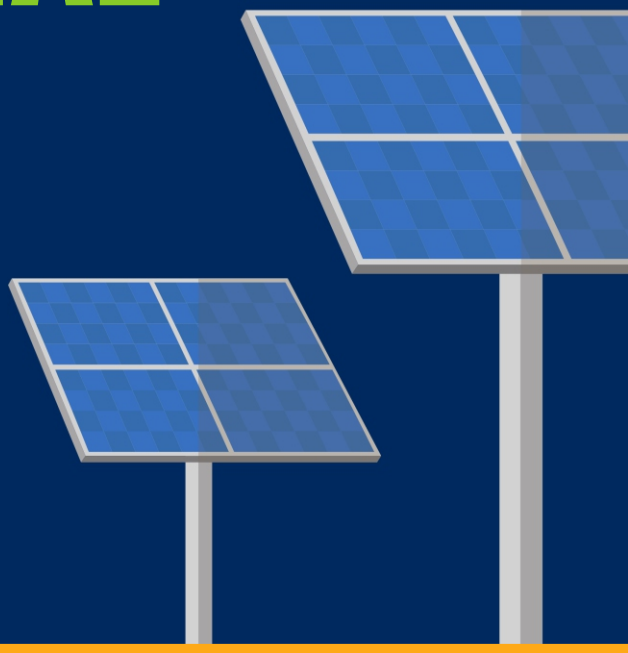
SUN MOVE
LANKA INTERNATIONAL

SUN MOVE LANKA INTERNATIONAL (PVT) LTD



- Reduce your carbon footprint
- Increase the value of your home or business
- Low maintenance and long lasting

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Content

SUN MOVE
LANKA INTERNATIONAL

Save Electricity for Next Generation

OUR MISSION

At SUN MOVE LANKA INTERNATIONAL, we proudly conduct all our projects under the guidance and recognition of the Government of Sri Lanka and the Sri Lanka Sustainable Energy Authority. As an authorized solar energy service provider, we are committed to contributing to a better and more prosperous nation.

We extend our heartfelt thanks to the Government of Sri Lanka, the Sri Lanka Sustainable Energy Authority, the Ceylon Electricity Board, LECO, our banking partners, and our valued customers. Your continued support and partnership have been instrumental in our success and in powering a brighter future for Sri Lanka.

LECO

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Sri Lanka Sustainable Energy Authority

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SUN MOVE LANKA INTERNATIONAL

Sun Move Lanka International was established to meet the growing demand for alternative energy sources in Sri Lanka. Our founders recognized that the future of energy lies in renewable resources that are both accessible and efficient, such as solar power.The sun provides an abundant source of energy, and once harnessed, this power is free. We specialize in the design, supply, installation, and maintenance of high-quality solar electric PV systems for homes and businesses across the country. Our primary focus is on solar on-grid systems, but we also offer solar water heaters, solar mounting systems, solar street lights, and related products. These solutions are ideal for domestic use, industrial environments, and commercial buildings.

Our mission is to liberate the public from the burden of soaring electricity costs by providing efficient and cost-effective solar power systems. At Sun Move Lanka International, we are committed to delivering excellent, personalized, and comprehensive service to every customer. Our company is your trusted partner in powering a sustainable future.

