



Corporate Profile - 2012

Power
Reliability
Sustainability

Energy and climate change has been headline news, at the top of the government agendas and a growing concern for everyone. The global PV market of newly installed PV Systems is rising from 20.4 gigawatts in 2011 to 125 gigawatts in 2020. (Sources: Solar Buzz)

PTL Solar offers world class renewable energy solutions for solar lighting, solar residential power systems, solar farming, solar transportation, solar power backup systems, aviation & marine and many other customized applications. We ensure customer satisfaction through best business practices, credible technical skills, support system and sustainable elective partnerships for prompt delivery of solutions.

While earning the reputation for providing energy efficient solutions, PTL Solar is strengthening its climate change partnerships with the largest renewable energy companies.

Certified with ISO 9001:2008 Quality Management Systems and ISO 14001:2004 Environmental Management Systems, PTL Solar strongly believes in providing, maintaining and exceeding quality product expectations which makes the application carbon neutral.

Since its inception in 2005, PTL Solar is supporting development successes while offsetting carbon emissions and helping nations and communities become champions on key issues of climate change.

In 2010 Q4, PTL Solar inaugurated its corporate office and assembly unit in International Media Production Zone, Jebel Ali, Dubai, UAE, creating direct and indirect job opportunities for thousands of people.

With our core competency – Power, Reliability and Sustainability, PTL Solar is making its every effort so that solar energy transition is not just a fantasy, but rather a real vision. A vision towards 'Powering Sustainable Growth'.



Our Values

PTL Solar: POWERING SUSTAINABLE GROWTH

We believe sustainability is a robust concept. Sustainability is not simply ensuring that development in the present does not compromise the needs of future generations of humans, but also about facilitating the long-term sustainability of ecosystems - a prerequisite for the sustainability of our children and future generations.

What We Do?

PTL Solar helps companies, individuals, government organizations, NGO's, nonprofit organizations, military and many others address their greatest challenges when it comes to power requirements. We apply a handful of core principles to every client engagement.

OUR THREE CORE PRINCIPLES FOR 'POWERING SUSTAINABLE GROWTH'

1. Provide "Green Energy" Solutions

Provide world class energy efficient / renewable energy solutions and ensure customer's peace of mind through best business practices, credible skills, support system and responsibility.

2. Bring the Best of the Partnership to Each Client

Strategic and effective partnerships are vital to the prompt delivery of customized solutions. Provide our clients the best solutions by working together, understanding their requirements and providing expert solutions. This we achieve by linking our partnership and capabilities with world's leading manufacturers.

3. Catalyst for Powering Sustainable Growth

Build a robust renewable energy market by increasing demand and supply of renewable products; Promote the idea that environmentally based renewable energy and energy efficiency programs are the key components for sustainable growth and sustainable future.



SOLAR PHOTOVOLTAIC MODULES

High Efficiency Crystalline Modules

The advanced cell processing technology and automated production facilities produce a highly efficient crystalline photovoltaic module. The conversion efficiency of the solar cells reaches up to 15%. These cells are encapsulated between a tempered glass cover and an EVA (Ethylene vinyl acetate) pottant with back sheet to provide maximum protection from the severest environmental conditions. The entire laminate is installed in an anodized aluminum frame to provide structural strength and ease of installation and equipped with plug in connectors to facilitate interconnection.

Applications

1. Grid-Connected Systems

- Residential Solar Power Systems
- Public and Industrial Solar Power Systems

2. Stand-Alone Solar Power Systems for

- Villages in remote areas
- Homes and summer cottages
- Microwave / Radio repeater stations
- Medical facilities in rural areas
- Emergency communication
- Water quality and environmental data monitoring
- Drinking water and livestock water pumping
- Small-scale irrigation pumping
- Cathodic protection
- Aviation obstruction lights
- Environmental data monitoring
- Railway signals
- Street lighting
- Small-scale desalination

Limited performance warranty

- 2 years limited warranty on material and workmanship
- 25 years limited warranty on power output.

MITSUBISHI					
35 W	46 W	100 W	130 W	175 W	185 W
190 W	225 W	250 W			
S ENERGY					
40 W	50 W	80 W	95 W	130 W	185 W
195 W	205 W	215 W	225 W	240 W	250 W
PRAMAC					
250 W					
PTL SOLAR					
5 W	10 W	20 W	25 W	35 W	45 W
50 W	80 W	100 W	125 W	130 W	175 W
180 W	190 W	200 W	210 W	220 W	250 W
WATZMANN					
5 W	10 W	20 W	25 W	35 W	40 W
50 W	80 W	90 W	100 W	125 W	130 W
175 W	185 W	195 W	200 W	205 W	210 W
215 W	225 W	195 W	230 W	275 W	280 W





Location : CEVA LOGISTICS, Jebel Ali, Dubai, UAE

SOLAR STREET LIGHTS

Our Solar Street Light systems are engineered for long term and reliable performance with little or no maintenance. The systems are designed for a wide range of physical and operating environments and are perfect for rural, suburban and metropolitan areas.

