

Edison SmartConnect – a Smarter, Cleaner Energy Future



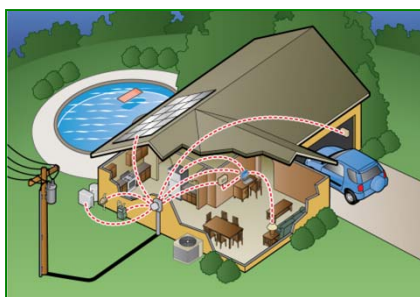
Southern California Edison's (SCE's) advanced metering program, Edison SmartConnect, will revolutionize how people use energy. Current home electric meters are remnants of the pre-computer era,

mechanical devices that can record only the total amount of electricity used during a billing period. Having more detailed usage information such as how much energy is used at various times of the day would create much smarter energy consumers and allow utilities to offer new energy-saving programs. Additionally, advanced meters could interact with the next generation of "smart" thermostats, appliances and other communicating devices that soon will enable consumers to save energy and money 24/7 through simple programming.

SCE's Approach to Smart Meters

When the California Public Utilities Commission asked the state's utilities to study upgrading to smart meters, Southern California Edison concluded that existing, off-the-shelf new technologies would not be cost-effective, since they offered too few new functions and customer benefits. So SCE

collaborated with meter manufacturers to develop a completely new solid-state metering and communication system that would offer customers a lower cost, greater



benefits and improved grid operations. Edison SmartConnect is now among the industry's leading advanced metering systems.

Meter installation began in 2009 and will run through 2012. SCE plans to replace nearly 5 million existing traditional electric meters for all its residential and small business customers with new smart meters, which will enable money-saving, time-differentiated rates and demand response options, as well as home area connectivity with smart appliances in the future.

Save Money, Protect the Environment

Edison SmartConnect introduces new ways of protecting the environment, while saving energy and money.

The new meter system will allow SCE customers with smart thermostats and appliances to set them to respond automatically to periods of peak pricing, potentially reducing overall peak demand on SCE's grid by as much as 1,000 megawatts – the output of a major power plant.



Additionally, when customers have detailed, next-day information about their energy use, SCE believes they will see new opportunities to conserve. The utility estimates that customer conservation will reduce greenhouse gases and smog-forming pollutants by at least 365,000 metric tons per year – the equivalent of 79,000 cars being removed from the road.

Other customer benefits include:

- Smart meters will bring time-of-use pricing plans that give customers more choices based on lifestyle and convenience.
- Remote capability means customers will not need to wait for a field representative when they want to connect or transfer service.
- Smart meters will provide more extensive outage information, enabling a faster response for quicker service restoration.

The Industry Leader

• PowerGrid International magazine recognized Edison SmartConnect with the "Smart Metering Project of the Year" award for 2010. Entries were received from some of the best-known utilities in the U.S. and worldwide. Judging criteria included ingenuity, scope, practicality, vision and execution.

• The Edison SmartConnect project received a "Buildy" award in 2010 at the annual ConnectivityWeek conference and exposition. "Buildy" awards recognize leadership in smart grid, smart buildings, smart homes, smart devices and smart services.

• Edison SmartConnect won the Utility Peer Network's 2008 Annual Metering Awards Program "Best Metering Data Integration Initiative."

• The Electric Power Research Institute has recognized SCE as an industry leader for its approach to advanced metering. SCE is the first U.S. utility to adopt the institute's IntelliGrid Architecture for a system-wide advanced metering deployment.