

**2013-2014 Energy Efficiency Programs  
HERS Rater Training Advancement  
Program Implementation Plan**

1. **Program Name:** HERS Rater Training Advancement  
**Program ID:** SCG3760  
**Program Type:** Third-Party Program

**2. Projected Program Budget Table**

**Table 1: Total Projected Program Budget by Category**

Program #	Main/Sub Program Name	Administrative Amount	Marketing Amount	Direct Implementation Amount	Incentive Amount	Total Program Budget Amount
	<b>SoCalGas Third Party Programs</b>					
3760	3P-HERS Rater Training Advancement	\$80,000	\$56,000	\$1,007,480	\$0	\$1,143,480
3760u	3P-HERS Rater Training Advancement (Utility)	\$64,363	\$5,746	\$59,585	\$0	\$129,694
	<b>TOTAL:</b>	<b>\$144,363</b>	<b>\$61,746</b>	<b>\$1,067,065</b>	<b>\$0</b>	<b>\$1,273,174</b>

Note: SCG continues to negotiate the final contract with the third party vendor. As a result of final contract negotiations, the budget allocation into the budget subcategories may vary.

**3. Projected Program Gross Impacts Table**

**Table 2: Total Projected Program Savings by Subprogram**

Main/Sub Program Name	2013-2014 Gross kW Savings	2013-2014 Gross kWh Savings	2013-2014 Gross Therm Savings
<b>SoCalGas Third Party Programs</b>			
3P-HERS Rater Training Advancement	0	0	0
<b>TOTAL:</b>	<b>0</b>	<b>0</b>	<b>0</b>

Note: This is a non-resource program.

**4. Program Description**

**a) Describe program**

The Program will promote, develop, and deliver training to currently certified HomeEnergy Rating System (HERS) raters, energy consultants, and other professionals involved in construction of new and retro-fit housing in the Southern California Gas service territory and surrounding areas. The curriculum will address technical and administrative elements of Home Energy Ratings and energy efficiency. It will cover both the new requirements and changes based on Title 24 requirements in the 2010 code and the new code which will go into effect January 1, 2014.

Although California leads the nation in "professionalizing" the residential energy consultant industry and despite the size of this service sector and, in fact because of it, there is a natural tendency for the large number of certified raters in California to have divergent approaches to rating new homes. This program will be an important means toward helping create more consistency and comparability of new construction performance. Also, as advanced designs, materials, and systems are incorporated into new homes, there is an on-going and increasing need to provide guidance on how to model and inspect these elements in the rating process so that they are treated correctly and consistently.

**2013-2014 Energy Efficiency Programs  
HERS Rater Training Advancement  
Program Implementation Plan**

The program rationale begins with the need for additional HERS Rater Training that incorporates new codes and standards, green building and zero net energy technologies and practices, and provides raters comprehensive and consistent tools and information. By providing training advancement opportunities through web-based and classroom instruction, the utility seeks to improve and align HERS Rater skill sets to (a) include the long-term focus on whole-building energy efficiency opportunities, (b) integrate and digest local, regional and state building codes, statutes and programs such that builders and developers can count on HERS raters for current information and appropriate recommendations, and (c) engage and equip the HERS rater profession as emissaries in the deployment of new energy efficiency technologies and adoption of voluntary building standards in the near term.

**b) List measures**

This is a non-resource program that provides no technologies or incentives.

**c) List non-incentive customer services**

The services to be provided in this program are:

- Conduct a survey of stakeholders to help determine the content of courses to be developed.
- Create a program website to provide multiple resources including: an initial rater assessment screening; a rater primer; registration for the classroom courses; video capture of the classroom trainings; related online training materials.
- Develop program marketing materials, and distribute to raters and energy analysts.
- Develop of a minimum of ten course curricula.
- Deliver 120 training sessions, geographically dispersed throughout SoCalGas service territory.
- Develop a marketing toolkit for raters who have completed courses.