Applications

- Roadway: collector, arterial and highway lighting
- Open and covered parking lot lighting
- Pathways
- Perimeter fence lighting
- Portable emergency lighting
- Remote operations lighting
- Security lighting and surveillance cameras in construction sites and high-risk or dark areas
- Permanent and temporary - government and military applications

GRENLite™	23 W	40 W	80 W	160 W
CARMANAH	EverGEN 1710	EverGEN 1500	EverGEN 1080	
PTL LED	PTL/LED/9	PTL/LED/12	PTL/LED/24	PTL/LED/36
	PTL/LED/48	PTL/LED/60	PTL/LED/72	PTL/LED/100

GRENLite™ Solar Street Lights

- State of the art GRENLite™ - 23 W to 160 W
- Light output 2500 Lumens to 11000 Lumens
- Super rated life time - up to 100,000 hrs
- Excellent color rendering characteristics



EverGEN™ General illumination systems

Easy to install, remarkably cost-effective to operate and flawlessly reliable under even the most demanding conditions. Solar area lighting solutions are simply an intelligent choice.

- No trenching, cabling, or wiring
- No electrical contractors or technicians required for installation
- No scheduled maintenance for up to five years
- Extended lamp life, up to 60,000 hours, means reduced maintenance costs and total cost of ownership

PTL LED Solar Street Lights

- Highly efficient LED Lamp: 9 W to 100 W
- High Lumens per watt
- Specially designed for Highway / Pathway lighting / Road lighting applications



Location : Juba, South Sudan

SOLAR LED STREET LIGHTS

PTL LED Street Light represents a technological unique product, striking a new path in professional outdoor lighting. The unrivaled aesthetics, economic efficiency and eco-friendliness are setting new standards. It provides night illumination and security for places too costly to setup cabled lightings.

Reliable in operation. A programmable microcontroller operates the light flexible and demandorientated. The intelligent electronic system monitors the charging condition of the energy storage device, optimizes the energy efficiency and guarantees a trouble-free operation even during longer periods of bad weather conditions.

Product Benefits:

- Economical lighting solution
- Good return on investment
- Enhance neighborhood security
- Environmental friendly image
- Maintenance free

Applications :

Area : Outdoor

Purpose : Street and Roadway Lighting.

Models :



PTL-LED 9W / 12V



PTL-LED 12W / 12V



PTL-LED 24W / 12V



PTL-LED 36W / 12V



PTL-LED 48W / 24V



PTL-LED 60W / 24V



PTL-LED 72W / 24V



PTL-LED 100W / 24V



ENERGY EFFICIENT AC LIGHTS

Energy Efficiency: Understanding a Growing Industry

Energy efficiency has emerged as a major environmental issue that, due to regulation and higher energy prices, it is now a growing and important energy business segment in its own right. Economic growth and consumer trends, combined with technological improvements will only reinforce this emerging industry that is increasingly targeted by both utilities and energy services companies.

GRENlite AC Lights – Most economical & reliable light for your power needs

Environmental responsibility is becoming a primary concern for business planners as businesses move to reduce their impact

Applications

- High bay Light
- Flood Light
- Down Light / Ceiling Light
- Garden Light / Paths and Aisle environments
- Underground Light
- Tunnel Light

GRENlite™ HIGHBAY LIGHTS (80W - 300W)	GL0472-2	GL0402	GL0463
	GL0472-2(19")	GL0472-2(16")	GL0472-2(22")
GRENlite™ FLOOD LIGHTS (80W - 200W)	GL0636	GL0635	GL0660-3
	GL0660-2	GL0660-1.	
GRENlite™ GARDEN LIGHTS (15W - 80W)	GL0652	GL0665	

Induction Lamp Benefits

It is easy to see the benefits of 'white' light. Objects appear in their true colour. Better light quality and less glare in industrial areas provide better safety and decrease the chance for worker error, improving productivity. Better energy consumption compared to metal halide or sodium lamps are also a big reason why GRENlite lamps are the right choice for industrial applications

Features

- Zero carbon neutral land area
- Cost effective
- Low total cost of ownership
- Less energy
- Less maintenance
- Better health, safety & environment





SOLAR AVIATION & OBSTRUCTION LIGHTS

World class and highly reliable airfield and obstruction lights for both civilian and defence aviation applications.

