



# California Energy Commission

## PON 13-606



*12/11/2013 – 11am – 1pm*

SOUTHERN CALIFORNIA



ASSOCIATION of  
GOVERNMENTS



***Welcome***

**JoAnne Golden-Stewart**

*Los Angeles County Economic Development Corporation*

# ***Introduction***

- LAEDC's goal through our e-Mobility Task Force (chaired by Michael Boehm, Advanced Sustainability Institute and Jeff Joyner, Greenberg Traurig) is to **grow a robust, alternative fuel and advanced vehicle technology industry cluster in Southern California, and especially in Los Angeles County.**
- Goal of today's call:
  - Providing information to our Southern California companies, nonprofits and municipalities about an upcoming funding opportunity for electric vehicle infrastructure.
  - Ultimate goal to ensure Southern California receives more than its fair share of funding through this opportunity and builds a comprehensive and robust electric vehicle infrastructure system.
- Outline for today's call

# **Agenda**

1. **Welcome & Introductions** – Marco Anderson, Southern California Association of Governments; JoAnne Golden-Stewart, Los Angeles County Economic Development Corporation
2. **Overview of CEC Solicitation for Electric Vehicle Infrastructure Funding** – Patricia Kwon, South Coast Air Quality Management District
  - Corridor Charging – Patricia Kwon, South Coast Air Quality Management District
  - SCAPA Proposal - Scott Briasco, Los Angeles Department of Water & Power
  - Destination Charging and Workplace Charging – Rick Teebay, County of Los Angeles
  - Workplace Charging With and Without Public Access – Jasna Tomic, CALSTART
  - Rental and Occupant-Owned Multi-Unit Dwellings – Todd Ritter, EvStructure
3. **Approaches for Ensuring Southern California Funding for EV Infrastructure** – Marco Anderson, Southern California Association of Governments; JoAnne Golden-Stewart, Los Angeles County Economic Development Corporation
4. Q & A

***Welcome***

**Marco Anderson**

*Southern California Association of Governments (SCAG)*

# SCAG PEV Readiness Planning

## SCAG Grant Funding

- U.S. Department of Energy
- California Energy Commission

## So Cal PEV Coordinating Council

- SCE and public utilities
- Local Governments & Partners
- Private Sector Interests

## Plug-in Electric Readiness Plan & Atlas

- Local policy guidance for EV Ecosystem
- Prime location for charging installation sites



Prius PEV



SMART EV



AeroVironment Charger



# PEV Plan Recommendations

## Local Agency Focus

- Workplace Charging
  - Employer Outreach
  - Pre-Connection Commitments
- Multi-Family Buildings
  - Demonstration Projects
- Retail Fast Charging
  - Parking Issues



