

CA | Energy Efficiency Strategic Plan

Zero Net Energy Action Plan (2010-2012)

Developed by ZNE Stakeholders



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OVERVIEW

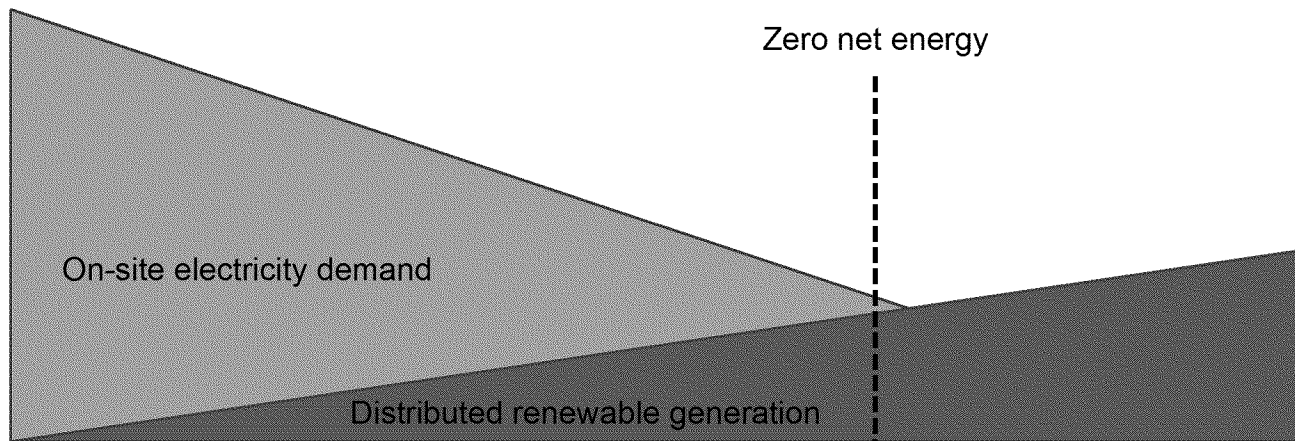
- Introduction
- Opening Remarks
- Action Plan Overview
- ZNE Progress Indicators
- Stakeholders
- Q&A

