

Program Process

California Advanced Homes Program

Pacific Gas and Electric Territory

Administered by TRC



Agenda

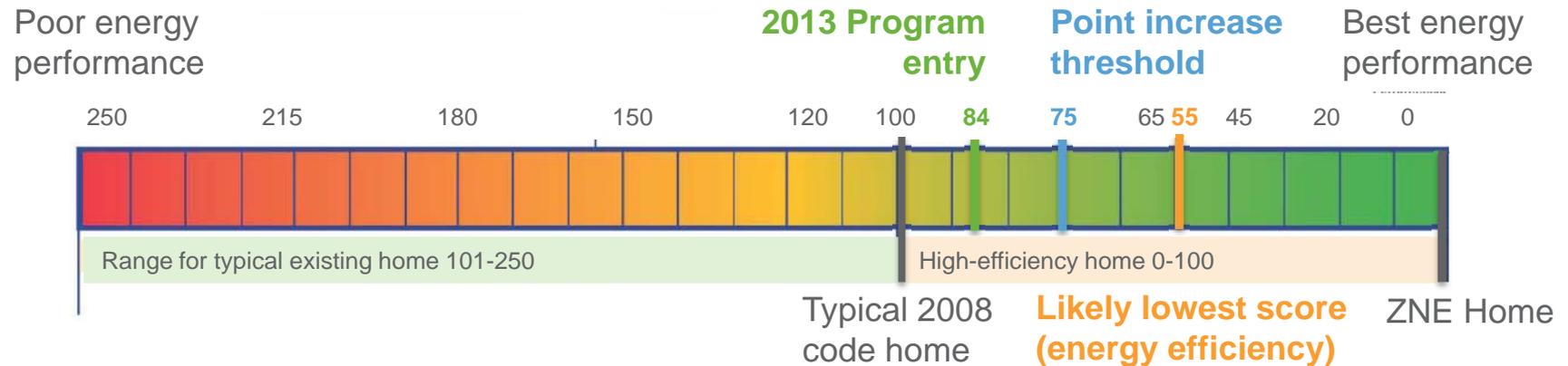
1. CAHP Score
2. Enrollment Process



Redesign for 2013 Title 24 CAHP Score

New Title 24 - New Program

CAHP scores replace percent better than code



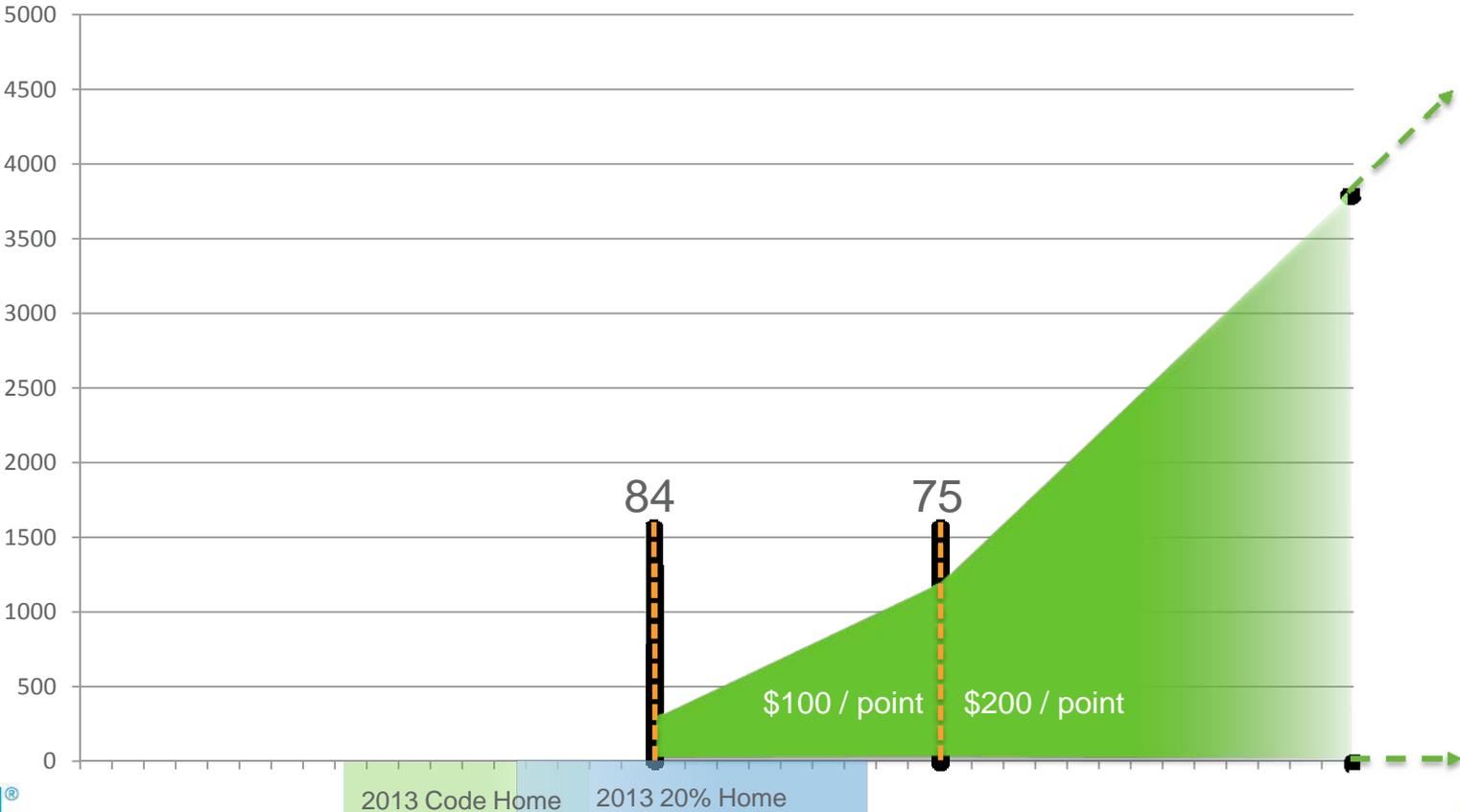
- Similar to the RESNET HERS Score (0-250)
- A lower score equates to better performance and a higher incentive

CAHP Incentive Structure

Per home:

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

Average incentive per home is expected to be around \$1,000



2013 Code Home 2013 20% Home



CAHP Incentive Structure

Final CAHP Score		Incentive Amount		Final CAHP Score		Incentive Amount		Final CAHP Score		Incentive Amount
84	=	\$300		72	=	\$1,800		60	=	\$4,200
83	=	\$400		71	=	\$2,000		59	=	\$4,400
82	=	\$500		70	=	\$2,200		58	=	\$4,600
81	=	\$600		69	=	\$2,400		57	=	\$4,800
80	=	\$700		68	=	\$2,600		56	=	\$5,000
79	=	\$800		67	=	\$2,800		55	=	\$5,200
78	=	\$900		66	=	\$3,000		54	=	\$5,400
77	=	\$1,000		65	=	\$3,200		53	=	\$5,600
76	=	\$1,100		64	=	\$3,400		52	=	\$5,800
75	=	\$1,200		63	=	\$3,600		51	=	\$6,000
74*	=	\$1,400		62	=	\$3,800		50	=	\$6,200
73	=	\$1,600		61	=	\$4,000		49	=	\$6,400

