



## **2016 California Advanced Homes Program** (for 2013 Title 24 Code projects)

Participant Handbook and Program  
Agreement for Single-family and Multi-family  
New Construction Projects

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## We're here to help builders today for tomorrow's environment.

Southern California Gas Company (SoCalGas®) and Los Angeles Department of Water and Power (LADWP) are working together to help the building industry design and develop more environmentally-friendly communities and support the State of California's efforts for new homes to reach Zero Net Energy (ZNE) by 2020.

Our California Advanced Homes™ Program highlights best practices in energy efficiency, green building and sustainability, and offers generous financial incentives to help builders and architects create environmentally-friendly, energy-efficient communities for potential home buyers.

Visit us online at [socalgas.com/cahp](https://socalgas.com/cahp).

## 1. Program Overview

The 2014-16 California Advanced Homes Program serves to encourage residential new construction builders to meet two visionary goals set forth by the California Public Utilities Commission (CPUC). The first is to help builders prepare for future code changes and build homes better-than-code and ahead of the curve. The second is for all new homes to reach Zero Net Energy (ZNE) by 2020.

## 2. Glossary of Terms

Throughout this document, acronyms of certain terms have been used to simplify instructions.

The following is a list of these terms:

**BIG:** Build It Green

**CABEC:** California Association of Building Energy Consultants

**CAHP:** California Advanced Homes Program

**CalCERTS:** California Certified Energy Rating & Testing Services (HERS Provider)

**CEA:** Certified Energy Analyst

**CEC:** California Energy Commission

**CEPE:** Certified Energy Plans Examiner

**CF-1R:** Certificate of Compliance

**CF-2R:** Certificate of Installation, go to [www.energy.ca.gov](http://www.energy.ca.gov) and search for "Residential Manual"

**CF-3R:** Certificate of Field Verification and Diagnostic Testing, go to [www.energy.ca.gov](http://www.energy.ca.gov) and search for "Residential Manual"

**CHEERS:** California Home Energy Efficiency Rating Services (HERS Provider)

**CIR:** CAHP Incentive Report

**CPUC:** California Public Utilities Commission

**HERS:** Home Energy Rating System

**IOU:** Investor-Owned Utility

**IRF:** Incentive Request Form

**MECH-1-C:** Mechanical Field Inspection Energy Checklist, usually for High-rise projects

**MECH-INST:** Mechanical Installation Certificate, usually for High-rise projects

**MF:** Multi-family

**MFHR:** Multi-family High-rise

**MFLR:** Multi-family Low-rise

**NFRC:** National Fenestration Rating Council

**PERF-1:** Performance Certificate of Compliance

**POU:** Publicly-Owned Utility

**Rater:** Inspector certified by a CEC-approved HERS provider to provide third-party verification for Title 24 measures.

**RNC:** Residential New Construction

**SF:** Single-family

**SHGC:** Solar Heat Gain Coefficient

**ZNE:** Zero Net Energy (as defined by the CPUC)

## 3. Introduction

The CAHP is offered through a diverse portfolio of programs by SoCalGas and LADWP. Participation is open to single-family, low- and high-rise multi-family residential new construction built in a SoCalGas/LADWP shared service area. The CAHP is a comprehensive residential new construction concept with a cross-cutting focus on sustainable design and construction, green building practices, energy efficiency, and emerging technologies. Through a combination of education, design assistance and financial support, the CAHP works with building and related industries to exceed compliance with the California Code of Regulations, Title 24, Part 6, 2013 Building Energy Efficiency Standards for Residential and Nonresidential Buildings (Standards), to prepare builders for changes to the Standards and to create future pathways beyond compliance and traditional energy savings objectives.

The CAHP is designed for the performance-based approach for compliance. Compliance with the 2013 Title 24 Standards must be demonstrated through the performance method utilizing approved California Energy Commission (CEC) compliance software. The documents must be created and signed by a 2013 Title 24 code Certified Energy Analyst (CEA)\*. Compliance must be demonstrated for each building as a whole and may not group unrelated or detached buildings together.

## 4. General Requirements and Eligibility

The SoCalGas and LADWP CAHP is funded under the auspices of the California Public Utilities Commission (CPUC) and City of Los Angeles. Funding, incentive levels and program requirements may be revised during the program cycle. Applicants must contact their SoCalGas representative prior to submitting an application (see Section 8 for contacts).

\* For multi-family high-rise projects, a 2008 Code Certified Energy Analyst (CEA) or Certified Energy Plans Examiner (CEPE) signature will continue to be accepted until further notice.