SUN MOVE
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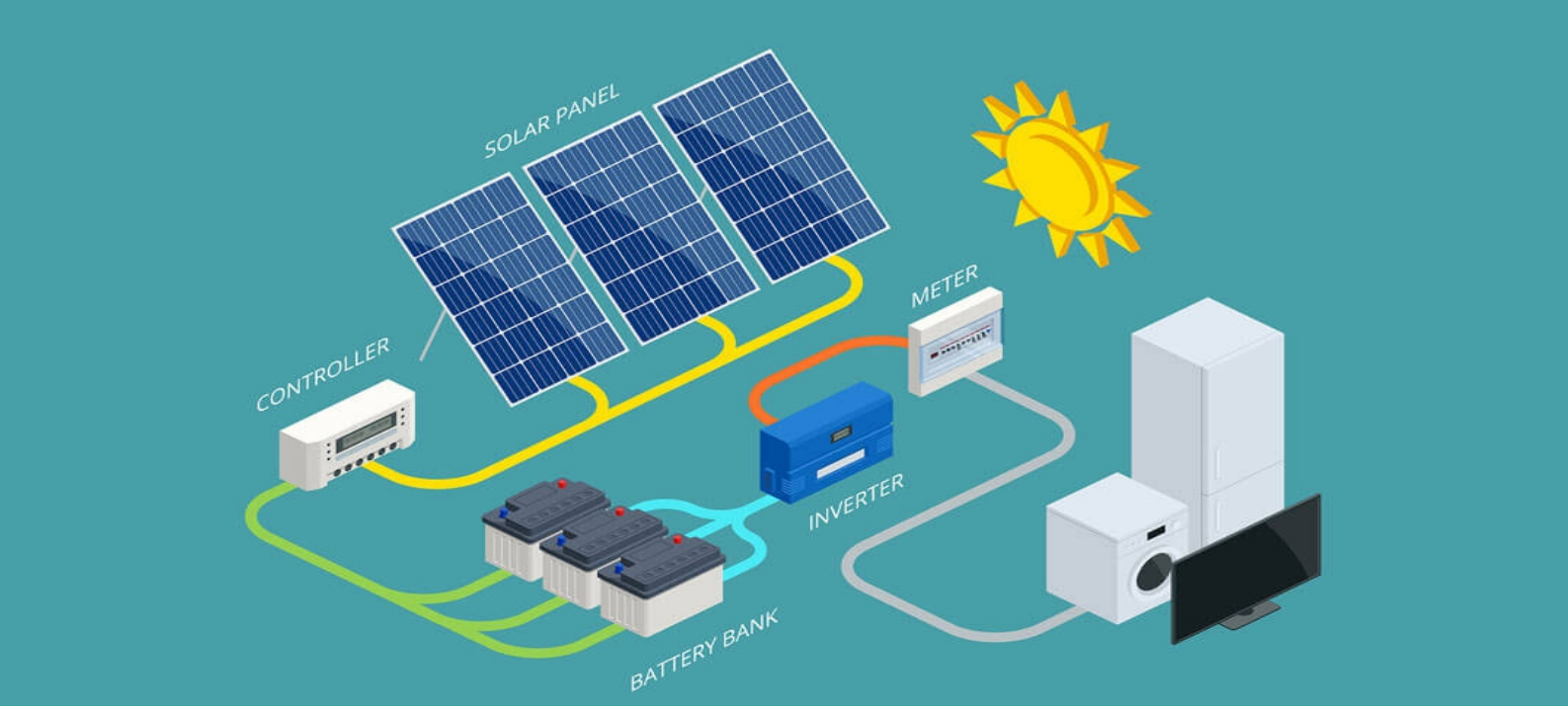
Our Vision :- "We strive to enhance the living standards of people by introducing new technologies that make solar power systems more effective and affordable."

Intention :- "To become one of the world's top 10 solar power companies by providing high-quality, affordable products while doing our best to protect and preserve nature."



Photovoltaic (PV) System Overview

A photovoltaic (PV) system, commonly known as a solar power system, is designed to convert sunlight into usable electricity. This system is composed of several key components working together:

Solar Panels: These panels capture sunlight and convert it into direct current (DC) electricity.

Solar Inverter: This device converts the DC electricity generated by the solar panels into alternating current (AC) electricity, which is usable by most electrical systems in homes and businesses.

