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
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

- $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

Per home:

2013 Code Home  2013 20% Home
## CAHP Incentive Structure

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

*After a CAHP Score falls below 75, $200 per point reduction is added*
## 2014 CAHP Project Examples

<table>
<thead>
<tr>
<th>Location</th>
<th>San Jose (CZ 4)</th>
<th>Riverside (CZ 10)</th>
<th>San Diego (CZ 7)</th>
<th>Fresno (CZ 13)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Building Type</td>
<td>2,100 default</td>
<td>2,100 default</td>
<td>2,100 default</td>
<td>2,100 default</td>
</tr>
<tr>
<td>CAHP Score</td>
<td>81</td>
<td>69</td>
<td>80</td>
<td>55</td>
</tr>
<tr>
<td>Annual Energy Use (kTDV)</td>
<td>154,749</td>
<td>152,712</td>
<td>116,970</td>
<td>165,858</td>
</tr>
<tr>
<td>Envelope</td>
<td>• QII</td>
<td>• QII</td>
<td>• QII</td>
<td>• QII</td>
</tr>
<tr>
<td></td>
<td>• SEER 14/EER 12, 84% AFUE</td>
<td>• SEER 14/EER 12, 84% AFUE</td>
<td>-</td>
<td>• SEER 18/EER 14, 95% AFUE</td>
</tr>
<tr>
<td>HVAC</td>
<td>• SEER 14/EER 12, 84% AFUE</td>
<td>• SEER 14/EER 12, 84% AFUE</td>
<td>-</td>
<td>• SEER 18/EER 14, 95% AFUE</td>
</tr>
<tr>
<td>DHW</td>
<td>• 0.82 EF tankless</td>
<td>-</td>
<td>• 0.97 EF tankless</td>
<td>• 0.97 EF Tankless</td>
</tr>
<tr>
<td>Other</td>
<td>-</td>
<td>• R-8 ducts</td>
<td>-</td>
<td>• R-8 ducts</td>
</tr>
<tr>
<td>Incentive*</td>
<td>$500</td>
<td>$2,300</td>
<td>$600</td>
<td>$5,100</td>
</tr>
</tbody>
</table>

*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](http://cahp-pge.com) website) > Program > CAHP Score & Incentive Tool

<table>
<thead>
<tr>
<th>Compliance %</th>
<th>Initial CAHP Score</th>
<th>CAHP Bonus Points</th>
<th>CAHP SF Incentive</th>
<th>CAHP Score</th>
<th>Total Annual KTDV</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>75</td>
<td>0</td>
<td>$1,200</td>
<td>75</td>
<td>261,575.68</td>
</tr>
</tbody>
</table>
Questions?

Next up: Enrollment process for the 2014 program
Enrollment Process
2014 CAHP
## 2014 Program Participation Eligibility

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

**Application**
- New application
- Title 24 documents (including CAHP Incentive Report)
- Building plans and spec sheets
- Proof of service
- Other supporting documents

**Plan Review**
- Plan Review team reviews and comments on submission documents
- CAHP team sends project to PG&E for enrollment
- CAHP team sends Acceptance package to Builder

**HERS Verification**
- HERS rater visits site and verify compliance
- HERS rater uploads results to designated HERS registry
- HERS rater notifies Builder that lots are ready to request payment

**Incentive Payment**
- Builder confirms lots have been tested with HERS rater
- Submit complete Incentive Request Form (IRF) and supporting documents
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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Deborah Hayman  
Program Application Coordinator  
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Kevin Robison  
Plan Review Manager  
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TRC’s CAHP Website:  
http://cahp-pge.com

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