

ELEN Consulting a leader in energy-efficient ELectrical ENgineering

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The goal of sustainable design is to limit the adverse effects of buildings on the environment by minimizing excessive energy use, reducing the depletion of natural resources and environmental pollution while also maintaining a comfortable and healthy building environment. Building green also optimizes the energy performance of the structure, which reduces the overall costs associated with long-term maintenance and operation.

One of the largest Electrical Engineering consulting firms in San Diego, ELEN Consulting is also a local leader in LEED building design, the national standard for environmentally responsible building design based on industry accepted benchmarks. Achieving LEED certification for a building increases its marketability and allows access to a growing array of state and local government incentives.

ELEN's 20-person staff has designed numerous LEED buildings. The depth of experience combined with a diverse and highly qualified staff allows ELEN to provide clients with sustainable designs that meet the industry's highest level of operational efficiencies, environmental performance and interior comfort.

One of ELEN's recent projects was a Lighting System Upgrade at one of the most popular San Diego shopping spots, Fashion Valley Mall. ELEN completely renovated the exterior lighting throughout the mall including food court and entrances to the main shopping areas. Mall landscaping lighting was updated with new LED type lights for palm trees and planters and new energy-efficient lighting was added in common areas with chairs and couches for visitors to relax and socialize. Color-programmable, energy-efficient lighting was also added for two new water features.



One of ELEN's recent projects was a Lighting System Upgrade at Fashion Valley Mall.

With the plethora of renewable energy technologies hitting the market and the steady decrease in prices for Photovoltaic panels and Inverters, more corporations and businesses are beginning to consider on-site renewable energy generation. Companies of all sizes, with varied electricity needs, can tailor one or a combination of several renewable energy installations to fit the needs of the enterprise. There are multiple technologies to consider during the evaluation process and an in-depth cost/benefit analysis should be performed.

During last two years ELEN Consulting has designed over 20 million Watts of various Photovoltaic (PV) systems including carport, roof and ground mounted PV monocrystalline and polycrystalline panels, Thin Film type array and super productive PV Solar Concentrators. The list of recent installations includes several office buildings and apartment complexes owed by Fenton Company, six different schools in Alpine, several Medical facilities operated by Kaiser Permanente and PV arrays on various military bases throughout the country starting with Anderson AFB on Guam Island and Camp Pendleton on the Pacific Coast all the way to Camp Lejeune on the Atlantic Coast.

There are powerful forces at work which are driving the U.S. economy toward a more sustainable way of doing business in the long run. Those drivers include the science of climate change, rising global demand for a limited

supply of fossil fuels, and growing political support for clean energy. Sustainable energy is not only good for our planet; it's good for our industry.