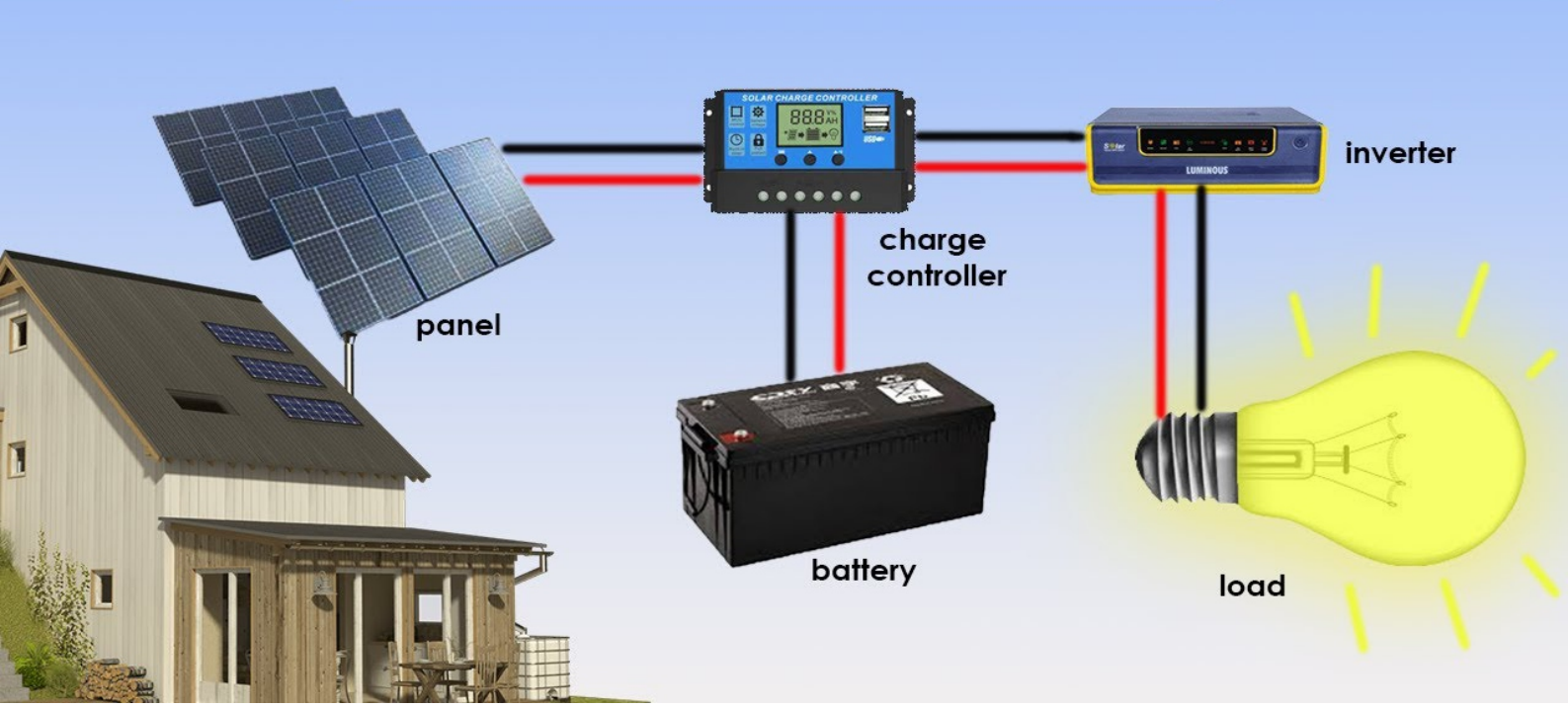
Mounting System: This provides the structure to securely hold the solar panels in place.

Cabling and Electrical Accessories: These are necessary to connect and integrate all components into a functioning system.

Optional Components: Some systems include a solar tracking system to optimize performance or an integrated battery solution to store electricity, especially as the cost of storage devices continues to decrease.

Strictly speaking, the term "solar array" refers only to the collection of solar panels, the most visible part of the PV system. It does not include the other hardware components, often referred to as the balance of system (BOS).

It's important to note that PV systems convert sunlight directly into electricity and should not be confused with other solar technologies like concentrated solar power (CSP) or solar thermal systems, which are primarily used for heating and cooling purposes.



Function of a Solar Power System

Solar Panels: Solar panels absorb and convert sunlight into direct current (DC) electricity.

Inverter: The generated DC electricity is converted into alternating current (AC) by an inverter, which is installed within the premises of a house or commercial area.

Mounting and Electrical Accessories: The mounting system, cabling, and other electrical accessories are set up to create a fully functional solar power system. To enhance performance, a solar tracking system may also be used, especially as the prices for storage devices continue to decline.