When lives depend upon safe navigation, reliability and performance of airfield and obstruction lighting is a must. With a compact, self-contained design Carmanah solar solutions offer portability and flexibility that hardwired options simply cannot match.

Deployment and relocation happens quickly and easily with minimal disruption: a two-person crew can install a fully operational 5000 ft. (1524 metre) runway of Carmanah solar lights in less than an hour. Once installed, lights operate individually, eliminating concern over lighting loss due to cable malfunction or damage.

Available with infrared capability and wireless functionality, Carmanah solar lights can be configured to suit the exact application for which they are installed.

A502 Aviation / Obstruction Marking Light



Features:

- Up to 1.2 cd of intensity
- Dusk-to-dawn operation
- 7 flash patterns
- User programmable
- Available in red, green, amber, white, and blue colour outputs

A704-5 Aviation / Obstruction Light



Features:

- Up to 44.3 cd of intensity
- Optional wireless remote control with 4 km (2.5 mile) range
- High-intensity visible and infrared dual-mode LEDs
- Auxiliary AC/DC charging capability for indoor storage or trailer transport
- Compatible with night vision goggles
- Dusk-to-dawn or on-command operation
- Available in red, green, amber, white, blue, threshold red/green, red/white, and amber/white colour outputs

A650 Aviation / Obstruction Marking Light



Features:

- Up to 10 candela intensity (steady-on)
- Replaceable and recyclable battery pack
- Intuitive on-board user interface
- Dusk-to-Dawn operation
- Optional external switch
- Intelligent deployment location settings protect against improper configuration

Solar Powered Windsock



Features:

Featuring crisp LED illumination, the Carmanah internally-illuminated LED solar windsock utilizes proven solar technology to provide a flexible and adaptable windsock solution that can be placed anywhere it's needed.

With dusk-to-dawn operation, Carmanah solar windsocks improve the visibility of wind direction in night and low-light conditions. Carmanah windsock provides both permanent and portable options.

A702 Series Aviation / Obstruction Marking Light



Features:

- Up to 18 cd of intensity
- Dusk-to-dawn operation
- Optional flash synchronization with other Carmanah lights using GPS
- Optional infrared capabilities
- Optional onboard push-button switch with four intensity settings
- Available in red, green, amber, white, blue, threshold red/green, and amber/white colour outputs

ERGL Solar Elevated Runway Guard Light



Features:

The Carmanah solar elevated runway guard light (ERGL) provides 24-hour unidirectional flashing to aid in reducing airfield incursions at unmarked runway and taxiway intersections. The ERGL installs in minutes with no trenching, cabling, or external power, and can be relocated just as quickly.

An ideal choice for airfields that require improved safety measures, but experience difficulties with grid access, a solar ERGL makes it even easier to retrofit existing runways with this effective, preventative solution.



SOLAR MARINE LIGHTS

World class and highly reliable marine LED lighting technology.

Trusted by coast guards and port authorities around the world, Carmanah's solar marine lanterns have proven to withstand submersion, impact, and challenging sea conditions to help preserve safety at sea.

Whether you need a self contained one nautical mile buoy lantern, an omni-directional sector light, or an eighteen nautical mile range light, we deliver a complete range of AtoN solutions unmatched and unprecedented in the marine industry.

M502 Marine Lanter



Features:

- Performance up to 1-nautical mile
- User programmable
- Seven IALA-standard flash patterns
- Compact, encapsulated design
- Suitable for low-intensity navigation or hazard-marking requirements

M702-5 Marine Lantern



Features:

- Up to 46 candela IALA peak intensity and performance up to 4-nautical miles
- User programmable with 250 flash patterns
- Available in all IALA chromaticity colours – red, green, amber and white
- Replaceable battery pack extends unit life beyond five years
- Suitable for navigation and hazard-marking in medium latitudes and areas with varying solar illumination

M650 Marine Lantern



Features:

- Up to 44 candela IALA peak intensity and 4 nautical mile visibility
- Available in all IALA chromaticity colours
- Intelligent deployment location settings protect against improper configuration
- Intuitive on-board user interface, infrared remote and software programmability
- Replaceable and recyclable battery pack

M704-5 Marine Lantern



Features:

- Up to 155 candela IALA peak intensity and performance up to 5-nautical miles
- User programmable with 250+ flash patterns
- Available in all IALA chromaticity colours - red, green, yellow and white
- Suitable for navigation and hazard-marking in areas of varying solar illumination

M701-5 Marine Lantern



Features:

- Up to 46 candela IALA peak intensity and performance up to 4-nautical miles
- User programmable with 250 flash patterns
- Available in all IALA chromaticity colours - red, green, white and yellow
- Replaceable battery pack extends unit life beyond five years
- Suitable for navigation and hazard-marking in medium latitudes and areas with varying solar illumination

M708 Marine Lantern



Features:

- Minimum peak intensity of 125 candela at the highest intensity setting, and performance up to 6-nautical miles.
- Each lantern can be set for three ranges:
Low (minimum 25 candela peak intensity)
Medium (minimum 60 candela peak intensity)
High (minimum 125 candela peak intensity)
- Fully configurable with 256 flash patterns
- Optional GPS synchronization enables two or more lanterns to flash in unison
- Available in all IALA chromaticity colours - red, green, amber and white



SOLAR RESIDENTIAL POWER SYSTEMS

Solar Residential Power Systems have the potential to replace fossil fuel-based energy as the most prevalent way of powering individual homes. The free and inexhaustible power of sunlight makes it a far superior home-powering fuel, gradually becoming as affordable one!

The type of solar panel used in solar home power systems depends on the geographical area in which those systems are installed.

Choosing a Solar Home Power System Kit.

SHPS - 80	SHPS - 130	SHPS - 170	SHPS - 180
SHPS - 260	SHPS - 390	SHPS - 520	SHPS - 780

Power for your Cabin or Remote Home

A cabin or home is a place to unwind where the worries of your life are a world away. If your home is remote from grid power, a renewable energy system will add to this freedom, allowing you the comforts of home without the noise and hassle of a generator. Before purchasing a solar power system for your home, it is important to evaluate your electrical loads and assess how much power you will need. For power management process and to calculate your load, be sure to contact us.

Power for your Farm or Ranch

PTL SOLAR solutions offer a full range of power systems for your farm or ranch. Rugged living, often in remote locations, provides the perfect application for solar or wind power. You can depend the reliability and maintenance-free benefits of renewable energy systems designed by us.



SOLAR GARDEN & LANDSCAPE LIGHTS

PTL Engineering team has created well designed LED lights using high quality LEDs for your entire garden and landscape lighting needs. It is more environment friendly since it does not contain mercury, last much longer and is virtually maintenance free. These are cost - effective way to provide lighting for landscape facilities, walkways and entrance. All models are fully resistant to irrigation water and rain, even when flooding occurs. LEDs are bright white lights which have the advantage of minimal lumen depreciation, better visual acuity, and high lumen per watt.

Models



PTL ZENLITE



PTL ACTIVA



PTL O335BZ



PTL LEDMGPL



PTL LED6TPL



PTL LED6WL / 9WL



PTL G01



PTL BL09



PTL LED PL



PTL LWSC2X



SOLAR IRRIGATION SYSTEMS

LORENTZ high efficient solar water pumps are the most economical and reliable solution for all off-grid water supply demands. These solar water pumps can pump more water from as deep as 200 meters with less solar panels using a solar tracker than any other pump in the market.

It is a maintenance free system with high reliability and life expectancy which requires simple installation. It is the most cost-efficient pumping system with high resistance to sand and corrosion.

Characteristics

- Lift up to 240 m
- Flow rate up to 11.0 m/h
- Simple installation
- Maintenance-free
- High reliability and life expectancy
- Cost-efficient pumping
- High resistance to sand and corrosion
- Fits 4" and larger well casings
- Helical rotor or centrifugal pump, brushless motor

Applications

- Drinking water supply
- Livestock watering
- Deep well pumping
- Irrigation
- Pond management etc.



PS150 C



PS200 HR



PS600 HR/C



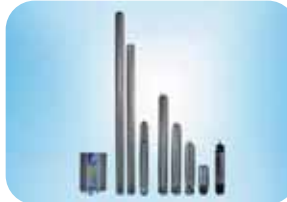
PS1200 HR/C



PS1800 HR/C



PS4000 HR/C



PS 9000 HR/C



SOLAR INVERTERS

Inverters convert DC battery power to standard AC power. They allow you to run regular AC appliances, includes TVs, computers, microwaves and power tools. With an inverter your AC loads run off your batteries and they can be used any time of day and night without a generator, and definitely during a utility power failure.

Selecting the right inverter

When selecting an inverter, choose a size that can power the appliances you plan to use. Typical sizes installed in RV and homes are 1000 to 2500 watts. Larger inverters from 4 KW to 11 KW are used in large power systems such as lodges and industrial applications.