**After a CAHP Score falls below 75, \$200 per point reduction is added*



2014 CAHP Project Examples

Location	San Jose (CZ 4)	Riverside (CZ 10)	San Diego (CZ 7)	Fresno (CZ 13)
Building Type	2,100 default	2,100 default	2,100 default	2,100 default
CAHP Score	81	69	80	55
Annual Energy Use (kTDV)	154,749	152,712	116,970	165,858
EE Measures	2013 Prescriptive, Plus:	2013 Prescriptive, Plus:	2013 Prescriptive, Plus:	2013 Prescriptive, Plus:
Envelope	<ul style="list-style-type: none"> • QII 	<ul style="list-style-type: none"> • QII • R-21 wall cavities • U28/S22 windows • 3.0 ACH50 blower door • Cool Roof (0.90 emit.) 	<ul style="list-style-type: none"> • QII 	<ul style="list-style-type: none"> • QII • R-21 wall cavities • R-8 ext wall insulation • R-10 24" slab edge insulation • 24" OC stud spacing • R-13 roof deck insulation • U28/S22 windows • 1.0 ACH50 blower door • Cool roof (0.90 emit.)
HVAC	<ul style="list-style-type: none"> • SEER 14/EER 12, 84% AFUE 	<ul style="list-style-type: none"> • SEER 14/EER 12, 84% AFUE 	-	<ul style="list-style-type: none"> • SEER 18/EER 14, 95% AFUE
DHW	<ul style="list-style-type: none"> • 0.82 EF tankless 	-	<ul style="list-style-type: none"> • 0.97 EF tankless • All pipes insulated 	<ul style="list-style-type: none"> • 0.97 EF Tankless • All pipes insulated
Other	-	<ul style="list-style-type: none"> • R-8 ducts 	-	<ul style="list-style-type: none"> • R-8 ducts • Ducts in conditioned space
Incentive*	\$500	\$2,300	\$600	\$5,100

**Individual results may vary considerably*



CAHP Incentive Bonuses

Future Code Preparation – 5 CAHP points

- Must meet five measures, explained on the [CAHP website](#)

(Measures include: High Performance Attic/Ducts in Conditioned Space & R21+4 walls/performance equivalent)

DOE Zero Energy Ready Home – 3 CAHP points

- www.energy.gov/eere/buildings/zero-energy-ready-home

Low Energy Use bonus – 5 CAHP points

- Use is less than 100,000 kTDV/year

Ultra Low Energy Use bonus – 5 CAHP points

- Use is less than 60,000 kTDV/year

Calculate Your Score

Automatic: energy model outputs include Incentive Report

Manual: Use the Score and Incentive Tool (available on the cahp-pge.com website>Program> [CAHP Score & Incentive Tool](#))

Compliance %	25.2%
Initial CAHP Score	75
CAHP Bonus Points	0
Final CAHP Score	75
CAHP SF Incentive \$	1,200
Total Annual KTDV	261,575.68

The screenshot shows the CAHP website interface. At the top, there is a green header with the 'california advanced homes' logo and contact information: 'Toll Free (866) 352-7457', '11211 Gold Country Blvd, Suite 103', and 'Gold River, CA 95670'. Below the header is a navigation menu with 'Home', 'Program', 'Incentives', 'Projects', 'Training & Events', and 'Resources'. The 'Program' menu item is highlighted with an orange box. Below the navigation is a section titled 'ABOUT THE PROGRAM' with a detailed description of the program's goals and objectives. To the right of this section is a sidebar titled 'PG&E CAHP RESOURCES' containing several green buttons: 'Application', 'Process Timeline', 'IRF Checklist', 'Adjustment Application', and 'Adjustment Checklist'. Below the 'ABOUT THE PROGRAM' section is a 'PROGRAM NEWS' section with a link to a PDF document. At the bottom of the page, there is a grey box with the text 'CAHP Score & Incentive Tool' in green, which is highlighted with a green arrow pointing from the text in the main document above.

Questions?