Net Metering: The electricity generated by the solar system is tracked by a "Net Meter," "Net Account," or "Net Plus" system, which may be installed by the utility provider (CEB or LECO) once grid connectivity is approved.

Income Generation: Depending on your system's generation capacity and your electricity usage, you have three different options for generating additional income through your solar power system.

Promising Schemes for Distributed Renewable Energy Generation

One promising approach to distributed renewable energy generation is the introduction of Net Accounting, Net Metering, and Net Plus schemes. These programs encourage customers to generate their own electricity through renewable sources such as solar, hydro, or biomass directly at their premises. Net metering programs, in particular, make self-generation more attractive by eliminating the need to size systems precisely to meet a customer's power needs or to install on-site storage and power conditioning devices. The deployment of distributed renewable energy through net metering offers several environmental, economic, and social benefits.

Net Metering

Under the Net Metering scheme, consumers pay only for the net amount of electricity they consume. If a consumer's solar energy system generates more electricity than they consume, the surplus can be carried forward for future use over a period of 20 years. However, no payment is made by CEB or LECO for the surplus electricity.

Net Accounting

In the Net Accounting scheme, if the solar energy system generates more electricity than the consumer uses, the consumer will be paid for the excess at the rate of Rs 22.00 per unit for the first seven years after installation. From the 8th to the 20th year, the rate drops to Rs 15.50 per unit.

Net Plus

The Net Plus system allows consumers to be paid for all the electricity generated by their solar energy system, regardless of their own electricity consumption. For the first seven years after installation, the rate is Rs 22.00 per unit. From the 8th to the 20th year, the rate is Rs 15.50 per unit. Unlike Net Metering and Net Accounting, there is no linkage between electricity generation and consumption. Consumers pay for the electricity they use at the standard tariffs, while CEB or LECO pays separately for the total amount of power generated by the solar energy system.

Advantages of Using Solar PV Systems

Benefits for You:

Environmental Contribution: By becoming an electricity provider to the national grid, you not only earn a monthly income but also contribute positively to the environment.

Financial Support: You can access loans with low interest rates and a 7-year repayment period, available island-wide.

Seamless Installation: There's no need to alter your current home electricity circuit when installing a new solar PV system.

Eliminate Electricity Bills: With a solar PV system, you can completely eliminate your electricity bills, making your home or business more energy-independent.

Advantages to the Country

Cost Savings: Solar power is a completely free and abundant energy source. By adopting solar energy, the country can reduce its reliance on costly coal and fossil fuels, leading to significant savings in foreign exchange.

Environmental Protection: Utilizing solar energy can prevent the annual emission of 150,000 metric tons of CO2, contributing to a healthier environment and helping combat climate change.

Energy Security: The widespread deployment of solar energy stations across the country enhances the stability and resilience of the national electricity grid, ensuring a more reliable power supply.

Efficiency Gains: Solar power generation reduces energy losses during transmission, making the energy system more efficient and sustainable.

why?

Why Do You Need Us?

Sun Move International (PVT) Ltd. collaborates with the Sri Lanka Sustainable Energy Authority to provide solar energy solutions to all citizens of Sri Lanka. We meet all your requirements regarding solar PV systems with our well-trained and highly qualified staff. As one of Sri Lanka's most trustworthy solar energy providers, we bring extensive experience and expertise in solar system installations.

What We Offer You:

- Engineering consultancy for solar PV systems
- Cost-effective solar PV systems
- On-Grid solar PV systems
- Loan facilities for solar PV systems
- 25-year warranty
- Island-wide service network
- World-class equipment from highly reputed manufacturers

Our Performance Guarantee

We ensure the high performance of your Solar PV system. Our technicians will thoroughly analyze your requirements to determine the most suitable system and the optimal installation site. By using top-tier equipment and tools, we guarantee the best performance for your system.

Our Commitment to You

At Sun Move Lanka International, we take care of every aspect of your solar journey, from pre-evaluation to installation. We offer comprehensive warranty claims and maintenance services to ensure your solar PV system performs at its best.

Our dedicated workforce is ready to serve you every day. We provide free services and maintenance for your Solar PV systems, always prioritizing the performance and efficiency of your investment.

