

Grid Connected and Off Grid
Industrial and Domestic Solar
Installations with both DC and
AC power supply options
possible.

The inverters we offer are both
auto-synchronous and possess
the protections required for
grid inter-connections.

Solar inverters ranging from
700 W to 1 MW.

Nikini Solar

We give you the best in products and
the best in system design for solar
photovoltaics in terms of reliability

Battery



Gel Type Deep Cycle battery from Hoppecke,
Germany.

A high quality battery system from Germany
to suit solar installation.



The Power of the Sun
to make Electricity



The world is fast moving into grid connected solar technology due to the better economics involved, minimized maintenance for the system, removal of large and cumbersome battery banks and thereby higher efficiencies yielded in the system.

WHY **NIKINI** SOLAR?

The twin problems of Global warming and Energy Crisis! That is why **Nikini Automation Systems (Pvt) Ltd**, an innovative technology provider in Sri Lanka is now offering state of the art solar photovoltaic solutions to match your solar inspirations! So that you can save the world in your own special way.

With two major grid connected solar installations to our claim we reach to fulfill your solar requirements.

We combine the best solar brands in the world to provide you with the finest quality solar power installations. We have started the ride with a showcase 25 KW solar photovoltaic installation at Nikini premises. We have carried out two of the very first grid connected solar power installations in the country making us the pioneers in grid connected solar technology. We are eagerly looking forward to provide you with the same technology.

Solar modules from Sharp, made in Japan
Solar Inverters from SMA solar technology, made in Germany

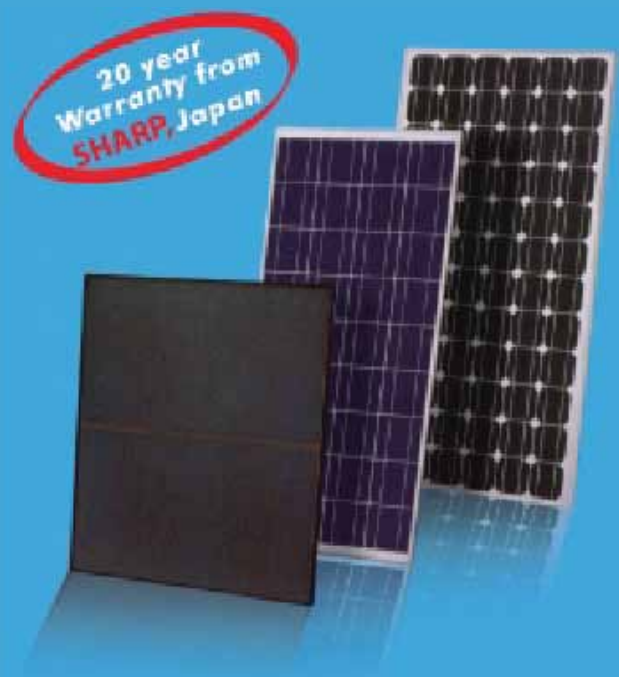
BENEFITS OF **NIKINI** SOLAR

- Solar power solutions sized and matched to your requirements
- Higher solar electric yields and efficiencies.
- We provide turnkey solutions with the metal including structures, DC cables from Germany
- German Gel type batteries
- We can connect to your normal wiring to supply you with AS power. No additional circuits needed.
- Provision of expert advice for your system and system design.



No more the need for large and inefficient battery banks that take up so much of your valuable space.

We can analyze your requirements and design a suitably sized solar power installation to match your exact needs.



