e-luxenergy

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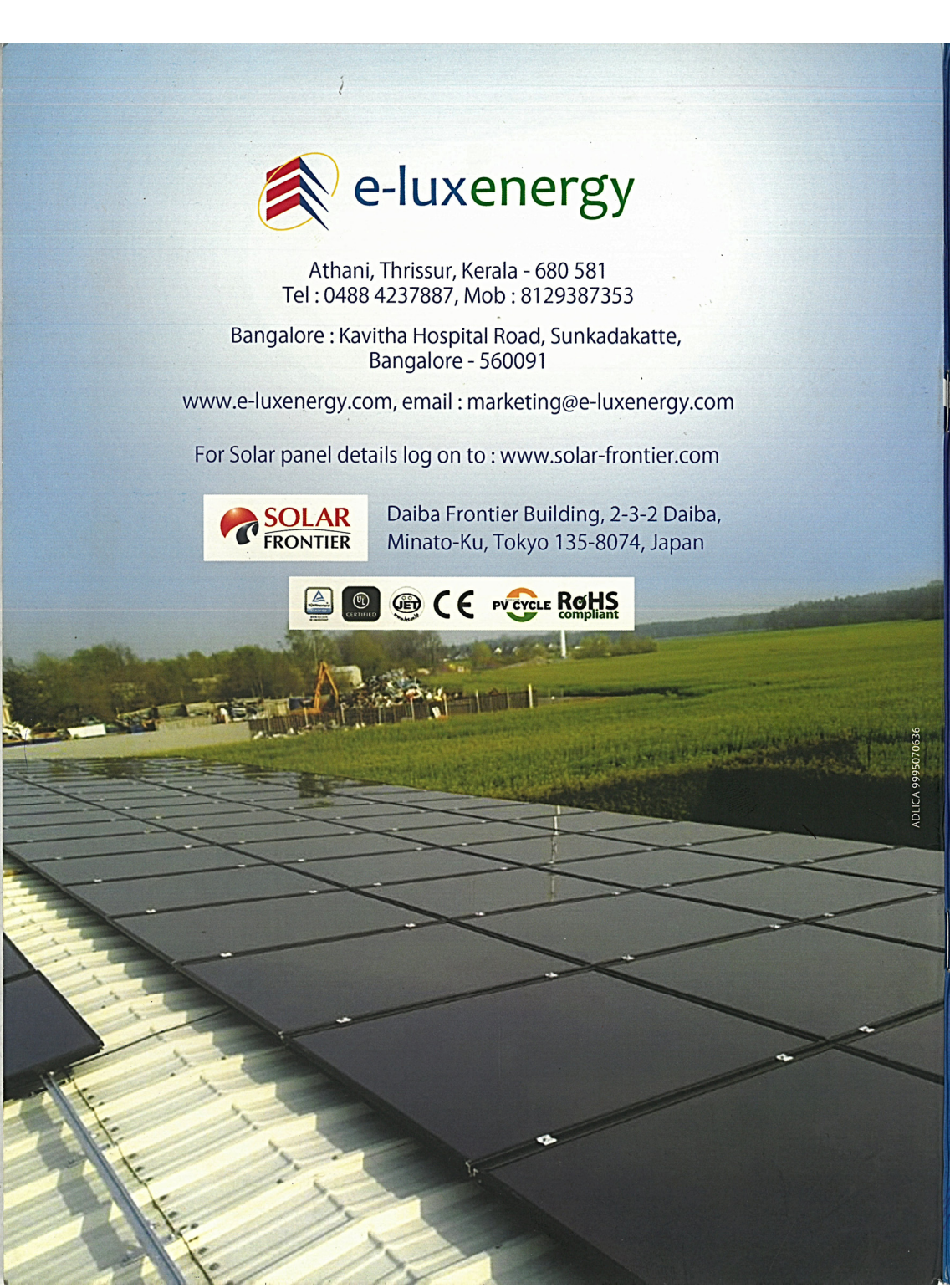
SOLAR FRONTIER

Daiba Frontier Building, 2-3-2 Daiba,
Minato-Ku, Tokyo 135-8074, Japan



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POWER
to the People.