With a customer-focused business culture, we strive to offer you the best Solar PV system and after-sales services without wasting your time or money. Our island-wide service network, coupled with our well-trained staff, ensures quick and effective support for any warranty issues or technical needs you may have.

Solar PV Systems and Equipment

At Sun Move Lanka International, we use the best equipment in the world to construct our solar PV systems. We guarantee the performance, durability, and safety of every product we install. You have the flexibility to choose the products and brands that best meet your needs, and we assure you that we will fulfill your requirements with the highest quality standards.

Invertors

Brand Name : Solax
Manufacturing country : China
Warranty : 10 Years

Brand Name : ABB
Manufacturing country : Ithally
Warranty : 10 Years

Brand Name : Goodwe
Manufacturing country : China
Warranty : 10 Years

Brand Name : Solis
Manufacturing country : China
Warranty : 10 Years

Brand Name : SMA
Manufacturing country : China
Warranty : 10 Years

Solar Panels

Brand Name : Trina Solar
Manufacturing country : China
Warranty : 10 Years

Brand Name : JA Solar
Manufacturing country : China
Warranty : 10 Years

Brand Name : REC
Manufacturing country : Singapore
Warranty : 10 Years

Brand Name : Jinko
Manufacturing country : China
Warranty : 10 Years

Brand Name : Phono
Manufacturing country : China
Warranty : 10 Years

Solar Hot Water System

Tank less water heaters heat water directly without the use of a storage tank. When a hot water tap is turned on, cold water travels through a pipe into the unit. Either a gas burner or an electric element heats the water.

Non Pressure type Hot Water Systems

Systems Non pressure solar Heaters which can get air out of heat pipe are called in-line all-glass vacuum tube solar water heater, which relied on sealing joints between real null set heat pipe and tank seal, so it cannot withstand the pressure. Non pressure solar in water under no pressure, that is rely on drop tanks of water releases. Lower part of the main pipeline for the tank inlet / outlet pipe and overflow pipe: water tank when the water is full, overflow pipe overflow alarm, shut off water valves; when using hot water relies on drop in inlet/outlet pipe flow under the action of gravity, overflow pipe fill the air at this time. Because non pressure solar geyser that will get air out of heat pipe vacuum tube has water, so if there is a tube, then the water in the water tank would be all out.

Pressure type Hot Water Systems

Pressure water heater known as phase-change heat pressure solar water heater, uses phase-change heat collector tube, is made up of plates, aluminum wing consisting of phase-change heat pipes and heat transfer. Sunlight, selective coatings absorb the collected thermal heat transfer aluminum wings passed to phase-change heat pipes, refrigerant heat transfer of phase-change heat pipes, using a phase change process will transfer the heat to the water inside the tank to complete heat. Pressure in the pressure of the water heater (pressure, size, are basically the same size as the pressure within the local network) under water. When used, shall ensure that water valve always open, and not without water. Due to no water inside the flat, so the minor damage does not occur, water outflow possibilities in FCL.

Benefits of solar water heating

Reduced energy bills. Sunlight is free, so once you've paid for the initial installation your hot water costs will be reduced. Lower carbon footprint. Solar hot water is a green, renewable heating system and can reduce your carbon dioxide emissions.

Solar Water Pumping System

A solar water pumping system uses solar energy to pump water from a source, such as a well or a pond, to a designated location. This system is especially beneficial in remote areas where grid electricity is unavailable or unreliable. Solar water pumps are widely used in agricultural fields for irrigation, livestock watering, and domestic water supply.

DC Solar Water Pump

A DC solar water pump operates on direct current (DC) produced by solar panels. These pumps are ideal for smaller applications such as household water supplies or small irrigation systems. They directly use the power generated from solar panels without the need for conversion, making them efficient and simple to operate.

AC Solar Water Pump

An AC solar water pump operates on alternating current (AC) power, which requires an inverter to convert the DC power generated by solar panels into AC. AC pumps are typically used for larger applications, such as community water systems or large-scale irrigation, where higher power output is necessary.

What is Solar Water Pumping Technology?