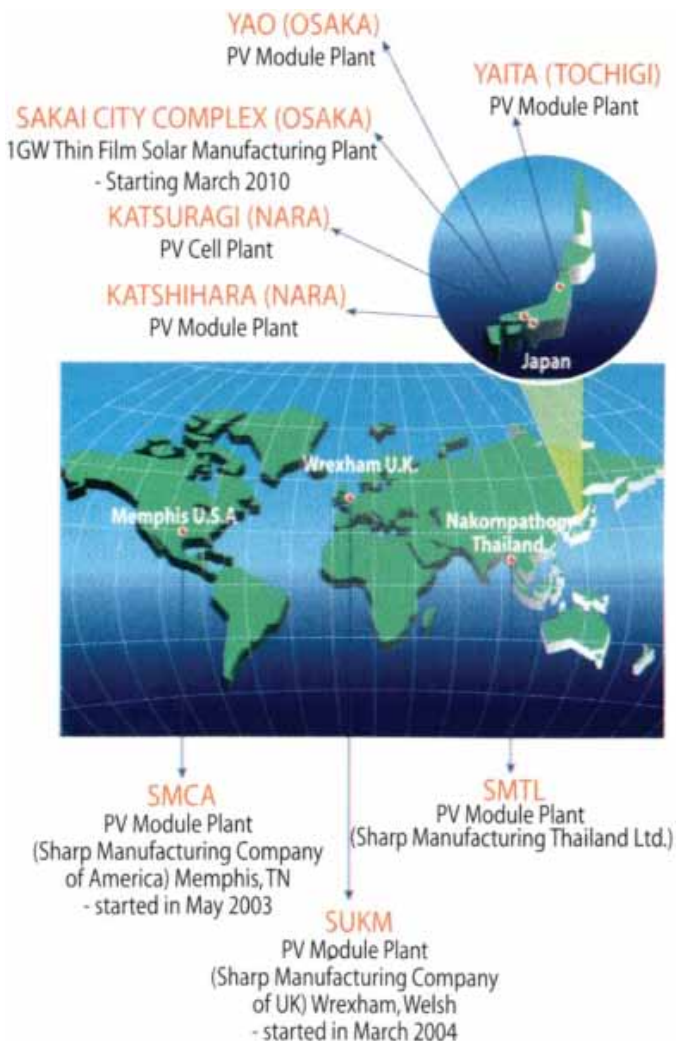
SHARP solar modules and SMA Solar Technology Solar Inverters

The best selling and the most reliable solar modules in the world from SHARP Japan.

SHARP solar modules can be integrated to produce installations from several hundred watts to several Mega Watts in size without any problem. Some installations are listed here. SHARP solar modules have been used in satellites in outer space, for lighthouses, industrial applications and residential use.

Seven Global Production Bases to Power your energy requirement worldwide

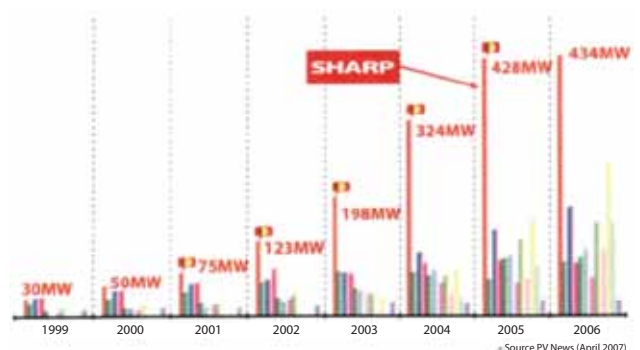
SHARP has 4 production bases in Japan 1 each in Thailand, USA and UK. SMCA SUKM and SMTL is the manufacturing plant of PV module. With these numerous production bases, SHARP is able to meet your specific requirements and deliver to world standard quality.



SHARP World Leading Manufacturer of Solar Cells for 7 Consecutive Years Since 2000

In 2004, Sharp was responsible for 27.1% of the world's total production of solar cell/module

*Source PV News (April 2007)



There's a reason why **SHARP** has been the world's leading manufacturer of solar Cells for 7 Consecutive Years*

Everyone on the planet today faces the twin problems of global warming and depletion of energy resources. To solve such problems and achieve a sustainable society, SHARP has for many years been tackling the development and manufacture of energy-creating photovoltaic (PV) power generation system. As a pioneer in this field in Japan, we are working to bring solar power generation into greater use all over the world.

*Source; PV News (April 2007)

Contributing to the Spread of solar Power as a Leader in Technology Development

Since starting R&D into Solar Cells in 1959, **SHARP** has developed solar technology a wide range of fields and we will continue to make Solar power a part of our future as an environmentally advanced company.

Reliable Technology Proven on Outer Space

As the only Japanese manufacturer certified by the Japan Aerospace Exploration Agency (JAXA) Sharp has proven its reliability by supplying Solar Cells for 146 satellites launched since 1976.