www.e-luxenergy.com

The amount of solar energy that strikes the earth in one hour is more than enough to provide all of the earth's energy needs for a complete year.

e-lux solar for Generations with Affordable Solar Power

Every hour, the sun emits energy On to earth to satisfy more than global energy needs for an entire year. Solar energy is the technology used to harness the Sun's energy and make it useable. Today, the whole world is facing the threat of exhaustion of conventional sources of energy. Sun, being the biggest power plant in our galaxy, is always available to provide clean and reliable energy to the world. Here is an interesting fact – "The energy output of 1 Kilo Watt solar energy is roughly equivalent to the burning of 170 pounds of coal and releasing of 300 pounds of carbon dioxide into the atmosphere". Thus, solar energy is a non-polluting, viable and renewable source of energy that keeps our environment free from carbon dioxide, the most active agent of global warming which causes unfavourable climatic changes. Solar power, along with other renewable sources of energy, will shape the future of the earth.

Powering Utilities

Unique advantages of using e-lux Solar

- Solar-based solution for agricultural sector
- Sustainable energy support for Domestic and Commercial establishments.

Empowering Rural India

- Solutions for energy security
- Cleaner alternative to diesel
- Sustainable rooftop solutions
- Predictable pricing over long tenure
- Achievement of green ratings (LEEDs) for companies
- Green and Energy Efficient Buildings

Harnessing the Energy of the sun

Global Credentials Technology

Our vision, global approach and research, helps us in delivering world-class solutions with high degree of innovation and quality. We rely on cutting-edge technology to provide our customers with the highest degree of quality standards. At e-lux Energy systems, we believe that much more than just good products are needed to maximise your energy efficiency. we have been partners with some of the largest high tech companies in the world like **Solar Frontier, Japan** for the supply of thin film solar panels

SOLAR FRONTIER

With Innovation, Experience and Vision

e- lux solar has outperformed the market and brought down the cost of energy by 54.15 per cent in the last two years. Reliable : A blend of technology and highly experienced Operations and Maintenance team ensures flawless operation of the installed systems.

Core Values

MISSION

To be the lowest cost power with the best quality

VISION

Affordable solar power for generations

Solar power is a cost-effective way to tackle the problem of climate change and energy crisis.

Solar power is most suitable for distributed generation because the plant can be installed in small increments to match the load requirement of the customer.

POTENTIAL

Bridge Energy Deficit Solar energy has the capacity to bridge the energy deficit, which India is facing due to increasing demand.

Expanding India's Solar Perspective

BENEFITS

Solar power is the most favourable alternative to diesel and kerosene sources whose consumption in India is amongst the highest in the world.

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Why e-lux solar?

There are many benefits that come with the installation of a solar power system.

- An e-luxl solar system will reduce the electricity overhead cost of the facility, which is a significant overhead expense for most facilities.
- Assured availability of uninterrupted power supply with lower overhead costs.
- e-lux are leaders in solar technology. We can design a system to meet your usage profile and your budget.
- Very low maintenance.
- Creates a highly visible statement as to your sustainability commitment

How does Solar work?

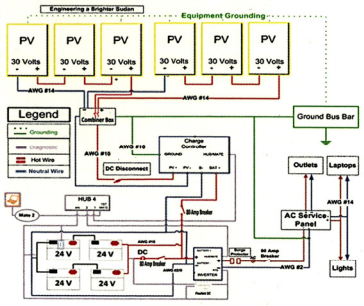
A typical solar power system consists of the following components :