Solar water pumping technology is the use of solar energy to drive water pumps. Solar panels capture sunlight and convert it into electrical energy, which powers the pump to draw water from a water source. There are both surface and submersible pumps, depending on the depth of the water source.This technology offers several advantages, including reduced reliance on grid electricity or diesel generators, low operating costs, and eco-friendly energy usage. Although the initial installation costs are higher than traditional systems, solar water pumping systems have minimal ongoing costs and a typical payback period of three to five years, depending on usage and location.

Air Conditioners

Air conditioning is the process of removing heat and moisture from the interior of an occupied space to improve the comfort of occupants. Air conditioning can be used in both domestic and commercial environments. This process is most commonly used to achieve a more comfortable interior environment, typically for humans. However, air conditioning is also used to cool or dehumidify rooms filled with heat-producing electronic devices, such as computer servers, power amplifiers, and even to display and store delicate products, such as artwork.

Non-Inverter Air Conditioner

A non-inverter AC provides fixed heating or cooling by operating at a fixed power with the compressor running at a constant speed. The compressor starts and stops as needed.

Inverter Air Conditioner

An inverter air conditioner uses technology to control the speed of the compressor motor, allowing for continuous regulation of temperature. DC inverter units have a variable-frequency drive that includes an adjustable electrical inverter to control the speed of the motor, which means adjusting the compressor and the cooling/heating output.

What is Inverter Technology in Air Conditioners?

Inverter technology (DC) is the latest evolution concerning the motors of compressors. An inverter controls the speed of the compressor motor to continuously regulate the temperature. DC inverter units have a variable-frequency drive that converts incoming AC current to DC and then modulates the electrical current to produce a desired frequency. A microcontroller samples the ambient temperature and adjusts the compressor speed accordingly. Inverter air conditioning units offer several advantages, including extended part life, quieter operation, and improved energy efficiency. However, they are typically more expensive than non-inverter units. The payback time for the cost difference can be approximately two years, depending on usage.

Solar CCTV System

A solar CCTV system is a surveillance solution powered by solar energy, designed for locations where traditional power sources are limited or unavailable. Solar-powered CCTV systems are commonly used in rural, off-grid areas, construction sites, and remote installations for security and monitoring purposes. They provide reliable, continuous monitoring without relying on conventional electrical infrastructure.

Standalone Solar CCTV System

A standalone solar CCTV system operates independently using solar panels to generate power for the camera and any associated components, such as sensors or storage devices. These systems come with integrated battery storage, ensuring continuous operation during the night or on cloudy days.

Hybrid Solar CCTV System

A hybrid solar CCTV system combines solar energy with grid electricity or other power sources, offering flexibility and increased reliability. During periods when solar energy is insufficient, the system automatically switches to the alternate power source, ensuring uninterrupted surveillance. These systems are ideal for locations with inconsistent sunlight or where continuous monitoring is critical.

What is Solar CCTV Technology?

Solar CCTV technology leverages solar panels to generate electrical power for surveillance cameras and other associated components. The solar panels convert sunlight into electricity, which is either used directly or stored in batteries for use during nighttime or low-light conditions. Modern solar CCTV systems often include motion detectors, infrared cameras, and wireless communication for remote access and real-time monitoring.

This technology offers numerous benefits, including reduced dependency on the power grid, lower operational costs, easy installation in remote or hard-to-reach areas, and eco-friendly energy consumption. While the upfront costs for solar CCTV systems may be higher than traditional systems, the absence of wiring and ongoing utility bills makes them a cost-effective solution in the long term. The payback period typically ranges from two to four years, depending on system size and location.

Solar Street Lighting System

A solar street lighting system is a renewable energy-based solution designed to provide outdoor lighting by harnessing solar power. These systems are widely used in rural areas, public streets, highways, parks, and other open spaces where grid access is limited or unavailable. Solar street lights are self-sustaining and eco-friendly, making them an ideal choice for reducing carbon footprints while ensuring continuous illumination.

Standalone Solar Street Light

A standalone solar street light operates independently of the grid, using solar panels to convert sunlight into electrical energy. This energy is stored in a battery and used to power LED lights during the night. Standalone systems are easy to install, requiring no wiring or trenching, making them ideal for remote areas and off-grid applications.

