



A  Sempra Energy utility®

*San Diego's **Energy** future is **Bright.***



“At San Diego Gas & Electric® we are committed to providing safe, reliable energy to our customers in the most environmentally responsible manner possible. Using the power of the sun is one way SDG&E® is fulfilling this commitment. SDG&E’s programs and services help promote energy-efficiency, sustainability and renewable energy solutions.

We support the state’s priority of making California the nation’s leader in solar energy. Our regional energy plan includes energy-efficiency and demand-response programs, more energy from renewable sources, as well as new electric transmission and generation. Our goal is to have 20 percent of the power we deliver come from renewable sources such as wind, solar and geothermal by 2010.

We are working hard with others in San Diego to help make our region a thriving example of clean, green communities. There are approximately 5,800 homes and businesses in San Diego with solar. We thank and recognize the exemplary leadership of our residential and business customers and regional stakeholders who strive to enhance the quality of life for all San Diegans.”

DEBRA REED, *President & CEO, SDG&E*

Stirling Energy System's SunCatcher dish system tracks the sun and turns its intense heat into electricity. The SunCatcher is the most efficient solar technology coming on the line that will generate emission-free energy.



Our energy includes more sunshine

Here are some ways SDG&E® is working to meet our region's future energy needs:

Delivering PV to the Grid – SDG&E Solar Energy Project

With the California Public Utilities Commission's (CPUC) approval, up to \$250 million will be invested in solar installations over the next five years as part of San Diego's largest solar initiative. This innovative SDG&E program will spark a partnership between businesses, municipalities and institutions to dramatically increase the use of photovoltaic (PV) tracking technology at shopping centers, schools, open places and landfills.

Up to 80 - Megawatts Total

Bringing New Solar Technology to Market – Stirling Energy Systems (SES)

SDG&E has a 20-year contract with SES to purchase solar energy generated by up to 36,000 SunCatcher dishes spread across ten square miles in Southern California's Imperial Valley. This highly efficient solar power system uses mirrored dishes that are 38-feet in diameter to automatically track the sun and turn the intense heat into emission-free electricity. The SES project will be one of the largest solar farms in the world.

Up to 900 - Megawatt System

Using Proven Technology – MMR Power Solutions (MMR)

SDG&E has two 20-year contracts with MMR to purchase solar energy generated from solar trough technology - augmented by biomass in the case of one contract - also to be located in the Imperial Valley. Solar parabolic trough technology is a tried and true approach to generating electricity from the sun, having been in successful operation since the mid-1980's.

Up to 100 - Megawatt System (50 Megawatts per contract)

Connecting the San Diego Region to Green Power – Sunrise Powerlink

SDG&E is seeking approval from regulators for a new high-voltage transmission line between San Diego and Imperial Valley called the Sunrise Powerlink. The Sunrise Powerlink is a key element of SDG&E's regional energy plan to improve the reliability of the power grid and increase the use of renewable energy. The 150-mile transmission line will deliver new supplies of needed electricity to homes and businesses and connect the region to clean solar, wind and geothermal projects located east of San Diego.

1,000 - Megawatt System



SUNRISE POWERLINK™

Using Clean Energy from Diverse Renewable Sources

In addition to solar, SDG&E has signed contracts for the purchase of other renewable sources such as wind from the Kumeyaay Wind Farm, as well as biogas from San Diego's Waste Water Treatment Plant.



Example of a local PV tracking system used at Alpine Elementary School (independent of SDG&E)



Stirling Energy Systems SunCatcher solar farm for the Imperial Valley - Southern California



Kumeyaay Wind Farm, Campo CA

Solar programs for your home from SDG&E

SDG&E is committed to helping you go solar, whether for your home or community facility.

EXISTING RESIDENTIAL HOMES

SDG&E is working with others to provide solar energy systems and other energy-saving home improvements to residents, including income-qualified customers and those in affordable housing communities. Residents and affordable housing developers, that meet certain state guidelines and other program requirements, are eligible to receive financial incentives for solar energy systems through the California Solar Initiative and no cost energy-efficiency measures from SDG&E. For more information, contact SDG&E's Energy Team at **1.866.597.0597** or visit www.sdge.com/energyteam.

RESIDENTIAL NEW CONSTRUCTION

SDG&E offers builders, developers and solar contractors generous financial incentives for energy-saving PV installations through the **New Solar Homes Partnership** (NSHP). Additional incentives of up to \$2,000 per home are also available for energy-efficiency through our **Advanced Home Program**. For more information, please call **1.866.631.1744** or contact newsolarhomes@sdge.com. For those interested in adding a solar energy system to their home or business, you may also qualify for local, state and federal incentives.



Moving forward with solar

Energy-Efficiency

Making your home or business more energy efficient is the first step we recommend before installing a solar energy system. This will help you save money on your energy bill, conserve natural resources and reduce the need for new power plants. SDG&E has many energy-efficiency rebates and incentives available for your business and home.

