

Leading the Nation in Renewable & Alternative Power

Delivering More Renewable Energy

Southern California Edison (SCE), Edison International's regulated electric utility, is the nation's leading purchaser of renewable energy. In 2008, SCE delivered 12.6 billion kilowatt-hours of renewable energy – 16 percent of its total power deliveries under California's Renewable Portfolio Standard guidelines. SCE buys more renewable power than any other utility.

Each year, SCE solicits offers of new competitively priced renewable energy for its customers. Since 2002, SCE has entered into 47 contracts that will generate up to 27 billion kilowatt-hours per year of renewable energy. Every major renewable technology has been successful in this process.

SCE is the nation's leading purchaser of solar power, buying approximately 65 percent of all U.S. solar generation for its customers. In February 2009, SCE negotiated one of the world's largest solar deals. The series of seven "power tower" projects will provide up to 1,300 megawatts of solar thermal energy; they will begin producing in San Bernardino County, Calif., starting in 2013.

Another agreement is the largest wind energy contract ever negotiated by a U.S. utility. It secures for SCE customers 1,500 megawatts or more of power generated by new wind projects to be built in the Tehachapi area of California.

Renewable Energy Leadership

SCE purchases of renewable energy, which began in the 1980s, can deliver nearly 2,800 megawatts of electricity, including:

- 1,137 megawatts from wind.
- 955 megawatts from geothermal.
- 356 megawatts from solar.
- 176 megawatts from biomass.
- 200 megawatts from small hydro.



Renewable Transmission

SCE is building the nation's largest transmission project devoted primarily to renewable energy. The \$2.1 billion Tehachapi Renewable Transmission Project will provide access to up to 4,500 megawatts of electricity when completed.



SCE's Game-Changing Solar Project

In June 2009, SCE gained regulatory approval for the nation's largest solar panel project. The program will result in 500 megawatts of advanced photovoltaic generation to be installed on otherwise unused roofs of Southern California commercial buildings. SCE's solar project was prompted by advances in solar technology that reduce the cost of installed photovoltaic generation. When combined with the size of SCE's plan, the resulting cost per unit is projected to be half that of common photovoltaic installations in California. SCE believes the project could help drive down installation costs of photovoltaic generation for everyone. As part of the California Solar Initiative, SCE offers incentives to businesses, multifamily dwelling managers and homeowners who want to "go solar." Currently, there are more than 9,000 customers producing up to 125 megawatts of wind and solar power.

Clean Hydrogen Power Generation

SCE has proposed conducting the nation's first assessment of the feasibility of combining several advanced clean coal technologies in a full-scale commercial facility. This involves:

- Extracting low-emission hydrogen from domestic coal for use as a generation fuel
- Using the hydrogen in a high-efficiency combined-cycle generating system
- Capturing and sequestering up to 90 percent of the carbon in deep saline formations

SCE is also participating in studies of extracting hydrogen from petroleum coke for clean power production.

Edison Mission Group Wind Portfolio

Edison Mission Group (EMG), the power generation, capital and financial services arm of Edison International, has one of the largest wind energy portfolios in the United States. There are 25 projects currently in operation or under construction serving Arizona, Iowa, Minnesota, Nebraska, New Mexico, Oklahoma, Pennsylvania, Texas, Utah and Wyoming, as well as other states, and totaling more than 1,000 megawatts of generating capacity. EMG is working through joint development agreements to advance wind projects in additional states, including Illinois, Maryland, Nevada, New York, West Virginia and Wisconsin.