**5. Program Rationale and Expected Outcome**

**a) Quantitative Baseline and Market Transformation Information**

**Table 3**

	<b>Baseline Metric</b>		
	Metric A	Metric B	Metric C
Overall Program			
Sub Program #1			
Sub Program #2			
Sub Program #3			

Market Transformation has not been a major focus of the California energy efficiency programs since the energy crisis. Consequently, relatively little attention has been given in recent years to identifying and gathering data on indicators of change towards market transformation. For some programs or sub-programs that promote a single end use or measure, there may be some data available for this purpose, probably from industry

## 2013-2014 Energy Efficiency Programs HERS Rater Training Advancement Program Implementation Plan

sources, that we have not yet identified. For many of the programs, however, this kind of long-term, consistent, and expensive data collection has not been done in California.

The utility program planners have worked closely with their respective EM&V staffs and with each other to identify available information and propose potential metrics. Each utility and each program has some data available, but attempts to distill the limited available information into a common set of agreed-upon metrics have proved far more difficult to accomplish. Offering metrics in which there is not strong confidence would not be productive. Therefore, the utilities respectfully exclude "draft" metrics at this time and instead suggest a means of developing meaningful indicators.

The utilities will develop meaningful baseline and market transformation concepts and metrics for programs that do not currently have them, and then propose to design and administer studies to gather and track consistent, reliable and valid baseline and market effects data. We would propose to use the program logic models and The California Evaluation Framework (2004) as guides, and to begin this work after approval of the Application using funding provided for Evaluation, Measurement & Verification.

We expect that the baseline studies (1) adequately describe the operation of markets that are targeted by a program, (2) confirm our tentative identification of measurable parameters that would indicate changes towards greater efficiency in the market(s) and that are likely to be affected by the program, and (3) gather the current values of those parameters, to serve as baselines against which future market movement can be tracked.

### b) Market Transformation Information

**Table 4**

<b>Internal Market Transformation Planning Estimates</b>	
2013	2014

As explained immediately above, the utilities propose to provide these draft metrics when available.

### c) Program Design to Overcome Barriers

The priority barriers to widespread education and implementation of new standards, adoption of consistent rating protocols and the advancement of HERS raters commensurate to the challenges of AB32 and the Long Term Energy Efficiency Strategic Plan are:

**2013-2014 Energy Efficiency Programs  
HERS Rater Training Advancement  
Program Implementation Plan**

<b>Barrier</b>	<b>Solution</b>
Accessibility and participant cost	Training will be provided frequently, accessibly and affordably. This will be enhanced through availability of online course materials.
Comprehensiveness and consistency across the SoCalGas service area and its surrounding areas	Web training and classroom curricula will be designed with comprehensiveness and consistency in mind enabling raters from throughout the region to obtain comprehensive and consistent advanced training content.
Timely delivery of updates consistent with the program period goals of the Strategic Plan	The Program includes trusted and knowledgeable sources to develop updated materials.
Garnering participant interest and trust such that the program achieves broad participation	To increase training participation, marketing will be directly and narrowly focused toward a limited, easily identified, and motivated group, rather than broadcast. The partner organizations are well known to the rater community, making it more likely that they will respond positively to the offerings of this program.

**d) Quantitative Program Targets**

The key activities for the Program are: a) the development of course curriculum for 32 topic areas and b) the effective presentation of these courses to raters in 144 classroom and/or field training half-day or full-day sessions.

**Table 5**

HERS Rater Training Advancement	Program Target by 2013	Program Target by 2014	Program Target Totals
Courses Developed	5	5	10
Classroom / Field Training Sessions	60	60	120
Web-based courses *	5	5	10

*\* The specific courses made web-accessable will be determined and agreed to between the Company and the Contractor. It will be based on projected user interest and the subject matter.*

*Note: Values provided represent yearly targets.*

**e) Advancing Strategic Plan goals and objectives**

The Program advances the Strategic Plan in the following ways:

**California Long Term Energy Efficiency Strategic Plan Goals and Strategies**

<b>Description</b>	<b>Strategic Plan Sector</b>	<b>Strategic Plan Goal</b>	<b>Strategic Plan Strategy</b>
By enhancing codes and standards knowledge among raters, the Program will help increase levels of compliance with Title 24 and facilitate continual advances in building efficiency.	Residential	Deliver Zero Net Energy New Homes By 2020.	Drive continual advances in technologies in the building envelope, including building materials and systems, construction methods, distributed generation, and building design.
By educating HERS Raters	Residential	Transform home	Promote effective decision

**2013-2014 Energy Efficiency Programs  
HERS Rater Training Advancement  
Program Implementation Plan**

and professionalizing their services, the Program promotes effective decision making and helps drive demand for energy efficiency measures.		improvement markets to apply whole-house energy solutions to existing homes.	making to create widespread demand for energy efficiency measures.
By promoting training regarding Title 24 and coordinating these efforts with information about utility programs, program will increase code compliance and improve coordination with other programs and policies.	Codes and Standards	Continually strengthen and expand building and appliance codes and standards as market experience reveals greater efficiency opportunities and compelling economic benefits.	Improve coordination of energy codes and standards with utility programs.
By improving knowledge of Title 24, the Program enhances code compliance.	Codes and Standards	Dramatically improve code compliance and enforcement.	Improve code compliance and enforcement.
Enhances training and knowledge of HERS Quality Assurance auditors.	Workforce Education and Training	Establish energy efficiency education and training at all levels of California's educational system.	Incorporate energy efficiency and demand side energy management into traditional contractor and technician training, such as for plumbers and electricians, and expand training resources to produce target numbers of trained workers.

**6. Program Implementation**

**a) Statewide IOU Coordination**

- i.** Program name
- ii.** Program delivery mechanisms
- iii.** Incentive levels
- iv.** Marketing and outreach plans, e.g. research, target audience, collateral, delivery mechanisms.
- v.** IOU program interactions with CEC, ARB, Air Quality Management Districts, local government programs, other government programs as applicable
- vi.** Similar IOU and POU programs

This third-party program is not designed as a statewide program and is intended to operate within the SCG service territory and surrounding areas. The Program is designed to support and complement SoCalGas's core program activities. Where this Program shares common elements with the IOU's core programs, other third-party programs, or programs in other IOU service areas, SoCalGas and the Contractor will strive to coordinate the similar activities to maximize benefits and effectiveness.

**b) Program delivery and coordination**

The Program will be delivered in concert with a number of the statewide program priorities.

## **2013-2014 Energy Efficiency Programs HERS Rater Training Advancement Program Implementation Plan**

**i. Emerging Technologies program**

A key component of the Long Term EE Strategic Plan (2008) is the advancement of technologies, standards and building practices to deliver Zero Net Energy Homes by 2020. The Program is an essential bridge between new technology development and deployment. As innovative financing opportunities become available, and new energy efficiency and renewable technologies enter the market, HERS raters trained through this program will be positioned to guide builders and developers in selecting appropriate technologies and financing instruments for their projects.

**ii. Codes and Standards program**

With respect to Codes and Standards, with the adoption of statewide green building standards in July 2008, California's Building Standards Commission has set a voluntary benchmark for green buildings, effective in 2009. These standards are expected to become mandatory by 2012. Through the Program, HERS raters will be trained in these new standards as a part of their codes and standards training module, which includes Title 20 and Title 24 code changes. By 2011 and the new code in 2014, HERS raters will have access to convenient, low-cost, and up-to-date training on these important changes in the building standards pipeline.

Because state and local green building initiatives and standards may vary, with local governments moving toward higher benchmarks, the training program will provide much-needed integration of state and local government policies in a format that is accessible to HERS raters and energy rating professionals. Through active engagement and ongoing education in these codes and standards as they develop, the HERS raters who participate in the Program will be positioned to assist builders and developers in navigating the myriad codes and standards applicable to their housing developments. This is consistent with the vision statement for the residential sector (section 2.13) and market transformation strategies for Building Innovation and Comprehensive Solutions in the Long Term EE Strategic Plan (section 2.1.4)

**iii. WE&T efforts**

Although workforce education and training efforts broadly encompass many private and public institutions of higher learning, the Program meets a specific need in workforce education and training by offering HERS raters affordable, easily accessible advanced training on home energy systems, energy efficiency opportunities, renewables, and green building practices. Of the many near-term goals for energy efficiency education and training, this program serves to expand training curricula and training and professional career development in building construction, services and energy efficiency technical fields (Action 1-2, p. 78 Long Term EE Strategic Plan).