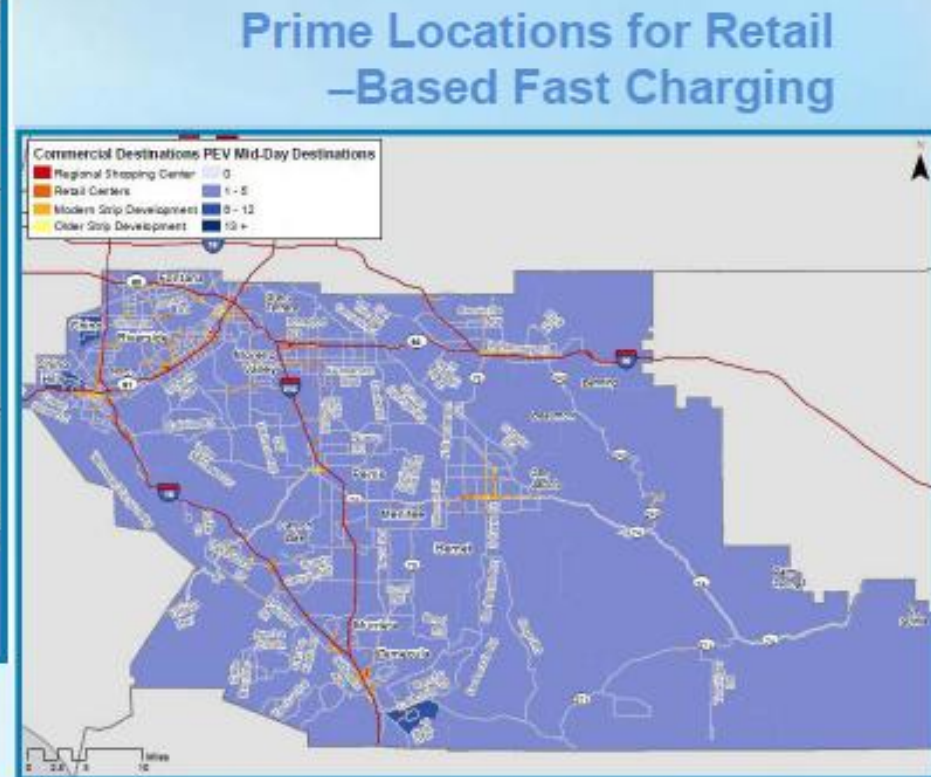
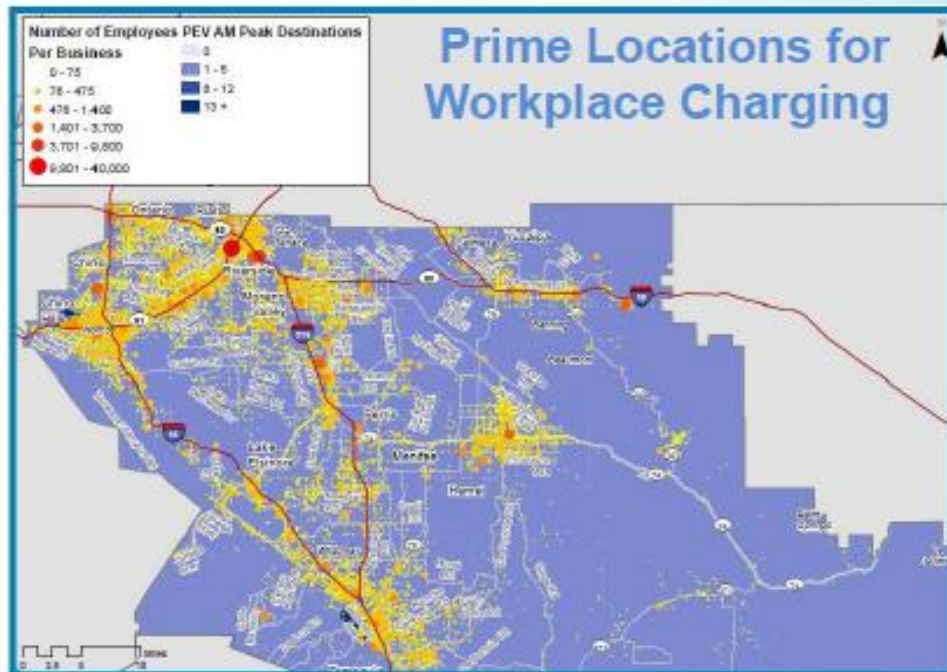
# Local Agency Recommendations

- General Outreach and Awareness
  - PEV Events, Ride-&-Drives,
- Consumer Friendly Installation Permits
  - Model Ordinances, Zoning Changes, Streamlined On-line Permits
- Targeted Outreach to Audiences
  - Employers, Building Owners, PEV Owners
- Direct Participation in Pilot Projects
  - Multi-Family Dwelling Unit Installation to understand policy issues





# Regional PEV Atlas



**AM Peak destinations by TAZ with Employment sites by number of employees**

**Mid-day destinations by TAZ with Retail locations by type**

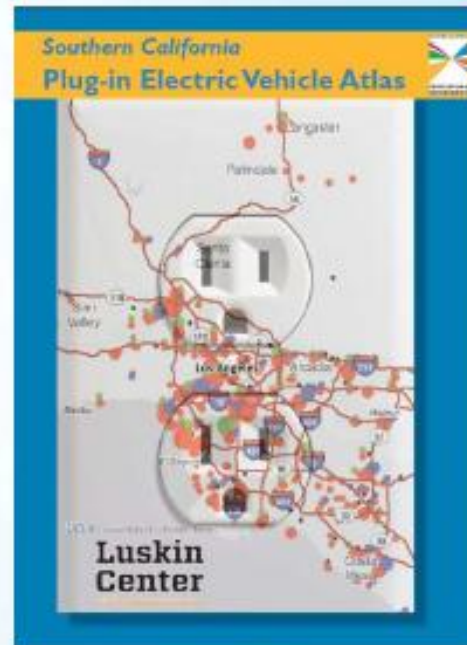
# Regional PEV Resources

SCAG Funded Products and Resources available:

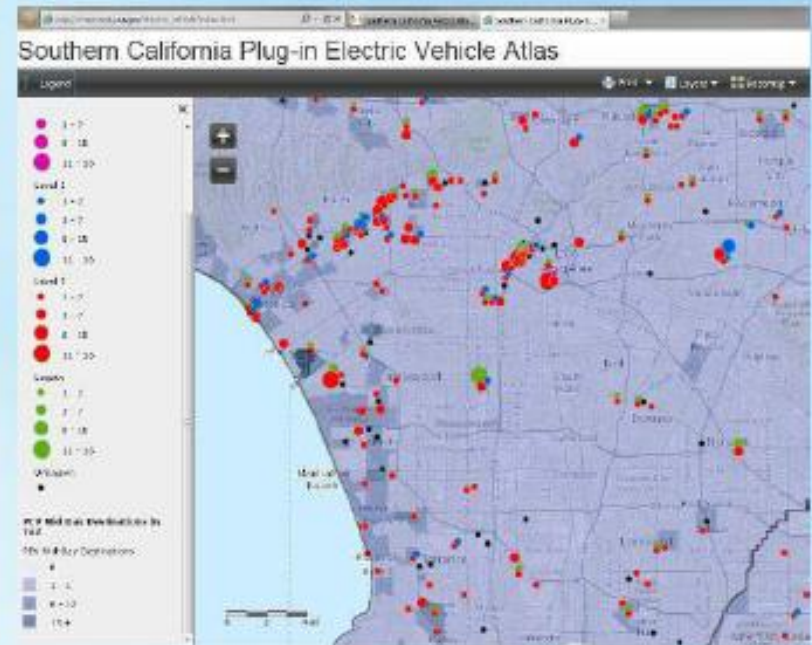
[www.scag.ca.gov/programs/Pages/RegionalElectric.aspx](http://www.scag.ca.gov/programs/Pages/RegionalElectric.aspx)



SCAG PEV Readiness Plan



SCAG PEV Readiness Atlas



SCAG Interactive PEV Readiness Atlas

# *Overview of CEC Solicitation*

**Patricia Kwon**

*South Coast Air Quality Management District*

# CEC PON-13-606

## Electric Vehicle Charging Infrastructure



# Details

- \$6M for PEV infrastructure deployment
- Due 1/28/14 at 3pm
- NOPA March 2014, Start June 2014
- Four categories
- Category I only non-profits and public agencies are eligible applicants
- CEC provides supports expansion of infrastructure to fleets, public transit, and transportation corridors over wide range of SES
- Prevailing wage requirements

# Funding Allocation

Eligible Applicants	Categories	Minimum Request	Maximum Award	Total Funding
Non-profit, Public agencies	Destination Corridor Workplace with public access	\$50,000 per application	\$500,000 per applicant	\$4 million
All	Workplace without public access	\$50,000 per application	\$200,000 per applicant	\$1 million
All	Rental MUDs	\$10,000 per application	\$50,000 per applicant	\$100,000
All	Owner Occupied Condos	\$50,000 per application	\$300,000 per applicant	\$900,000

# Category I

- Single or combination of destination, corridor, workplace charging with public access
- 25% requested funding or 20% total budget match funding required
- Destination charging—attracts medium to long distance travel with dwell times of 1+ hrs
- Corridor charging—ability to travel long distances along freeways and support local PEV
- Workplace charging—alternative to residential charging

# Category I Requirements

- Public use
- Level 2 and/or DCFC (stub for SAE Combo)
- Open source protocol, open access