(As of September 2003)

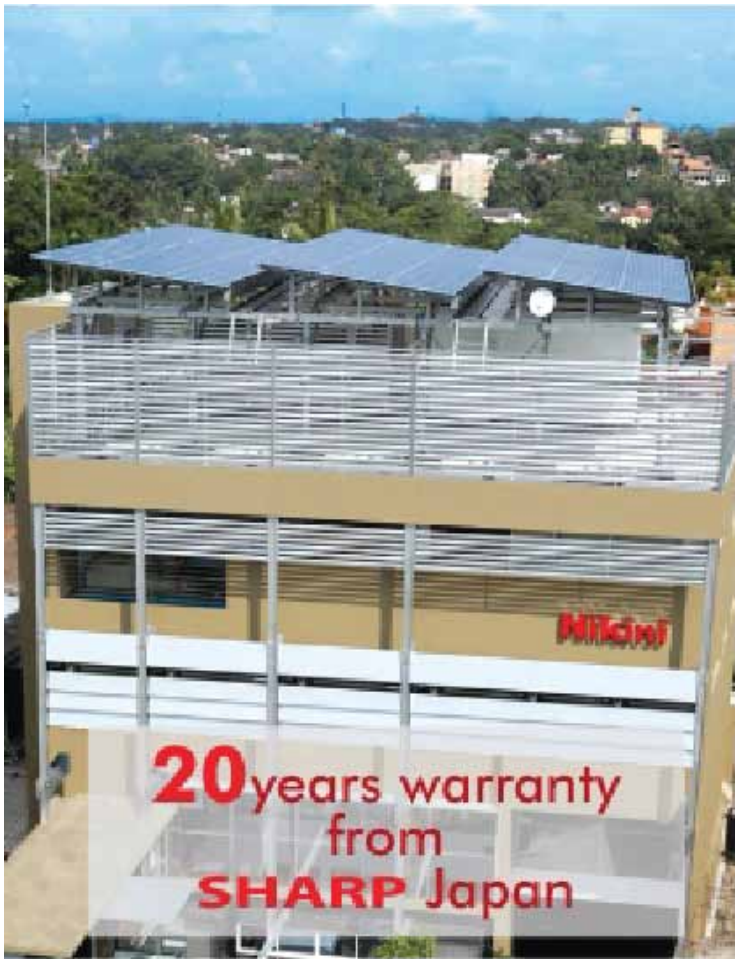
Unmanned Lighthouses Guarantee Safe Marine Navigation

Since installing the world's largest solar module (at that time; 225W) in 1966 on Ogami Island, Sharp has supplied reliable solar power sources to 1,585 unmanned lighthouses throughout Japan.

(As of March 2003)

Specifications

Model	Maximum Power	Open Circuit Voltage (Voc)	Short Circuit Current (Isc)	Max Power Voltage (Vmpp)	Max Power Current (Impp)	Maximum System Voltage	Dimension (W x H x D)mm	Type of Cell	No. of Cells and Connections
NU-SOE3E	180.0 W	30.0 V	8.37 A	23.7 V	7.50 A	1000 V	1318 X 994 X 46	Mono-crystalline	48
NT-R5E3E	175.0 W	44.4 V	5.40 A	35.4 V	4.95 A	1000 V	1575 X 826 X 46		72
NTROE3E	170.0 W	44.2 V	5.30 A	35.0 V	4.86 A	1000 V	1575 X 826 X 46		72
ND-120T1	120.0 W	21.3 V	7.81 A	17.1 V	7.02 A	540 V	1499 X 662 X 46	Poly-crystalline	36
NE-80E2EA	80.0 W	21.3 V	5.16 A	17.1 V	4.58 A	540 V	1200 X 530 X 35		36
NT-78T1	78.0 W	21.4 V	5.08 A	17.1 V	4.57 A	540 V	1200 X 530 X 35		36
NA-901WP	90.0 W	65.2 V	2.11 A	49.3 V	1.83 A	600 V	1129 X 934 X 46	Amorphous & Micro-crystalline silicon	-
NA-851WP	85.0 W	63.8 V	2.11 A	49.0 V	1.74 A	600 V	1129 X 934 X 46		-
NA-801WP	80.0 W	63.3 V	2.08 A	47.6 V	1.68 A	600 V	1129 X 934 X 46		-



Nikini

Automation Systems (Pvt) Ltd.