Next up: Enrollment process for the 2014 program



Enrollment Process 2014 CAHP



2014 Program Participation Eligibility

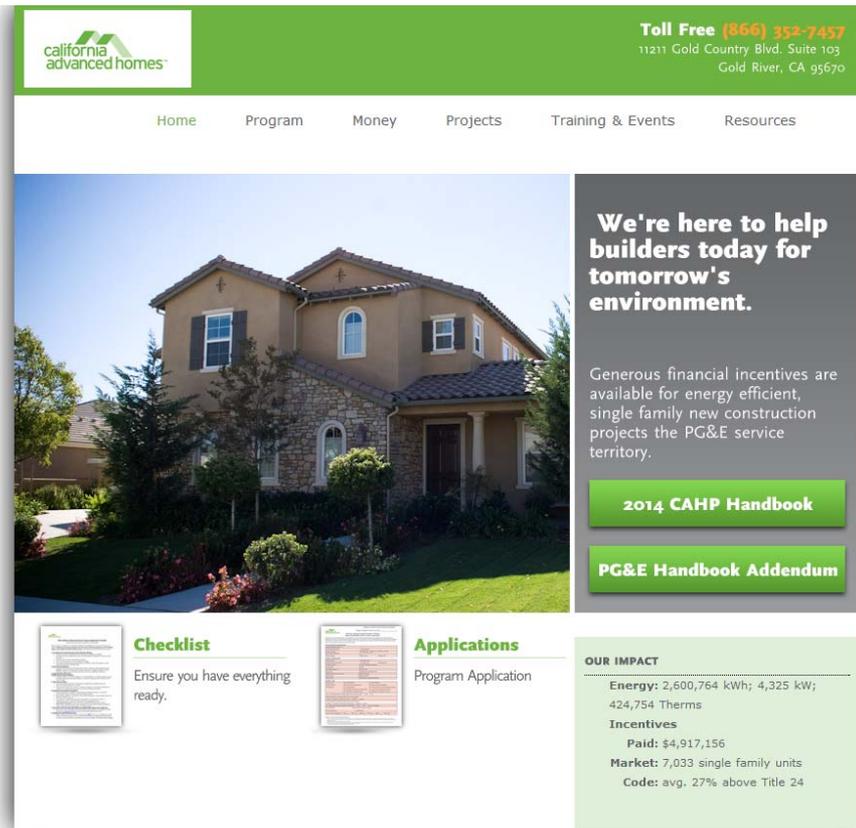
Permitting under 2013 Title 24 standards	Permits must be issued July 1, 2014 or after
PG&E service area for both gas and electric for full incentives	If only gas or electricity (not both) the project may receive partial incentives
New construction	Gut rehabs down to the studs with all new equipment may apply
Single family homes, duplexes	Townhomes with air spaces and no shared walls may apply
Minimum CAHP Score of 84	See the CAHP Program Handbook for additional eligibility requirements



CAHP – Complete Application Package

1. 2014 CAHP Application
2. PDF construction plans
3. Lot list (production homes)
4. Site map with North arrow
5. PG&E service verification
6. Title 24 forms and input files
7. Equipment specifications
8. Registry sharing
9. Enrollment survey*

*Completed one time per builder.



The screenshot shows the California Advanced Homes website. At the top left is the logo for California Advanced Homes. To the right of the logo is the contact information: Toll Free (866) 352-7457, 11211 Gold Country Blvd., Suite 103, Gold River, CA 95670. Below the logo and contact info is a navigation menu with links for Home, Program, Money, Projects, Training & Events, and Resources. The main content area features a large image of a two-story house. To the right of the image is a text box that reads: "We're here to help builders today for tomorrow's environment." Below this text is a paragraph: "Generous financial incentives are available for energy efficient, single family new construction projects the PG&E service territory." Below the paragraph are two green buttons: "2014 CAHP Handbook" and "PG&E Handbook Addendum". At the bottom of the page, there are three sections: "Checklist" with the text "Ensure you have everything ready.", "Applications" with the text "Program Application", and "OUR IMPACT" with the following data: Energy: 2,600,764 kWh; 4,325 kW; 424,754 Therms; Incentives Paid: \$4,917,156; Market: 7,033 single family units; Code: avg. 27% above Title 24.

CAHP– Enrollment Process

Steps to get started and best practices:

1. Download application, handbook, and checklist from the TRC CAHP website: www.cahp-pge.com
2. Submit entire application package (see [checklist](#)) as soon as possible to allow time for review.
3. Clearly label all documents
4. Use highlighter or circle the exact model and efficiency of planned installations on all specification sheets.
5. Maintain communication with your project team

