

# KYOCERA SOLAR GROVE™

## SYSTEM SIZE:

235 kW AC CEC  
279 kW DC

## SYSTEM CONFIGURATION:

Utility Configuration: Grid Connected  
Solar Modules: 1400 KC-187GS  
200 KC-88CGS  
Inverters: 2 SMA American Sunny  
Central SC125U  
Batteries: None  
Charge Controllers: None

## POTENTIAL LEED POINTS:

9-13

## UTILITY DISTRICT:

San Diego Gas & Electric

## NUMBER OF PARKING SPACES:

186

## YEARLY POWER PRODUCTION:

431,000 kWh

## DATE COMPLETED:

June 2005

## AVOIDED EMISSIONS:

(annually, in pounds)

Carbon Dioxide: 412,945  
Nitrogen Oxides: 376  
Sulfur Dioxide: 282

## POUNDS OF COAL DISPLACED:

244,463 annually



Kyocera International US Headquarters  
8611 Balboa Avenue, San Diego, CA 92123

The Kyocera Solar Grove™ is located at Kyocera International's US Headquarters located in San Diego, California. The project incorporates complete sustainable design elements and integrates architectural form with renewable energy's functionality to increase property value, produce electricity and offset carbon emissions. The Kyocera Solar Grove™ consists of 25 Solar Trees™ with 1,400 Kyocera KC187GS solar photovoltaic (PV) modules interspersed with 200 translucent KC88CGS modules offering improved day-lighting and aesthetic appeal from both above and below the structures. The PV modules are mounted in Unirac Sun Frames supported on single column galvanized steel structures with integrated up-lighting and poured concrete bases secured in "bio-swale" trenches. Storm water runoff enters curb gaps, flows into the bio-swales through organic and in-organic material filtration yielding clean water at the point of discharge. The up-lighting illuminates the modules' white Tedlar™ backing providing enhanced security and distilled radiance at night. In these ways the project addresses numerous environmental issues (heat island effect, dark skies initiative, carbon offset), provides additional LEED points for the owner and offers a visible commitment to the environment.