## 4.1 Program Requirements

- 1 Incentives are only available to the participating builder for commodities that are provided by SoCalGas and LADWP.
- 2 Project must be submitted as detailed in Section 4.2, #3 prior to any HERS (Home Energy Rating System) testing beginning or drywall being installed on the units applying for incentives. Please check with your HERS rater prior to submitting your application packet to ensure the lots indicated on your application and lot list are eligible. All participating units must be new construction dwellings and modeled accordingly.
- 3 Applicant agrees to not accept duplicate funding from multiple utility-sponsored energy-efficiency programs for the same measures. Measures that save multiple fuel types can accept funding for EACH fuel type from ONE utility.
- 4 Participating projects must meet minimum program requirements for all orientations of plans submitted within the project, built after the date the Agreement is submitted. To ensure compliance of all homes when submitting a project using cardinal orientation, all plans and all orientations submitted must meet the minimum qualification criteria. If even one orientation does not comply, that entire plan is ineligible.
- 5 For verification purposes, all projects must contract with a certified HERS rater, even if HERS measures are not required. The HERS rater will be required to enter project verifications into the HERS registry for the CAHP certificate. This includes verifications of non HERS measures as applied in the projects' specified registry.
- 6 Incentive payments are available only to owners, builders or developers named on the Agreement.
- 7 Funds are limited and will be reserved on a first-come, first-served basis to projects that meet the program requirements. No payments will be made for any changes made to the unit that may affect compliance without prior written approval from your utility representative.
- 8 Contact your utility representative for additional program details and funding availability prior to submitting applications.
- 9 The funding for this program will expire December 31, 2019 or sooner. The IOUs will not accept agreements after December 15, 2016. Agreement is valid for 36 months from date of utility acceptance.

## 4.2 Program Process Overview

Contact your CAHP representative prior to submitting the Agreement and prior to construction to ensure that you have the most current CAHP information available. **Programs and/or incentive levels may be changed or cancelled without notice.** You will be appointed a utility representative from SoCalGas that will guide you through the entire process and to whom you will submit application materials. Submit the following to your utility representative for each plan type within the project:

- 1 A completed, original California Advanced Homes Agreement postmarked or received by utility no later than December 15, 2016, or sooner if funds are expended or fully committed. Complete one application per project and list all plans/models and building types.
- 2 A completed Appendix II Plan Review Checklist.
- 3 Title 24 Certificate of Compliance authored and signed by a 2013 Title 24 code CEA\*. This report must be accompanied by the CAHP Incentive Report (CIR) generated from the same simulation.
  - Single-family and low-rise multi-family projects may require a copy of the final Title 24 CF-1R and Utility Estimated Incentive Calculation Worksheet for each plan type.
  - High-rise multi-family projects require a copy of the final Title 24 PERF-1 Form, MECH- 1, MECH-2, MECH-3, MECH-4, MECH-5 (if duct credit is claimed), ENV-1, ENV-2 and Utility Estimated Incentive Calculation Worksheet for each building type.
  - **Multi-family buildings up to 25 units may utilize the unit-by-unit modeling approach. Buildings with more than 25 units must be modeled using the whole-building approach.**
  - Mixed-use projects must be modeled using residential space only; commercial/retail space must be removed from calculation. New construction projects involving commercial/retail space may be eligible for the joint SoCalGas/LADWP Savings By Design program. Check with your utility representative.
- 4 The electronic input file for the Title 24 energy compliance computer run for each model as constructed. This may be submitted on a CD or by email to the CAHP representative. Accepted electronic files are .RIBD for CBECC-Res, .CIBD for CBECC-Com and .bld for EnergyPro.

\* For multi-family high-rise projects, a 2008 Code Certified Energy Analyst (CEA) or Certified Energy Plans Examiner (CEPE) signature will continue to be accepted until further notice.

- 5 A complete set of construction plans including:
  - A set of architectural plans including floor plans, elevations and sections.
  - A subdivision lot map with North arrow for production home projects and multi-family projects.
  - A site plan with North arrow for custom homes.
  - A copy of the tract map (tentative or recorded), construction schedule with phases, lots and addresses when available.
- 6 Applicant contracts with a 2013 Title 24 code Certified Energy Plans Analyst (CEA)\* to prepare the Title 24 documentation and secures a HERS rater.
- 7 The utility may provide **design assistance within reason for viable projects. The utility will not provide funding for Title 24 documentation authors to reconstruct models or plans in the event of needed corrections.**
- 8 For high-rise inspection protocol contact your utility representative.
- 9 Upon completion of utility plan check, your utility will provide you with a letter of acceptance and Incentive Request Form (IRF)

Read all CAHP instructions, requirements, and terms and conditions contained herein. For additional program information, speak with your utility representative. The Applicant listed on the Agreement is responsible for submitting documentation that verifies compliance with CEC requirements to the utility's satisfaction.

In cases where measures and construction elements may vary from default or minimum efficiency values, CAHP may require supporting specifications sheets. Sign the Agreement and submit the package to your utility representative. Projects must be submitted as a complete package. Incomplete application packages will be returned to the applicant.