**iv. Program-specific marketing and outreach efforts (provide budget)**

Marketing and outreach is coordinated through energy rating organizations with a statewide presence, including CalCERTS and CHEERS, with the expectation that

## **2013-2014 Energy Efficiency Programs HERS Rater Training Advancement Program Implementation Plan**

CABEC (California Association of Building Energy Consultants) will provide additional outreach support. By coordinating directly with statewide organizations, the Program will tap into the resources of these organizations and build training programs consistent with statewide codes and regulations, and appropriate to the training needs of current raters.

Having CalCERTS and CHEERS together on the project is a tremendous benefit and an innovative aspect of the marketing strategy. With both of the major HERS providers integrated into the program from the outset, the first and most difficult obstacle to reaching our primary target audience in a cost efficient and focused manner, is significantly reduced. Both organizations have direct and valued contact with their own raters, and are a recognized source for training and general information about the rating industry. This allows us to reduce traditional marketing costs while improving penetration. The marketing staff will coordinate with team members CalCERTS and CHEERS to leverage their membership directories. Through this close partnership, the Program team will provide a strong customer base of HERS raters who can effectively target and market. Marketing duties include the design, development and printing of program materials including marketing collateral, direct market mailings, email blasts, and involvement with local trade organizations and local trade sponsored events and conferences, that will afford networking opportunities across industry players.

Marketing the training to raters will begin with by alerting all Southern California CHEERS and CalCERTS-certified raters about the extension of the current program. When new online and classroom courses are developed and a schedule has been established, raters and energy consultants will receive an email announcement detailing the program and courses, including how they can register through the program website. Once a program participant has successfully completed his/her training, the web site will also provide access to a host of marketing material that will be housed in the HERS rater online tool kit. The database-driven site will deliver tools to HERS Raters, including training aids, downloadable materials, links and an online print store. The site will enable participants to take advantage of marketing material by customizing print ads, brochures and direct mail pieces. Announcements will also be through IOU and various related associations.

### **v. Non-energy activities of program**

#### **Stakeholder Survey and Curriculum Development**

The ongoing process of creating meaningful curricula for HERS rater training will be to determine the most relevant and needed subject matter. Contractor will use a combination of online surveys and face-to-face interviews with stakeholders in the rating industry to assess the uniformity of ratings and identify areas of interest and need for further training. A survey questionnaire will be developed by the team with input from SoCalGas. The program will invite survey participation from all CalCERTS and CHEERS certified raters in the SoCalGas service territory and surrounding areas. It is also anticipated that the California

## **2013-2014 Energy Efficiency Programs HERS Rater Training Advancement Program Implementation Plan**

Association of Building Energy Consultants (CABEC) and IHACI (Institute of Heating and Air Conditioning Industries), given their existing relationship with CalCERTS and CHEERS, will provide support for such outreach to their membership. The organizations will send emails to their members, describing the goal of the survey and providing a link to it. This approach will serve two purposes: first, it will provide direct input from the primary target group; second, it will introduce raters to the forthcoming training program, and engage them in the process from the outset.

In parallel, the Program will continue to conduct a series of interviews and meetings with new potential stakeholders including SoCalGas program managers, energy analysts, code officials, builders, developers and regulators to get perspectives from outside the rater community. This includes outreach to and coordination with public agencies, building and planning departments, and special districts to integrate local and regional goals and perspectives into the training agenda. Responses will be reviewed to identify general patterns and specific needs for subjects to cover in the training program. It is suggested, however, that not all of the thirty-two anticipated courses be finalized at the outset of the program. It is prudent to leave several courses unidentified for year three so that new curricula can be created, which responds to unforeseen developments.