Models

STUDER	COMPLETE RANGE OF AJ SERIES, XPC SERIES, HPC SERIES AND XTM SERIES WITH ACCESSORIES
TRIPPLITE	700 W, 750 W, 1250 W, 2012 W, 2424 W, 3024 W, 3636 W, 6048 W
SCHNEIDER	COMPLETE RANGE OF SINE WAVE, PURE SINE WAVE, HYBRID
PTL SOLAR	600 W SINE WAVE INVERTER



SOLAR BATTERIES

Solar batteries are an ideal building block for commercial / residential backup power system. They are maintenance free, lead acid (VRLA) and GEL batteries using the latest recombinant technology, virtually eliminating batteries gassing in normal operations.

Our Solar Batteries meet recognised UL Safety Standards and meets the requirements of the International Air Transport Association "Non - Dangerous Goods" classification (41st edition, section 4.4, special provision A67, IATA2794 Class 8). These non spillable batteries are suitable for indoor use and are ideal for standby backup power systems, uninterruptable power supplies (UPS), emergency lighting, alarm systems and solar / alternative energy systems.

TROJAN	FLOODED	95 Ah, 117Ah, 144 Ah, 166 Ah, 250 Ah, 360 Ah, 400 Ah, 410 Ah, 545 Ah, 820 Ah, 1090 Ah, 1910 Ah
	GEL	85 Ah, 100 Ah, 108 Ah, 137 Ah, 198 Ah, 220 Ah, 265 Ah
	AGM	34 Ah, 52 Ah, 84 Ah, 99 Ah, 111 Ah, 221 Ah, 254 Ah
GLOBAL YUASA (ROCKET)		65 Ah, 100 Ah, 120 Ah, 150 Ah, 200 Ah
C & D		100 Ah





SOLAR REGULATORS

A solar regulator is a power system component that regulates battery charging by preventing the battery from getting over charged or deep discharged. Well designed solar regulators are key to extending battery life.

- Direct, boost and float auto-charging mode
- High precision control
- LCD / LED indication of system working status
- Over load and short circuit protection
- Real time clock and display
- Digital LCD display of parameters
- Optimized control for intelligent adjustment of control parameters

They vary in type and operation from simple regulators to sophisticated regulators that utilize pulse width modulation (PWM) or maximum power point tracking (MPPT) to assure the battery is being kept fully charged.

PTL	PWM - LCD	20 A, 30 A, 40 A
	PWM - LED	10 A, 20 A, 30 A
	MPPT	15 A
SCHNEIDER	PWM - LED	12 A, 40 A, 60 A
	MPPT	60 A
MIDNITE SOLAR	MPPT	60 A



DC FREEZERS

Features

- 136 Liters gross capacity
- Designed for worldwide use: ready for connection to 12/24 and 110 - 240 volts, automatic switchover with priority circuit for mains operation.
- Minimal power consumption, superbly quiet running
- Digital thermostat with continuous temperature regulation for normal refrigeration
- Sturdy carrying handles, two integrated castor rollers for safe and simple transport
- Impeccable operation in inclined position



SOLAR AIR CONDITIONERS

Air Conditioners can be designed to cool telecom shelters and other enclosures in remote areas where normal AC power 115/230 volt is not available or fails regularly. To work as a back-up system when the grid has a power failure, it is nowadays used in different settings, as fuel saver on generator driven cell sites, with solar and wind energy, or as energy saver and back-up system sites with a normal 230 / 115 Volt AC grid connection.

- Maximum power in minimum time
- Back- up power when you need it most
- Portable Power & Multiple uses
- Replaces gas generators
- Plug and play means instant power
- Life-Saving Power when you need it most
- Emergency Backup Power for Communication



Location : Riyadh, KSA



Location : CEVA LOGISTICS,
Jebel Ali, Dubai, UAE

SOLAR BILLBOARD LIGHTING

Solar Billboard lighting systems strength lies in its unique laminar design, which produces the highest available brightness levels while still being energy efficient. This translates into an affordable and commercially powerful systems. Solar powered billboard lighting system consists of a solar photovoltaic source and specially designed energy efficient lights based on the size of area to be lit. The system installs easily and requires no maintenance or servicing for up to five years.

Features

- Covers an area of 6 m x 3 m and multiples
- Avail in cool white and warm white
- Will charge under nearly all weather conditions
- Up to 4 days autonomy
- Easy to install
- Manufactured to ISO 9001:2000 Quality Assurance standards

Applications

- Hoardings
- Bridge and highway signages
- Building signage



SOLAR INSTANT POWER SYSTEM

IPS is a complete stand alone power supply where grid power cannot be reached. Whether you are camping, doing outdoor activities, doing construction work, or living in remote areas, IPS can provide instant power supply to your electronic devices or appliances. It can also provide emergency power supply when the grid power temporary fails.

