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Government Oversight of Grid Company DSM 政府监督电网企业DSM工作

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Rick Weston, China Program Director, RAP
David Crossley, Senior Advisor, RAP

The Regulatory Assistance Project

China

European Union

United States

www.raonline.org

Questions About Grid Company DSM

电网企业开展DSM的相关问题

1. What information should government officials require from the grid companies?
 2. What should government officials do to verify the information received from the grid companies?
 3. What can government officials do with the information once it is received and verified?
1. 政府官员应该从电网企业获取哪些信息？
 2. 政府官员应该如何验证电网企业提交的信息？
 3. 政府官员利用获取和验证的信息能做什么？

Information from Grid Companies (1)

电网企业提供的信息（1）

Recommendation 1

- Require each grid company to regularly submit **DSM Portfolio Plans**, including:
 - detailed descriptions of DSM programs;
 - expected costs of implementing these programs
- Government officials can then scrutinize the plans and require appropriate changes

建议 1

- 要求每个电网企业定期上报**需求侧管理项目组合规划**，包括：
 - 对DSM项目的具体说明
 - 实施这些项目的预计成本
- 政府官员然后就可以审核这些计划并要求适当的修改。

Information from Grid Companies (2)

电网公司提供的信息（2）

Recommendation 2

- Require each grid company to follow up with regular **DSM Performance Reports**, including:
 - detailed descriptions of actual electricity savings achieved;
 - aggregate costs incurred, broken down by each DSM program;
 - comparison of the results with the approved DSM Portfolio Plan

建议 2

- 要求每个电网企业定期上报**需求侧管理工作绩效报告**，包括：
 - 实际完成节电量的详细说明
 - 对发生的成本进行汇总，并按每个**DSM**项目进行分解
 - 将取得的节能效果与批准的需求侧管理项目组合规划进行对比

Verifying Grid Company Information (1)

验证电网公司提交的信息（1）

Recommendation 3

- Require each grid company to prepare and submit a **Technical Reference Manual (TRM)** that specifies the methods used by the grid company to measure the results of their DSM activities
- Government officials can then scrutinize the TRM – with the help of expert consultants – and require changes as necessary

建议 3

- 要求每个电网公司起草和提交一份**技术参考手册(TRM)**, 其中详细说明电网公司用来测量**DSM**工作成效所采用的方法
- 政府官员然后就可以对**TRM**进行审查-在专家顾问的帮助下-提出必要的修改

Verifying Grid Company Information (2)

验证电网企业提交的信息（2）

Recommendation 4

- Establish processes for carrying out **independent audits** of the measurement of electricity savings by the grid companies
- Audits should be carried out on a random unscheduled basis

建议 4

- 建立一套规章制度对电网公司节电量的测算进行**独立审计**
- 审计应该不定期随机地进行

Analyzing Grid Company Information (1)

分析电网公司提交的信息（1）

Recommendation 5

- Implement **cost-effectiveness analyses** of grid company DSM programs, including calculating the benefits associated with reduced pollutant emissions
- The analyses could be done by the grid companies (subject to government scrutiny and review), by independent consultants, or by government officials

建议 5

- 对电网公司DSM项目进行**成本效益分析**，包括计算减少污染物排放所带来的环境效益
- 成本效益分析可以由电网公司（在政府的监督审查下），独立的咨询机构，或者政府部门来进行

Analyzing Grid Company Information (2)

分析电网公司提交的信息（2）

Recommendation 6

- Allow grid companies to **recover the costs** of implementing DSM programs
- More broadly, develop mechanisms to better align grid company incentives with China's DSM goals

建议 6

- 允许电网企业从DSM项目的实施中回收成本
- 更广泛地，制定政策机制将电网企业驱动力和中国DSM的目标结合起来。

Assessment of California Energy Efficiency Programs (1)

加利福尼亚州能效项目测评（1）

表1. 2006-2008年私有电力企业能效投资产生的节能效应

Table 1. Savings Impacts from 2006-2008 IOU Energy Efficiency Investments⁵

	Annual Impact		Lifecycle Impact		% of 2008 IOU sales Gross
	Gross	Net	Gross	Net	
GWh	6,497	4,097	66,142	42,736	3.2%
MW	1,175	779			
MMTherm	84	44	1,379	690	1.0%
Tons of CO2	4,116,173	2,642,128	45,021,664	24,291,576	

