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Memo

To: Stakeholders
From: Build It Green
Date: 6/23/2014
Re: GreenPoint Rated Pathway for Energy Compliance for 2013 Energy Code

The GreenPoint Rated program is updated every three years in unison with California Energy, CALGreen and Building code updates. Updates include program design review and technical revisions to best maintain program integrity and marketplace relevance. This memo serves to clarify the GreenPoint Rated Threshold over 2013 Energy Code and the relationship of previous versions of GreenPoint Rated (Single family version 4.2 and Multifamily v2.2).

Stakeholder input incorporated into the update process includes:

- Stakeholder Advisory committees for design and technical review
- Build It Green
- Public

Currently, GreenPoint Rated version 6.0 refers to the 2013 California Building Code which includes the 2008 Energy Code. On July 1, 2014, the California Building Code will reference the 2013 Energy Code. To that end, the GreenPoint Rated version 6.0 must support projects submitted under 2008 Energy Code as well as 2013 Energy Code. Therefore, there is a drop down menu to identify which energy code the project is permitted under. The threshold for 2008 Energy Code remains at 15% above. The performance level above the 2013 Energy Code will be based on cost effectiveness studies.

In setting the minimum threshold, Build It Green will review cost effectiveness studies to ensure the require threshold is an attainable standard and a reasonable level for builders in all climate zones. As of today these studies have not been completed for the 2013 Energy Code. It is anticipated the studies will be completed in the Fall of 2014. Therefore Build It Green will implement an interim threshold. Once there is more data available, Build It Green commits to reviewing the comprehensive cost effectiveness studies to re-evaluate the minimum threshold for GreenPoint Rated taking into consideration milder coastal versus severe climate zones as well as single family and multifamily. As a result, Build It Green may adjust the minimum threshold for GreenPoint Rated no earlier than January 1, 2015.

To set the interim threshold, Build It Green worked with Steve Mann of Home Energy Services, with support from Ken Nittler of EnerComp, Inc, Mike Gable of Gable Associates, LLC, and Matthew Christie of TRC, to review completed studies evaluating the 2013 Energy Code. He also reviewed Title 24 compliance runs for seven individual measures in all sixteen climate zones to determine the interim

threshold. The results of this work are documented in *Achieving a 2013 Title 24 10% Residential Compliance Margin*.

Based on the evaluation of those studies, it has been determined that 10% compliance margin above the 2013 Energy Code is achievable for all climate zones. To that end, Build It Green will set the interim minimum compliance margin for GreenPoint Rated at 10% above the 2013 Title 24 part 6.

Lastly, with any triennial update to the GreenPoint Rated Program, code measures are removed and new measures are added to the GreenPoint Rated checklist. This process supports GreenPoint Rated position of an accessible above-code program that allows builders to differentiate themselves and jurisdictions to meet climate action goals. Build It Green completed a comparison of projects under the previous versions of GreenPoint Rated to the GreenPoint Rated version 6.0 for single family and multifamily projects to evaluate changes in points. The methodology used to evaluate the points under both versions was to translate certified projects to the version 6.0 checklist. The comparisons showed that projects will experience a decrease in points from Single Family version 4.2 or Multifamily version 2.2 to GreenPoint Rated version 6.0.

For New Home Single Family, the projects that were evaluated experienced a range of 4-13% reduction in points, while multifamily projects experienced a drop in points from 2% -12%. In these evaluations, no project fell below the 50 point minimum and still achieved the minimum in each category.

Additionally, the current scoring for points above the Title 24 Part 6 for GreenPoint Rated is as follows: 25 points are achieved for meeting the minimum requirement and 2 points for every percentage above that threshold. This is 5 points less for meeting the minimum GreenPoint Rated energy performance requirement than the previous point system where projects earned 30 points for achieving the minimum requirement.