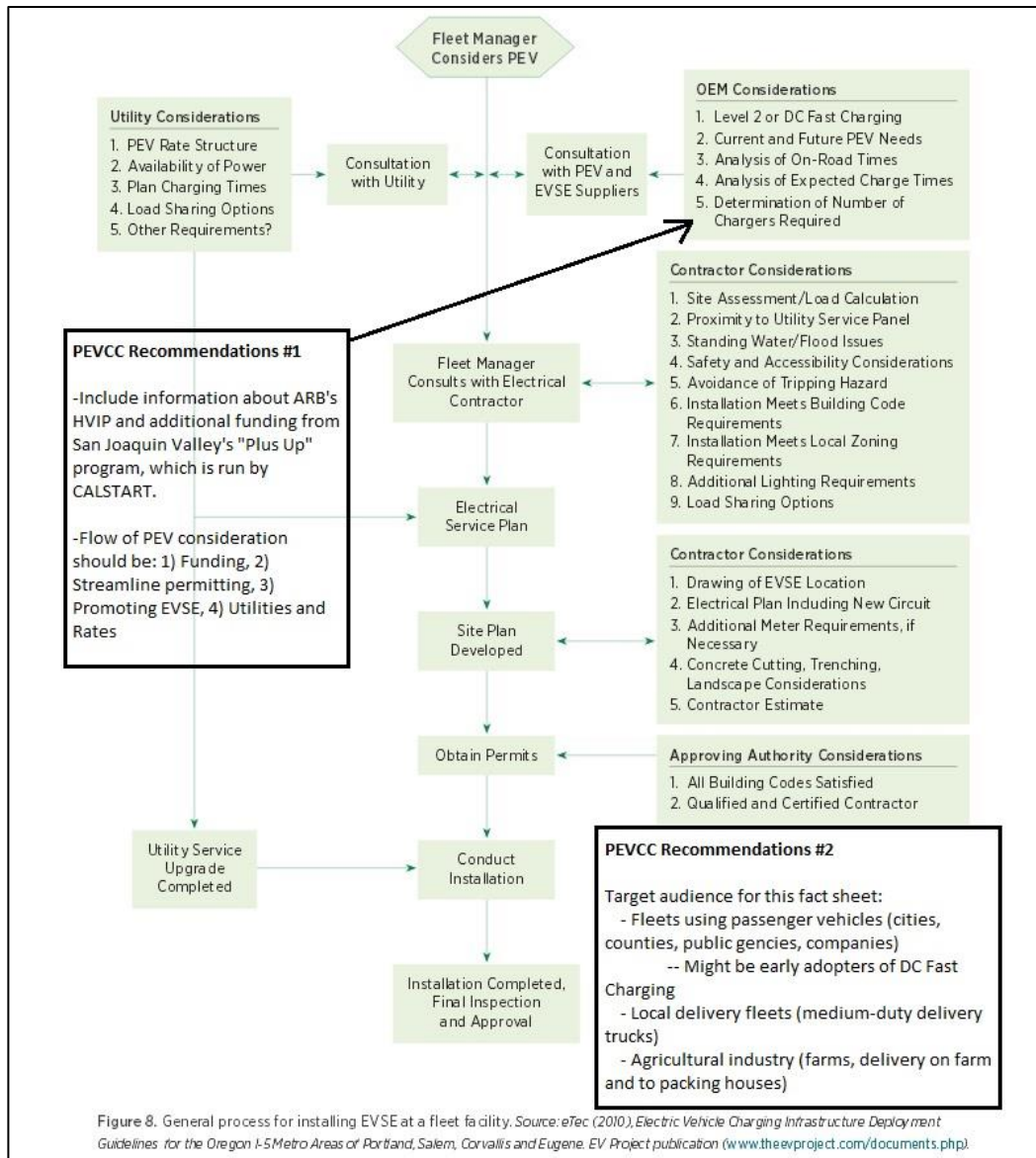
ELECTRIC VEHICLES INTERNATIONAL
VEHICLES | CONVERSIONS | POWER TRAINS

PEV 
Coordinating Council
San Joaquin Valley

www.energycenter.org

Regional PEV Readiness Plan Development





Adding PEVs into Local Fleets

PEVCC Recommendations

- ✓ Include information about funding from HVIP and the Valley's "Plug Up" incentive too.
- ✓ The flow of PEV consideration for fleets should be:
Funding → Streamlined permitting → Promoting EVSE → Utilities and Rates
- ✓ Target audience for the fact sheet:
 - ✓ Fleets using passenger vehicles
 - ✓ Local delivery fleets
 - ✓ Agricultural industry

Renewable Energy and PEV Charging

- ✓ Solar panel adoption and PEV adoption
- ✓ Case Study: Lyons High School Microgrid Project
- ✓ Case Study: Tesla Superchargers
- ✓ Renewable Energy Portfolio
- ✓ Questions for Discussion