**Once you receive written approval from the utility:**

#### Construction and Inspection Phase

- 1 Ensure all applicable CF-2R forms are uploaded to the chosen HERS Registry for each home.
- 2 If applicable, obtain the appropriate CF-3R HERS rating certificates for each home upon completion of field verification; certificates must be submitted for the tested house according to CEC HERS sampling protocols. Be aware that the HERS

rater will be inspecting to ensure that all program measures are installed. Projects with "failures" are subject to CEC re-testing procedures and related fees at applicant's expense.

- 3 Before any inspections are uploaded to the HERS registry, notify your utility of any changes that will affect total energy use of the home, such as added or relocated windows, addition of "bonus" rooms or other areas not shown on the Title 24 submittal, changes in proposed HVAC or water heating equipment, and/or changes to building insulation. Changes made without notification may forfeit incentive payment.
- 4 If applicable, submit all additional documentation as requested by your utility or as shown on the Incentive Request Form (IRF) (e.g. lot site map with north arrow, etc.).

#### Verification by Utility

Prior to paying incentives, the utility will review all inspection documents to ensure CAHP compliance. The utility retains final authority to determine CAHP compliance and eligibility for incentives. Mail or email all correspondence to your utility representative.

*Sign the Agreement and submit the package to your utility representative. Projects must be submitted as a complete package. Incomplete application packages will be returned to the applicant.*

#### 4.3 General Building Requirements

To qualify for the incentive payment, each home covered by the Agreement must be:

- 1 A new construction project/home receiving electric distribution and/or natural gas distribution service from SoCalGas/LADWP. If the home only receives EITHER gas or electricity from SoCalGas/LADWP, it is only eligible for incentives related to that service. Seek the guidance of your utility representative to ensure incentives are maximized for both gas and electricity. Homes served by propane will not receive an incentive for propane savings.

\* For multi-family high-rise projects, a 2008 Code Certified Energy Analyst (CEA) or Certified Energy Plans Examiner (CEPE) signature will continue to be accepted until further notice.

- A single-family detached dwelling or two-dwelling building of any number of stories, R-3 occupancy, and on local IOU/POU residential rates. Structures detached from the primary residence that are residential living areas (e.g., casitas) must also meet all CAHP criteria but are not eligible for a separate incentive. OR
- A residential individually metered multi-family low-rise project. CAHP also accepts master metered multi-family affordable housing projects. Please seek your utility representative's guidance.
- Permitted under the 2013 Energy Efficiency Standards Residential Compliance Manual (Title 24) effective July 1, 2014 and achieving compliance using a CEC-approved computer method. The Prescriptive Compliance Method is not eligible. Projects must meet, at a minimum, CEC and CAHP installation and field verification requirements, as documented by a certified HERS Rater. OR
- A high-rise residential multi-family building, Occupancy Group R, division 1 with four or more habitable stories. Built to exceed the 2013 Energy Efficiency Standards Nonresidential Compliance Manual Title 24 standards for the applicable CEC-specified climate zone.
- Some modular manufactured housing may qualify when regulated by Title 24 standards (not HUD – U.S. Department of Housing and Urban Development). Please contact your utility representative for verification.

2 The following facilities do not qualify for participation: remodels, additions, manufactured housing, residential care facilities, hotels, motels, dormitories and community facilities. The utility offers a broad portfolio of other programs that may provide support to these facilities. Whole-house retrofits may qualify, please contact your utility representative.



The following defines the dwelling unit types that are program participants.

### Single-family Project Building Design Type

**Detached:** A single-story or multiple-story structure consisting of one unit not attached to another building (except a garage or casitas). This may be either a custom home or part of a larger project consisting of multiple units/lots.

**Duplex:** A structure consisting of two dwelling units. The duplex can be a single structure or part of a larger project consisting of multiple structures and units but must be modeled as two separate units.

**Townhome:** A single-family dwelling unit constructed in a group of three or more attached units in which each unit extends from the foundation to roof and with open space on at least 2 sides. Must be modeled as individual separate units.

### Multi-family Project Building Design Type

**Attached/Condominium:** A single- or multiple-story structure consisting of three or more dwelling units. The dwelling units are owned by the occupants. Does not apply to townhomes (see above).

**Apartment:** A single- or multiple-story structure consisting of three or more dwelling units. The dwelling units are not owned by the occupants.

