

ENERGY EFFICIENT SYSTEMS & POWER SAVING SOLUTIONS

2

**VISION: CLEAN ENERGY
CREATE ENERGY
CONSERVE ENERGY**

**Mission: Save 1000 MW by converting
Lights to LED Lighting, Heaters to Solar
Water Heaters & Generation of Solar Power
Water treatment methods – STP and ETP
plants**

3

ENERGY CONSERVATION PRODUCTS- CHANNEL PARTNERS



B2 B /B2 C LED Lighting

Solar Water Heaters and Heat pumps



Water management - STP and ETP Plants

Portabale Bio Gas

ENERGY SAVING / GENERATION PRODUCTS



On Grid / Off Grid Solar PV Rooftop (KW/MW)



Energy efficient Fans



Parabolic Solar / Radiant Cooling system



Covid Protection Products

5 OTHER PRODUCT RANGE - DOMESTIC APPLIANCES & CORPORATE GIFTING



NIRLEP PRODUCTS



morphy richards
smart ideas for your home

MORPHY RICHARDS



**AIR PURIFIERS -
HONEYWELL**

LIGHTINGS

❖ **Factory Lighting.**

High bays

Tube lights

❖ **Street Lighting.**

Street Light

Focus Light

❖ **Office Lighting.**

Tube light

Down light

Panel light





Compete solutions for your
office/Factory

Lighting Energy Audit

LUX studies

Comparison trials

Analysis and Reports

Cost Benefit Analysis

To give you right solutions and take
informed decisions

8

LED lighting – Installed April 2014 Farida Shoes Ltd., C & D Units , Ambur





LED street Lights - Installations



**ONGC Staff Residential
quarters, Chennai**



**Leather Crafts -
Karunguzhi**

LED Street Light Study Vs CFL lighting - Comparison

Tannery at Ranipet



LED lighting effect Before and After installation at MRF Tyredrome, Radhakrishnan Salai, Chennai



SHINE AGENCIES - CHANNEL PARTNERS OORJA ENERGY

- Focus on providing Energy Efficient COOLING and HEATING solutions:
 - Solar Steam Generation: *For Cooking & Industrial Process Heat*
 - Energy Efficient Cooling (Radiant Cooling): *30-50% savings on Air Conditioning Costs*
 - Solar Cooling: *Using Solar Hot Water/Steam for Providing Cooling*

Oorja is an approved Solar Thermal Systems manufacturer by MNRE.

PRODUCTS:

- ③ **Parabolic Trough Concentrator**
- ③ **Compound Parabolic Collector**
- ③ **Radiant Cooling Panel**
- ③ **Adsorption Chillers (R & D)**

14 PARABOLIC TROUGH CONCENTRATOR (PTC 72)

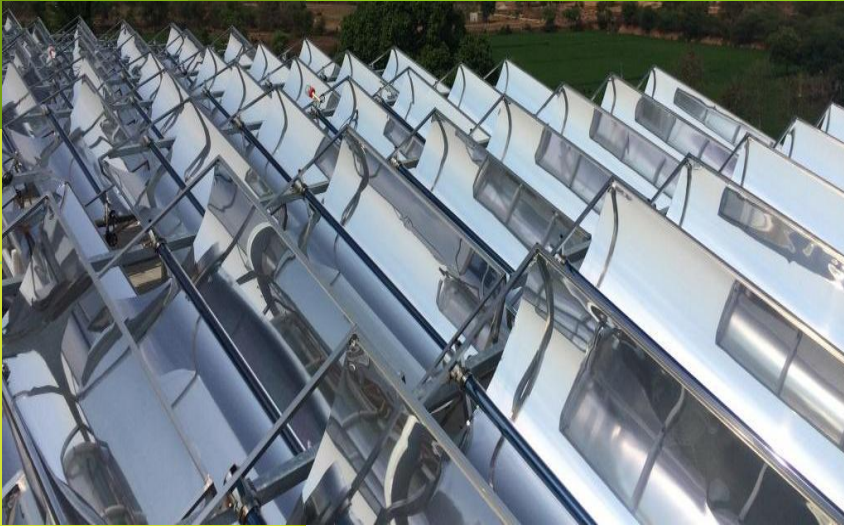
Application:

- Solar Pressurized Hot water system
- Solar steam cooking system
- Solar air heating
- Solar Drying
- Effluent treatment
- Concentrated solar power (CSP)