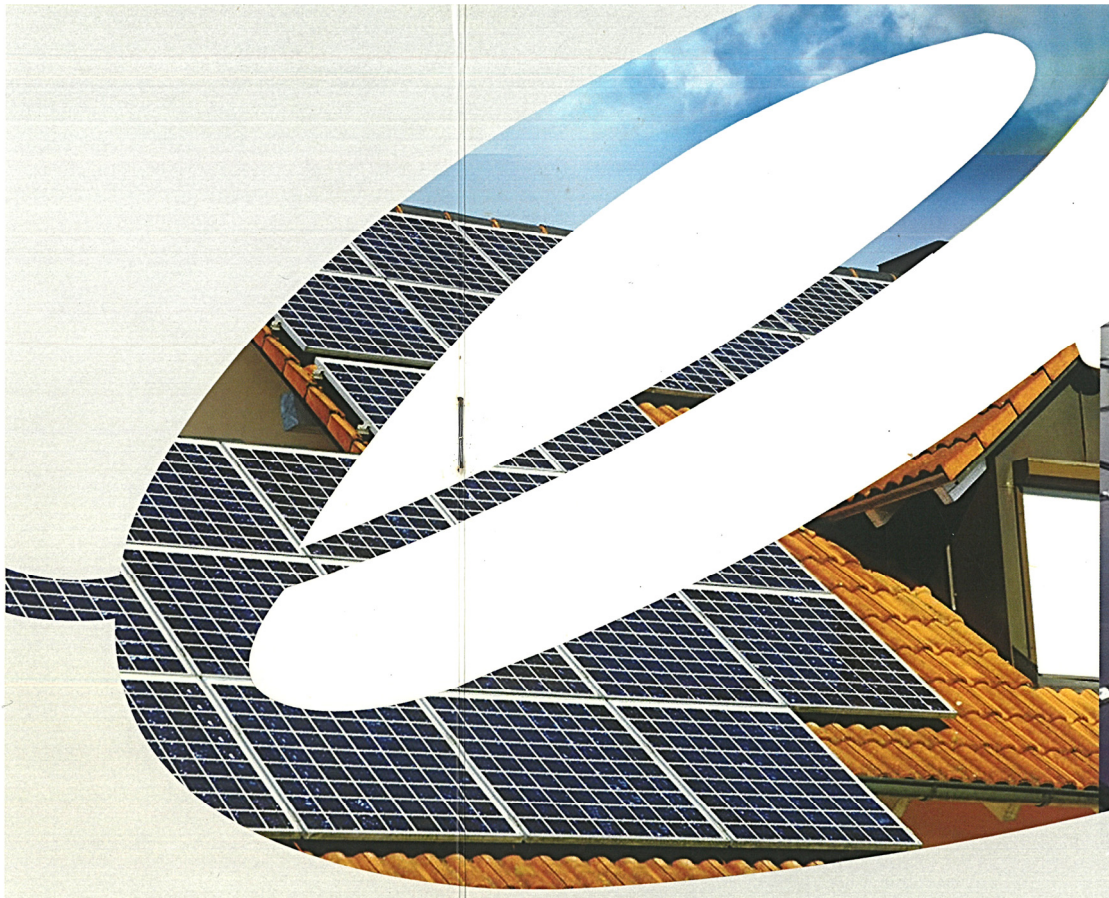
Photovoltaic modules

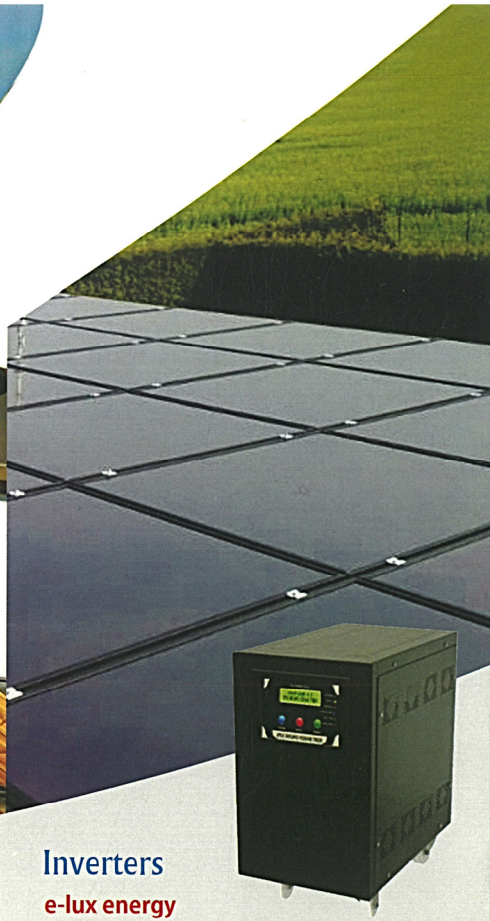
Also known as solar panels; directly convert energy in the form of sunlight into direct current (DC) electrical energy.

