

2010 – 2012

Energy efficient buildings happen by design...they happen because they make sense to the owner, to the design team, to the bottom line, and to the environment.

SAVINGS BY DESIGN is a statewide program encouraging high-performance non-residential building design and construction. Sponsored by California utilities, the program offers building owners and design teams a wide range of services:

- **DESIGN ASSISTANCE** supports the integration of innovative design technologies into new construction projects.
- **OWNER INCENTIVES** help offset the costs of energy efficient buildings.
- **DESIGN TEAM INCENTIVES** reward designers who meet ambitious energy efficiency targets.
- **ENERGY DESIGN RESOURCES** offers analysis tools, training, and in-depth information on efficient technologies and strategies.

The benefits of participating in SAVINGS BY DESIGN include: reduced long-term operating costs; greater comfort, health and productivity for occupants; and conservation of natural resources and cleaner air due to lower need for power generation. Contact your utility early in the design process to optimize your project's energy efficiency, to learn about program options, and to determine funding availability.



SERVICES

DESIGN ASSISTANCE

Design assistance is available to building owners and their design teams and is matched to the needs of the project. Services offered at no-cost by the utility may include: recommendations for efficient equipment, consultation on enhanced design strategies, or preparation of a report for the owner on recommended design modifications and facilitating the integration of these changes.

OWNER INCENTIVES

Financial incentives are available to owners when the efficiency of their new building exceeds the minimum SAVINGS BY DESIGN threshold, which is generally 10% better than Title 24 Energy Efficiency Standards. These incentives encourage owners to make energy efficiency a major goal in their new buildings, and help to defray some of the costs of energy efficient building components.

DESIGN TEAM INCENTIVES

To support the extra effort for integrated energy design and to reward exceptional design accomplishments, SAVINGS BY DESIGN also offers financial incentives to design teams. These incentives can provide a substantial value to the project. The design team may qualify for incentives when the building design saves at least 10% and the owner agrees to participate in the program. Other options exist, so contact your utility representative early in the design process to learn more.

ENERGY DESIGN RESOURCES

Energy Design Resources offers a valuable palette of energy design tools and technical guidance that make it easier to design and build energy efficient commercial and industrial buildings in California. The goal is to help educate architects, engineers, lighting designers, and developers about techniques and technologies that contribute to energy efficient non-residential new construction.

TWO APPROACHES TO HIGH-PERFORMANCE BUILDINGS

WHOLE BUILDING APPROACH

The *Whole Building Approach* is the preferred method of achieving energy savings because it considers integrated, optimized energy solutions.

Whole Building analysis uses computer simulation, provides reliable comparisons of various efficiency alternatives, and quantifies the effect of improving the building's systems.

Owner Incentives up to \$500,000 (\$150,000 SMUD) are available for projects estimated to exceed Title 24 or standard practice baseline by at least 10% on a whole building performance basis. Owners may be eligible to receive the following additional incentives, provided certain requirements are met (See the *SBD Handbook* Section 3.3.):

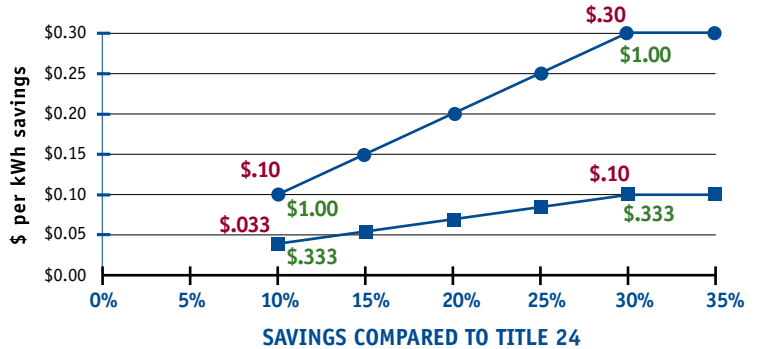
- Enhanced Commissioning Incentive
- Certification Incentive
- End Use Monitoring Incentive

Each incentive is calculated as 10% of the Owner's Incentive.

Design teams may be eligible for additional incentives of up to \$50,000. In addition, a \$5,000 Integrated Design Stipend is available to the Design Team leader upon completion of the schematic design if certain requirements are met. (See the *SBD Handbook* Section 3.3.)

Electric Incentive Rates/Annualized kWh Savings Gas Incentive Rates/Annualized Therm Savings

- OWNER - \$500,000 (\$150,000 SMUD) maximum
- DESIGN TEAM - \$50,000 maximum



Note: Projects will also receive \$100 per peak kW saved, subject to all applicable caps

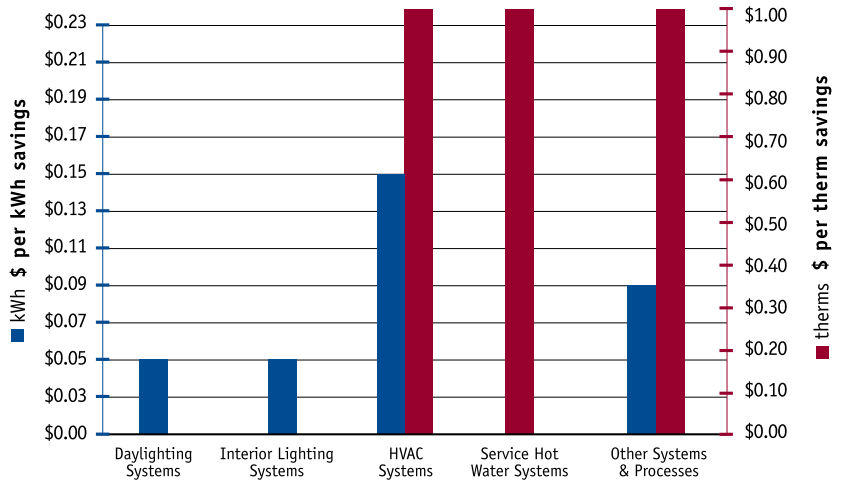
WHOLE BUILDING APPROACH INCENTIVES CHART

SYSTEMS APPROACH

The *Systems Approach* encourages owners to look at the systems of a building rather than individual equipment or fixtures. Each building system can be designed to achieve greater efficiency as a whole rather than as a collection of components.

Systems Approach Incentives are calculated using a flat incentive rate for Systems Approach projects. Your SAVINGS BY DESIGN representative can help you identify system options, quickly estimate the associated potential savings, and identify which systems qualify for incentives up to \$500,000 (\$150,000 SMUD) including:

- Daylighting
- Interior Lighting
- Heating, Ventilation, and Air Conditioning
- Service Hot Water
- Other Systems and Processes



Note: Projects will also receive \$100 per peak kW saved for all measures, subject to all applicable caps.

SYSTEMS APPROACH INCENTIVES CHART



www.savingsbydesign.com • www.energydesignresources.com



www.pge.com
1.800.468.4743



www.smud.org
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