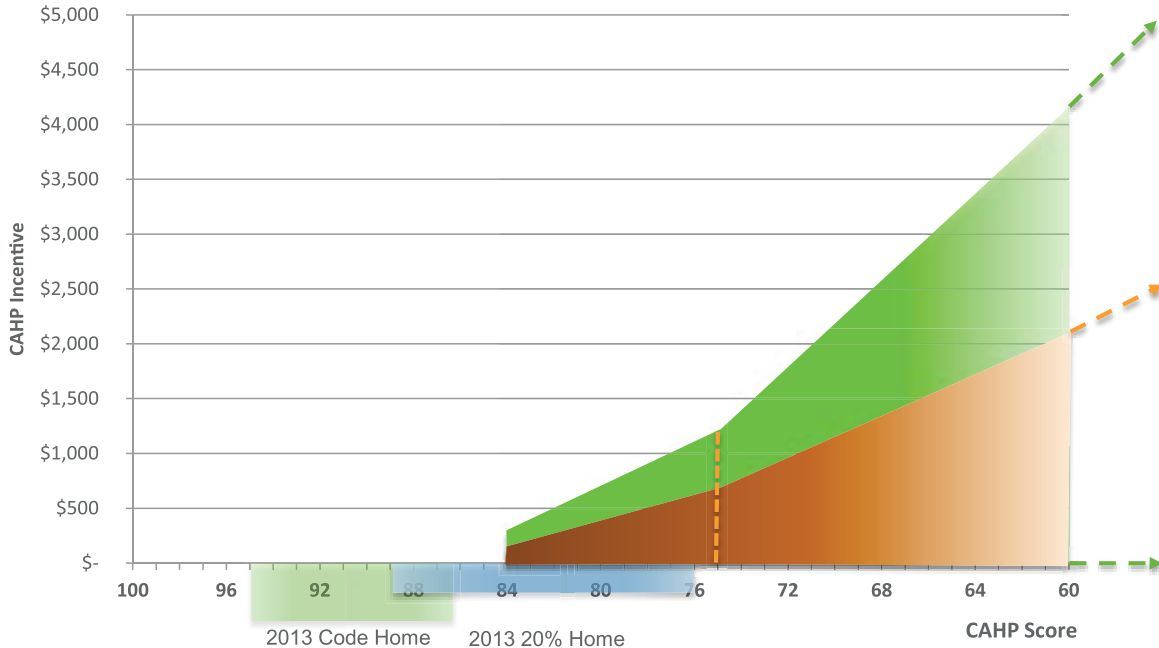
## CAHP Incentive Structure

### CAHP: Single-family

- \$300 for program entry CAHP Score of 84
- \$100 for each point down to 75
- \$200 for each point thereafter

### CAHP: Multi-family Low-rise

- \$150 for program entry CAHP Score of 84
- \$50 for each point down to 75
- \$100 for each point thereafter



## 5. Financial Incentives

### 5.1 Incentive Eligibility (Single-family and Multi-family Low-rise)

For Single-family and Multi-family Low-rise, the minimum performance requirement is CAHP Score of 84. The estimated incentives increase incrementally as the performance of the structure increases.

The custom incentive for each building is calculated by the Title 24 energy modeling software and displayed in the CAHP Incentive Report (CIR). Incentives are specific to the orientation of each building and number of units for each multi-family building.

### 5.2 Incentive Eligibility (Multi-family High-rise)

For Multi-family High-rise the minimum baseline qualification is 10 percent above 2013 Title 24 building code. The custom incentive for each building is calculated by the Title 24 energy modeling software and displayed in the CAHP Incentive Report (CIR). Incentives are specific to the orientation of each building and

number of units for each multi-family building. The flat-rate incentive per unit will be \$150 for buildings achieving 10 percent to 29.9 percent above 2013 Title 24 building code, and \$400 per unit for buildings achieving 30 percent or better above 2013 Title 24 building code. For Multi-family High-rise projects the maximum incentive per project is \$250,000 (includes incentives and bonus kickers). For all projects reaching the \$250,000 cap, a 10 percent retention fee (\$25,000) will be held back from payment until the entire project is complete and all documentation has been submitted.

### 5.3. Additional Financial Incentives

The 2014-16 CAHP offers additional incentives to projects that include one or more of the below project elements.

NOTE: Multiple kickers can be claimed on a project.

CAHP Points can further reduce a project's CAHP Score and increase the associated incentive. CAHP Points are included in the Title 24 compliance software and are shown on the CAHP Incentive Report (CIR). At this time CAHP Points are only applicable to Single-family and Multi-family Low-rise projects.



### Future Code Preparation - 5 CAHP Points

Include all of the following measures to qualify for five additional CAHP Points:

- High R-value Walls R-21 + 4 and 2x6 (0.051 U-value or better)
- Heating and Cooling Distribution Efficiency - Ducts and Air-handler in conditioned space (DCS)/Ductless, or see your utility for other options
- High Performance Water Heating - Tankless gas or Condensing gas storage water heater, or see your utility for other options
- Quality Insulation Installation (QII)
- ACH3 at 50Pa (IECC minimum)

**DOE Zero Energy Ready Home** (formally known as DOE Challenge Home) - **3 CAHP Points**  
([www.energy.gov/eere/buildings/zero-energy-ready-home](http://www.energy.gov/eere/buildings/zero-energy-ready-home))

**Low Energy Use bonus** (<=100,000 kTDV/year - Single-family ONLY) - **5 CAHP Points**

**Ultra Low Energy Use bonus** (<=60,000 kTDV/year - Single-family ONLY) - **5 CAHP Points**

**High Efficacy Lighting bonus - 3 CAHP Points**  
Contact your CAHP utility representative for more information.

## California ENERGY STAR New Homes Program—Marketing Support Bonus

Projects that comply with ENERGY STAR standards will be offered free ENERGY STAR marketing materials. IOUs will provide a materials catalog including banners, brochures, stickers and more. Each project will be given a budget of \$10 per multi-family unit and \$40 per single-family unit. Please contact your local IOU for details. ENERGY STAR is a national, voluntary program sponsored and developed by the United States Environmental Protection Agency (EPA) that promotes energy-efficient products, including homes. Homes that have earned the ENERGY STAR label meet the EPA's performance guidelines for energy efficiency following third-party verification from an accredited organization. Further information can be reviewed at the EPA ENERGY STAR Internet site, [www.energystar.gov](http://www.energystar.gov).