249, High Level Road, Colombo 05, Sri Lanka

Tel: +94-11-2826894, +94-11-4304477

Fax: +94-11-2826252

E-mail: sales@nikiniautomation.com

SOLAR INVERTERS

Optimise your solar yield with



DIRECT CURRENT (DC)



Optimal solar generator control under all temperature and irradiation conditions



SOLAR INVERTER



Tasks additionally covered by the inverter
System Monitoring



ALTERNATING CURRENT (AC)

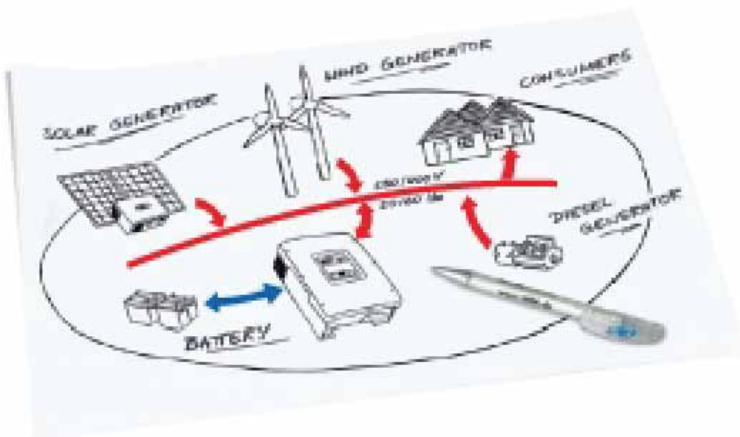


Grid Monitoring + Grid Support

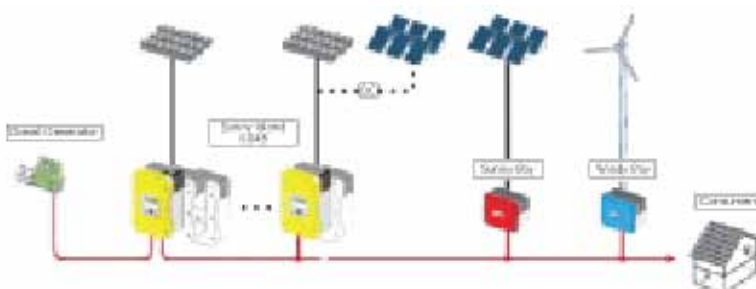
Save Your energy and money with highest efficiency solar inverters in the world

Solar inverters that have the highest efficiency in the world of more than 98% with H5 Topology. This is patented technology from SMA that gives you the highest solar power yields with minimized losses.

The most innovative solar and wind inverters range for any solar or wind task from Germany. The outstanding system quality from SMA fine-tuned by years of innovative spirit.

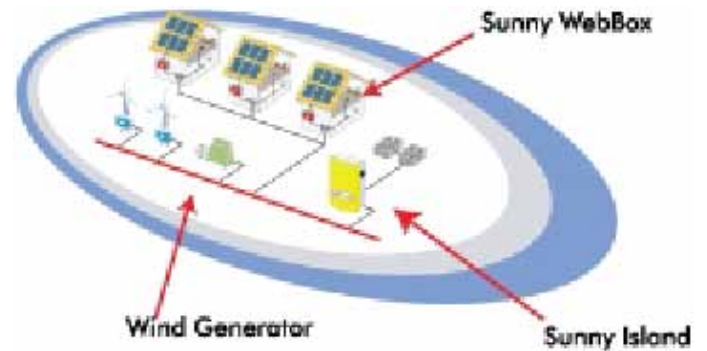
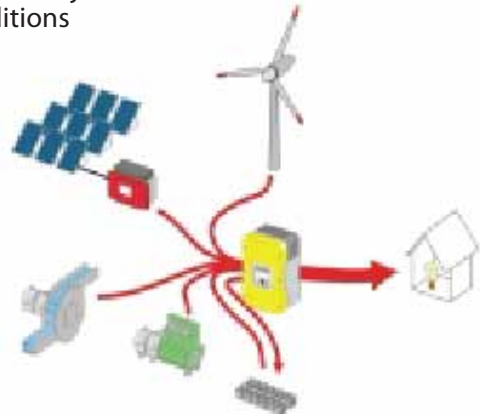


Now from **Nikini** - innovative technology to operate solar power without batteries to save space, money and hassle.



System Technology for Off-Grid Systems

- ★ Stand-alone power supply
- ★ Energy sources can be selected
- ★ Flexible adjustment local conditions



Backup Systems



- ★ Bridging of long term Grid failures
- ★ UPS
- ★ Additional Grid-feeding