Hydrogen Fuel Infrastructure (PON-11-609)

Pre-Application Workshop
California Energy Commission
February 22, 2012

Tobias Muench
Emerging Fuels and Technologies Office
Fuels and Transportation Division

Agenda

9:00 Welcome and Introductions

9:15 Solicitation Overview Presentation

Tobias Muench– Emerging Fuels and Technologies Office

9:45 Questions and Answers

Tobias Muench/Jonah Margolis/Charles Smith, Emerging Fuels and Technologies Office, and David Nichols, Grants and Loans Office

Purpose of Solicitation

Provide grant funds to projects which expand the network of public retail and public-private fleet-based hydrogen fueling stations to serve the current population of fuel cell vehicles (FCVs) and to accommodate the planned large-scale roll-out of FCVs commencing in 2015.

Funding Information

1. Competitive Solicitation
2. Funding available is $18.7 million
3. In order to encourage “CEQA-ready” projects and to ensure timely encumbrance of funds, the Energy Commission will conduct two rounds of scoring. The first round of scoring will fund up to $15 million in passing projects. Remaining funds will be applied to the second round of scoring.

Funding Information (Cont.)

Funding Table

Total Station/System Cost	**Energy Commission Cost Share**
Over $3 million	$1,500,000 or 40%, whichever is greater
Up to $3 million	$1,200,000 or 50%, whichever is greater
Up to $2 million	$700,000 or 60%, whichever is greater
Up to $1 million	70%

Funding Information (Cont.)

Examples:

- A station that costs $900,000 would receive 70% of $900,000 or $630,000
- A station that costs $1,050,000 would receive $700,000, since $700,000 is greater than 60% of $1,050,000 ($630,000)
- A station that costs $1,800,000 would receive $1,080,000, since $1,080,000 (60% of $1.8 million) is greater than $700,000

Funding Information (Cont.)

Operations and maintenance costs are currently not eligible for funding under this solicitation. However the Energy Commission is evaluating the need for and feasibility of funding operation and maintenance costs, and may amend this solicitation to allow for such funding on a limited basis.

Performance Incentives

Renewable Hydrogen Content

For proposed fueling station(s) that will dispense renewable hydrogen exceeding 33.3% by volume, the Energy Commission may fund an additional 10% of the total station cost.

Accelerated Projects

Applicants that accelerate the completion time of the project (all fueling stations/systems in the application) to 18 months or less (from grant execution to start of dispensing operation) may be eligible for 5% additional funding for the application.

Eligible Projects

To be eligible under this solicitation, projects must be located in California and include at least one of the following activities:

- Installation of new retail or fleet hydrogen dispensing stations and equipment.
- Upgrade/refurbishment of existing hydrogen dispensing stations and equipment.
- Installation of hydrogen dispensing equipment at a multi-fill station. (A multi-fill station is a station which has dispensers for more than one alternative fuel.)

Eligible Projects (Cont.)

- Installation or upgrade of fill systems to supply hydrogen to fueling stations such as specialized trailers or installations to connect a station to a nearby hydrogen pipeline.
- Installation of equipment for onsite production of renewable hydrogen fuel that is in excess of what is needed to comply with SB 1505.

Technical Requirements

- Minimum 100 kg per day nominal capacity per station with 20kg per hour peak fueling capacity.
- 350 bar (35 MPa) and 700 bar (70 MPa) dispensing pressures.
- Compliance with current Society of Automotive Engineers (SAE) Standards.
- Meet SB 1505 requirements for 33.3 percent renewable hydrogen dispensed at publicly funded stations when implemented by the California Air Resources Board (ARB).
- A summary plan for demonstrating continuous ownership and operation of the station for three (3) years after installation completion.

Technical Requirements

- Retail-like design and appearance, meeting minimum standard terms of operation: Station must be safe, well-lit, have adequate ingress/egress to the fueling facility with ample directional signage from the nearest thoroughfare; 6-10 hours of daily operation; attendant available with adequate notice; self-serve, menu-driven dispenser; no Personal Protection Equipment required (PPE)
- Open access to all current and future FCVs/HICEVs; no prohibitive user agreements
- Letter(s) from OEM(s) that evaluate the suitability of the project location for serving the widest possible existing and future FCV populations.

Location

Fueling stations must be located within or in close proximity to one of the four southern California early-adopter clusters which includes Irvine, Newport Beach, Santa Monica, Torrance, or the two northern California clusters, San Francisco Bay Area and Sacramento.