For off-grid sites, IPS12 and 24-Volt DC systems are the ideal power solution for any number of applications, including:

- Rural habitation
- Rail, road signalling
- Irrigation control
- Flow monitoring
- Tower beacons
- UHF/VHF radio links
- Security systems
- Lighting



SOLAR TELECOM SYSTEMS

PTL Solar has a wide experience of stand-alone solar power telecom systems with clients in Asia and Africa. Solar Telecom Systems has been designed to serve the needs of economical & reliable power for BTS, Microwave & Repeater sites which customers can avail at most affordable prices.

Applications

- Telecommunication companies
- Telecommunication towers

Advantages of the Solar Power System over conventional Power Sources

- Life of the system: more than 25 years
- Running cost almost zero
- Maintenance almost zero
- Noise level compared to generator zero
- Carbon credits applicable for whole system



SOLAR CARPARK AND CANOPY LIGHTING

We are pleased to introduce the High-Lux solar powered car parking lights to our collection. It is suitable for illuminating areas where it would be too difficult or too expensive to install an electric supply or where an environment friendly 'green' lighting source is required. The installation is relatively simple and should take no longer than approximately 1 - 2 hours. This innovative new solar car park lights uses the HLE (High Light Efficacy) technology to ensure optimum reliability and performance. Illumination time is from dusk to dawn and is fully automated via a photocell (light sensor).

The auxiliary lamp can be set up to work according to local sunlight hours for advanced charging, discharging and lighting control circuit with reliable performance. No requirement to lay cables or wires nor AC electric energy and charge. It uses DC power supply with photosensitive control. It is safe, reliable, energy saving, economical and carbon neutral application.



SOLAR TRACKERS

Tracking greatly improves the performance of PV system. Trackers let the PV panels follow the course of the sun, so that the panel surface is always in an optimum angle to the sun rays. This guarantees highest efficiency.

In standard photovoltaic applications, it is estimated that trackers are used in at least 85% of commercial installations greater than 1 MW from 2009 to 2012.

Solar tracking increases the energy return of solar modules, dependent on location, by 25% (e.g. Germany) up to 40% (e.g. central US, Korea, Spain) per year in average, respectively up to 55% during the summer months.



SOLAR POWER BACKUP SYSTEMS

Many people have installed gas or diesel generators to power their houses where electricity is not found. These units can run reliably for days or even weeks at a time, but they also require refueling. Additionally, generators require maintenance, the engine oil needs to be changed, and they need to be exercised periodically.

Solar panels need almost no maintenance, perhaps in a prolonged dry spell; the dust could be washed off once in a while. Solar powered backup systems requires no fuel and if properly sized can run your critical household electric load indefinitely. These systems can be individually sized according to the load calculations. Additionally, they can be configured as a normal solar powered system that is backed up by the electrical grid.

The electrical grid can be used as a standby in case the batteries get too low. A reserve charge can be built in to the battery bank to run the critical loads in absence of both sun and grid power.



SOLAR OIL & GAS APPLICATIONS

PTL Solar Oil & Gas Solar Power Systems are best suited to operate automation equipment used by the Oil and Gas industry. Applications include high-efficiency gas-flow control computers, remote telemetry units (RTU's), mineral exploration camps, cathodic protection for pipelines and SCADA monitoring stations. The equipments' low power requirements, reliability, durability, low maintenance and typically remote locations often make a PV system the most cost - effective power source.

AWARDS & RECOGNITIONS



Middle East Business Leaders Award 2011
Masterclass Visionary CEO of the Year



Middle East Business Leaders Award 2010
Environment Sector



Middle East Business Leaders Award 2010
Power and Energy Sector



The Alternative Energy Awards 2008
Environmental Contribution of the Year



Appreciation Certificate
Ministry of Environment and Water, UAE

TESTIMONIALS



DUBAI OUTSOURCE ZONE

"As a responsible master developer, we are proud to adopt a sustainable solution that will not only provide the most suitable environment for our business partners, but also contribute to generating considerable benefits to future generations. The solar power solution for the car park is only the first step in a series of green friendly measures envisaged for the outsourcing park"

Mr. Ismail Al Naqi, Executive Director, Dubai Outsource Zone. Dated: 2009



ENPARK

"TECOM Investments' sustainable development policy aims to create a market for clean technology projects that will reduce our carbon footprint. Today, with the help of our business partners we are executing projects that will take us forward in our sustainability drive. We are privileged to implement the project with PTL SOLAR, leader in green technology and our business partner at ENPARK"

Mr. Ali Bin Towaih, Executive Director, SEED and ENPARK. Dated: 2010



NAKHEEL – DUBAI WATERFRONT

"Nakheel seeks to demonstrate leadership in the area of sustainability. PTL SOLAR solar car parking lights is a great example of the sustainable technologies that provide high efficiency"

