Lighting Market Transformation Program

	Mission
SW Program: Lighting Market	Statewide Lighting Market Transformation Program (LMT) establishes processes through which the IOUS
Transformation (LMT)	can develop and test market transformation strategies for both emerging and existing lighting
SW <u>Sub</u> -programs:	technologies across all market sectors. LMT, operating through funding leverage, includes market
Lighting Technology Advancement;	research and coordination activities, and an educational component for improving the information
Lighting Education and Information;	available to consumers, contractors, and other market actors. A major part of the program involves
Lighting Market Transformation	design and planning that can be transferred to pilots and market analyses in the context of product life
	cycle and existing programs. The program also seeks to advance development of increasingly efficient
	lighting technologies. LMT is a non-resource program.

CA EESP Goals/Strategies Addressed by SW <u>Program</u> :	CA EESP
	Ref. pp. #
Goal 1. Develop and implement coordinated policies, procedures, and other market interventions that eliminate barriers,	Section 13, p.3
accelerate lighting market transformation* in California and provide incentives for best practice lighting technologies and systems.	
Goal Results: By 2020, existing policies and procedures in California will enable lighting technologies to contribute to zero net	
energy (ZNE)* consumption with negligible negative impacts on the environment.	
Goal 2. Define and advance best practices for design, installation, operation and maintenance of integrated systems* to achieve	Section 13, p.3
sustainable* lighting solutions for all spaces.	
Goal Results: By 2020, 100% of new and retrofit lighting installations will meet best practice standards and are optimally	
maintained throughout their useful lives.	
Goal 3. Create widespread end user desire for, purchase of, and use of best practice lighting technologies, and systems.	Section 13, p.3
Goal Results: By 2020, transform consumers' lighting preferences to best practices as demonstrated by an 80% decrease in	
perceived barriers to adoption and a 50% decrease in sales of inefficient lighting products in key market segments (over 2010	
baselines).	
Goal 4. Develop research, development and demonstration (RD&D) networks to create, test, and deliver the lighting solutions	Section 13, p.3
needed to transform California's lighting market achieve ZNE goals.	
Goal Results: Create a broad RD&D portfolio of technologies that will support a 60-80% statewide reduction in electrical lighting	
energy consumption by 2020.	

Short-term (2010-2012) "SMART" Sub-program Objectives:	Source (SP, AL, DR, PIP,	IOU Comments
	or Staff)*	

Objective 1: Formalize a process – via the selection and piloting of technologies - by which the IOUs can rapidly introduce advanced lighting solutions and emerging technologies to the marketplace, improve existing lighting programs, and develop new program strategies; (notes: "indirect influence" a goal of program and hard to measure; "sub –programs" really activities) Note: is this the definition of Pipeline Plan?	AL (IOU PPM spreadsheet)	Formalize a process by which the IOUs can rapidly introduce advanced lighting solutions and emerging technologies to the marketplace and improve existing lighting programs in the 2011 June Lighting Market Transformation Program Report
Objective 2: Address the pressing need for better and more accessible information on lighting technologies through proposing new strategies for core programs. This subprogram will cooperate with and leverage the resources of other programs to provide assess the need for and facilitate the development of improved access to information and education regarding existing and emerging lighting technologies among end-users, IOU staff, equipment suppliers, lighting designers, and equipment installation contractors. (Notes: specific budget towards this not identified in Adv. Lighting so far; could add lighting emphasis to OBG).	PIP (SCE, p.548)	By end of 2012 or before, address the pressing need for better and more accessible information on lighting technologies., including developing a lighting technology roadmap by January 2011 to be updated bi-annually (i.e., what's new and available by when (MM/YY), which will use available information from all IOU and external parties).
Objective 3: 1. (1) Clearly define "market transformation" for each technology by reviewing existing research (especially with regard to market data on technology saturation), identify research gaps, and propose/conduct additional research and data collection as appropriate to increase understanding of the technology (including rate of technology adoption); and (2) Develop appropriate metrics and guidelines for determining when market transformation has occurred and publicly-funded intervention is no longer appropriate, so as to define an end-point for strategies and set the course for new programs and goals. Notes: review D-0909047 language on this; this activity is a step in rethinking stages of MT. This IOU program activity can propose when a targeted market will be transformed, but refer to D0909047 for Commission expectation of its role in "confirming" MT.		(1) Identify strategic options for each technology by reviewing existing research (especially with regard to market data on technology saturation), identify research gaps, and propose/conduct additional research and data collection as appropriate to increase understanding of the technology (including rate of technology adoption); and
		(2) Develop appropriate metrics and guidelines for determining