Renewable Energy and PEV Charging

Top Cities	% city w/ solar	%city w/ EV
Bakersfield	0.51%	0.017%
Clovis	1.53%	0.037%
Fresno	0.33%	0.004%

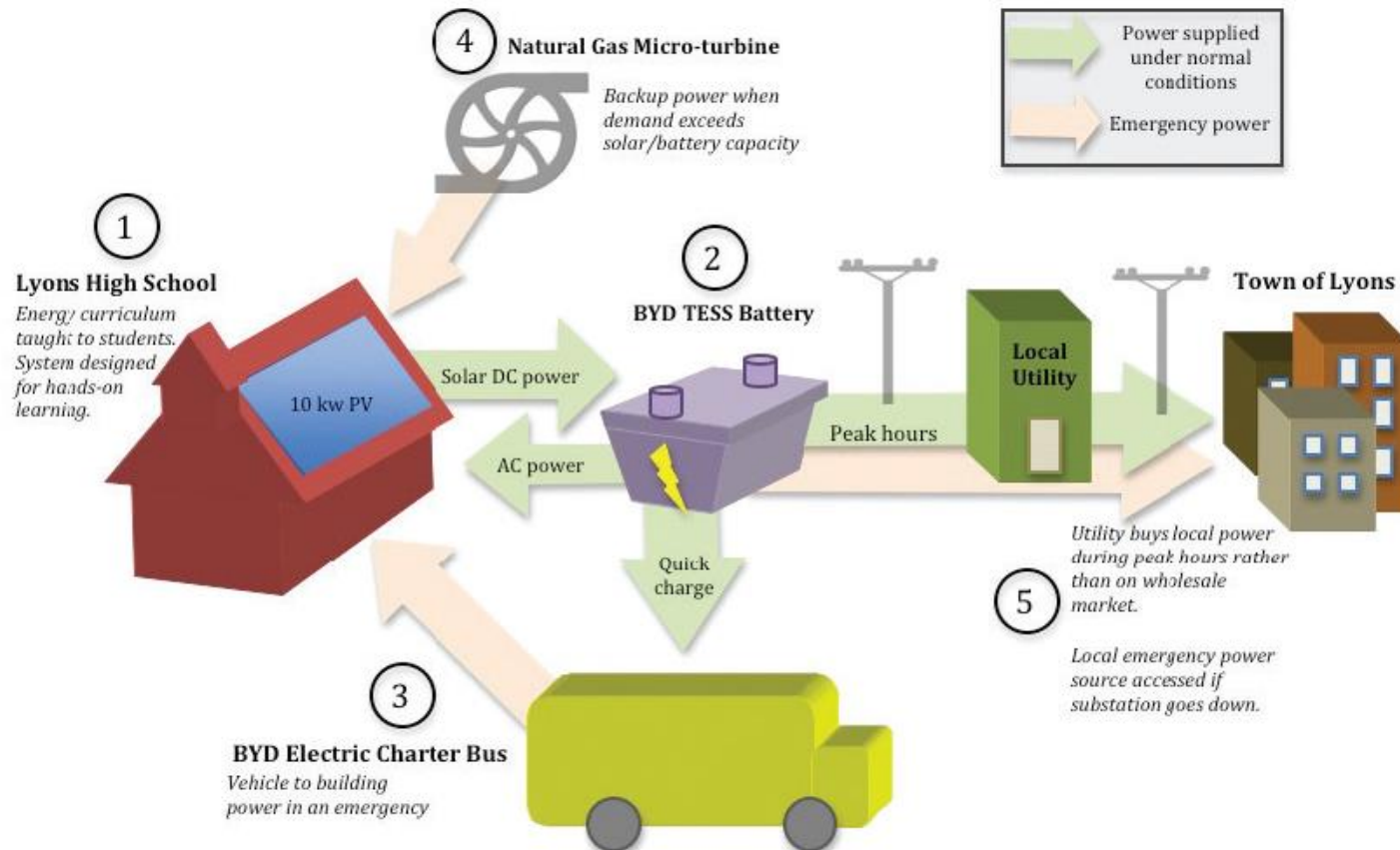
Overlap Zipcodes (both solar and EV)			
zipcode	city	% solar	% EV (in zip)
93619	Clovis	2.72%	0.073%
93312	Bakersfield	1.31%	0.023%
93611	Clovis	1.48%	0.031%
93314	Bakersfield	1.31%	0.063%
93720	Fresno	1.02%	0.027%
93711	Fresno	1.23%	0.027%
93311	Bakersfield	1.0%	0.042%

- ✓ **36%** of CVRP survey respondents from SJV have a residential PV installed
- ✓ Of those with PVs, **42%** sized it for their PEV load, and **79%** had the PV before their PEV purchase.