Mr. Marwan Al Qamzi, Managing Director, Palm Jebel Ali & Waterfront. Dated: 2009



SCANIA CV AB

"Especially with the green approach of Dubai, it was easy to find suppliers here... We are eliminating concretes, wiring, distribution, boards, everything and just have a standing pole, a battery with a solar panel and lighting that has been used here in Dubai in other places like Dubai media city, emirates tower by PTL SOLAR which are tried and tested. This was one of our main concerns because there are a lot of products available but not tested to this environment, to this humidity, to the heat here in summer. So we really went to those that had some historic that its proven for this part of the world"

Mr. Fabio Castello, General Manager, SCANIA CV AB, JAFZA. Dated: 2009



KANDAHAR PROVINCIAL RECONSTRUCTION

"We have installed GRENLite systems at Kandahar and besides vehicles hitting the poles and knocking them over they are working very well."

Capt. Ryan Gregg, Officer Commanding, Kandahar Provincial Reconstruction Team. Dated: 2009

PROGRAMS

REpublic of Solar (REoS)



Everyday actions - like heating your home or driving your car - consume energy and produce greenhouse gas emissions, which contribute to climate change. Cities today are responsible for over 70% of global CO2 emissions. But, only if sustainability is economically feasible it will be able to implement the technologies and systems.

REpublic of Solar™ is a program where a city will integrate full range of renewable energy and sustainability technologies that delivers the highest quality living and working environment with the lowest possible ecological footprint.

Environmental standards and low carbon energy sources shall be used to make sure that the city has the minimum impact on the environment. There will be lots of green space where children can play and residents can take a walk and enjoy the open air.

Tackling climate change is one of the biggest challenges this generation faces, and the first step is to understand exactly what it is. Sustainability, energy conservation and a new concern about humanity and nature are the values of today.

PTL Solar aims to make Republic of Solar™ across the world to help tackle global warming.

We foresee a nation in which buildings will conserve and produce its own energy supply, a new generation cost-effective 'REpublic of Solar™'.

For more details on this special program, mail us at abc@ptlsolar.com

Corporate Environment Responsibility (CER)



Environmental protection is a concern, for a good reason: Global greenhouse gas emissions have increased tremendously and continue to grow, with an average warming of 0.2°C by decade for the next thirty years. This is why more and more individuals and organizations need to realize their responsibility.

The challenge for the energy industry is therefore to implement, in the course of its expansion, genuine environmental program that can produce precise ecological improvements.

PTL Solar's environmental vision is therefore to demonstrate the corporate environmental responsibility in business operation which equally can be a positive force creating economic opportunities around the world.

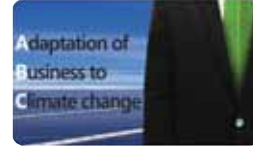
With a rising number of business set-up comes corporate responsibility for mitigating business impact on the natural environment. At PTL Solar, we seek to understand and act on direct and indirect environmental impacts of our business operations.

This commitment to the environment is more than just a program. Therefore we at PTL Solar realize environmental quality is part of the corporate culture and has set this as our goal since we started in 2005.

Through sales of Renewable Energy Products PTL Solar has saved more than 6500 Metric tonnes of CO2 Emissions, 44,100 Kgs of SO2 and 14,931 Kgs of NO2 Emissions in 2010. This equates to 484, 218 gallons of Gasoline.

The existence of a win-win situation has been widely speculated by the adoption of CER in every business. This is a welcome development that gives assurance of being a part of a global movement, responsibly preserving the planet and local community.

Adaptation of Business to Climate Change



Climate change is one of the major challenges of our time and adds considerable stress to both individuals and communities as a whole. From shifting weather patterns that threaten food production, to rising sea levels that increase the risk of catastrophic flooding, the impacts of climate change are global in scope and unprecedented in scale. Without drastic action today, adapting to these impacts in the future will be more difficult, costly and almost impossible.

The most dangerous climate changes may still be avoided if we transform from hydrocarbon based energy systems and initiate rational and adequately financed adaptation program to forestall disasters and migrations at unprecedented scales. The tools are available, but they must be applied immediately and aggressively.

This response presents significant opportunities and assurance of perpetual existence for businesses. Thus Business Managers need to understand that sustainability is the collection of policies and strategies employed by companies to minimize their environmental impact on future generations. Ecological concerns, such as the environmental impact of pollutants are balanced with socio-economic concerns such as minimizing the consumption of limited natural resources to maintain their availability for the future.

Through our ABC program, PTL SOLAR works with businesses to strengthen their ability to adapt to climate change, move towards low-carbon societies, improve understanding of climate change and raise public awareness.