Hybrid Solar Street Light

A hybrid solar street light system combines solar energy with grid electricity or other power sources. During periods when solar energy is insufficient, the system automatically switches to grid power or battery storage, ensuring continuous lighting. Hybrid systems are commonly used in areas with inconsistent sunlight or where 24/7 lighting is essential.

What is Solar Street Lighting Technology?

Solar street lighting technology involves the use of solar panels to capture sunlight and convert it into electricity, which is stored in batteries to power street lights at night. These systems typically include energy-efficient LED lights, a controller to manage battery charge, and sensors for automatic on/off switching based on ambient light conditions.

This technology offers several advantages, including reduced energy costs, no need for extensive cabling, easy installation, and minimal maintenance. Solar street lighting systems are also environmentally friendly, as they reduce reliance on conventional energy sources and help cut greenhouse gas emissions. While the initial cost of installation may be higher than traditional street lighting systems, the long-term savings from lower energy costs and maintenance, combined with the environmental benefits, make solar street lights a sustainable and cost-effective solution. The payback period for solar street lighting systems typically ranges from three to five years, depending on location and usage.

Solar Garden Lighting System

A solar garden lighting system is a decorative and functional solution that uses solar energy to illuminate gardens, pathways, and outdoor landscapes. These systems are popular for residential homes, parks, and public spaces, offering an eco-friendly and cost-effective alternative to traditional garden lighting. Solar garden lights enhance the beauty of outdoor areas while providing safety and security without the need for electrical wiring.

Standalone Solar Garden Lights

Standalone solar garden lights operate independently, using solar panels to capture sunlight during the day and store energy in rechargeable batteries. These lights automatically turn on at dusk and off at dawn, providing illumination throughout the night. They are easy to install, require no wiring, and can be placed anywhere with adequate sunlight, making them perfect for gardens, walkways, and patios.

Hybrid Solar Garden Lights

Hybrid solar garden lights combine solar power with a backup energy source, such as batteries or grid power, ensuring consistent performance even during cloudy days or in shaded areas. Hybrid systems are ideal for areas that may not receive ample sunlight throughout the day or where continuous lighting is essential for safety or aesthetic purposes.

What is Solar Garden Lighting Technology?

Solar garden lighting technology harnesses solar energy through small photovoltaic (PV) panels, converting sunlight into electricity, which is stored in rechargeable batteries. The stored energy powers LED lights at night, providing illumination for outdoor spaces. Many solar garden lights feature sensors that automatically turn the lights on when the sun sets and off at sunrise, making them convenient and energy-efficient.This technology offers several advantages, including easy installation, no electrical costs, and minimal maintenance. Solar garden lights are eco-friendly, as they reduce energy consumption and eliminate the need for electricity from non-renewable sources. While the initial cost may be slightly higher than traditional garden lights, the long-term savings on energy bills and the environmental benefits make solar garden lighting a sustainable and cost-effective option. The payback period for solar garden lighting systems is typically short, ranging from one to three years, depending on usage and sunlight availability.

Our Successful Memories

Location : Kalmunai - 28kW

Customer: Mr. Shebley

Location : Ja Ela – 6kW

Customer: Mr. Dinesh

SolaX App overview

Location : Pannipitiya – 30kW

Customer: Mr. Jayaweera

Solis App Overview

Location : Moratuwa - 5 kv - (2 Systems)

Customer : Mr Anura Samarawikrama

Location : Samanthurei - 20 kv

Customer : Mr Nafraz

Location : Kurunegala Maaspotha - 20 kv

Customer : Mr Edirisinghe

Location : Pannala - 20 kv

Customer : Dr Susantha

Location : Kottawa - 5 kv

Customer : Mr Anura Edirisinghe

Location : Kelaniya 20kv

Customer : Miss Savithri

Thank You!

I want to extend a heartfelt thank you to all my amazing clients for allowing me to capture your special moments. Your trust and support mean so much to me!

Each photo session has been a joy, and I'm grateful to have been a part of your lives. I look forward to creating more beautiful memories together in the future!

Thank you for being a part of my journey!
Warm regards,
Sun Move Lanka International

Thank You!

SUN MOVE
LANKA INTERNATIONAL