



California Energy Commission

# 2015-2017 California Vehicle Survey

California Energy Commission

Request for Proposals

RFP-14-801

Pre-Bid Conference

March 16, 2015



# Proposal Requirements

## Required Format For A Proposal

### ❖ Consists of Two Volumes

- VOLUME 1
  - Section 1 - Administrative Response
  - Section 2 – Technical Response
- VOLUME 2 – Cost Proposal



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# Volume 1, Section 1 Administrative Response

Each Bidder must complete the following and include in Volume 1, Section 1:

- Cover Letter
- Table of Contents
- Contractor Status Form
- Small Business Certification (if applicable)
- Darfur Contracting Act Form
- Completed DVBE Forms – Std. 843 and GSPD-05-105
- Signed Contractor Certification Clauses
- Iran Contracting Act Form



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# Volume 1, Section 2 Technical Response

Each Bidder must complete the following and include in Volume 1, Section 2:

- Approach to Tasks in Scope of Work
- Organizational Structure
- Relevant Experience and Qualifications
- Labor Hours by Personnel and Task
- Client References
- Previous Work Products – *Two examples of similar survey and model related work.*

*Detailed information available on pages 32 and 33 of the RFP*



## Volume 2 – Cost Bid

(Sealed Separately From Volume 1)

Every Bidder must complete the following and include in Volume 2:

### Budget Forms – Attachment 7

- *Category Budget*
- *Task Budget*
- *Direct Labor*
- *Fringe Benefits*
- *Travel*
- *Equipment*
- *Materials & Miscellaneous*
- *Subcontracts*
- *Indirect Cost and Profit*



## Small/Micro Business and Non-Small Business Preference

- Small Business Preference – Certified small businesses or microbusinesses can claim the five percent preference when submitting a proposal. See Attachment 3.1 for more information.
- Non-Small Business Preference – Bidders that commit to small or micro business subcontractor participation of 25% of net bid price shall receive the five percent preference. See Attachment 3.1 for more information.



# Target Area Contract Preference Act (TACPA)

- The Target Area Contract Preference Act (Government Code Section 4530 et seq.) provides five percent (5%) preference points to California-based companies that perform state contract work in a distressed area.
- Bidders should review the information located at <http://www.documents.dgs.ca.gov/pd/poliproc/tacpapage.pdf> to determine if they qualify for this preference.



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- The TACPA preference only apply to California based firms that demonstrate and certify under penalty of perjury that at least 50% of the total labor hours for manufactured goods or 90% of the total labor hours for services will be performed in distressed areas. The maximum preference that can be given for any bid may not exceed 9% up to \$50,000.00.
- Bidders wishing to take advantage of this preference are required to submit the following applications/forms available on the above website with their Bid:
  - TACPA (Std. 830)
  - Bidder's Summary of Contract Activities and Labor Hours (DGS/PD 526)





## Disabled Veteran Business Enterprise (DVBE) Requirements

This RFP is subject to full DVBE participation of three percent (3%).

- Bidder shall commit to meet or exceed the DVBE participation requirements by either of the following methods:
  - Method 1 – Bidder is a Certified DVBE and commits to performing at least 3% of the contract bid amount.
  - Method 2 – Bidder commits to using a Subcontractor that is a certified DVBE for at least 3% of the bid amount.



# DVBE Incentive Program

The DVBE Incentive Program gives a contractor an opportunity to improve their bid status based on the efforts attained from the DVBE Participation Program. See Attachment 3.1 for more information.

- The incentive computation is only applied during the evaluation process and only to responsible Bidders.
- The incentive amount for awards based on low price are as follows:
  - Participation of 3.01% - 4.99% = 1%
  - Participation of 5% or more = 2%



# Key Activities and Dates

Activity	Action Date
Deadline for Written Questions	March 16, 2015 by 5:00 p.m.
<b>Deadline to Submit Proposals</b>	<b>April 20, 2015 by 3:00 p.m.</b>
Clarification Interviews (if necessary)	May 2015
Notice of Proposed Award	May 2015
Proposed Commission Business Meeting	June 2015



# Background

The California Energy Commission is directed by Public Resources Code Section 25301 to prepare a forecast of transportation fuel demand, every two years.

- The Transportation Energy Forecasting Unit prepares:
  - Forecast of vehicle and fuel demand and prices;
  - Assessment of shifts in fuel and vehicle types, in response to changes in incentive and regulatory environment as well as economic conditions, based on analysis of commercial and household California vehicle survey data.