Temperature range: upto 350 Deg C



SOLAR STEAM GENERATION SYSTEM



**Common Steam
header**

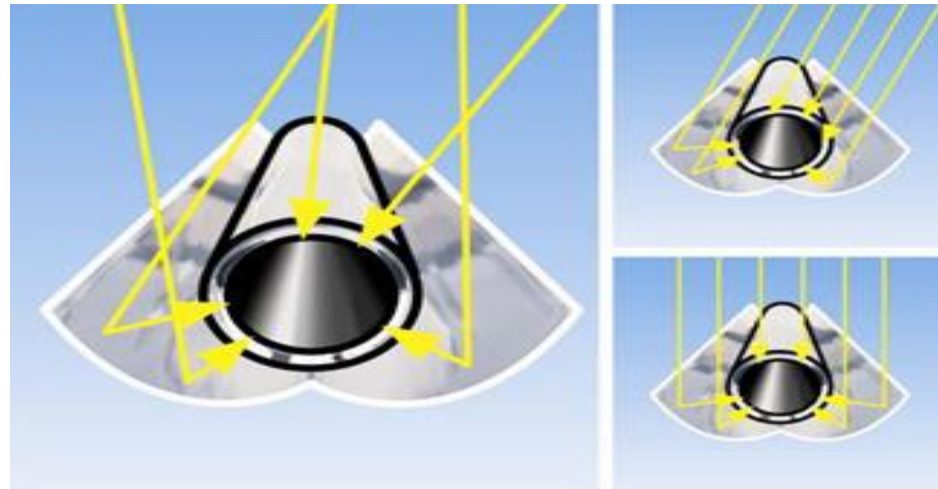


COMPOUND PARABOLIC COLLECTOR (CPC):

Application:

- Solar Hot water system
- Laundry application
- Boiler feed water

Temperature upto 140
Deg C.