All population information taken from 2010 U.S. Census
 CVRP data from latest 15 Jul 2013 dataset
 CSI data from California Solar Initiative website
 *All calculations are based on estimates.

Renewable Energy and PEV Charging

Case Study: Lyons High School Micro-grid Island Project



Renewable Energy and PEV Charging

Tesla Super Chargers

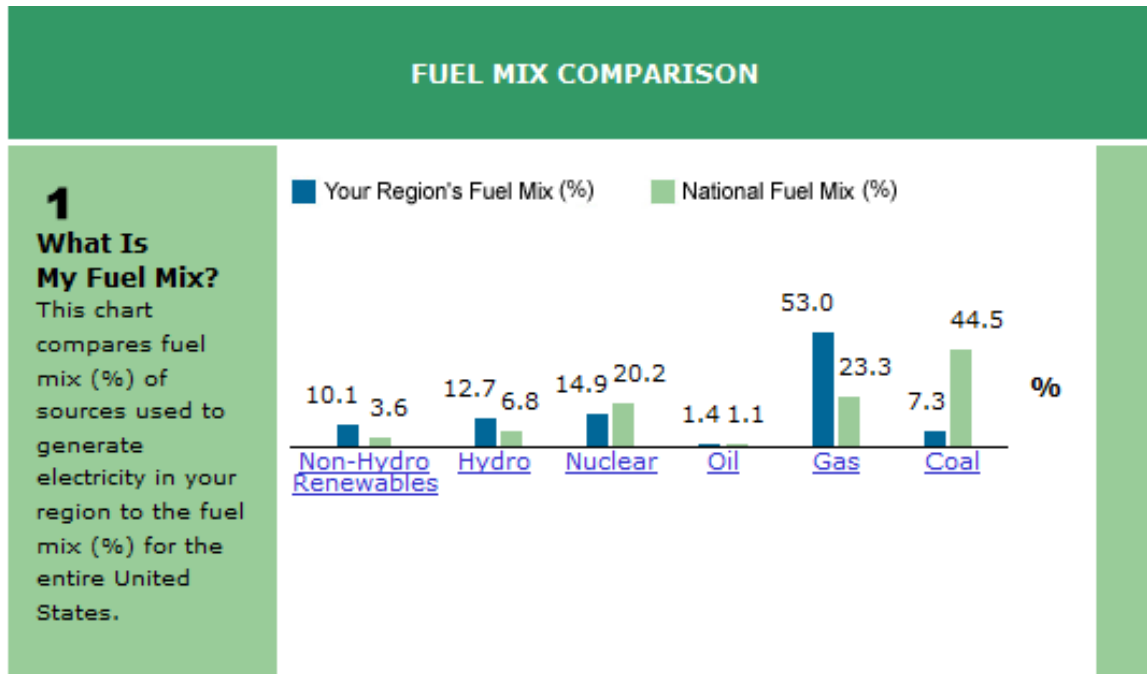


- ✓ Superchargers can charge a Model S 20x faster than most public charging stations
- ✓ Utilizes canopies with solar panels to provide shade and offset energy use

Nearby stations in Coalinga, CA; Lebec CA.

Renewable Energy and PEV Charging

Utility Power Profiler (PG&E)



- ✓ CA Executive Order S-14-08 and the Global Warming Solutions Act (AB-32) require that all retail sellers of electricity shall serve 33 percent of their load with renewable energy by 2020.

Find your energy mix at:

<http://www.epa.gov/cleanenergy/energy-and-you/how-clean.html>

Renewable Energy and PEV Charging Questions

- ✓ How important is using renewable energy and PEV charging?
- ✓ Are there any utilities that are making a concerted effort to go above and beyond just having 33% of their power mix be provided by renewable energy?
- ✓ How can local residents and businesses be encouraged to use more renewable energy?
- ✓ How can local residents with photovoltaics (PVs) be encouraged to buy PEVs, and vice versa?

Education & Outreach: Car Dealerships

- ✓ Clean Vehicle Rebate Project (CVRP) provides quarterly webinars to dealers throughout the state that offer CVRP-eligible vehicles
- ✓ The presentation is non-vehicle and non-utility specific
- ✓ Presentation given to OEMs (original equipment manufacturer), then distributed to dealer management
- ✓ Dealers can contact their management or corporate offices to ensure that they are on the webinar list



Education & Outreach: Car Dealerships Questions

- ✓ How do we inform local car dealerships about the CVRP webinar?
- ✓ What other PEV resources should local car dealerships have available for consumers?
- ✓ How can we keep car dealerships updated of future changes in the PEV industry?

Next Steps...

- ✓ Regional PEV Readiness Draft Plan
- ✓ Public Workshop

Thank You!

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