Once the training topics and areas of need have been identified, technical staff from CalCERTS, CHEERS, and Contractor will generate a draft timeline for curriculum development, which will be reviewed with SoCalGas before a final plan is set. The plan will establish the order in which courses should be developed. Once the timeline is established, staff will begin creating outlines of the courses. After the outlines are drafted and following review with SoCalGas, the detailed content development will proceed.

### **Training Delivery**

The training program will incorporate three distinct elements that, taken together, provide convenience, customization, and reinforcement, and that are most appropriate or preferred to the participant's various learning styles. A combination of online and classroom courses will be offered to help raters advance their technical and programmatic skills and knowledge. As presented here, *modules* will be the basic building blocks of technical and programmatic information to be communicated. Modules will be assembled into *courses*, each covering a distinct subject. For example, a course devoted to photovoltaics would be comprised of modules on subjects like: siting and solar access, inverters, modeling and inspection, and more. Finally, *training sessions* are meant to describe the delivery of a course. A minimum of ten courses will be developed for the program, with each course being delivered multiple times in training sessions that are convenient for attendees in terms of both time and location. Also, the online element of our program means that there are an unlimited number of sessions that a rater may take whenever, wherever, and as often as they would like to.

# **2013-2014 Energy Efficiency Programs HERS Rater Training Advancement Program Implementation Plan**

## **Classroom Courses**

Building on the fundamentals that are covered in the online primer, the classroom trainings are meant to provide more advanced skills and, where warranted, hands-on practical experience. A minimum of thirty-two courses will be developed over the term of the program, with approximately four new courses offered every quarter. Each course will be delivered an average of three times in different locations throughout SoCalGas service territory and surrounding areas to make them more convenient for raters to attend without excessive travel. Courses will be one-day or half-day duration, as needed to cover the material. Where appropriate, portions of instruction will be held in the field so that real world issues can be demonstrated. Also, using video media, the field will be brought into the classroom to show details that are otherwise difficult to describe.

## **Online Classroom**

Selected courses will be captured on video for placement on the program website. This will be beneficial to raters who attended the live training and wish to review, and also to raters who are unable to attend. The online presentation of the courses will combine video of the training session, related presentation materials and links back to the primer materials which are related to the subject matter. The website that houses the online courses will be built from a database-driven system that provides test tracking and administrative functions and features. The multi-media, self-study, online training “academy” will be uniquely tailored for SoCalGas and individually suited for HERS raters. The comprehensive training program will include various levels of training. Each level will contain individual courses made up of lectures and/or multi-media presentations. The training program, when appropriate, may include online testing functions and administrative tools that will allow SoCalGas to monitor training success and offer certification upon completion of any or all stages of the program.

## **vi. Non-IOU programs**

HERS Raters are registered under State of California Energy Commission approved providers and have connections with non-IOU programs. Other industry players that acknowledge Raters and their role include local building and planning departments, the design and engineering community, and associations such as the California Association of Building Energy Consultants, Institute of Heating & Air Conditioning (IHACI), and Air Conditioning Contractors of America (ACCA). This program will be coordinated in concert with the CHEERS and CalCERTS organizations, drawing on their technical expertise and resources in order to provide their members with cost-effective delivery of web and classroom training seminars. Coordination with non-IOU programs such as Cool California (a partnership between the California Air Resources Board, California Energy Commission, Berkeley Institute of the Environment, UC Berkeley, Lawrence Berkeley National Laboratory and Next 10), the Green Building Initiative, and the South Coast Resource Conservation and Development Area will be sought as a means to identify training needs and to broaden and fine-tune course offerings. As feasible, these organizations will be invited to provide

# 2013-2014 Energy Efficiency Programs HERS Rater Training Advancement Program Implementation Plan

PDF documents and/or links to web content related to new construction and emerging technologies useful to HERS raters.

**vii.** CEC work on PIER  
Not applicable

**viii.** CEC work on codes and standards  
CEC work on codes and standards underpins much of the content in new building technologies, energy efficiency building codes and green building standards. Again, the program does not specifically budget coordination with ongoing CEC work into the delivery of training materials, but coverage of codes and standards is implicit in providing meaningful training advancement for HERS Raters.