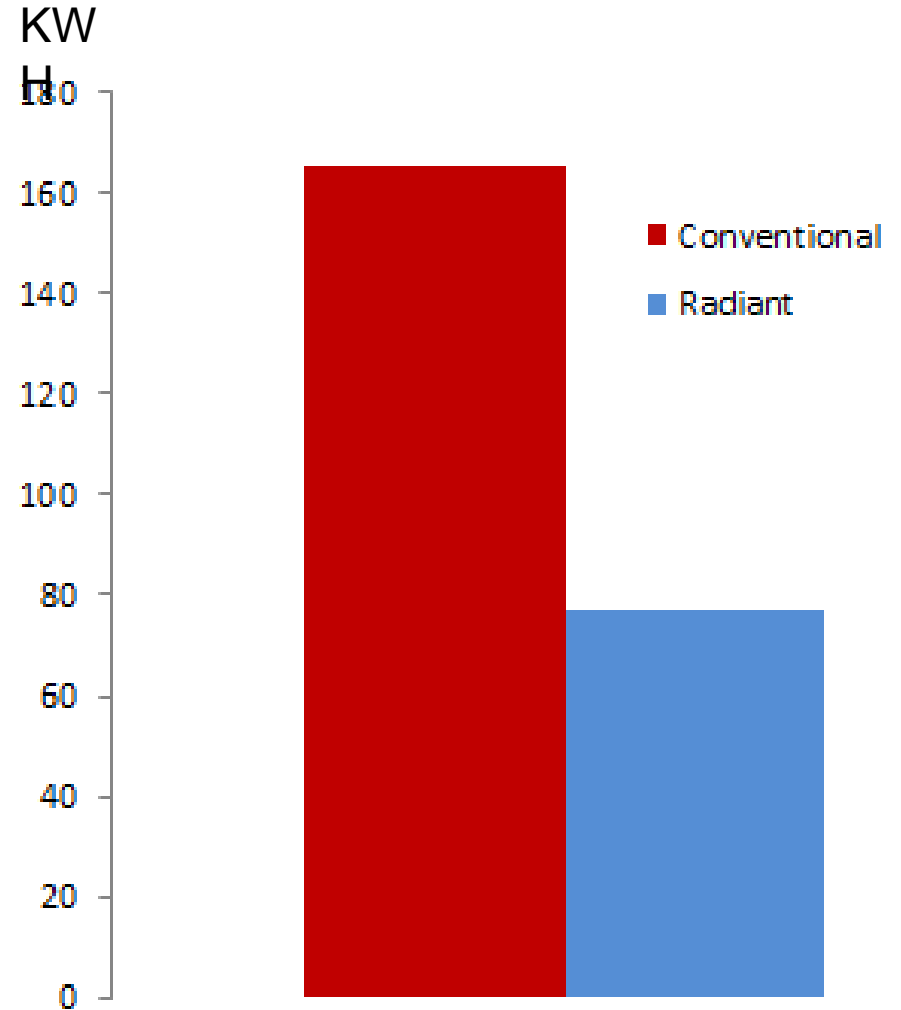
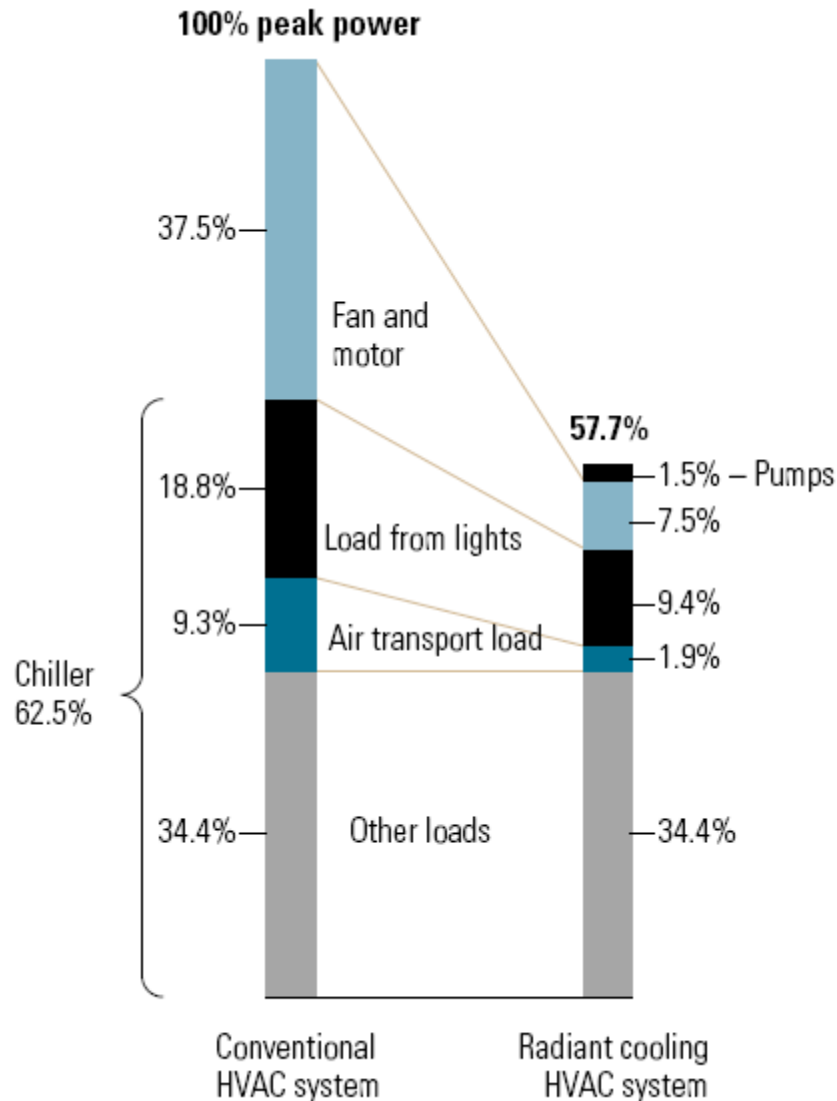
RADIANT FLOOR COOLING:





Energy Efficiency & Radiant Cooling

19



Source: LBNL

INSTITUTIONAL BIOGAS PLANTS-



INSTALLATIONS PHOTOS



DR. BINI GEORGE

T K P HOSPITAL



SALIENT FEATURES OF OUR BIOGAS PLANT:-

22

- ① Process time for biogas production is just 24 hours.
- ① No bad odour.
- ① “Green Connect biogas” converts the solid and liquid bio-waste into renewable biogas as a replacement of LPG (cooking gas).
- ① “Green Connect biogas” treats the waste and converts them into organic manure and stops waste from ending up in the landfills.
- ① It provides easy and de-centralized waste management.
- ① Customers can have a reliable secondary source of cooking gas/electricity with “Green Connect biogas”.