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THE ZNE ACTION PLAN

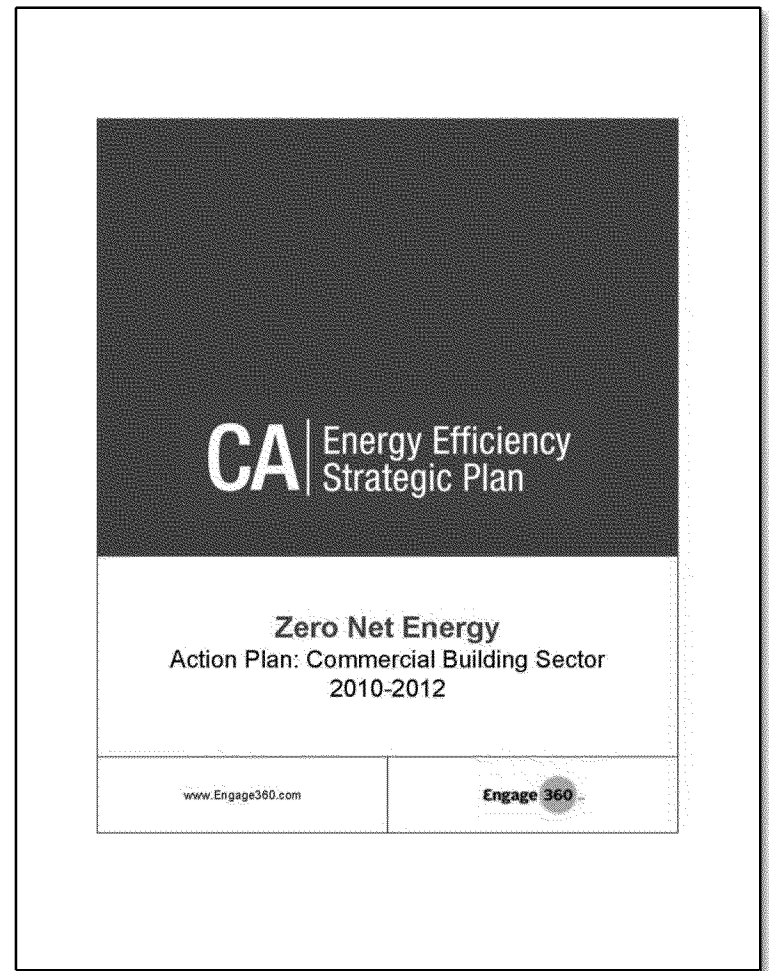
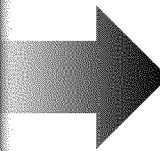
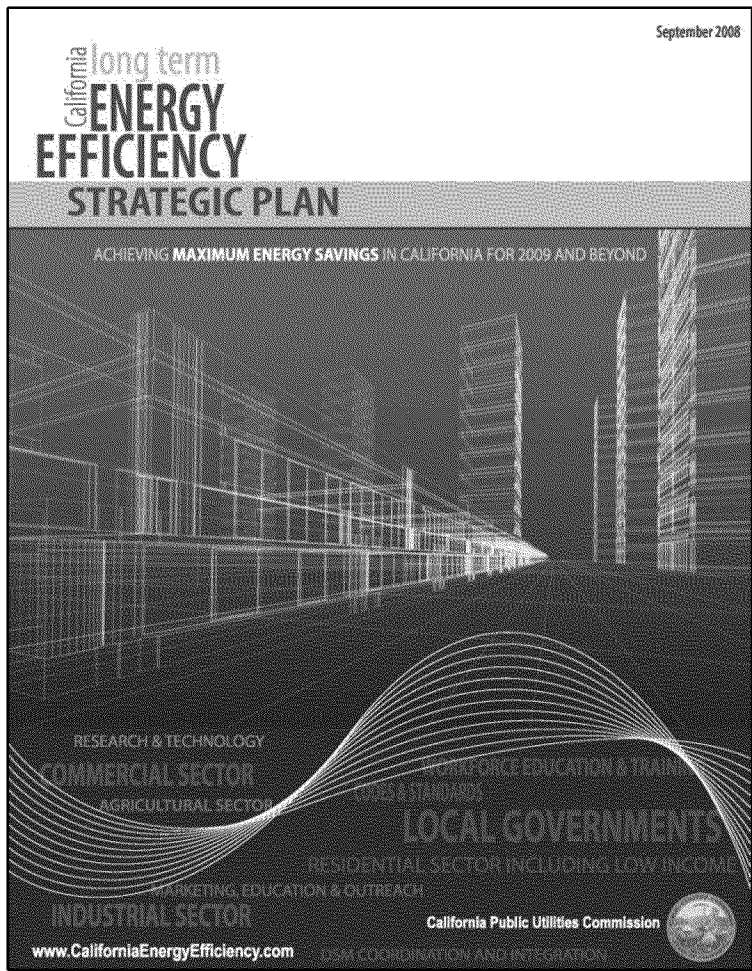
WHAT IS ZERO NET ENERGY?

Zero net energy is a general term applied to a building with a net energy consumption of zero over a typical year. To cope with fluctuations in demand, zero energy buildings are typically envisioned as connected to the grid, exporting electricity to the grid when there is a surplus, and drawing electricity when not enough electricity is being produced.