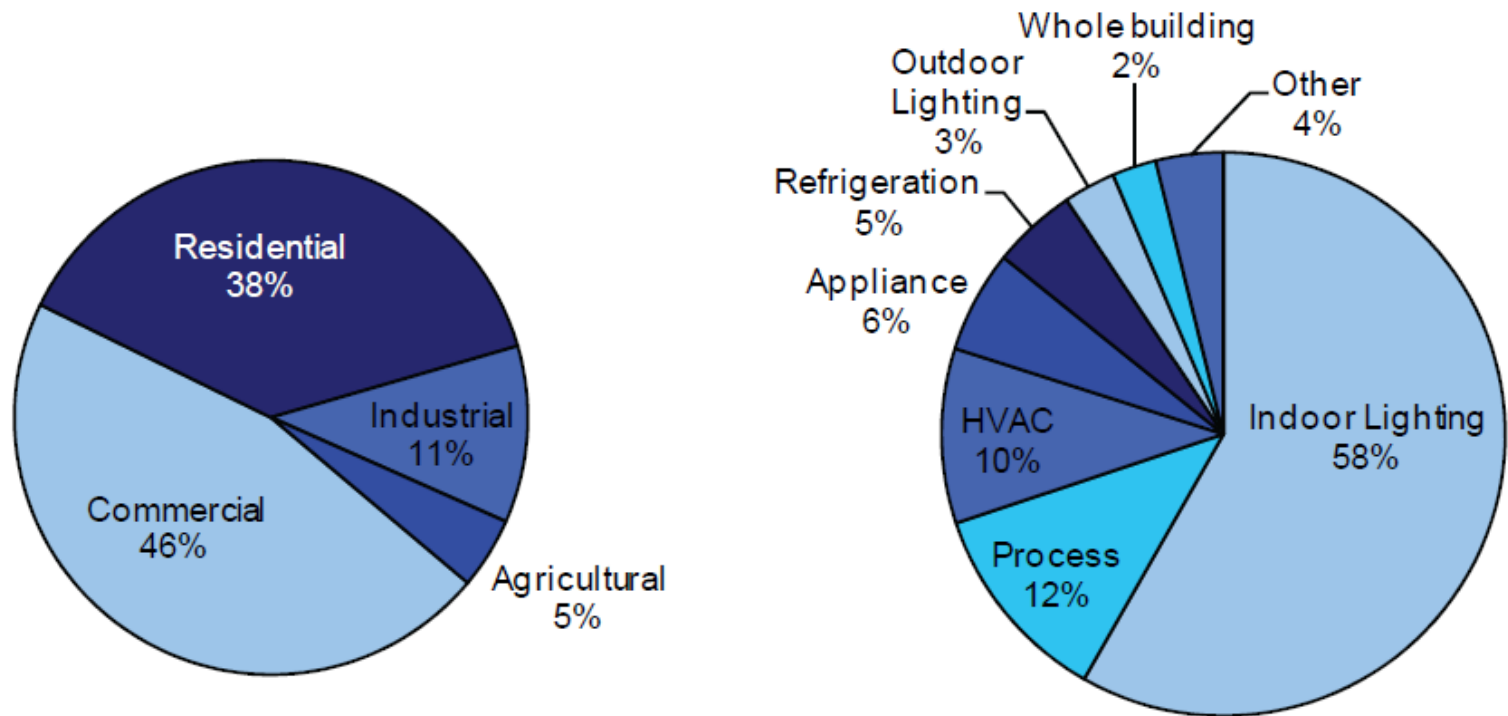
Source: California Public Utilities Commission (2010). *2006-2008 Energy Efficiency Evaluation Report*.

Assessment of California Energy Efficiency Programs (2)

加利福尼亚州能效项目测评 (2)