# What Is California Vehicle Survey?

- California Energy Commission periodically conducts a survey of household and commercial vehicle fleet owners to evaluate consumer preferences for near term vehicle transactions and the type of vehicles they plan to purchase.
- These vehicle preferences are then used to estimate parameters of vehicle ownership, transaction and choice utility equations.
- The estimated parameters are input into existing vehicle demand forecasting models that are used to forecast transportation energy demand in California.



## The Light Duty Vehicle Demand Forecasting Models

- Light Duty Vehicles are considered to be vehicles of 10,000 lb Gross Vehicle Weight or less.
- Formerly known as CALCARS, short for California Conventional and Alternative Fuel Response Simulator.
- These models are now known as PVC (Personal Vehicle Choice) and CVC (Commercial Vehicle Choice).



### **These Models Forecast:**

- Number and types of the vehicles owned
- Annual vehicle miles traveled (VMT)
- Fuel consumption by 15 vehicle classes in 11 fuel/technology types

The parameters of the behavioral equations in these models were re-estimated in 2013, after the last California Vehicle Survey was completed, by ICF.



## Personal and Commercial Light Duty Vehicle Demand Models

- CVC includes a vehicle choice utility equation for the commercial sector.
- PVC includes the following behavioral equations for the household sector:
  - Vehicle quantity
  - Vehicle transaction
  - New/used vehicle
  - Vehicle choice
  - VMT





## PVC and CVC Light Duty Vehicle Demand Forecasting Models

- Are integrated with other demand forecasting models that represent travel and other transportation sectors, in a software called **DynaSim**, to forecast demand for transportation fuels in California.



# How Is The 2011-2013 Vehicle Survey Different from the 2015-2017 Vehicle Survey?

- The 2011-2013 household survey was a follow on survey to California Household Travel Survey (CHTS). The 2015-2017 household survey will be an independent survey.
- Hydrogen FCV, diesel hybrid, CNG hybrid and CNG dual fuel were new technologies included in the 2011-2013 CVS choice sets. The 2015-2017 survey will add Self-Driving vehicles to the list of technologies on the choice set.
- The 2015-2017 survey adds a targeted sample of PEV owners, and a corresponding add-on survey of vehicle utilization and charging behavior.
- The 2015-2017 survey will also add a region for better coverage of central valley, increasing the number of regions to 6 from 5 in the 2011-2013 survey.



# Vehicle Technologies in the Survey

- Gasoline
- Gasoline Hybrid
- Flex Fuel Vehicle (E85)
- Diesel
- Diesel Hybrid
- CNG
- CNG Hybrid
- CNG Dual Fuel
- Battery Electric Vehicle
- Plug-in Electric vehicle (PHEV)
- Hydrogen Fuel Cell Vehicle (FCV)
- Self Driving Vehicles (New to 2015-2017 survey)



### In 2011-2013 Survey

- The RP and SP phases of the survey were combined into one, for the web-only household participants, with the help of an algorithm embedded in the survey website.
- The survey made use of the private vendor DMV data, due to its currency.
- Commercial fleet owner survey was conducted on the web, combining the RP and SP phase for the web-only survey participants.



## Purpose of This Solicitation

- Select a contractor to conduct and update California Household and Commercial LDV fleet owner surveys.
- Conduct household surveys to result in 3,500 completed stated preferences (SP) surveys for households, representing population distribution in California.
- Conduct commercial surveys to result in 2,000 completed stated preferences surveys for commercial fleet owners, corresponding to distribution of commercial fleet in California.
- Conduct PEV owner survey to result in 500 completed SP surveys.



## Purpose of This Solicitation (continued)

- Estimate vehicle ownership, transaction and choice utility equations, for both commercial and residential market segments, as currently specified in DynaSim.
- Assess PEV owner vehicle choice and utilization, and charging behavior.



## What are the Survey Components and Products?

- Sample household and commercial sector participants, as well as the PEV owners
- Conduct focus group sessions
- Survey Instruments and material
- Pretests
- Survey execution
- Data entry and quality assurance
- Data analysis
- Model estimation



# Information Provided by CEC

- Survey instruments previously used for household, commercial, and focus group sessions.
- A selection of previous survey reports, as they relate to this project, are available at library.
- [library@energy.ca.gov](mailto:library@energy.ca.gov)





## Scope of Work

- Task 1: Agreement Management
- Task 2: Work Plan
- Task 3: Survey Review & Website, and Database
- Task 4: Survey Design and Sample Design
- Task 5: PEV Owner Survey
- Task 6: Focus Group and Survey Pretests
- Task 7: Survey Recruitment, Implementation, Response Categories and Data Correction
- Task 8: Analysis of Data Quality and Survey Results
- Task 9: Logistic Regressions Analysis



# Question and Answer Session



## California Energy Commission

# Whom to Contact?

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