## Thermostatic Shower Restriction Valve—\$7/unit or \$15/set when combined with Low-Flow Showerhead

Projects that install thermostatic shower restriction valves in SoCalGas/LADWP service territories where

water heating fuel is natural gas only are eligible for this incentive. Large quantities of water and natural gas are wasted during the time that residents wait for their showers to heat up. These valves operate by shutting off the water flow once the desired water temperature has been reached. This measure is not allowed when combined with tankless water heaters or recirculation pumps. The incentive increases to \$15 per unit when combined with a low-flow showerhead. To qualify, the low-flow showerhead must pass test procedure ANSI/ASME A112.18.1-2000, Section 5.5, and have a flow rate equal to or less than 1.6 gallons per minute. This measure is not available on the Utility Estimated Incentive Calculation Worksheet. Please fill out "Low-flow Showerhead/Thermostatic Shower Restriction Valve Installation Details" form to apply for this kicker. Project must meet core incentive CAHP requirements to be eligible for this incentive.

## 6. Terms and Conditions

I, the Applicant, agree to the following terms and conditions ("the Agreement"):

- 1 I meet the CAHP eligibility requirements as stated in the appropriate attachment(s) included with this Application.
- 2 The information I have supplied on this Agreement and attachment(s) is true, correct and complete.
- 3 I have read and understand the terms and conditions of the Agreement and on the appropriate attachments and agree to abide by the rules, requirements and terms set forth on the Agreement and all attachments.
- 4 If the Agreement is terminated for any reason, Utility shall not be liable to the Applicant for damages or compensation of any kind.
- 5 Utility reserves the right to determine eligibility for the Incentive.
- 6 Utility makes no representation or warranty, and assumes no liability with respect to quality, safety, performance or other aspect of any design, system or appliance installed pursuant to the agreement, and expressly disclaims any such representation, warranty or liability. Applicant agrees to indemnify utility, its affiliates, subsidiaries, parent company, officers, directors, agents and employees against all loss, damage, expense, fees, costs and liability arising from any measures installed. Such indemnification shall include but not be limited to claims of death, bodily injury, property damage (including environmental damage) or loss of use.
- 7 Both funding and the conditions of the incentive are subject to the jurisdiction of the California



Public Utilities Commission (CPUC) and shall be subject to such changes or modifications as the CPUC may, from time to time, direct in the exercise of its jurisdiction.

If there are changes in the estimated incentive, utility will endeavor, but cannot guarantee, to provide a reasonable period of time before changes go into effect.

- 8 SoCalGas will pay the electric portion of the incentive for the project on behalf of LADWP until December 31, 2014. If the inter-utility agreement between SoCalGas and LADWP is not renewed, the electric incentive will be paid directly by LADWP after this date, subject to funding availability.
- 9 I understand that by signing this agreement, I am authorizing all project-related customer information to be shared between SoCalGas and LADWP, as well as with their assignees or affiliates as necessary. NOTE: The Authorization to Release Customer Information within this agreement is completely optional and should only be signed if the customer is participating in a supplemental energy efficiency program sponsored by a county or municipal utility and agrees to have their information shared. If the customer is a participant, then the customer is required to complete and sign the Authorization to Release Customer Information in order for project information to be shared with the municipality or county program.
- 10 As a convenience to the customer, SoCalGas is working with the counties and municipal utilities in the State of California to coordinate CPUC funded programs with county funded and/or municipal utility funded programs. With the completion of this Authorization to Release Customer Information, SoCalGas will provide the county and/or the municipal utility, its representatives and contractors with the customer information provided through participation to enable the customer to be eligible for the county and/or municipal utility energy efficiency funds. If signed, the customer's information will no longer remain confidential. This release is not required to participate in California Advanced Homes Program.
- 11 I understand the incentive requires inspections and measurements of the performance of the measures. Therefore, I agree to provide access to the project site for these purposes to utility and/or its agents or assigns and the CPUC and/or its agents or assigns.
- 12 I agree to release utility, its affiliates, parent company, officers, managers, directors, agents and employees from all claims, demands, losses, damages, costs, expenses and liability (legal, contractual, or otherwise), which arise from or are in any way connected with any: (1) injury to or death of persons, including but not limited to employees of utility, customer, or any third party; (2) injury to property or other interests of Utility, Applicant or any third party; (3) violation of local, state, or federal common law, statute, or regulation, including but not limited to environmental laws or regulations; (4) energy savings shortfall; so long as such injury, violation, or shortfall (as set forth in (1)–(4) above) arises from or is in any way connected with the project, including any third party's performance of or failure to perform the project, however caused, regardless of any strict liability or negligence of utility, its officers, managers, or employees.
- 13 Energy savings for which incentives are paid cannot exceed the actual usage provided by utility. Non-utility supply, such as cogeneration or deliveries from another commodity supplier, does not qualify as usage from utility (with the exception of direct access customers or customers paying departing load fees for which the utility collects PPP or PGC charges).
- 14 Funding approved for this incentive is limited and will be paid on a first-come, first-served basis to qualified applicants. Funds will only be reserved upon utility's execution of the Agreement. This incentive offer is subject to the availability of authorized funds.
- 15 Installation of any energy-efficient equipment required for compliance with 2013 Title 24 will not qualify for incentives. Energy efficiency improvements beyond 2013 Title 24 requirements or a generally accepted industry standard, where applicable, may be eligible for incentives.