GREEN CONNECT BIOGAS

23

PLANTS:-

- ③ Uses waste food/ vegetables to biogas for cooking using the process of anaerobic digestion.
- ③ The food and vegetable waste from your homes, Schools, Canteens, Colleges, Hostels, temples, marriage halls, commercial establishments etc can be used to produce biogas.

REDUCE YOUR CARBON FOOTPRINT!

- ⊙ Did you know that if the waste is thrown out in the open it will release methane, the most dangerous green house gas? Methane is 21 times more powerful a greenhouse gas than CO₂!
- ⊙ From just 1 kg of waste you can save as much as 250 grams of methane from polluting the atmosphere and over a year, you can **save 3000-18,000 kg of CO₂ per year** by installing just one unit of our biogas plant!

That's your Superfan!



India's first super-efficient ceiling fan



Winner
India Innovation Initiative 2013



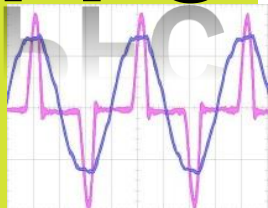
THE SPECS



35W

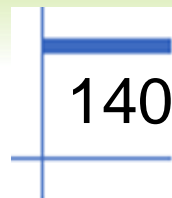


PFC



> 0.9

5 Speeds
& On / Off



140-270 Vac Operation

Same as
Existing



230 m³/minute
AIR DELIVERY



385 RPM

ROHS
electronics
VOC Free
paints
RECYCLABLE
packaging



STAR RATING & SERVICE VALUE



27

Service value tells us how much air is delivered for a watt consumed, and is

$$= \frac{\text{Air delivery in m}^3/\text{minute}}{\text{Power consumed in Watts}}$$

Let us compare fans having 1200mm (48in) span,

For a branded standard fan $= \frac{230}{75} = 3.06$

For a branded efficient fan $= \frac{210}{50} = 4.20$

For a  $= \frac{230}{35} = 6.57$

This fan is rated 5-star

What About This?

SUPERFAN. SUPER BENE



28

No regulator,
save money &
save space on
switch board

No heat
generated by
fan motor

Run longer
or run
double on
inverter

Micro-
computer stops
the fan if the
leaves
encounter any
resistance
while in
rotation

When not in
operation, if the
power is ON,
the indicator
glows

Superb leaf
designs and
fun colors

No extra
noise with
inverter
supply

SUPERFAN. SUPER TECH.