Solar for Schools Program (S4S)



Climate change is a global environmental issue. In order to avoid the impacts of climate change we need to move from the current unsustainable energy modes to a future with clean and renewable sources of energy.

Since technological improvements are ignoring their impacts on the environment, educating younger generation about renewable energy, energy conservation and efficiency has become of utmost importance.

Solar for Schools (S4S) program provides more than clean renewable energy; it informs and empowers children teachers and parents with solar knowledge to reduce their environmental footprint and to live more sustainably.

Solar power is proving to be an excellent source of light and power to schools in countries and rural areas that are lacking or have unreliable power sources. Students are performing up to 50% better and local communities and businesses are also benefitting by increased employment, security, better health and access to the international community.

Solar power is an important part of our energy future and one of the cleanest forms of energy. It emits zero greenhouse gases or other pollutants, uses no water and produces no waste.

We at PTL Solar are striving to utilize the abundant sunshine thereby preserving nature and making best use of the naturally available resources.

PTL Solar Academy



PTL Solar portfolio consists of energy-saving and energy-creating products, but we also strive to be an environmental steward. Along with technology, PTL Solar view education as a core component of its environmental stewardship. The embodiment of this is Solar Academy - a training school designed for effective application of technologies, strategies & processes to achieve sustainable economic growth by creating awareness of sustainable and energy efficient systems & applications to targeted audience.

The PTL Solar Academy from PTL Solar in partnership with N. America's largest training institute scheduled to be launched in Jan 2012 is a gateway to Renewable Energy education focusing on empowering the society at large to make eco-conscious decisions.

The purpose of the Academy is to provide technical, social and economic advice on various renewable energy projects to industries, institutions, govt. bodies, non-govt. organizations, private companies and the public so that they are empowered to make a difference and create a healthier planet.

PTL Solar has a strong history of energy efficient solar installations and sustainable operations across key solar markets since its inception in 2005. In addition to a well based corporate office and technical work station in Dubai with total space of 12,000 sq ft. producing wide range of energy-saving solar solutions and applications PTL Solar is equipped with in house LEEDS accredited personnel and skilled technical team that facilitate practical learning during the training.

PTL Solar is a credible & reliable solar system integrator / solar energy solutions provider company and that is where we can provide the most expertise for the 'students' of Solar Academy. In collaboration with the world's best International RE companies and premium clientele base our Solar Academy lesson plans cover climate change, renewable energy, the science of solar, and energy conservation. We are experts in solar, but we believe many forms of renewable energy will make up the world's energy portfolio.

PROJECTS



Solar Pathway Lighting
CEVA LOGISTICS, Dubai, UAE



Solar Street Lighting
Juba, South Sudan, East Africa



Solar Street Lighting
Yobe State, Nigeria



Solar Carpark Lighting
DEWA, Dubai, UAE



Solar Road Lighting
DOPA, Al Ain, UAE



Solar Road Lighting
PETROFAC, Abu Dhabi, UAE



Solar Road Lighting
UNILEVER, Dubai, UAE



Solar Street Lighting
US ARMY, Iraq



Solar Yard Lighting
SCANIA CV, Dubai, UAE



Solar Pathway Lighting
AL KAMDA, Dubai, UAE



Solar Carpark Lighting
DOZ, Dubai, UAE



Solar Street Lighting
UNDP, Lebanon



Solar Road Lighting
CANADIAN DEFENCE, Afghanistan



Solar Park Lighting
AMERICAN UNIVERSITY, Sharjah, UAE



Solar Carpark Lighting
NAKHEEL, Dubai, UAE



Solar Building Power Systems
ARCAN, Dubai, UAE



Solar Tracker System
ACADEMIC CITY, Dubai, UAE



Solar Home Power System
Ajman, UAE



Solar Garden Lighting
Sharjah, UAE



Solar Billboard Lighting
Riyadh, KSA



Solar Powered CCTV Camera
DUBAL, Dubai, UAE



Solar Road Lighting
Sudan, East Africa



Solar Yard Lighting
AL ROSTAMANI, Dubai, UAE



Solar Irrigation Systems
Mali, Africa



Solar Powered WindSock
YAS MARINA, Abu Dhabi, UAE



Solar Security Systems
SIEMENS, Dubai, UAE



Solar Oil & Gas Systems
RAK PETROLEUM, RAK, UAE



Solar Power System
Nigeria, Africa



Solar Power System
Abu Dhabi, UAE



Warehouse Lighting
Dubai, UAE

OUR CLIENTELE



OUR CLIMATE CHANGE PARTNERS



S-ENERGY



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