- 16 Specific restrictions may apply to each energy-efficiency system, as outlined in the instructions and attached project forms.
- 17 To be eligible for incentives, I agree that I will not apply for or receive incentives offered by local or state entities or other utilities for measures and associated fuel savings covered under this Agreement.
- 18 Utility may suspend or terminate the Agreement, without cause, upon written notice to me.
- 19 I understand the following tax liability provisions: Utility will report incentives greater than \$600 as income to me on IRS form 1099 unless: (1) I have marked the "Corporation" or "Exempt" tax status box, or (2) the Payment Release Authorization Form has been completed, in which the designated party will be responsible for tax liability. Utility recommends that I consult a tax adviser concerning the taxability of incentives. Utility is not responsible for any taxes that may be imposed due to incentive payments.
- 20 I understand once an acknowledgement receipt is issued for this Application under a Customized Energy Efficiency Program, the Application will be processed under that program. If the Application is withdrawn at any time in the process, I may only resubmit an Application for the same project in the same program, under specific circumstances approved by the program manager.
- 21 I understand the utility may use the services of external consultant(s) for plan review and/or other functions related to the submitted projects. I hereby authorize the utility to share any of the submitted project information with the consultants, expressly for this purpose.
- 22 I understand that program timing, rules and requirements may be modified by each utility in their territory, or by the program as a whole, at any time.
- 23 To afford an even distribution of funds for projects under this program, owners, builders and developers may be required to demonstrate the viability of the project for which they are applying. Following the approval of the Agreement and within a three (3) month period, the applicant may be asked to supply documents that reflect a commitment to timely construction.  
The following documents may be required:
  - Grading permit
  - Building permit
  - Approved construction schedule from the governing entity
  - Financing and other pertinent documents



If, after review of these documents, the utility determines that the project is not progressing, the Agreement may be cancelled. If these documents are not available, the applicant must demonstrate that the project is in the process of obtaining construction permits. If this Agreement is cancelled, the applicant may reapply at a later date. Applications will be accepted and estimated incentives will be committed based upon the funds available at the time of reapplication.

## 7. Photovoltaic (PV) Incentives

In addition to the CAHP, LADWP's Solar Incentive Program encourages the installation of solar PV capacity in Los Angeles. The incentive levels for this program are structured as a 10-step declining incentive, based on the amount of solar PV requested and interconnected to the LADWP's electric grid.

For additional information please go to: [ladwp.com/solar](http://ladwp.com/solar)

## 8. For More Information

Further information regarding the CAHP and participation can be obtained from a utility representative. The representative can work with the design team to determine which program path is best suited to the project and how to optimize its energy efficiency. Additionally, the utility offers design assistance for project review and training classes.

### Contact Information

#### Southern California Gas Company

Phone: 866-563-2637

Email: [NewHomes@socalgas.com](mailto:NewHomes@socalgas.com)

Additional information is available at [socalgas.com/cahp](http://socalgas.com/cahp).

## 9. Calculation Instructions

### EXAMPLE

Use the following tables to determine Incentives Per Lot. This example assumes a Single-family (SF) final CAHP score of 63, enter the amount of \$3,600 in the Incentives per Lot Column.