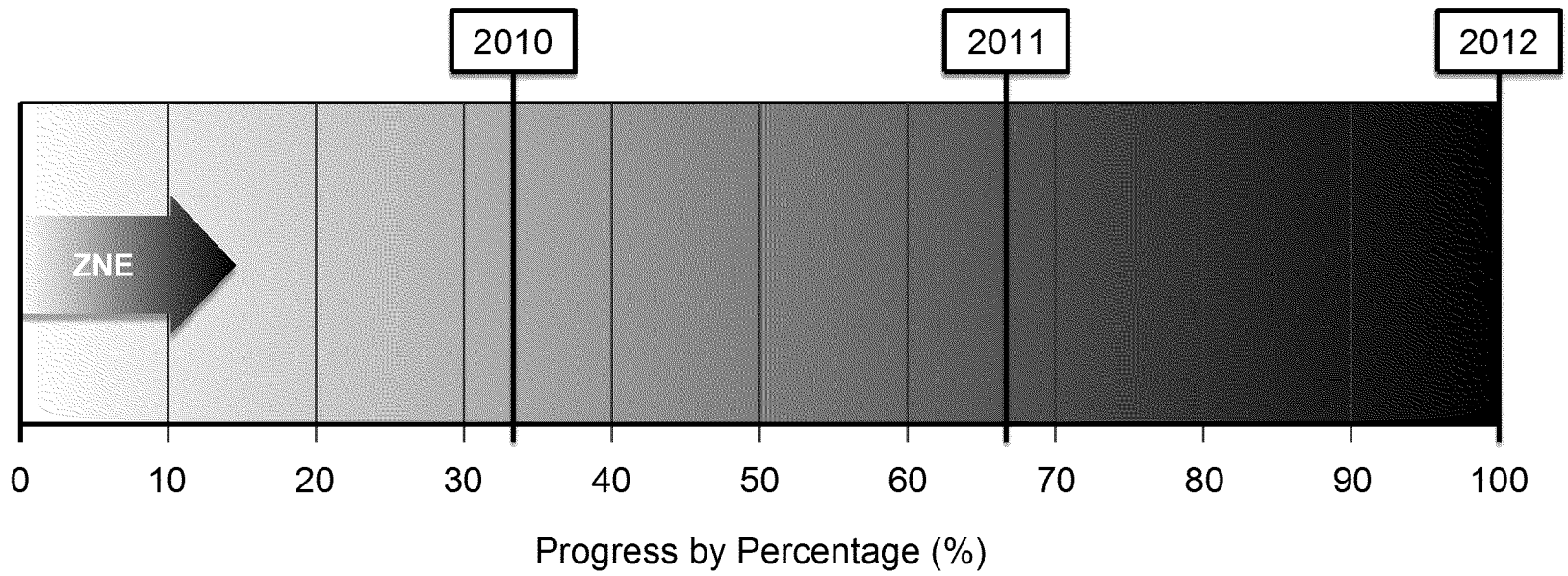
- The amount of energy provided by on-site renewable energy sources is equal to the amount of energy used by the building.
- A ZNE building may also consider embodied energy—the quantity of energy required to manufacture and supply to the point of use, the materials utilized for its building.