Not required for workplace with public access:

- Credit card payments, no network fees
- Outreach to local PEVCC
- Easy accessibility



# Category I: Destination Charging

- Sites include unique urban destinations such as airports, transit areas, metro centers; population destinations such as beaches, amusement parks
- Maintenance plan for operation required
- Plan to optimize use of charging site for more than one PEV beyond a reasonable period of time

# Category I: Corridor Charging

- Sites must be within 1 mile driving distance of freeway, maximize ease of accessibility from freeway
- Document value of charging site to PEV drivers
- Site must have adequate power and transformer capacity

# Category I: Workplace (public access)

- Workplaces that do not have EVSE and minimum of 5 employees
- Site within 50 mile concentric ring from major urban area
- Site must be at non-residential place of business
- Letters of commitment from workplaces to be part of proposal team

# Category II Requirements

- All applicants eligible
- 50% of requested funding or total budget match funding required
- Level 2 and/or DCFC (stub for SAE Combo)
- Open source protocol, open access



## Category II: Workplace (without public access)

- Workplaces that do not have EVSE and minimum of 5 employees
- No public access to EVSE
- Site within 50 mile concentric ring from major urban area
- Site must be at non-residential place of business
- Letters of commitment from workplaces to be part of proposal team

# Category III Requirements

- Rental MUDs of 20+ housing units within same complex and owned by single entity
- EVSE must be sited in non-assigned parking
- MUDs must be established units, no new construction
- Letters of support from MUD complex owners or property management associations required
- Level 1, Level 2 and/or DCFC (stub SAE combo)
- Open source protocol
- Include case study on lessons learned

# Category IV Requirements

- Owner owned MUDs of 20+ housing units within same complex, can be owned by individuals
- EVSE must be sited in non-assigned parking
- MUDs must be established units, no new construction
- Letters of support from MUD complex owners or property management associations required
- Level 1, Level 2 and/or DCFC (stub SAE combo)
- Open source protocol
- Include case study on lessons learned

# Proposal Format

- 11 pt font, single spaced, blank between PP
- Application form must have original signature by agency's authorized representative
- Include all sections in appropriate formats—  
Project Narrative, Scope of Work, Schedule of Products, Project Team, Budget Forms, Contacts, CEQA Compliance Form
- Shorter is better

# Project Narrative

- Detailed project description
- Concise and compelling justification
- Identification of project team
- Detailed goals, objectives
- Discussion on team experience, qualifications
- Implementation, schedule
- Benefits of project
- Budget
- Innovation and sustainability



# Scope of Work

- Use template in Attachment 2
- Instructions for SOW in Attachment 3
- Electronic files for SOW in Word
- Description of activities in Project Narrative must correspond to Tasks in Scope of Work

# Schedule of Products/Due Dates

- Use template in Attachment 4
- Instructions for Schedule of Products in Attachment 4
- Electronic files for Schedule of Products in Excel
- All work completed by 3/30/18 including six months of data collection and reporting

# Project Team

- Identify all key personnel by name and areas of responsibility, including project manager responsible for project coordination with CEC
- Include company, title, job description, resume, contact information for key personnel
- Include letter of commitment from key partners
- Provide list of past projects on technical and business experience

# Budget

- Budget form templates and instructions in Attachment 5, electronic forms in Excel
- Rates and personnel must reflect rates and personnel charged if awarded
- Part of final CEC agreement if awarded, maximum rate allowed
- Includes task summary, category summary, prime labor rates, subcontractor labor and non-labor rates, direct operating expenses, match funding

# Budget

- All reimbursable expenditures must be within approved term of agreement
- Match share counted only after NOPA, at own risk prior to contract execution
- Permits, insurance are match share
- Include administrative costs such as reporting
- Budget must reflect actual costs incurred
- No profit as reimbursed or match share
- Need letters of commitment identifying match funding sources



# CEQA Compliance

- CEQA Compliance Form template in Attachment 7
- EVSE deployment should be CEQA exempt in most cases (ministerial or categorical exemption)
- Provide evidence of communication with CEQA lead agencies
- Complete CEQA process within 60 days of NOPA