Alternatively, a non-early-adopter cluster location may meet the minimum location requirement if the applicant demonstrates that the area has high concentrations of deployed FCVs or HICEVs, and establishes that there is a sufficient secured vehicle population and fuel throughput equivalent to the six identified clusters.

Eligible Applicants

- This solicitation is open to public agencies, vehicle or energy entities, businesses, public-private partnerships, fleet owners, and academic consortia.

- Applicants may submit multiple project applications. Each application may contain multiple stations and a fill system. Each station in an application needs to be clearly delineated and adhere to all requirements contained in this solicitation. See Section 15 (Application Requirements) for more information.

Selection of Projects & Awards Process

- Proposals will be screened based on the Screening Criteria and will be evaluated on technical merit based on the scoring criteria
- Projects must pass the screening criteria and receive a minimum score of 70 percent to be considered for funding.
- Funding level, rank order of proposers, and award amounts will be released through two Notices of Proposed Awards (NOPA)
- Energy Commission staff will work with proposed awardees to finalize agreement documents for approval at an Energy Commission Business Meeting

Two Round Scoring Process

- Scoring and proposing of awards will be conducted in two rounds
  - **Round 1**: Projects that can commit to submitting California Environmental Quality Act (CEQA) compliance documentation by May 1, 2012
  - **Round 2**: Projects that will submit CEQA compliance documentation after May 1, 2012

- Applicant must indicate on the Cover Page (Attachment A), for which round the proposed project seeks evaluation

Two Round Scoring Process (Cont.)

- **Round 1** projects will be scored first and the first Notice of Proposed Award (NOPA) released funding up to $15 M
- **Round 2** projects will be scored and a second NOPA released proposing awards for the remainder of the funding
- Passing projects that are unfunded in Round 1, or Round 1 projects that are unable to submit their CEQA documentation in time will be merged onto the second NOPA with their original score

California Environmental Quality Act (CEQA)

- All projects are subject to CEQA Review
- Applicants are strongly encouraged to investigate the potential of their project to require a discretionary approval, to identify early the appropriate Lead Agency with authority to determine CEQA obligations, and to comply with CEQA in a timely fashion.
- CEQA compliance will be evaluated in technical scoring criteria
- No awards can be advanced for Commission approval until CEQA compliance is documented and completed

Grounds for Rejection

Applications WILL be rejected if:

- Application is not received by 3 PM on March 15th
- Cover Page (s) is not signed by the authorized representative
- Project partners are not identified and documentation confirming their role and participation is not provided (if applicable)
- Project is not an eligible project
- Application contains confidential information

Projects MAY be rejected and not considered for funding if

- Any proposal requirements are missing or incomplete

Schedule of Application and Award Process

February 9, 2012	Release of Solicitation
February 22, 2012	Workshop
February 22, 2012	Deadline to Submit Questions no later than 3:00 pm
February 27, 2012	Posting of Questions & Answers from Workshop (estimated)
March 15, 2012	Deadline to Submit Applications, no later than 3pm
May 2012	Post Notice of Proposed Awards
June 2012	Approval of Awards at Energy Commission Business Meeting

Project completion no later than October 30, 2014

Proposal Requirements

1. Proposal Cover Page
2. Executive Summary
3. Project Narrative
4. Scope of Work and Schedule
5. Project Team
6. Budget (Include ALR)
7. CEQA Compliance Form
8. Local Health Impacts Information

Scoring Criteria

1.	Qualifications of the Applicant /Project Team	40 points
2.	Market Transformation	10 points
3.	Market Viability	20 points
4.	Project Implementation	30 points
5.	Project Readiness	30 points
6.	Project Budget	60 points
7.	Economic Benefits	10 points
	Total:	200 points

Notes on Project Budget

- Represents largest portion (30 percent) of total scoring
- "Describe how the budget will be cost-effective in completing the proposed station(s)/system(s)"
  - Demonstrate the effective use of funds for the given proposal
  - The demonstration of cost-effectiveness can vary based on each proposed station(s)/system(s)
  - Possible demonstrations of cost effectiveness may include:
    - Cost per number of stations
    - Cost per fueling capacity (e.g. daily, hourly, or back-to-back)
    - Cost per fueling throughput (e.g. daily, hourly, or back-to-back)
    - Other approaches, as described in the proposal and as applicable to the proposed station(s)/system(s)
    - Total project cost (capital and O & M)

Questions

All questions are due today by 3:00 pm

Please submit questions to:

dnichols@energy.state.ca.us

Attn: PON-11-609/Hydrogen Fuel Infrastructure