



Fact Sheet

Energy Efficiency Zero Net Energy Program July 2010

On Sept. 18, 2008, the California Public Utilities Commission (CPUC) adopted the state's first Long Term Energy Efficiency Strategic Plan, presenting a single roadmap to achieve maximum energy savings across all major groups and sectors in California. This comprehensive Plan for 2009 to 2020 is the state's first integrated framework of goals and strategies for saving energy, covering government, utility, and private sector actions, and holds energy efficiency to its role as the highest priority resource in meeting California's energy needs.

The following investor-owned utility Zero Net Energy (ZNE) programs are innovative pilot programs that support ZNE goals in the Strategic Plan for residential and commercial sectors. The focus of these programs is on the new construction market.

Program	PG&E	Edison	SDG&E	SoCalGas	Total
ZNE Pilot	\$13,650,000				\$13,650,000
Sustainable Communities		\$7,879,106	\$964,081	\$828,449	9,671,637
Sustainable Portfolios		8,623,800			8,623,800
Technology Center		2,237,141			2,237,141
Total Budget by Utility	13,650,000	18,740,047	964,081	828,449	34,182,578

Total Energy Savings

Electric (kWh)	25,707,931*
Electric (kW)	10,175*
Natural Gas (Therms)	

*These are attributed to the Sustainable Portfolios program, which targets deep energy efficiency in existing buildings.

Program Description

PG&E ZNE Pilot Program

ZNE Energy Pilot Program is a non-resource program. A non-resource program guides customers to other utility incentive programs or finance/non-utility programs; this program does not offer rebates or account for energy savings. The ZNE Energy Pilot Program will focus its activities in four program areas:

- ZNE Communities
 - This program will offer design and technical assistance to teams considering master-planned communities and advanced commercial and residential projects. The program will target mixed-use complexes, multi-family and transit-oriented complexes and will focus on early stages of the entitlement and design process. Eligible projects should plan to exceed Title 24 by at least 40 percent and include on-site clean distributed generation. This program will also engage in: raising plug load efficiency, whole building solutions to address zero peak buildings, building monitoring, and visual display tools, green building codes and standards, and integrated demand side management, including energy efficiency, demand response, distributed generation, and advanced metering infrastructure.



- ZNE Demonstration Projects
 - This program will support the monitoring and performance assessment of residential and commercial demonstration projects, and once completed will develop case studies documenting the design decisions and process as well as the actual performance of the completed demonstration projects. Projects must be committed to exceed Title 24 by at least 40 percent and include clean distributed generation to receive financial assistance.
- ZNE Technology Advancement
 - This program will integrate with the existing Emerging Technologies Program to deliver information, insights, analytical tools, and resources to accelerate and expand the commercialization of innovative technologies.
- ZNE Design Integration
 - This program will develop and disseminate information on best practices for the design of ZNE communities, buildings, and homes by engaging organizations, and holding forums. Assistance will also be offered to planning and code officials who are reviewing proposed ZNE buildings and developments. This program will also include best practice guidelines and software tools to design and evaluate “beyond-code” projects.

Edison, SDG&E, and SCG Sustainable Communities

Sustainable Communities programs are non-resource programs that include early stage design assistance and community-scale development. Sustainable Communities Programs focus on sustainable design interventions and notes the importance of tracking influence of the program on measures Southern California Edison cannot claim energy savings on, such as water conservation, reduction in vehicle miles traveled, secondary energy benefits, on-site water retention, and waste diversion.

Edison Sustainable Portfolios

Sustainable Portfolios is a non-resource innovative program that targets significant energy, water, waste, and greenhouse gas reductions in the difficult market of leased commercial office space. This program seeks a sustainability commitment from a variety of participants, including real estate owners, investors, and tenants, and will focus on leased buildings with floor space larger than 100,000 sq. ft. Sustainable Portfolios incorporates audits, sustainable implementation plans with budgets/schedules, technical assistance, verification of performance, financial incentives from utility programs, other financing options to cover the remaining costs, and assistance in purchasing equipment to achieve sustainable practices.

Edison Technology Center

Edison Technology Test Center is comprised of three test facilities focused on distinct end uses: Refrigeration, Air Conditioning, and Lighting. Edison proposed to add a fourth test facility to advance ZNE residential and, to a lesser degree, commercial ZNE goals, funded at the level of \$2.4 million. This facility, a ZNE Test Center, will be used to investigate the viability of integrated energy efficiency, demand response, Smart Meters, and on-site renewable generation in ways that meet builder and occupant needs. It will be designed as a flexible facility to accommodate a range of different envelope, space conditioning, lighting, plug-load, and renewable technologies. The ZNE Test Center will provide the opportunity to examine these technologies on a system level.

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