Opening Remarks

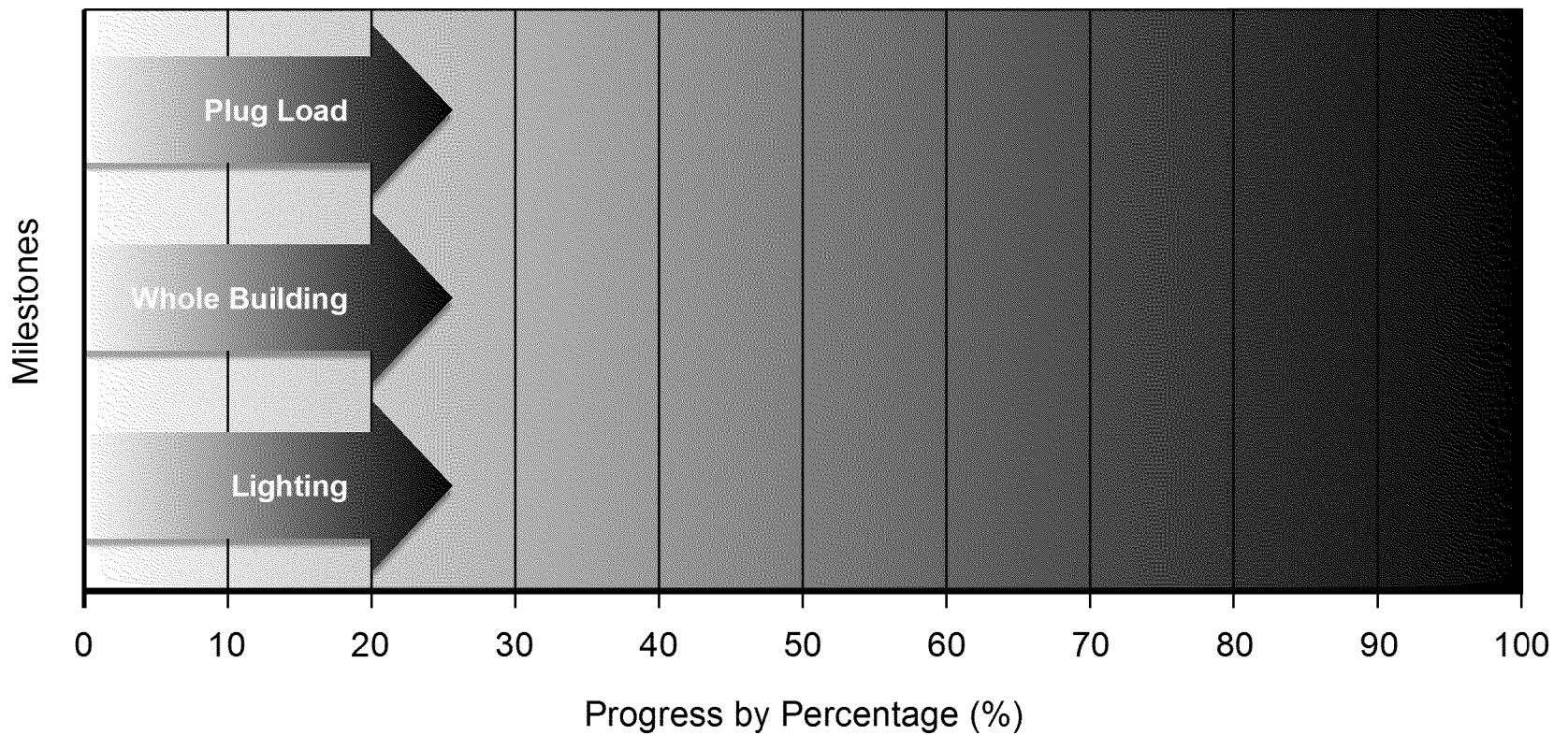


- Strategies
- Progress to Date (2010-2012)
- Action Plan (2010-2012)
- Priorities for the Future (2013-2010)
- Champions

