

The City of San Diego

2013 ENERGY CHAMPION - LOCAL/STATE GOVERNMENT



“Energy efficiency is a citywide endeavor. We are proud of all of our efforts, large and small. Together, they add up to tremendous savings for the City of San Diego.”

LINDA GIANNELLI PRATT,
CHIEF PROGRAM MANAGER,
CITY OF SAN DIEGO
ENVIRONMENTAL
SERVICES DEPARTMENT

The City of San Diego is part of the national movement to foster clean technology generation. By providing cleaner air and water and improving the quality of life for its residents, “America’s Finest City” becomes more competitive and keeps California on the forefront of environmental change.

Annual Savings: 9,593,835 kWh
SDG&E® Incentives: \$1,081,496

Highlights

- Retrofit of 35,000 streetlights citywide
- Off-the-grid Fire Safe Community Project
- 350 EV charging stations installed
- Installed renewable energy – biogas, hydroelectricity, photovoltaic, and wind
- Solar tree EV charging stations with battery storage

Making sustainability a civic priority

The City of San Diego is a recognized leader in energy efficiency, distributed generation, and renewable energy. Linda Giannelli Pratt, Chief Program Manager for the City of San Diego Environmental Services Department (ESD) comments, “As a good steward of public funds, we always try to use our dollars efficiently and effectively. Through our Local Government Partnership with SDG&E®, we have the people and processes to move projects forward.” SDG&E Account Executive for the City of San Diego Dinah Willier adds, “The City of San Diego is exploring so many high-potential projects. From helping businesses and individuals retrofit buildings to generating its own power, it is a city well ahead of its time.” Under Mayor Filner, the City of San Diego has increased its focus on renewables to achieve energy independence and reach its Climate Action Plan goal of a 15% reduction in greenhouse gas emissions from 1990 levels by 2020.

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About the City of San Diego

As a founding member of Smart City San Diego, a collaboration that advances energy efforts, the City of San Diego is a vigilant leader in sustainability. As the country's eighth largest metropolis encompassing over 342 square miles and 1.3 million residents, the City of San Diego is comprised of 52 community planning areas and more than 100 distinctive neighborhoods. A well-managed city government of 55 departments and over 10,000 employees support a thriving and sustainable San Diego that daily earns its moniker as "America's Finest City."

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A shining light for savings and safety

The Local Government Partnership brings together regional experts to advance energy efficiency. As a result, the City of San Diego was able to create a roadmap to replace 35,000 sodium vapor streetlights with broad-spectrum induction lighting funded by the Department of Energy. Notes Lorie Cosio-Azar, Project Officer for the City of San Diego ESD leading the effort, "This simple change to a citywide asset offers annual savings of 16 million kWh and 1.8 million dollars." The City of San Diego is now working with the California Lighting Technology Center (CLTC) and SDG&E to explore safety lighting adaptive controls.

As part of its Fire Safe Community Project at the Scripps Ranch Recreation Center, the City of San Diego used energy efficiency and renewable resources to create a safe refuge in the event of an emergency. Funded by the Department of Energy and the California Public Utilities Commission, the project combines the latest energy-efficient equipment and fixtures with a photovoltaic array and battery storage unit for self-generation. Chandra Reddy, Project Manager for the City of San Diego ESD elaborates, "This Smart Grid effort allows the facility to be off the grid for 24 to 48 hours. That makes the building and the City more resilient in an emergency."

Renewable resources at the ready

The City of San Diego currently has over 22 MW of renewable energy production located on its sites, including biogas, hydroelectricity, photovoltaic and wind. Notes Tom Alspaugh, Senior Mechanical Engineer, Public Utilities Department for the City of San Diego, "Our government supports efforts to conserve energy, produce renewable energy, and control costs. That's why we've had renewable energy in place since 1985." The City of San Diego recently installed a 1.4 MW fuel cell project that provides approximately 60% of the South Bay Water Reclamation Plant's

energy. Visitors to Harbor Island can also see a new wind generation system being tested in partnership with SDG&E.

San Diego County is at the forefront of plug-in electric vehicle (PEV) deployment with the second highest per capita amount of PEV purchases in the nation. As a result, another important focus for the City of San Diego is continuing to support the expansion of EV infrastructure in the region. To date, there are 350 EV charging stations installed in the City of San Diego. Adds Jacques Chirazi, Clean Tech Initiative Program Manager for the City of San Diego, "The recent solar trees installation at the San Diego Zoo takes this further with its combined photovoltaic and battery system stations providing power to the grid through the SDG&E Sustainable Communities program."

Forward-thinking, future ready

Staying at the forefront of energy efficiency is an ongoing commitment. The City of San Diego works with several companies to perform energy audits and analysis. The City of San Diego also actively participates in the SDG&E Critical Peak Pricing (CPP) program by shedding loads whenever events are called. Through all of its efforts, the City of San Diego achieved annual savings of 9,593,835 kWh and \$1,081,496 in SDG&E incentives. Chirazi sums it up well, "San Diego is doing amazing things way ahead of other cities. We try to be a model and empower other communities to follow us."

For more information

To learn which SDG&E program is right for your business, contact your SDG&E Account Executive, call the Energy Savings Center at: **1-800-644-6133** or email businessenergysavings@sdge.com.

These programs are funded by California utility customers and administered by SDG&E® under the auspices of the California Public Utilities Commission. Rebates and incentives are provided on a first-come, first-served basis until program funds are no longer available.

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