**If you select SF or MFLR, use the table below to determine what to input in Incentives Per Lot column.  
If you select MFHR1 enter \$150 in Incentives Per Lot, if you select MFHR2, enter \$400 in Incentives Per Lot**

Plan Name	Orientation	Square Footage	SF/ MFLR/ MFHR1/2	SF/MFLR Initial CAHP Score	SF/MFLR CAHP Points	SF/MFLR Final CAHP Score	Incentives Per Lot*	Est. # Units in Plan		Est. Incentive
ABC Plan	N	1,800	SF	68	5	63	\$3,600	x 4	=	\$14,400

Plan Name	Orientation	Square Footage	SF/ MFLR/ MFHR1/2	SF/MFLR Initial CAHP Score	SF/MFLR CAHP Points	SF/MFLR Final CAHP Score	Incentives Per Lot*	Est. # Units in Plan		Est. Incentive
XYZ Plan	E	1,200	MFHR2				\$400	x 50	=	\$20,000

Final CAHP Score		SF Incentive	MFLR Incentive
84	=	\$300	\$150
83	=	\$400	\$200
82	=	\$500	\$250
81	=	\$600	\$300
80	=	\$700	\$350
79	=	\$800	\$400
78	=	\$900	\$450
77	=	\$1,000	\$500
76	=	\$1,100	\$550
75	=	\$1,200	\$600
74	=	\$1,400	\$700
73	=	\$1,600	\$800
72	=	\$1,800	\$900
71	=	\$2,000	\$1,000
70	=	\$2,200	\$1,100
69	=	\$2,400	\$1,200
68	=	\$2,600	\$1,300
67	=	\$2,800	\$1,400

Final CAHP Score		SF Incentive	MFLR Incentive
66	=	\$3,000	\$1,500
65	=	\$3,200	\$1,600
64	=	\$3,400	\$1,700
63	=	\$3,600	\$1,800
62	=	\$3,800	\$1,900
61	=	\$4,000	\$2,000
60	=	\$4,200	\$2,100
59	=	\$4,400	\$2,200
58	=	\$4,600	\$2,300
57	=	\$4,800	\$2,400
56	=	\$5,000	\$2,500
55	=	\$5,200	\$2,600
54	=	\$5,400	\$2,700
53	=	\$5,600	\$2,800
52	=	\$5,800	\$2,900
51	=	\$6,000	\$3,000
50*	=	\$6,200	\$3,100

MFHR Incentive		
MFHR-1	=	\$150
MFHR-2	=	\$400

\*If CAHP Score is below 50 please add the following dollar amount per point reduction:  
SF \$200/MFLR \$100



Project Number (Internal Use Only) \_\_\_\_\_

**2014-16 California Advanced Homes™ Program  
Single-Family/Multi-Family Incentive Agreement**

Minimum energy use requirements for participation in the California Advanced New Homes Program: For Single-family and Multi-family Low-rise, the minimum performance requirement is CAHP Score of 84. For Multi-family High-rise the minimum baseline qualification is 15 percent above 2013 Title 24 building code.

**APPLICANT/PAYEE INFORMATION**

Applicant/Builder Name		
Utility Representative	Payee Name	
Federal Tax ID # (or) Social Security #	<input type="checkbox"/> Corporation <input type="checkbox"/> Non Corp <input type="checkbox"/> Individual <input type="checkbox"/> Exempt If exempt, describe why:	
Payee Address	Payee City	Payee ZIP

**PROJECT INFORMATION**

Project Name	Climate Zone	
Project Address/Location	Project City	Project ZIP
Project Contact	Contact Telephone Number	
Fax Number	Email	
Permitting Agency	Permit Date	
Start Date	Estimated Completion Date	
HERS Provider (i.e. HERS Registry)	HERS Company	
HERS Email	HERS Address	
HERS Rater	HERS Rater Telephone Number	

**PROJECT TYPE**

Please Select Single-family or Multi-family:	<input type="checkbox"/> Single-family - Please select housing type: <input type="checkbox"/> Custom Home <input type="checkbox"/> Production Home (2 or more units) <input type="checkbox"/> Duplexes (2 attached units) <input type="checkbox"/> Townhomes (see definition in handbook)	<input type="checkbox"/> Multi-family - Please select housing type: <input type="checkbox"/> Low-rise (Less than 4 stories) <input type="checkbox"/> High-rise (4 stories or more)
	Please verify that LADWP is providing electricity to the project: <input type="checkbox"/> Yes <input type="checkbox"/> No   if no, please explain:	
Please verify that SoCalGas is providing natural gas to the project: <input type="checkbox"/> Yes <input type="checkbox"/> No   if no, please explain:		
Is a company providing propane to the project? <input type="checkbox"/> Yes <input type="checkbox"/> No   If yes, list company:		
Tract Number	Total # of Plan Types in Project	
Phase Number(s)	Lot Number(s)	
# of Units to Complete in:	2016 _____	2017 _____
	2018 _____	2019 _____
	Total _____	

**GENERAL INSTRUCTIONS AND REQUIREMENTS**

- 1 Call your local utility representative for details and funding availability on the California Advanced Homes Program (CAHP) prior to submitting this agreement. Funds are limited and will be reserved on a first-come, first-served basis to projects that meet the Program requirements. No payments will be made for any energy-efficient upgrades installed without prior written approval from your local utility.
- 2 Review the CAHP Participant Handbook and Terms and Conditions.
- 3 Complete one form per project and list ALL plans/building types. Incentive payments are available only to owners, builders or developers named on the CAHP Incentive Agreement.
- 4 No projects will be accepted after drywall has been installed in enrolled units.