图1. 按市场类别和技术种类分布的节电量

Figure 1. Electric (GWh) Savings by Market Distribution and Technology Type

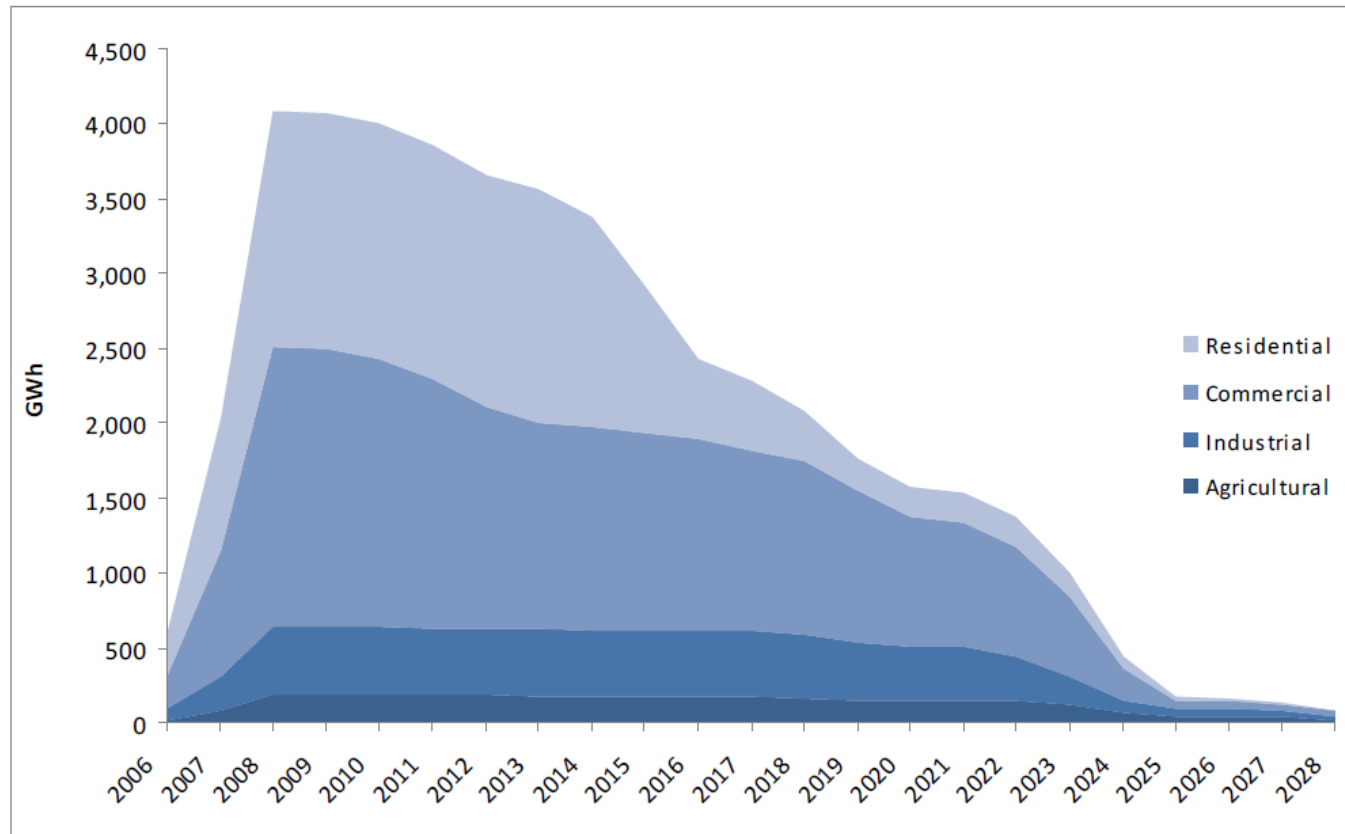


Source: California Public Utilities Commission (2010). *2006-2008 Energy Efficiency Evaluation Report*.

Assessment of California Energy Efficiency Programs (3)

加利福尼亚州能效项目测评 (3)

Figure 6. Lifecycle Evaluated Savings - Electric 图6. 全生命周期节电量评估



Source: California Public Utilities Commission (2010). *2006-2008 Energy Efficiency Evaluation Report*.

Assessment of California Energy Efficiency Programs (4)

加利福尼亚州能效项目测评 (4)

表2. 2006-2008 私有电力企业能效项目组合成本效益分析

Table 2. Evaluated Cost Effectiveness of 2006-2008 IOU Energy Efficiency Portfolios

Millions \$	TRC benefits	TRC Costs	B/C	PAC Benefits	PAC Costs	B/C
PGE	\$1,253	\$1,069	1.17	\$1,253	\$852	1.47
SCE	\$1,169	\$984	1.19	\$1,169	\$638	1.83
SDGE	\$281	\$276	1.02	\$281	\$205	1.37
SCG	\$184	\$205	0.90	\$184	\$116	1.59
Statewide	\$2,886	\$2,534	1.14	\$2,886	\$1,810	1.59

Source: California Public Utilities Commission (2010). *2006-2008 Energy Efficiency Evaluation Report*.