New Construction - Residential ENERGY STAR® Manufactured Housing Subprogram

	Mission	IOU Comments
SW Program:	The RNC subprogram supports transformation of	
New	California's residential new construction consistent	
Construction	with the CEESP via incentive, education, outreach,	
	marketing and training strategies aimed at the	
	California building industry. The RNC subprogram	
	consists of the California Advanced Home	
	Partnership program (CAHP) coupled with Zero Net	
	Energy Homes and an Energy Star Manufactured	
	homes subprograms.	
SW <u>Sub</u> -	The ENERGY STAR® Manufactured Homes Program	This program is tied to the EPA E'STAR standard over which the California
program:	promotes the construction of new manufactured	IOUs have little if any influence. While E'STAR currently aligns with the
ENERGY	homes that comply with ENERGY STAR® energy	CAHP mission, given our experience in the Single Family sector, that may
STAR®	efficiency standards by encouraging manufacturers	change at any time.
Manufacture	to go beyond HUD specifications to install high	
d Housing	efficiency and right size HVAC systems. It also works	
Subprogram	to increase the efficiency of the whole home,	
	moving the industry towards zero net energy.	

CA EESP Goals/Strategies Addressed by SW <u>Sub-program</u> :	CA EESP Ref. pp.	IOU Comments
	#	
Goal (1) NC will reach ZNE performance (including clean, onsite	p. 11	
distributed generation) for all new single and multi-family homes		
by 2020		
Key element: develop ZNE example homes across the spectrum of	p. 16	
housing options, including MF affordable housing in urban infill		
areas with access to public transportation.		

***Draft for Discussion Purposes ***

Strategy 1-1: Drive continual advances in technologies in the	p. 16
building envelope, including building materials and systems,	
construction methods, distributed generation, and building design.	
Strategy 1-5: Encourage local, regional, and statewide leadership	p. 18
groups to support pilots and foster communication among	
pioneering homeowners and builders.	
Goal (2) Home buyers, owners and renovators will implement	p. 11
whole-house approach to energy consumption that will guide their	r
purchase and use of existing and new homes, home equipment	
(e.g. HVAC systems, household appliance, lighting, and "plug load"	
amenities.	

Short and Long term (2010-2012) "SMART" Program Objectives:	Source (SP, AL, DR, PIP, or Staff)*	
		Deleted T24-based metrics for Man Hsg.
	AL, (SP,	
	as updated	
	by D 0909047)	
	AL	

Short-term (2010-2012) "SMART" <u>Sub-program</u> Objectives:	Source (SP, AL, DR, PIP,	IOU Comments
	or Staff)*	
Objective 1: To transform the marketplace by significantly	PIP	Ok. See note above on E'STAR.
increasing each year the penetration rates of ENERGY STAR®		
qualified manufactured homes as compared to homes that meet		

***Draft for Discussion Purposes ***

the existing HUD qualification		
Objective 2: To consistently increase the number/percentage of		Will need a baseline
manufactured home retailers/manufacturers participating in the	ion of AL	
program each year.	proposal,	
	Staff	
Objective 3: Participating manufacturers increasingly produce zero		Deleted: not a 2010-2012 objective.
energy or zero peak homes (including AMI, when available as per		
DR proceeding)		

Short-term <u>Sub-program</u> PPMs:	Source (SP, AL, DR, PIP, or Staff)*	Type (2a or	ne	
PPM1: Number of manufactured housing units installed in IOU service territories (via retailers and/or manufacturers) participating in program.			N	In revised PIP, IOUs will clarify different approaches Removed "Market Penetration" because BSRA said that they are unable to provide data that is needed to determine this. Need to define "installed" for Manufactured Housing. Shipped? Sold? *Verified?*
PPM 2: Number /percentage of participating projects utilizing: (a) whole house incentive for gas heat; (b) whole house incentive for electric heat;	Based on PIP, Staff	2a		C and D deleted, IOUs will indicate change as required per final revised PIP.
PPM 3: Number of AMI/Peak Units	on PIP,	2b- EM&V study		Deleted - no resources to implement well; moved to objective but will not be tracked.

^{*}SP=Strategic Plan, AL=Advice Letter, DR=Data Request Response, PIP=program plans, Staff=ED proposed. [Include page reference when applicable.]

^{**}Metric type: 2a = reported annually, 2b = reported by end of cycle.

Long-Term (2013-2020) "SMART" <u>Sub-program</u> Objectives:	Sourc e (SP, AL, DR, PIP, or Staff)*	IOU Comments
Objective 1: Support the initiation of and increase over time the sales of zero net energy and zero peak manufactured homes in California, including coordinated DSM and AMI	PIP, Staff	Long term is fine as objective
Objective 2: Achieve increasing levels of energy savings per home in the California manufactured homes market in the most cost effective manner possible for customers	Staff	Need performance-based tool and methodology in order to increase above E'STAR. Title-24 does not cover manufactured housing. Currently E'STAR is a passfail, prescriptive standard.

^{*}SP=Strategic Plan, AL=Advice Letter, DR=Data Request Response, PIP=program plans, Staff=ED proposed. [Include page reference when applicable.]

IOUs requested in redline version to prioritize these and/or edit into 1-2 succint MT metrics for which data could be gathered in one study.

Long-Term Sub-program MT Indicators:	Source (SP, AL, DR, PIP, or Staff)*	Туре	ne Study Requi red	
MT Indicator 1: Penetration rates of ENERGY STAR® manufactured homes in California as compared to homes meeting HUD specifications	Based on PIP, Staff	3	(Y/N) Y	Ok
MT Indicator 2: Incremental cost – Price premium? of ENERGY STAR® manufactured as compared to homes meeting HUD specifications	Staff	3	Y	Define as customer IMC, if available. IMCs are difficult to calculate given the whole-building nature of Manufactured Housing.
MT Indicator 3: Average energy savings of ENERGY STAR® manufactured homes as compared to baseline (homes meeting HUD specifications in X year)	Based on PIP, Staff	3	Y	Market penetration: data should be available – can confirm with Systems Building Research Alliance(SBRA), trade association for Manufactured Housing.
MT Indicator 4: Percentage and number of retailers that market ENERGY STAR® homes as their "standard home"	Based on PIP, Staff	3	Υ	Definition of "standard home:" recommend retailer sales greater than 50%, but data may be difficult to obtain

^{*}SP=Strategic Plan, AL=Advice Letter, DR=Data Request Response, PIP=program plans, Staff=ED proposed. [Include page reference when applicable.]

***Draft for Discussion Purposes ***

**Metric type: 3 = data collection, tracking, and reporting [by IOUs, CPUC staff, and/or other entities] to be determined later.