**Agenda**

**Workshop on Energy Efficiency Baselines and**

**To-Code Incentive Eligibility Issues**

**April 28, 2015**

**CPUC, Auditorium**

Call in: 866-633-5564 Participant number: 8705907

Webex: Meeting Number 744 860 243, Meeting Password: !Energy1 [https://van.webex.com/van/j.php?MTID=maf258ce1ca5bd4645f5c7042e6c7ed9e](https://mail.cpuc.ca.gov/owa/redir.aspx?C=V66zRZmyrEWcAB_-iJ2Nr3PGQznOSdIIA-v-kwmQbeXPcZRIrBwSSFqnQ7ciRNRgiiVMGncwT70.&URL=https%3a%2f%2fvan.webex.com%2fvan%2fj.php%3fMTID%3dmaf258ce1ca5bd4645f5c7042e6c7ed9e)

The purpose of this workshop is to provide parties to R.13-11-005 the opportunity to provide input on the energy efficiency baseline policies and the analyses being prepared by Energy Division and Navigant Consulting in response to D.14-10-046.

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| Time | Agenda Item and Objectives | Speakers |
| **9:30-9:35***5 min* | **Introduction and Opening Remarks** | Jeanne Clinton, Special Advisor to the Governor on Energy Efficiency |
| **9:35-10:20***45 min* | **Introduction & Baseline Policy Framework**CPUC Staff presents the policy basis for its current approach to determining baseline and the importance of accurately calculating savings for ratepayer protection and resource planning /reliability. * Overview of CPUC decision direction
* Legislation defining CPUC’s energy efficiency mandate
* Objectives of the efficiency baseline analysis
 | Dina Mackin, CPUC Staff |
| **10:20-11:20***1 hr* | **Role of Codes and Standards and Energy Procurement Planning in Determining Baseline*** CEC Codes and Standards staff discuss the current approach to setting standards for existing buildings
* CEC staff explain current treatment of to-code and above-code savings in demand forecast for procurement planning
 | Martha Brook, Efficiency DivisionChris Kavalec, Analysis Division, CEC  |
| **11:15-11:30** | **Break** |  |
| **11:30-12***30 min* | **Stakeholder Statements**Stakeholders’ opportunity to share additional insights and/or information about:* The current CEC approach to calculating savings impacts of C&S for existing buildings
* CEC forecast approach to utilizing that information,
* Realities from the marketplace about decisions to undertake building improvements, and
* Associated CPUC/DEER baseline policies

*There will not be enough time for all stakeholders to make full statements during this workshop. Stakeholders are invited to submit written comments by May28, based on questions attached. Stakeholders are directed to limit statements at workshop to new issues or evidence, and otherwise to cross-reference issues and comments that were filed as comments in R.13-11-005 or addressed in D.14-10-046.*  | *Stakeholders invited to speak* |
| **12-1** | **Lunch** |  |
| **1-1:45***45 min* | **Existing Conditions Baseline Analysis – Suggested Focus and Process**CPUC Staff will present the scope of the Staff White Paper, the process to identify and analyze the various complex questions for Phase III of the proceeding, and the proposed measure list for inclusion in the analysis. To be addressed:* Current CPUC baseline treatments
* Proposed white paper scoping questions
* Proposed measure classification schema and list
 | Dan Buch and Aaron Lu, CPUC Staff |
| **1:45-2:15***30 min* | **Scope of “Existing Conditions Baseline” Analysis**Navigant will provide an overview of the scope of the Existing Conditions Baseline Potential Analysis. Will include scope or approach to address 3 key objectives:* What’s in or out of the forecast?
* How big is the “out”
* How accurate is the “in”
 | Amul Sathe, Michael Noreika, Greg Wikler,Navigant ConsultingStakeholders |
| **2:15-2:30** | **Break** |  |
| **2:30-3:30***1 hr* | **Discussion**Opportunity for stakeholders to discuss the proposed outcomes of the project and its use by the CPUC and CEC.  | All participants |
| **3:30-4:30***1 hr* | **Status and Insights from IOUs’ Existing Baseline Pilots**IOUs will present their proposals and discuss issues arising in the development of Existing Baseline Pilots | IOUs |

**Attachment A: Request for Comments**

Commission Staff is soliciting comments from workshop participants to support the Energy Efficiency Baseline Analysis, prepared by Energy Division, Navigant Consulting and CEC. Comments are due on May 28, 2015. All information regarding this analysis will be posted at [http://www.cpuc.ca.gov/PUC/energy/Energy+Efficiency/Energy+Efficiency+Baselines.htm](http://www.cpuc.ca.gov/PUC/energy/Energy%2BEfficiency/Energy%2BEfficiency%2BBaselines.htm) on the CPUC Energy Efficiency website. As this is an informal workshop, all stakeholder comments will be posted on this page, rather than on the proceeding docket. The references in the questions below will also be posted on this page.

Please send your comments to Dina Mackin at dm1@cpuc.ca.gov, and not the service list. An announcement of the availability of comments will be sent to the service list once they are posted.

**Questions for Stakeholders:**

Changing baseline to existing conditions could potentially vastly increase the energy efficiency budget. To justify this change to the Commission, specific, data-based evidence is necessary. Please avoid sweeping generalities and anecdotes.

1. The measure characterization list presented by CPUC staff— and included in the CPUC white paper presentation—identifies the measures that will be covered in the Baseline Analysis, and how they should be characterized. This is intended as a starting point for discussion analysis rather than a decision on baseline.