	when market transformation has occurred and publicly-funded intervention is no longer appropriate, so as to define an end point for strategies and set the course for new programs and goals.
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Short-term <u>Sub-program</u> PPMs:	Source (SP, AL, DR, PIP, or Staff)*	Metric Type (2a or 2b)**	IOU Comments
PPM 1: ED-proposal: Number of Best Practice technology, systems, and approaches program helps identify; IOU AL proposal: Number of new technology projects, studies or analyses completed and summarized in: a) workpapers, b) white paper, and c) pilot projects proposals to partner programs. Draft Objectives around program's awareness- building activities PPM1a) Leveraging partner program's increasing of awareness and use of these (this leveraging and AKA-building assessed in these partner programs- move PPM Advanced Lighting, all non-res, basic lighting, some partnerships, 3 rd party programs). LMT staff will facilitate communication internally and externally on promising technologies. PPM1b) Building AKA amongst market actors (via white papers, etc).		2b	 (1) Develop a lighting technology roadmap (i.e., what's new and available by when (MM/YY), using available information from all IOU and external parties) by January 2011 and update bi-annually. (2) Develop a communication plan to make the lighting technology roadmap, pipeline plans, and technology resource information available via the statewide MEO portal by July 2011, update annually.

PPM 2: Degree of advancement of program selected technologies along their LMT pipeline plans	Staff	2a 2 b	N	Number of recommended projects initiated and completed, with findings
Creation of "pipelines plan/strategic direction documents," facilitation of launch of associated pipeline plan/strategic direction project implementation, and stage of implementation of pipeline plans/strategic direction.		2b		and recommendations (i.e., this is a tracking of lighting related projects for ET, Advanced Lighting and 3 rd
IOU to do: define key terms such as: 1) Pipeline plan; 2) Strategic direction; 3) White paper; 4) Pilot project				parties).
Getting rebates into areas of high potential for new technologies (one def of Pipeline plan)				
PPM 3: Length of time from when a technology graduates from the ET program to when it's integrated into a core IOU program.	Staff	2b	N	IOUs recommend deleting PPM-3.
PPM 4: Number of new program delivery strategies identified by the program Alternate PPM?: Impact to portfolio of strategies developed by program Core function is analysis function (proposed by Nate/PG&E Lela, SDG&E disagrees. Needs more discussion)	Staff	2 a	N	IOUs recommend deleting PPM-4.
Alternate PPM? Number of analyses that translated into a core program (proposed by Caroline, SCE).				
PPM 5: Number of products introduced into the lighting market via the LMT program	Staff	2a	N	# of EE lighting measures added, removed, or updated as a result of LMT activities and influence, and report in annual LMT June Report.
PPM 6: Degree of market availability of technologies selected by the program. IOUs state that this is an indirect output; other programs would have fuller responsibility for this.	Staff	2b	N	IOUs recommend deleting PPM-6.
Notes: ED question: can IOUs modify and then live with these draft PPMs? May be too narrow as is; IOUs need to revisit key objectives and work up related PPMs. IOUs need to caucus and blend updated program plans and ED feedback.				Please refer to IOU comments next to program mission statement.

^{*}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" Sub-program Objectives:	Source (SP, AL, DR, PIP, or Staff)*		
Objective 1: By 2020, 100% of new and retrofit lighting installations will meet best practices.	SP (Lighting chapter, Goal 2 Result, p.3)		
Objective 2: By 2020, transform consumer's lighting preferences to best practices as demonstrated by an 80% decrease in perceived barriers to adoption and a 50% decrease in sales of inefficient lighting products in key market segments (over 2010 baselines).	SP (Lighting chapter, Goal 3 Result, p.3)		
Objective 3: Create a broad RD&D portfolio of technologies that will support a 60-80% reduction in electrical lighting energy consumption by 2020.	SP (Lighting chapter, Goal 4 Result, p.3)		

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

Long-Term Sub-program MT Indicators:	Source (SP, AL, DR, PIP, or Staff)*	Metric Type (3)**	Baseline Study Require d (Y/N)	IOU Comments
MT Indicator 1: Percentage of total lighting sales comprised of Best Practice technologies (by sector)	Staff	3		IOU Comments: We recommend developing definitions for "Best Practice Technology" in a changing environment. We also recommend developing definition for "sector". IOU assessment of priority: High
MT Indicator 2: Number of technologies (by sector) for which market transformation is achieved (as defined by the program)	Staff	3		OK IOU Comments: IOUs recommend developing definition for "sector." IOU assessment of priority: High
MT Indicator 3: Number of technologies by sector that no longer require IOU program interventions	Staff	3	N	IOU assessment of priority: Low, at

this time. We may wish to focus
measurement resources elsewhere
for now.

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

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