**ix.** Non-utility market initiatives  
Much of the Southern California Gas service area is part of the South Coast Resource Conservation and Development Area. Shared goals include similar missions to develop and deploy workforce education and training programs, creating “green collar” jobs, promoting the adoption of solar and renewable technologies, and utilizing educational initiatives and programs to advance green building practices. The South Coast Resource Conservation and Development Area Council consists of member Resource Conservation Districts covering the SoCalGas service area from the coast to the inland reaches of Southern California, close partnership with the National Resource Conservation Service and alliances with county government officials. Non-utility market actors include a myriad of special districts and local governmental entities, nearly all of which are advancing green building practices, educational materials and standards. By providing HERS raters with access to ongoing developments in local and regional efforts to comply with AB32 and advance highly localized green building initiatives, the HERS Rater Training Advancement Program will provide an essential link between home builders and the multi-faceted governmental elements (codes, standards, rebates, and financial instruments or incentives) that affect local new construction developments

## c) **Best Practices**

The program design incorporates many of the best practice elements from the National Energy Efficiency Program Best Practices Study<sup>1</sup>. Specific items include:

### ***Program Theory and Design***

- Anticipation of market challenges built into program design
- Program integrates statewide policy objectives into program design
- Defines and identifies key information needed to track and report throughout the program process.
- Program implementers will periodically review & update market level information about construction practices, EE market share, and measure adoption.

---

<sup>1</sup> The best practices listed are identified in the *National Energy Efficiency Best Practices Study, Volume S – Crosscutting Best Practices and Project Summary*, Quantum Consulting, Inc., December 2004.  
Southern California Gas Company

# 2013-2014 Energy Efficiency Programs HERS Rater Training Advancement Program Implementation Plan

## *Project Management*

- Clear lines of responsibility and communication shall be set forth in the subcontracts with CalCERTS, CHEERS and BMI.

## *Reporting and Tracking*

- Program performance and participation data will be integrated into a database-driven website.
- The program utilizes web-based communications including the program website, e-forms and submittal processes, educational support services (ESS) and hybrid ESS incentive options.
- Program prospects will be contacted and tracked early to engage early adopters and drive program participation.

## *Participation Process*

- The application process and forms will be designed for user-friendly navigation and ease of use, submittal options, telephone support and classroom-based training.
- Technical assistance is provided to Raters via one-on-one customer training support.
- The program works with key stakeholders, including industry associations, to maximize reach and acceptance.
- Trade allies (CalCERTS, CHEERS, and others) will be trained in program policies and procedures so they may then assist HERS raters in selecting training modules and participation levels appropriate to their needs.
- Program funds are slated to cover program operations for the duration of the two-year cycle, throughout each year.

## **d) Innovation**

In addition to the unique partnership arrangements this program utilizes, the Program will employ several innovative technical elements. Team partner BMI will create and develop a computer/internet based learning management system (LMS) built off of standard LMS platforms already created. The SoCalGas HERS LMS will include an initial assessment test (or knowledge verifier) and the subsequent course layout will offer users distinct learning units, each containing an individual video segment or Flash presentation supporting the course's topic. Courses will contain a rich mix of text, photo, audio and video content. The framework will be flexible, and will easily accommodate expansion and updates. Lessons will also include any necessary study guide materials, online quizzes ("Check Your Understanding"), and a final exam that will serve as the basis for special recognition. This learning platform is innovative in the sense that it incorporates state-of-the-art technological elements with tested learning principles and methods to offer HERS raters the advantages of low-cost, one-stop, convenient access to Title 20, Title 24 and green building standards and information on emerging technologies, renewables, and whole-house approaches to energy efficiency. The Program couples innovative and content-rich web learning opportunities with classroom

## **2013-2014 Energy Efficiency Programs HERS Rater Training Advancement Program Implementation Plan**

training and self-testing to reinforce training advancement through audio, visual and interactive cues.

The Program's approach to training is to provide content-rich, but industry-specific information. The HERS pre-qualifier will engage three variations of a virtual distance learning training package – traditional instructor led training, in-field video and game-based education.