Progress Indicators



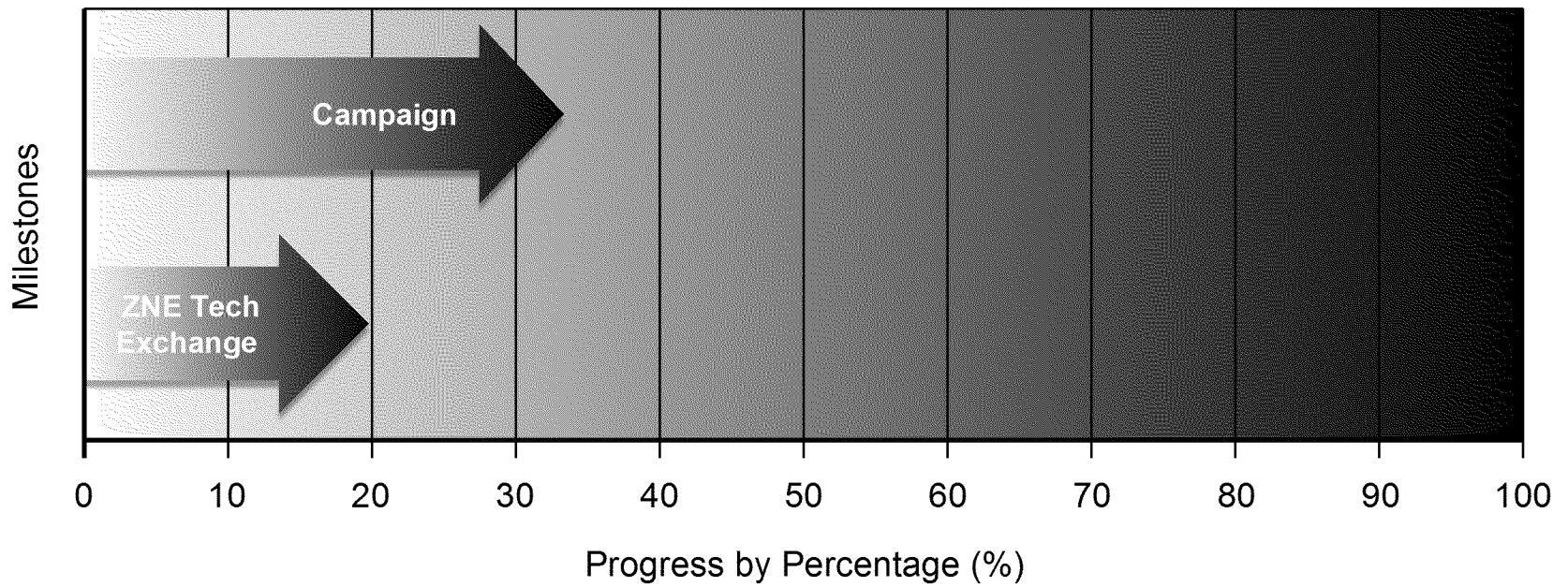
- Strategy 1-2: Expand T20 and T24 to Address All Significant Energy End Uses



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Milestone	Champions	Key Actions	Timeline
1-2-1 Develop and adopt broader codes and standards for plug loads such as copiers, printers, battery chargers, televisions	Brad Meister, CEC	Research new plug load efficiency opportunities; review/test costs and performance	Complete
	David Jacobowitz, Google	Develop case studies to substantiate costs, savings	Q3 2010
		Engage industry stakeholders on relevant changes to T20	Q2 2011
		Propose/adopt changes to Title 20	Q2 2012

