THE GREEN EVOLUTION

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Kuwait's Environment,
Going Green means being economical

Kuwait’s energy demands is changing rapidly due to an industrial revolution and population growth. Currently, energy supply is not meeting demand. The peak load demand was 10,500 Megawatts (MW) in 2011 and is expected to reach 25,000 MW by 2025.

Kuwait’s Ministry of Electricity & Water (MEW) plans to diversify its power plants to both fuel-based and renewable energy. To satisfy the required energy from now until the plan set by MEW is done in Kuwait, energy consumption can be controlled and reduced by adopting different solutions. With H.H Shaikh Sabah Al-Ahmad Al-Jaber Al-Sabah, direction to Integrate 15% of Kuwait energy through renewable and sustainable energy sources by 2030.

Green Energy provides Integrated solutions to industrial, ministerial and residential with sustainable solutions.
INTRODUCTION

Green Energy is an integrated sustainable solutions provider specializing in RENEWABLE, LED, AQUA, AND SMART SOLUTIONS.

Green Energy is a Kuwait-based sustainable solutions provider that was established in 2009. It serves governmental, industrial, residential and commercial sectors by accommodating the rising demand for energy through its green solutions. Green Energy value proposition is gained by understanding the customer needs, creating a relationship and allowing Green Energy’s competent team to help them initiate innovative solutions.

Green Energy provides solutions that are cost-effective, long life, and produce no carbon emissions. Energy consumption is on the rise and so is the cost in its generation and distribution, but with green buildings it is more convenient, sustainable and socially responsible.

MISSION

“To be recognized as a national leader in providing environmentally conscious products and services.

Our team strives towards customer satisfaction. This is best manifest through their commitment to rapid response to customers and focus on their needs.”

Our Purpose: Introduce sustainable solutions to our clients to increase their comfort and convenience, and to meet LEED requirements to improve building efficiency.

LEED Credential: (Leadership Energy Environment Design) Our Team Work closely with our client with a defined process.
VALUES

Transparency
We are a transparent organization that fulfils its clients needs with clarity and honesty.

Team Work
Our organization is a teamwork oriented with full respect to each other and caring for each other we achieve our objectives in a smart manner.

Reliability
We provide dependable solutions and consultation that meets our customers requirements.

Customer Focus
We value our clients through an attentive and close relationship.

Organization Development
We develop our people to provide best service and practice to our clients.

Safety
As our most valuable assets are our people, we implement the best safety practices.
Green Energy provides solutions that fall under electricity and water. With electricity, there are renewable solutions that help to produce it; LED lighting and smart solutions which reduce electricity consumption. For water themed solutions, Green Energy provides energy efficient ways to heat, pump and optimize fresh water.

Renewable Solutions To Generate Energy “Solar PV & Wind”

Renewable energy leverage nature from both the sun and wind. Renewable power systems are now regarded as essential towards a sustainable solution to energy generation. Renewable technology is seen in both industrial and consumer applications. Absence of both air and noise pollution, wind turbines and solar panels generate clear, clean, silent and sustainable energy without carbon emissions. Their life expectancy can reach up to 20 years. They require little maintenance and are self-reliant.

LED Solutions Reduces Energy Cost By 70%

Green Energy provides the latest generation in LED lighting technology. Energy efficient LED lighting can be used for both outdoor (street lights, marine lights, military light towers) and indoor lighting. It consumes 70% less energy than the conventional lights. LED has a long life span, less heat, and integrates well with renewable systems.

LED Solutions
Street Light
Flood Light
High Bay Light
Indoor Light
Explosion Proof LED

Renewable Partners:

LED Suppliers:
Aqua Solutions Optimizes Both Water & Energy

Aqua solutions include solar water heaters, solar water pumps and Grey water.

Solar water heater
Solar water heater with heat pump technology can secure the required hot water in winter using low energy consumption with less required maintenance.

Solar water pump
Solar water pump utilizes the panels’ energy output to generate required flow of fluids. Unlike the conventional water pumps, solar water pump requires less maintenance and best suited for remote areas and can be integrated with reverse osmosis (RO). Where grid connections are not available.

Grey water and recycle system
Recycled Grey water is the treated water from showers, bathroom sinks, washing machines where human hygiene is most critical and treats it to be used for less sensitive water uses such as car washing, yard washing, toilet flushing and irrigation.

Smart Solutions Reduces Wasted Energy In Buildings

Smart Solutions can automatically turn off its own lights in the room when it senses no one is around. Green Energy provides Smart Solutions that accommodate human behaviour and help in the automation of the building. Solutions include switchboards, wireless control, dimmers and sensors. Smart Solutions would mean programming the building to reduce wasted energy, may this energy be for lighting, maintaining the temperature, and/or reducing direct light at a particular time of the day.

Motion & Presence Detectors

- High-Frequency Sensor Lights
- Flood light with Infrared Sensor
- Wireless technology sensors
- Smart building integration

Benefits of Sensors and Detectors

- Saving costs on power and maintenance.
- Increased sustainability.
- Increase building efficiency

Energy Management Solution

- Saving in electricity consumption up to 15%.
- The Premier Electric Current Optimization System.
- Explores the potential of electron movement
- Compensates for loss from resistance.
- Does not consume electricity.

Application

- Residential
- Commercial
- Industrial

Solar Water Heaters & Grey Water System Suppliers:

Green Energy

Smart Solution and Building Efficiency Suppliers:

Steinel LEVITON KNX
To provide the best outcome, Green Energy works with its customers and provides its solutions in these stages.

Needs Assessment Stage
Green Energy assist its clients to recognize the untapped opportunities for their projects to become sustainable and more efficient via:

- Understanding the defect clearly
- Designing the right solution
- Starting with a clear plan

Green Energy begins with the blueprints and listing the solutions it will be providing accordingly. In this stage, the team will verify the list recommended prior to procurement.

**SERVICES**

**ENGINEERING & SIMULATIONS**

Approved designers for inverters by SMA

Approved Solar PV system designers & integrator by MEW

Light Planning & Simulation
Sensor Planning & Range Simulation
PV System Sizing & Designing
Solar Thermal System Planning
Monitor & Maintenance Stage:
Once the solutions are in place and operating:

- Technical team will be made available for visits to either to fix or further optimize the solutions installed.
- After the project has been done, maintenance can be either be scheduled or on call.

Delivery & Installation Stage:

- Getting the right orders on schedule.
- Green Energy’s technical team will be delivering them to the project’s site.
- Installation will happen as per the agreed upon design.
- Technical team will be commissioning the site and seeing that everything is tested and operational.
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Sustainable Solutions

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