The Program team will deploy various innovative technologies to achieve the highest learning objectives, including:

- Educational Support Services (ESS) and hybrid ESS incentive options: These increase the percentage of online training participants and provide technical expertise and assistance results that maximize the use of rebates and incentives;
- Quantifiable measurements: An integrated learning management system allows for real time data on users, access to specific information, educational roadmaps, and detailed reports on training programs taken, tests completed, videos launched and incentives achieved, and
- One-on-one participant support: Participant inquiries will be addressed in a tiered support system of (1) FAQs with answers, (2) E-mail with response within 24 hours, and (3) Dial in number for direct live support.

e) **Integrated/coordinated Demand Side Management**

This is not an Integrated Demand Side Management program.

f) **Integration across resource types**

The Program does not specifically aim to integrate across resource types (energy, water, or air quality). However, to the extent that Title 24 sets the standards for all aspects of new construction, this training program and the resulting improved quality of rating and testing will positively affect all resource types. Moreover the program plans to incorporate training materials from the California Air Resources Board and other public agencies that address Zero Net Energy Homes, and GHG emission reductions associated with green building practices. Website links to resources for green building practices and local codes and policies will include information on building-related water and air resource programs and practices such as standards for meeting water-conservation building ordinances, native and low-water use landscaping practices and new construction standards consistent with meeting the California Building Standards Commission benchmark for green buildings.

g) **Pilots**

The Program has no planned pilots.

h) **EM&V**

The utilities are proposing to work with the Energy Division to develop and submit a comprehensive EM&V Plan for 2013 - 2014 after the program implementation plans are filed. This will include process evaluations and other program-specific studies within the context of broader utility and Energy Division studies. More detailed plans for process evaluation and other program-specific evaluation efforts cannot be developed until after

# 2013-2014 Energy Efficiency Programs HERS Rater Training Advancement Program Implementation Plan

the final program design is approved by the CPUC and in many cases after program implementation has begun, since plans need to be based on identified program design and implementation issues.

## 7. Diagram of Program

# HERS Rater Training Advancement Program

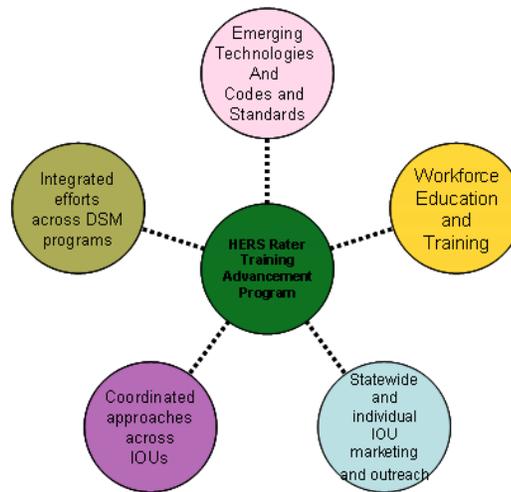
**Emerging Technologies and Codes and Standards** As advanced designs, materials, and systems are incorporated into newly constructed homes, this program will provide guidance on how to model and inspect these elements in the rating process so that they are treated correctly and consistently. Training curriculum will capture a wide range of viable technologies and building practices

**Workforce Education and Training (WE&T)** Removing cost and logistical barriers. Complies with the HERS and CHEERS training requirements. This program will contribute to statewide efforts to educate the workforce on green buildings and technologies.

**Integrated efforts across DSM programs** Trainings will identify and provide information on local, and utility DSM Programs. Trained techs will provide a single point of contact so end users can receive current DSM information.

**Coordinated approaches across IOUs** Although there is not a direct link to other IOUs, other IOUs will benefit from the advanced skill set of raters trained in this program.

**Statewide and individual IOU marketing and outreach** HERS raters will be educated in a whole house approach to coincide with and support statewide and individual IOU marketing efforts



## 8. Program Logic Model

Third party programs are an implementation channel and are included in the appropriate market segment logic models. No specific logic model for a particular third party program has been developed.