**UTILITY INCENTIVE CALCULATION WORKSHEET** (Please attach supplement for additional plans):  
**Based on Final CF-1R and/or PERF-1 Form as filed for your building permit**  
 (Measures/Incentives will be verified by field inspection)

Plan Name	Ori-entation	Square Footage	SF/ MFLR/ MFHR1/2	SF/MFLR Initial CAHP Score	SF/MFLR CAHP Points	SF/MFLR Final CAHP Score	Incentives Per Lot*	Est. # Units in Plan		Est. Incentive
* Please see Section 9 for Incentives Per Lot Calculation Instructions										
								X	=	
								X	=	
								X	=	
								X	=	
								X	=	
								X	=	
								X	=	
								X	=	
								X	=	
								X	=	
								X	=	
								X	=	
								X	=	
								X	=	
								X	=	
								X	=	
								X	=	
<b>Subtotal for Core + Kickers</b>									=	
# of Shower Restriction Valves, normal flow				# of Shower Restriction Valves, low-flow						
Incentive amount may vary according to final inspection results.								<b>Total Incentive</b>		=
Energy Star Marketing Support Bonus		Total SF Units		(at \$40 per unit); Total MF Units			(at \$10 per unit)			=

**UTILITY USE ONLY**

Date Agreement Received	Date Agreement Approved
Date of First Contact	Authorized Signature
Title	Date
Resubmittal Adjustment	Utility Manager Approver
Plan Check Approval	

**LADWP Project Acceptance**

Name	Title
Date	Signature

**APPLICANT AGREEMENT**

I, the undersigned, agree that:

- 1 I have read and understand and agree to abide to the 2014-16 California Advanced Homes Program rules, requirements and terms and conditions set forth in this Agreement and in the Handbook.
- 2 The information that I have supplied on this Agreement is true, correct and complete.
- 3 This project is not receiving duplicate funding from multiple utility sponsored energy efficiency programs for the same measures and associated fuels.
- 4 I agree to permit the Utility to discuss all aspects of this project with my Energy Consultant and/or HERS Rater.
- 5 I understand that this agreement is valid for 36 months from date of utility acceptance.

Company Name \_\_\_\_\_

Applicant Name (Print) \_\_\_\_\_ Title \_\_\_\_\_

Signature \_\_\_\_\_ Date Signed \_\_\_\_\_



Phone: 866-563-2637  
 Email: NewHomes@socalgas.com  
[www.socalgas.com/cahp](http://www.socalgas.com/cahp)





**Please provide the following documentation for participation in the  
California Advanced Homes Program and/or New Solar Homes Partnership**

*The purpose of this checklist is to expedite the required plan check process.*

*Agreements submitted without the following documents will be returned to Applicant.*

**A complete set of construction plans which contain the following:**

- Architectural drawings (electrical, mechanical and plumbing may also be required). When submitting electronic plans, a CD is preferred.
- A window and door schedule that shows sizes and includes ALL skylights.
- Elevation, wall, roof, floor construction assemblies.
- Floor finish schedule (a.k.a. floor covering schedule) if CF-1R shows high-mass design.
- A list of lots, addresses, and their respective plan numbers. Not available for custom homes.
- For custom homes, a site plan with North arrow. For subdivisions, a subdivision map with North arrow.
- Plans may be submitted electronically either as a PDF file or using a file extension of .dwf. PLAN SIZE MUST BE FULL- OR HALF-SIZE.

**Title 24 forms and files:**

- Certificate of Compliance Form (CF-1R for low-rise residential or a PERF-1 for high-rise residential) and the CAHP Incentive Report (CIR) signed by a 2013 Title 24 code Certified Energy Analyst (CEA)\*.
- The electronic input files that generated the signed 2013 Title 24 code Certificate of Compliance Form (preferably via e-mail). This file will have file extension ".bld" for EnergyPro or .RIBD for CBECC-Res, .CIBD for CBECC-Com. Please note - only plans on the application should be submitted and uploaded.

**Equipment and materials documentation (if required by utility):**

- Windows, glazed doors, skylights—specification sheet with manufacturer's name that demonstrates NFRC rated U-factor and Solar Heat Gain Coefficient (SHGC)
- Space heating equipment—specification sheet with manufacturer's name/model number and efficiency rating for each unit
- Air conditioner—specification sheet with manufacturer's name/model numbers for condenser/coil match or AHRI reference number for each proposed unit ([www.ahridirectory.org](http://www.ahridirectory.org)) that has an efficiency rating GREATER than SEER 13, EER 11
- Water heater—specification sheet with manufacturer's name/model number and efficiency rating. If installing a Solar Water Heater, a CF-SR is required.
- Specification sheets for any special features as included in your Title 24 calculations report

\* For multi-family high-rise projects, a 2008 Code Certified Energy Analyst (CEA) or Certified Energy Plans Examiner (CEPE) signature will continue to be accepted until further notice.



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