

Control Energy Management with Quality Electric's SOS Program

(Seven Optimizing Solutions)

**Efficient Lighting
Lighting Controls
Power Generation
HVAC
Power Quality
Water Management
Building Automation**

Call Today to Schedule an SOS Audit
340.773.4630 Ext: 300
QualityElectricVI.com

QES' Special Projects Group is ready to analyze and design an integrated energy-saving program based on seven strategic product categories. Residential, commercial or industrial applications (new or retrofit) can expect maximum savings and a dramatic reduction of carbon emissions with the implementation of its customized plan.

As a Partner of Energy Development in Island Nations (EDIN) and its Energy Efficiency Working Group, Quality Electric is a territory-wide leader in the aggressive goal of a 60% reduction in fossil-fuel derived energy consumption in the Virgin Islands by 2025 (ACT 7075).



Energy Saving Solutions for an Evolving World

6703 Peter's Rest • Christiansted, St. Croix

Seven Optimizing Solutions

Energy Efficient Lighting

is designed to use less electricity to operate than traditional lighting products. Incandescent, High-intensity Discharge (HID), halogen, fluorescents have characteristics such as style, brightness, and simplicity that make them appealing but are very inefficient and consume a lot of electricity. Light Emitting Diodes (LEDs), Induction, low-watt fluorescent, natural, and solar lights are much more efficient and produce a tremendous amount of utility savings. LEDs, Induction, natural and solar lights are also more eco-friendly.

Lighting Controls

consist of devices and systems that reduce, and in some cases, eliminate the amount of power being utilized to provide light. Obviously, providing light to an unoccupied room is wasted energy. Products such as dimmers, occupancy sensors, timers and scene controls have tremendous impact on saving energy and cost.

Power Generation

consists of technologies and products that produce electrical power. The utility plant is the primary source of power generation, but typically this term is meant for non-utility provided power. Diesel, propane, solar and wind generators are among these alternative technologies.

Air Conditioning

provides thermal comfort for people while also providing a less humid environment—very important in a tropical location. Historically, air conditioning represents 40% to 70% of a building's energy costs. High efficiency air conditioning is the top level solution for not only reducing utility bills, but reducing power demand on the utility provider.

Power Quality

solutions are designed to monitor, condition and control a building's power disturbances. Surges, spikes, brownouts, fluctuations, interruptions, and phase issues are all problems that cause damage to appliances, equipment and facilities but they have a direct impact on reducing the efficiency and lifespan of electrical equipment. Operating a motor at a higher voltage than necessary significantly increases energy consumption and thereby carbon emissions. Investment in products such as Voltage Regulators, Surge Suppressors, Variable Frequency Drives (VFDs), and Uninterruptible Power Supplies (UPS) can provide very short payback periods.

Water Management

is the design and implementation of systems that distribute and properly treat water/waste water. Effective water management involves solutions for optimal water use with energy efficient products and systems. Utilizing Variable Frequency Drives (VFDs) for water pumps and specialized controls for efficient water management will produce significant energy savings while increasing the lifetime of system equipment, specifically motors and pumps.

Building Automation

can incorporate all of the previous six (6) categories. Often referred to as a Building Management System (BMS), this sophisticated technology maximizes the efficiency of individual products/systems to achieve the greatest energy cost reduction available in a productive building application. An integrated solution often consists of Variable Frequency Drives (VFDs), occupancy light sensors, smart electrical panels, high efficiency air conditioning and smart lighting technologies....all controlled by the BMS which monitors and/or controls power, thermal comfort and water management.