29

Aluminum
Die-cast
body
Aluminum
leaves

DC
operated
models for
Solar
application
s

Two
roller
ball
bearings

Over
voltage &
over load
protection

Industrial
rated
component
s

Three patent-
pending
technologies for
design and
construction

Computer-aided
motor design
and verification
by Finite
Element
Analysis
software

Unique
leaves with
no rivet
protrusions
on the
surface

Powder
coated
body and
leaves

Sensor-less
control for
more reliability

SUPERFAN MODELS



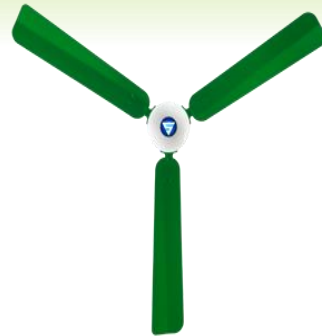
30



Super A Series



Super X Series



Super V Series



Super J1 Series

Models for 230Vac operations and 24/12Vdc operations

Colors Available



Pink



Gold



Orange



Blue



Silver



White

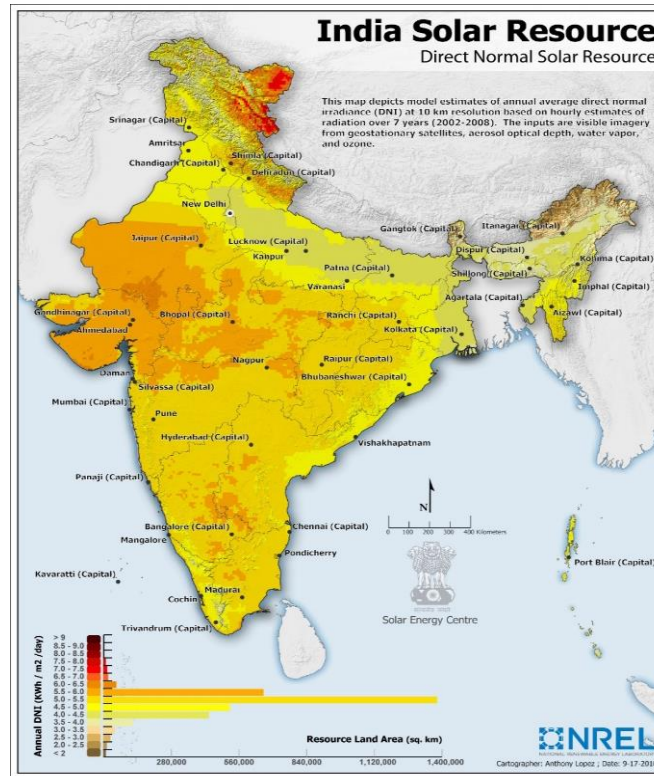
SOLAR POWER

- **On Grid**
- **Off Grid**
- **kW**
- **mW**
- **EPC**

SOLAR POWER GENERATION

32

Average solar generation per KW will be around 4-5 Units per day based on the following Solar Irradiance.



We are majorly concentrating with the EPC projects, addition to that we are rendering our service by selling

- Solar PV Modules (Poly-crystalline and Mono-crystalline),
- Solar Inverters
- Solar Water Heater.
- Solar Street Lights,
- Solar Mobile Chargers,
- Solar Bags,
- Solar Garden Lights,
- Solar Home Bulbs,
- Solar Lanterns
- Solar Emergency Lights.

SOLAR MODULE DATASHEET

ADITYA SERIES POLY

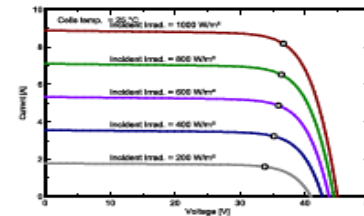
WS-300 to WS-330 (72 Cells)



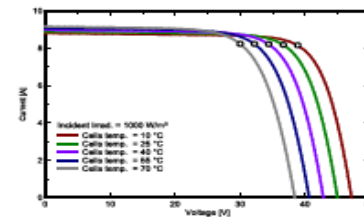
- Superior Module Efficiency as per International Benchmarks
- Positive Power Tolerance 0/+ 5W
- PID Resistant with long term reliability
- Glass with Anti Reflective Coating Improves light transmission
- Salt mist, Ammonia and Hail Resistant
- Sustain Heavy Wind & Snow loads (2400 Pa & 7500 Pa)
- IP 67 rated MC4 compatible connectors
- Excellent Performance in low light



I-V Curve Variation With Irradiance



I-V Curve Variation With Temperature



* The specifications are for reference purpose only. Waaree reserves the right to change the specifications without prior notice.

INTERNATIONAL & NATIONAL CERTIFICATIONS



ISO 9001:2008 | ISO 14001:2004 | OHSAS 18001:2007 | IEC 61215
IEC 61730-1&2 | IEC 60068-2-68 | IEC 61701 | IEC 62716

www.waaree.com

Photos From Our Projects



COVID PROTECTION PRODUCTS

- Hand Sanitizer With Neutral Alcohol-80%v/v
- Sodium Hypochlorite
- Mask - N95, Filtered, Cotton Washable, 3 Ply, Mask Cum Scarf
- PPE Kits - Disposable/ Reusable
- Face Shield
- Pulse Oximeter
- IR Thermometer
- Nitrile Gloves
- Automatic Dispensers & Leg Press Dispensers

Shine Agencies –Corporate Customer List



Shine Agencies

Power saving solutions & Speciality Lubricants

☎ : 99449 41975, 94449 77393, 94432 41975 ✉ : shineagencieschennai@gmail.com



Shine Agencies –Corporate Customer List

38



Shine Agencies

Power saving solutions & Speciality Lubricants

☎ : 99449 41975, 94449 77393, 94432 41975 ✉ : shineagencieschennai@gmail.com



8/2/2020

Thank You

Contact

Balaji : 9944941975 / balaji@shineagencies.in

Raghupathy : 9840804444 / raghu@shineagencies.in

Ramakrishnan : 9790827513 / ramki@shineagencies.in