# APPENDIX F

## Advice No. 4449

## Market Transformation Indicators/Strategic Plan Indicators Matrix

**2013-2014 Strategic Plan Indicator and Market Transformation Indicator Matrix***
**January 14, 2013**

This document includes the SPIs and MTIs from Energy Division's Staff Recommendations Regarding Market Transformation Indicators memo provided to the service list in June 2012. IOUs consider SPIs as preliminary in nature and require further development.

| CPUC Index # | Strategic Plan Indicator | Unresolved Issues | Program Mapping |
|---|---|---|---|
| CIA-14 | Square footage of existing commercial space in California retrofitted X% beyond current (definition) title 24 building standard (2011) (size weighted percent of projects that are x% beyond Title 24 - percent of events triggering Title 24 - for current code) | Need to identify appropriate target. | Commercial |
| Ind-2 | Energy intensity (per gross dollar of production value) for industrial entities. | | Industrial |
| ResSW-1 | Average energy use/$ft^2$ in existing homes (kwh, therms, KW), reported by single-family and multi-family. | | Residential |
| ResSW-2 | Percentage and number of homes where the purchased energy is reduced by 20%, 40% or 70% by 2013, 2017 and 2020 from 2008 baseline | Recommend revising for next cycle via the D.10-10-033 process. | Residential |
| BCE-1 | Percent decrease in average plug load attributable to electronic products ~~that are in the BCE program~~…..( Efficient Market Share of the top 10% most efficient products; or bundle of consumer electronic products) | If this continues to be a priority area, a market transformation indicator that can capture some combination of technologies and usage would be preferable. | Residential |
| Advanced Lighting-1 | The average lighting power density of residential and ~~commercial~~ lighting applications. | Need to add same for commercial lighting; alternatively tracking average lumens per watt may be appropriate for lighting overall (advanced and basic) as a Strategic Indicator. This will be a significant data collection effort. | Residential |

*ED and the IOUs during the workshop were in agreement that SPIs and MTIs tracked market effects that are likely subject to influences beyond IOU control

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| CPUC Index # | Strategic Plan Indicator | Unresolved Issues | Program Mapping |
|---|---|---|---|
| NC-1 | Total number/percentage of California-wide, new homes of all production types (SF, MF), modeled 15-19%, 20-29%, 30-39%,40+% above T24 code (2008 and subsequent code updates). Includes participants and non-participants; for all indicators suggested, baseline year would be years from which data for baseline study is drawn. OR (as SPI)<br>"Percentage of new homes in CA that are built above 2008 Title 24 standards" | Wording as SPI may need revision. | Residential |
| NC-4 | Average electricity and energy use levels of California new residential units (KW/ft2; KBTU/ft2/year) | Definition of "energy use" will need to be clarified. | Residential |
| NC-9 | Percentage decrease in average site energy* use (kBtu/sq ft-yr) and demand reduction (kW/sq ft) for CNC by building type in California.<br><br>* Total site energy comprises building site energy and exterior lighting, architectural lighting/signage, all non-building energy use (fountains, irrigation, vehicle charging stations) non-occupied space (garages, walkways), and building end-uses unregulated by T24 (plug loads, process loads, appliances, occupancy, etc) | NOTE: Under the Justification/Rationale column of the MTI worksheet notes: "Revisions to clarify 'existing' and code requirements."' | Commercial |
| CS-3 | Compliance rates of remodels triggering T24 in existing (a) ~~existing~~ homes and (b) commercial buildings in California. | | Codes & Standards Commercial Residential |
| CS-4 | Compliance rates of T24 in (a) new homes (b) new commercial buildings in California. | | Codes & Standards Commercial Residential |
| CS-6 | Number of measures from Voluntary beyond code standards and rating systems (LEED, CHPS, 189) that are incorporated into mandatory T24 Standards in the Residential and Commercial Sectors. | May need modification to clarify and address changing code over time. | Codes & Standards Commercial Residential |

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| CPUC Index # | Market Transformation Indicator | Programs |
|---|---|---|
| CIA-2 | Number and percent of targeted large Non Res Customers who developed a long-term energy plan. (Track by sector Industrial, Ag, Commercial) | Commercial<br>Industrial<br>Agricultural |
| CIA-10 | Number of energy efficiency measures sunsetted in IOU CIA programs and new measures introduced since year [2011] | Commercial<br>Industrial<br>Agricultural |
| BasicCFL-1 | Basic CFLs sold annually as a percentage of all MSB, non-dimming interior bulbs sold in California. | Residential |
| BasicCFL-2 | Price of non-discounted Energy Star qualified MSB CFLs sold in California. | Residential |
| BasicCFL-3 | Saturation of eligible sockets (MSB, non-dimming, interior) with (1) basic CFLs and (2) pre-defined advanced lighting options. | Residential |
| Appliance-2 | Percentage of key appliances sold in California that are Energy Star. | Residential |
| DeepRetrofit-2 | The number of households that elect to perform comprehensive energy upgrades. | Residential |
| LMT-3 | Number of lighting technologies by sector that no longer require IOU program interventions | Residential<br>Non-Residential |
| NC-2 | Percentage of new homes in CA with self-generation capabilities | Residential |
| NC-5 | Penetration rates of ENERGY STAR® manufactured homes in California as compared to homes meeting HUD specifications | Residential |
| CS-7 | Number of Jurisdictions in IOU service territory implementing CEC approved Reach Codes in the Residential and/or Commercial Buildings. | Standards<br>Residential<br>Commercial |
| HVAC-1 | Market share of climate appropriate HVAC equipment. (or Market share of energy efficient climate appropriate equipment.) | Residential<br>Non-Residential |
| HVAC-2 | Percentage of California Residential HVAC installation contractors using Quality Installation guidelines. | Residential |
| HVAC-3 | Percentage of all California Commercial HVAC installation contractors using Quality Installation guidelines. (weighted by size)) | Commercial |
| HVAC-4 | Percentage of HVAC units serviced in IOU service territory under a QM Service Agreement. | Residential<br>Non-Residential |

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