



# 2015-18 Building Science Technical Support Contract Pre-Bid Conference

Adrian Ownby  
Building Standards Office  
Efficiency Division

California Energy Commission  
1516 Ninth Street, Charles Imbrecht Room, Sacramento CA  
February 5, 2015



# One Presentation

- Two Requests for Qualifications
  - Nonresidential Building Science Technical Support (RFQ-14-401)
    - \$1 Million per year for three years
  - Residential Building Science Technical Support (RFQ-14-402)
    - \$1 Million per year for three years



# Agenda

- Administrative Response
- Technical Response
- Work Authorization Agreements
- Common Scope of Work Tasks
- Nonresidential Scope of Work
- Residential Scope of Work



# Administrative Response

- Cover Letter
- Table of Contents
- Contractor Status Form (Attachment 1)
- Darfur Contracting Act Form (Attachment 2)
- DVBE Declarations Form Std 843 (Attachment 3)
- Bidder Declaration Form GSPD-05-15 (Attachment 4)
- Contractor Certification Clauses (Attachment 5)
- Iran Contracting Act Form (Attachment 9)



## Disabled Veteran Business Enterprise (DVBE) Requirements

Full DVBE participation (3% of total Agreement amount)

Proposer commits to meet or exceed the DVBE participation requirements by either of the following methods:

Method A1 – Proposer is a Certified DVBE

Method A2 – Subcontractor is a certified DVBE and will receive at least 3% of the Agreement 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.

- The incentive computation is only applied during the evaluation process and only to responsible Bidders.
- The incentive points for awards based on high score are as follows:

Proposed DVBE Participation Level	DVBE Incentive % Point Preference	DVBE Incentive Points
3.01% - 3.99%	1%	1
4.00% - 4.99%	2%	2
5.00% - 5.99%	3%	3
6.00% - 6.99%	4%	4
7.00% or over	5%	5



## Technical Response

- Approach to the Tasks in the Scope of Work
- Project Team Organization Structure and Cost Minimization
- Project Team Relevant Experience and Qualifications
- Client References (Attachment 7)
- Depth of Team Experience (Attachment 8)



# Attachment 8: Depth of Team Experience

ATTACHMENT 8  
**Depth of Team Experience**  
 RFQ-14-402

Fill out Table below. The Suggested Areas of Expertise are meant to serve as a guide for the type of experience the Energy Commission believes is necessary to complete the tasks outlined in the Scope of Work. Please feel free to add additional areas of expertise if your team is comprised of experts in areas outside those listed in Table. Points will be awarded for this submission based on the thoroughness of the response. Resumes that evidence the appropriate work background demonstrating claimed expertise for each proffered Expert must be included in the SOQ for full points to be awarded for this attachment.

<i>SUGGESTED AREA OF EXPERTISE</i>	<i>NAME OF EXPERT &amp; BUSINESS NAME (#1)</i>	<i>% TIME AVAILABLE (#1)</i>	<i>NAME OF EXPERT &amp; BUSINESS NAME (#2)</i>	<i>% TIME AVAILABLE (#2)</i>	<i>NAME OF EXPERT &amp; BUSINESS NAME (#3)</i>	<i>% TIME AVAILABLE (#3)</i>
Building Envelope Heat Transfer Modeling						
Heating and Air Conditioning System Energy modeling						
Ventilation System Modeling						
Water Heating System Energy Modeling						
Standards Building Life Cycle Cost Analysis Methodology						
Standards Time Dependent Valuation of						



# Work Authorization Agreements

- These are work authorization agreement contracts
  - A contract structure of a Prime contractor with multiple subcontractors is expected
  - Quality control by Prime contractors is part of each work authorization, specified by line item and billed to that work authorization



# Common Scope of Work Tasks

- Administration
- Measure Identification and Analysis
- Public Domain Compliance Application
- Compliance Application Deployment
- Contingencies



## Administration

- Task 1 in both RFQs
- Both RFQs have a hard of cap of 12% of the total Agreement Budget
- Fairly Standard Language with six subtasks
- Note that subcontractor oversight/quality assurance has been removed from this task



# Measure Identification and Analysis

- Task 2 in both RFQs
- Important part of the contract
- Examples of work under this task:
  - Measure proposals for the next cycle of Standards
  - Other research and analysis as needed
- Measure template is web posted



# Public Domain Compliance Application

- Task 3 in both RFQs
- Work specific to Nonresidential or Residential Compliance Applications depending on the RFQ
- Important ongoing task consisting mostly of Application maintenance and updating



# Public Domain Compliance Application

- Examples of work under this task:
  - Parametric run generator development
  - Piloting and beta testing new versions
  - Zero Net Energy scenario modeling
  - Preparing user instructions
  - Preparing documentation
  - Adding functionality
  - Support for staff reviewing vendor applications



# Compliance Application Deployment

- Task 6 in the Nonresidential RFQ and Task 5 in the Residential RFQ
- Deploying updated versions of the software and trouble-shooting that deployment



## Contingencies

- Task 10 in the Nonresidential RFQ and Task 7 in the Residential RFQ
- Pretty much exactly what it sounds like – functionally its a safety valve for the contracts since something unexpected is always “expected”



# Nonresidential Scope of Work

## Scope Specific Tasks:

- Task 4: Time Dependent Valuation
- Task 5: Life Cycle Cost
- Task 7: ASHRAE Ventilation Standards
- Task 8: Planning Support for ZNE  
Nonresidential by 2030
- Task 9: Compliance Documentation Scoping



## Task 4: Time Dependent Valuation

- Critical part of the development of the Standards:
  - Basis for the energy “budget” for all buildings
- Challenges:
  - Methodology to evaluate/value water savings
  - Zero net energy and the value of PV



## Task 5: Life Cycle Cost

- Critical piece in the development of the Standards
- Cost effective energy efficiency standards are statutory requirement
- Review and update task:
  - 2016 Methodology
  - Analyze Federal Impacts, Changing Technologies, etc.



# Task 7: ASHRAE Ventilation Standards

- Review and Recommend Task



## Task 8: ZNE Nonresidential by 2030

- Immediate impact by informing the development of future Standards
- Strategic action plan task with a potential long term impact
- Five Standards Updates before 2030
- How are we going to get from where we are now, to ZNE by 2030?



## Task 9: Compliance Documentation

- The Energy Commission is interested in streamlining where possible
- Our goal is to reduce the regulatory burden and increase compliance through:
  - Simplifications
  - Revisions
  - Consolidations
  - Eliminations



## Residential Scope of Work

- Task 4: Data Exchange Infrastructure
- Task 6: Climate Data



## Task 4: Data Exchange Infrastructure

- Providing the necessary infrastructure upon which a Provider can develop Residential Data Registry:
  - Reviewing compliance documentation
  - Current residential data registry functions and database architecture
  - Data exchange schema



## Task 6: Climate Data

- In a changing climate due to global warming, past is not prologue
- Ultimate goal is to develop a weather data set that anticipates California weather for a foreseeable future impacted by global warming



## Key Upcoming Dates

- Post Q&A and Addenda by February 12, 2015
- SOQ Deadline is March 19, 2015 by 3 PM Pacific Time (not COB)
- SOQ Discussion with Firms April 1-3, 2015
- Notice of Selection posted by April 8, 2015
- Cost Negotiations completed by April 16, 2015
- Notice of Proposed Award released on April 21, 2015
- Commission Business Meeting is June 10, 2015
- Contract Start Date is July 1, 2015