# Evaluation

- Stage One—Screening Criteria
  - Administrative Screening (i.e. application complete, received on time, agrees to T&Cs, mandatory format, minimum match share)
  - Technical Screening (i.e. eligible applicant, project, no false information)
- Stage Two—Technical Evaluation
  - May schedule clarification interview
  - Minimum score 70% to be eligible for funding

# Proposal Submission

- Original + 6 copies of proposal
- Electronic files on CD-ROM or USB stick
- Deliver to CEC by USPS or in person
- Due at 3pm on 1/28/13

# Questions?

- CEC proposals require a lot of work; start early!
- Ideally Project Narrative should be 10-15 pages
- Budget forms are CEC specific, can hold a call to discuss how to do budget forms
- Need to establish contacts with CEQA lead agencies, get letters of commitment early on
- Decide on realistic timeline based on June 2014 start
- Identify and document match funding

# Contact Information

- Patricia Kwon, South Coast AQMD

[pkwon@aqmd.gov](mailto:pkwon@aqmd.gov)

909-396-3065



# **SCAPA Proposal**

**Scott Briasco**

*Los Angeles Department of Water & Power*

# **Destination charging & workplace charging**

**Rick Teebay**

*Los Angeles County Office of Sustainability*

Eligible Organizations	Categories	Minimum Requested Amount	Maximum Award	Total Funding Available
Non-Profit, Public Sector	I. Any single or combination of: <ul style="list-style-type: none"> <li>• Destination Charging</li> <li>• Corridor Charging</li> <li>• Workplace Charging with Public Access</li> </ul>	\$50,000 per <u>Application</u>	\$500,000 per <u>Applicant</u>	\$4 million
No restrictions	II. Workplace Charging without Public Access	\$50,000 per <u>Application</u>	\$200,000 per <u>Applicant</u>	\$1 million
No restrictions	III. Rental multi-unit dwellings	\$10,000 per <u>Application</u>	\$50,000 per <u>Applicant</u>	\$100,000
No restrictions	IV. Occupant Owned multi-unit dwellings	\$50,000 per <u>Application</u>	\$300,000 per <u>Applicant</u>	\$900,000