Inverter

An inverter changes the solar DC power into 220V alternating current (AC), enabling it to be used at your facility, and exported to the grid.







Our Process

- Site visit.
- Electricity usage analysis.
- System output calculations.
- Quotation.

System sizing

A custom designed system will ensure the best financial return for you. When sizing a solar power system electricity unit pricing need to be considered.

System Components

SOLAR PANELS

Our panels are supplied by **Solar frontier, Japan** Tier1 panel manufacturer which has been manufacturing solar panels for over 40 years. The other components, including inverters, mounting equipment and cable are sourced from manufacturers that have obtained all relevant accreditation, including IEC, CEC, with a minimum of 3 years warranties,

Inverters

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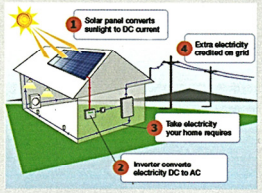
- **Leading-edge Technology**
- DC input voltage up to 1000v.
- Dual MPPT inputs accommodating wide voltage range.
- Maximum Efficiency 90%.
- Integrated DC switch.



Built to Last.

Automatic protection including over voltage, islanding, short circuit, overload and under voltage, under load, etc.
2 years standard warranty

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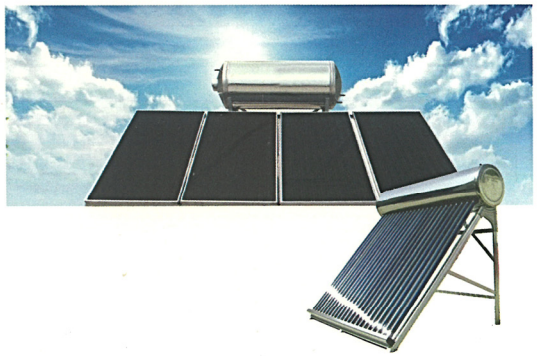
SOLAR WATER HEATER

Salient feature of evacuated tube collector solar water heater :

- Greater absorption area per day, up to 94% auto sun tracking collection.
- Minimum heat loss from the system due to evacuated tubes & puf insulated storage tank.
- Better performance in winter & cloudy days.
- Hard water/ scaling does not corrode the etc tubes.
- Maintenance free, easy to clean.
- Compact size-low height, easy to install & transportation.
- Inner/outer tank is made of ss 304 grade stainless steel for longer life.
- Thermostat electrical backup for non-sunny days.
- Outer cladding of storage tank is mirror finished stainless steel.
- Evacuated tube collector solar water heater.



SOLAR WATER PUMPING SYSTEM

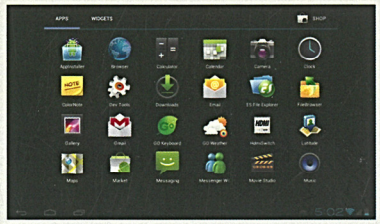
The e-lux Solar Water Pumping system is the perfect compact solution for pumping water from the borewell, openwell, lake, river or stream to the ground level. The pumped water can be used right away or stored in remote locations. The solar PV modules in this system generate DC electricity which is fed into a pump through a controller. This solar water pumping system offers very high reliability, minimum maintenance and a long service life.

Building Management System

BMS controllers has capability to control and monitor all mechanical and electrical systems, including cooling/heating system, pumps, tanks, lifts, lighting controls .The mechanical and elec-trical systems shall be monitored and controlled by Android Device which connected to the Wi-Fi , get alerts by means of email, text message (SMS), voice call and more

Features :

- Higher End Controller and Technology
- S-Bus Communication
- Wi-Fi Accessibility



- Controlled by Android devices and IR Controller
- All alarms trigger corrective action
- Energy optimization and trending
- Set point adjustment
- Controlled by Remote SMS
- Timing Control
- Infrared Sensing Control
- Easy cabling, Convenient maintenance
- Good energy saving effect
- Centralized Control