Interconnection Services with SDG&E

SDG&E has established a streamlined process to connect solar electric systems to the utility's grid. Safety and reliability are of paramount importance as the company oversees this process from start to finish. For more information, go to www.sdge.com/pv.

Electric rates for solar customers

Residential and business customers installing solar can take advantage of **Net Energy Metering** which allows eligible customers to receive credits for excess energy produced by their solar systems, then "bank" the credits for up to 12 months to offset their electric bill. In addition, SDG&E offers special rates which may be beneficial to both residential and business customers with solar.

California Solar Initiative (CSI)

The state of California offers a \$3 billion incentive program for those wanting to 'go solar.' There are three administrators for CSI in SDG&E's service territory:

1. The California Center for Sustainable Energy (CCSE) administers existing residential homes and existing and new commercial projects, as well as industrial, agricultural and multi-family affordable housing properties. For more information, please call **1.866.733.6374** or visit www.sdenergy.org.
2. Grid Alternatives will administer the single family affordable housing program commencing in early 2009. For more information, visit www.gosolarcalifornia.com.
3. SDG&E administers residential new construction projects through the New Solar Homes Partnership. For more information, please call **1.866.631.1744** or contact newsolarhomes@sdge.com.

Solar programs for your business from SDG&E

Business customers installing solar can participate in SDG&E's energy-efficiency programs.

We provide audits and incentives, in addition to safely connecting your solar system to the grid.

Together, SDG&E is working with CCSE to help customers go solar through the CSI program.

COMMERCIAL NEW CONSTRUCTION

SDG&E's award-winning **Sustainable Communities Program** encourages and supports the construction of energy-efficient and sustainably designed commercial and multi-family residential buildings.

Energy-efficiency incentives are available and customers are encouraged to install either their own solar system or one through the program.

The following solar projects participated in SDG&E's Sustainable Communities Program. To learn more, please visit www.sdge.com/sustainable.

Reuben H. Fleet Science Center

The Fleet Science Center is a leader in making Balboa Park greener by incorporating many energy-saving practices and hosting SDG&E's PV system with 10,000 square feet of solar panels supplying renewable energy to the San Diego community.

100-Kilowatt System

Solara

This is the first apartment project in California to be fully powered by the sun. The solar panel systems and other energy-smart features will help reduce residents' electricity bills.

140-Kilowatt System

Hunter Industries

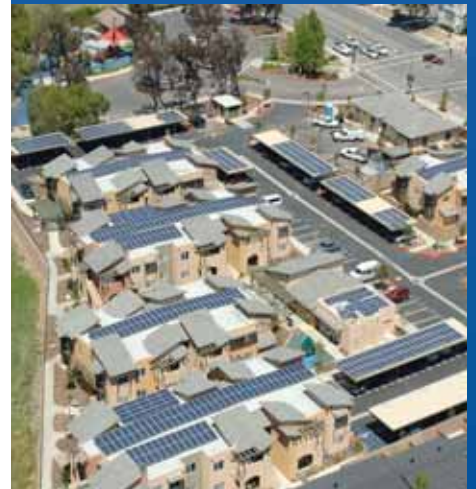
This green corporate facility combines creative daylight harvesting with two PV solar systems - one to serve their own electricity needs and the other, owned by SDG&E, provides clean renewable power to the San Diego community.

102-Kilowatt System – SDG&E - owned

86-Kilowatt System – Hunter Industries - owned



Reuben H. Fleet Center, San Diego CA



Solara, Poway CA



Hunter Industries, San Marcos CA



This 15' diameter dish tracking system on a Stirling external combustion engine/generator concentrates the sun's rays by more than 500 times to produce 3 kW of electrical power. This is one of many emerging technologies being evaluated by SDG&E's Concentrated Solar Power Demonstration Program.

What's on the horizon - new initiatives from SDG&E

Emerging Technologies

SDG&E demonstrates and validates innovative solar technologies beyond PV, such as concentrated solar power equipment, which promise higher solar-to-electric efficiencies as well as lower set-up costs and greater cost-effectiveness.

Smart Meters

SDG&E will begin replacing all electric meters and upgrading natural gas meters to smart meters in February 2009. This effort will take place through the end of 2011. These new meters will allow two-way communication between SDG&E and its customers. Because of the two-way capability, smart meters provide the foundational technology that, in the future, can help customers learn more about how and when they use energy, and potentially change the way they use energy. To learn more, visit www.sdge.com/smartmeter.



PEAK Student Program

PEAK is an educational program of SDG&E and the Energy Coalition, designed to teach students and their families to use energy more wisely and to consider alternative renewable energy sources.

For more ways to go solar, contact SDG&E at 1.800.411.7343 or visit www.sdge.com/solar.



*Serving you today.
Planning for tomorrow.®*

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