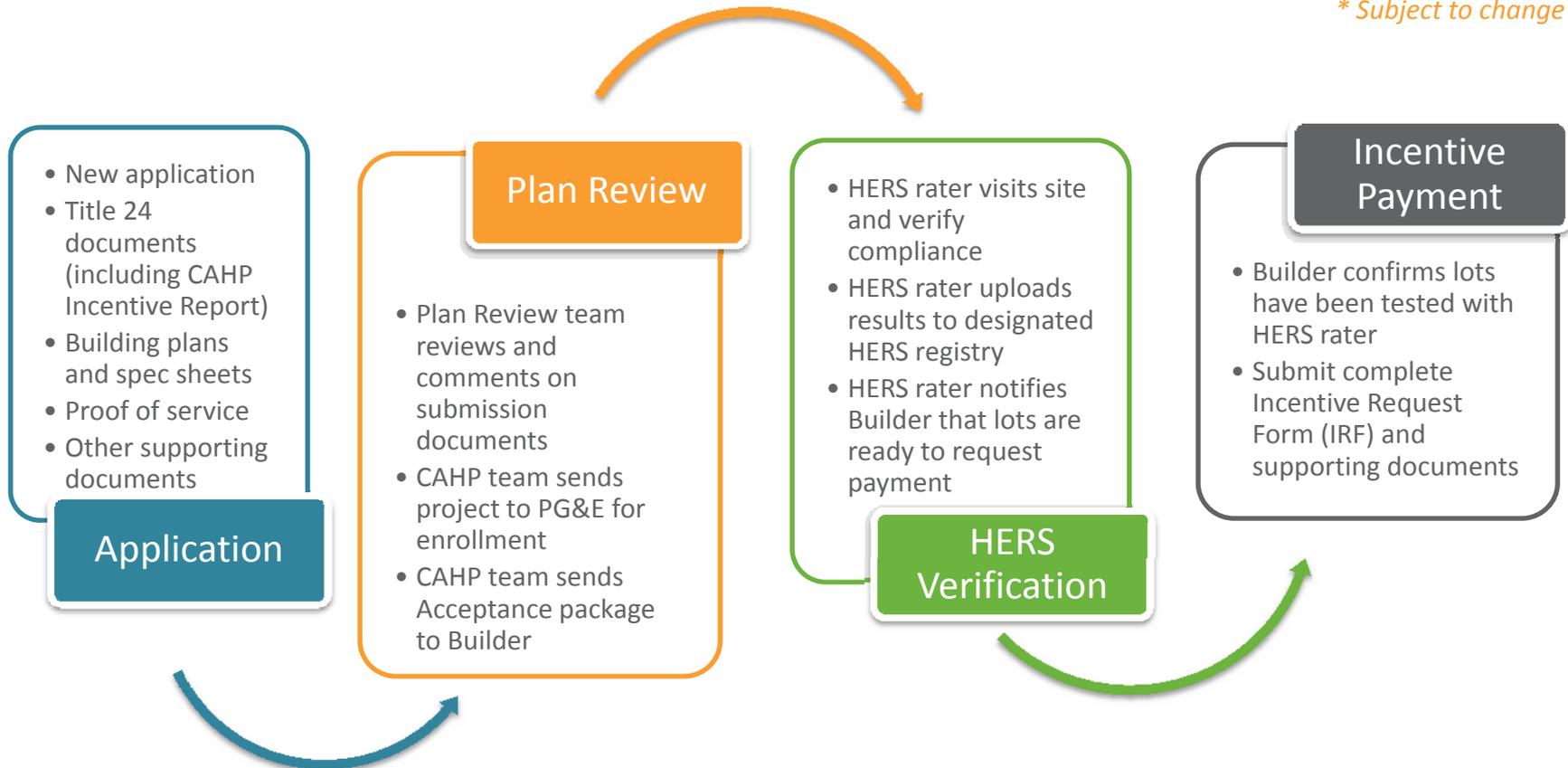
**Remember – we are happy to help!
Feel free to contact us with your questions.**



2014 CAHP Participation Process

Overall process remains similar to prior program cycle with the exception that a project must complete plan review before drywall is installed and HERS testing begins*.

** Subject to change*



Free Design Assistance

CAHP can coordinate with your project team to:

- Optimize energy savings and incentives
- Maximize home/building performance
- Exceed Title 24 standards
- Reach high-incentive bonus CAHP points

How to request design assistance:

- Engage early
- Contact Kevin Robison or Matthew Christie
- Receive ongoing design assistance during plan review



Thank you!

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TRC's CAHP Website:

<http://cahp-pge.com>

(866) 352-7457

cahp@trcsolutions.com



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