# **Workplace Charging With & Without Public Access**

**Jasna Tomic**

*CALSTART*



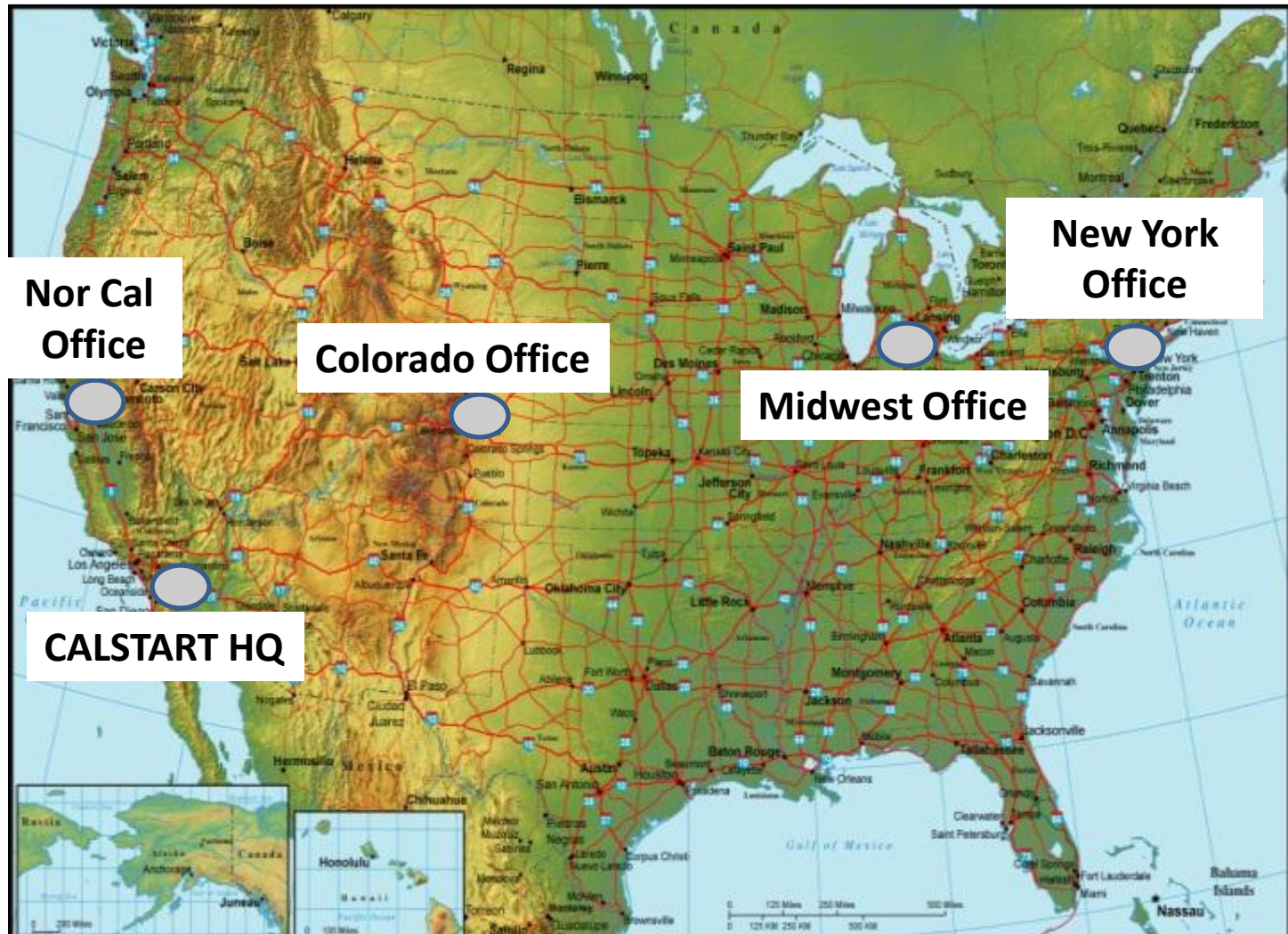
# *Workplace Charging*

*Jasna Tomic – CALSTART*





# CALSTART – Non-Profit for Advanced Technology and Fuels



# Importance of Workplace Charging

- ✓ Fills a critical gap in PEV Infrastructure needs
- ✓ Extends the range of PEVs and builds the market
- ✓ Allows for more electric only miles for PHEV's
- ✓ Creates local 'PEV showrooms' for info sharing on vehicles
- ✓ EV's can act as 'employee pool cars' for day trips



# PON-13-606 Workplace Charging

- **We can work with private companies to propose employee or customer workplace charging**
- **Category I** - Any single or combination of:
  - Destination Charging
  - Corridor Charging
  - Workplace Charging with Public Access
- **Category II** - Workplace Charging without Public Access

# Contact CALSTART if interested in Workplace Charging

CALSTART  
Clean Transportation  
Technologies  
and Solutions

Jasna Tomic

[jtomic@calstart.org](mailto:jtomic@calstart.org)



# **Rental and Occupant-Owned MUDs**

**Todd Ritter**

EvStructure



# **Approaches for Ensuring Southern CA Funding for EV Infrastructure**

Join in on an existing proposal: AQMD, CALSTART, LA County, etc.

Utilize free grant services provided by Greenlots, ChargePoint, Schneider Electric, and Associated of LA (others?)

Utilize grant support by CALSTART

*Organization Support and Outreach provided by SCAG & LAEDC*

Contact JoAnne Golden-Stewart or Marco Anderson for assistance in applying and we will help facilitate connections for you.

[anderson@scag.ca.gov](mailto:anderson@scag.ca.gov) & [joanne.stewart@laedc.org](mailto:joanne.stewart@laedc.org)



# Q & A

## Let's Discuss



# **Adjournment**

***Thank you for joining today.***

***Additional questions?***

***Contact:***

***Marco Anderson at [anderson@scag.ca.gov](mailto:anderson@scag.ca.gov)***

***JoAnne Golden-Stewart at [joanne.stewart@laedc.org](mailto:joanne.stewart@laedc.org)***