Is the measure characterization list complete, or are there additional types of measures that may have uncaptured energy efficiency savings below code or ISP? Are they characterized accurately? What changes do you propose?

1. In your professional experience, what are the types of actions in the market place that lead to buildings/energy end uses failing to meet code or be upgraded to ISP, and what measures do not get adopted because of this? Please be specific and comprehensive, listing out all types of activities and correlated measures that you are aware of. Please identify the types of building that these experiences apply to, ie, Class A, B or C commercial; public or private buildings, types of commercial activity, vintage of buildings etc. For instance, what ways do contractors act to avoid “triggering code”?
2. What specific information/data can you provide on the volume of deferred retrofits and retrofits that avoided code triggers or code compliance? In what types of buildings (as clarified above)? What evidence is there that these cases reflect norms of market activity rather than the exception?
3. How do the Commission and CEC’s assumptions about the rate of turnover compare with your observations of the market? Please be comprehensive and specific (like above). What evidence/ data can you provide?
4. Equipment does burn out, and buildings do get retrofit, triggering code upgrades.  Given this reality, coupled with the fact that federal and state Codes and Standards exist and set efficiency floors for replacement equipment and building renovations, how can the CPUC ensure that an existing conditions baseline will not provide customers incentives and credit utility programs for large amounts of savings that are already occurring anyway?

**Attachment B: Draft Deemed Measure Category Classification Table**

|  |  |
| --- | --- |
| **Residential Sector** | **Measure Category Classification** |
| **Building Envelope** |  |
|  | Insulation | Retrofit |
|  | Window Film | Retrofit Add On |
| **Plug Loads & Appliances** |  |
|  | Dishwasher | Equipment |
|  | Laundry | Equipment |
|  | Refrigeration | Equipment |
|  | PC/Monitors | Equipment |
|  | Smart Strips | Equipment |
| **HVAC** |  |
|  | Space Heating | Equipment |
|  | Space Cooling | Equipment |
|  | Ventilation | Retrofit |
|  | Duct Sealing/Repair | Retrofit |
|  | Controls | Retrofit Add On |
|  | HVAC Quality Maintenance | Retrofit Add On |
| **Indoor/Outdoor Lighting** |  |
|  | Lamps | Equipment |
|  | Fixtures/Ballast | Retrofit |
|  | Controls | Retrofit  |
| **Recreation** |  |
|  | Pool Pumps | Equipment |
| **Service Hot Water** |  |
|  | Water Heaters/ Boilers | Equipment |
|  | Water Fixture Replacements | Retrofit |
|  | Recirculation Pumps | Equipment/Retrofit Add On |
|  | Boiler Controls | Retrofit Add On |
| **Commercial Sector** | **Measure Category Classification** |
| **Building Envelope** |  |
|  | Insulation | Retrofit |
|  | Window Film | Retrofit Add On |
| **Plug Loads & Appliances** |  |
|  | Office Equipment | Equipment |
|  | Vending Machine Controller | Retrofit Add On |
| **Commercial Refrigeration** |  |
|  | Casework, Compressors, Condensers, etc. | Equipment |
|  | Add On Controllers, VSDs, Doors, ASH, etc. | Retrofit Add On |
| **Food Service Equipment** |  |
|  | Cooking Equipment | Equipment |
| **HVAC** |  |
|  | Space Heating | Equipment |
|  | Space Cooling | Equipment |
|  | Chiller | Equipment |
|  | Ventilation | Retrofit |
|  | Duct Sealing/Repair | Retrofit |
|  | Controls | Retrofit Add On |
|  | Energy Management Systems | Retrofit Add On |
| **Indoor/Outdoor Lighting** |  |
|  | Lamps | Equipment |
|  | Fixtures/Ballast | Retrofit |
|  | Controls (occupancy, daylight, etc.) | Retrofit |
|  | Parking Garage Lighting | Equipment |
| **Process Heat/Refrigeration** |  |
|  | Variable Frequency Drive | Retrofit Add On |
| **Recreation** |  |
|  | Pool Pumps | Equipment |
|  | Pool Heaters | Equipment |
|  | Pool Covers | Equipment/ Retrofit Add On |
| **Service** |  |
|  | HVAC Quality Maintenance | Retrofit Add On |
|  | Retro-commissioning | Retrofit Add On |
| **Service Hot Water** |  |
|  | Water Heating/Boilers | Equipment |
|  | Water Fixture Replacements | Retrofit |
|  | Recirculation Pumps | Equipment/ Retrofit Add On |
|  | Distribution (Insulation) | Retrofit |
|  | Boiler Controls | Retrofit Add On |
| **Industrial and Agricultural Sectors** | **Measure Category Classification** |
| **Building Envelope** |  |
|  | Insulation | Retrofit |
| **Process Heating** |  |
|  | Boilers | Equipment |
|  | Boiler Controls, Economizers, etc. | Retrofit Add On |
| **Process Equipment** |  |
|  | Process Capacity Expansion (Added Machines, etc.) | Equipment |
|  | Process Controls, Motor/Drive Components, etc. | Retrofit Add On |
| **Industrial/Agricultural Refrigeration** |  |
|  | Chillers, Compressors, Condensers, Cooling Towers, etc. | Equipment |
|  | Add On Controllers, VSDs, Sub-coolers, etc. | Retrofit Add On |