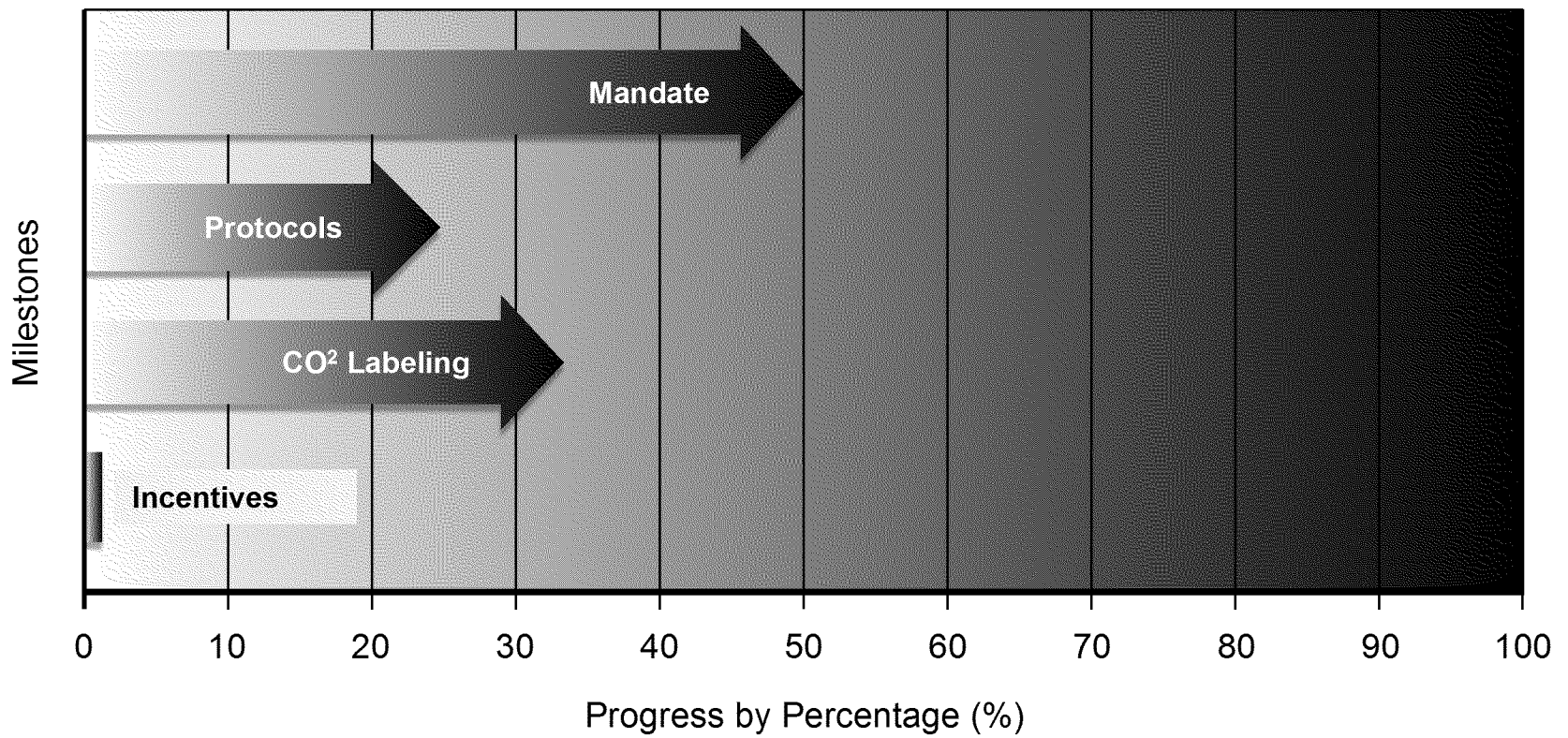
- 1-3: Establish a “Path to Zero” Campaign To Create Demand for High-Efficiency buildings



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Milestone	Champions	Key Actions	Timeline
1-3-1 Convene leading building industry associations to plan and conduct campaign	Keri Bolding, Resource Media	Convene series of stakeholder workshops	Complete
		Identify ZNE key audiences, drivers, attitudes segments	Complete
	Shilpa Sankaran, ZETA Communities	Develop ZNE baseline study in key ZNE segments	Q3 2010
		Develop outreach and education campaign plan (plus funding opportunities)	Q3 2010
		Launch ZNE outreach and education campaign	Q1 2011
		Track and report on progress	Q3 2011

- Strategy 2-4: Establish Mandatory Energy and Carbon Labeling Benchmarks



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Milestone	Champions	Key Actions	Timeline
2-4-1 Mandate benchmarking for all commercial buildings, triggered by changes in building ownership, financing or tenancy	Amy Barr, Heschong Mahone Group	Mandate commercial benchmarking at time of sale and lease	Complete
	Barry Hooper, San Francisco Department of Environment	Implement the statute through AB 1103 rulemaking	Q4 2010

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Q&A

Contact

Jordana Cammarata,
Regulatory Analyst

California Public Utilities Commission

Email: jnc@cpuc.ca.gov

Phone: 415-703-1607

Kristina Skierka, Senior Advisor,
Energy Efficiency Strategic Plan

California Public Utilities Commission

Email: kristina.skierka@cpuc.ca.gov

Phone: 415-703-1184

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Thank You

Additional Questions: StrategicPlan@cpuc.ca.gov

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