

A typical solar installation



The Thermax edge - parabolic concentrators

Operating characteristics

- Based on Scheffler design
- Dish area of 16m² and more
- A parabolic dish concentrates sunlight on to the receiver
- Fixed focus design
- Converts ambient water into hot water/ steam through a natural circulation system
- Converted energy can be stored in insulated header pipe

Energy output & key financials

- Each dish generates an average of 4.5 to 5.5 kWh
- Attractive payback period
- Financial incentive available from MNRE, Government of India
- Depreciation benefit up to 80% in the first year

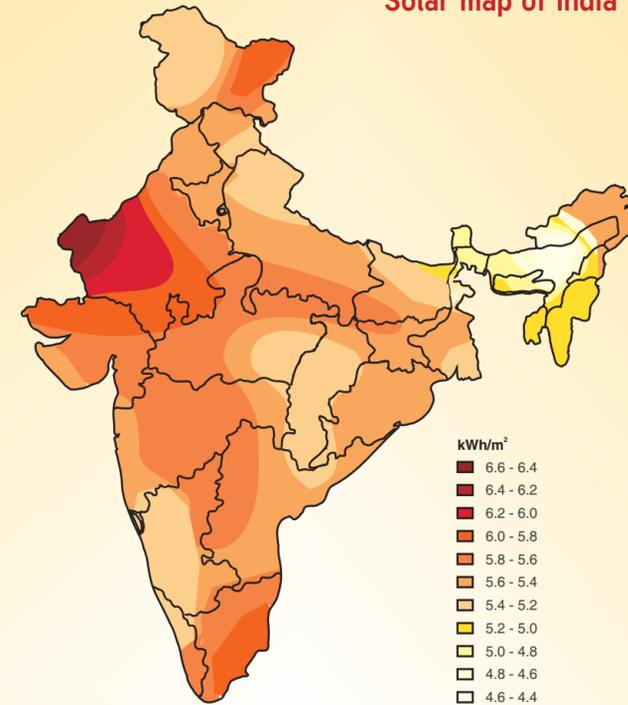
Tracking system

The parabolic dish operates on a two axis tracking system which utilizes the energy generated from the PV cells attached to the dish. Thus, the tracking system is automated without electricity being required.

Rich in features

- Virtually zero operating cost
- Robust technology, proven over the last 15 years
- Can work for 250 to 300 days in a year
- Modular design for easy and safe operation and maintenance
- Can be easily integrated with existing back up system
- Space saving design - can be installed on rooftops (requires only 35 m² for one module)
- Low morning heat up time due to lower system losses
- Dual axis tracking system

Solar map of India



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Sustainable Solutions in
Energy & Environment
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Thermax Business Portfolio

Boilers & Heaters

Water & Waste Solutions

Air Pollution Control

Chemicals

Absorption Cooling

Captive Power

In view of our constant endeavour to improve the quality of our products, we reserve the right to alter or change specifications without prior notice. All photographs shown in this publication are representative in purpose, and to be used for reference only. For actual details and specifications, please refer to Thermax offer document.



The power of the sun,
harnessed by Thermax





Global warming

Warming of the troposphere, due to the enormous amounts of CO₂ released into the air, has led to an increase in the temperatures on earth. This global warming has severely affected various life processes on earth.

The evidence is all around us

Average temperature of earth is rising

- Up 1.2 degree in the last 100 years, 0.9 in the last 30 years
- 12 hottest years since 1860 all after 1980, 5 after 1990

And, it is having an alarming effect

- Evaporation and rainfall has increased
- Glaciers are retreating
- Sea ice and snow cover are shrinking



Mother Earth is under attack

From increasingly hot summers to unseasonal rains, from shrinking polar ice caps to rising ocean levels, from dwindling forest cover to increasingly scarce potable water, and from smog choked cities to the increasing number of animal species facing extinction. The ecological disaster around us is the price we are paying for the rapid development of our lifestyles.

Renewable energy is the answer

Renewable energy is derived from natural processes that are replenished constantly. This includes electricity and heat generated from solar, wind, ocean, hydropower, biomass, geothermal resources, as well as biofuels and hydrogen derived from renewable resources. Renewable energy sources are sustainable in the sense that they cannot "run out".

And, it comes with manifold advantages

- Renewable energy sources are free of cost
- They are clean, do not contribute to global warming nor create any environmental hazard
- They are safe and can be used for longer periods of time
- By not generating any waste products, they help prevent environment pollution and also reduce global warming

Why the sun is the perfect solution

Solar energy is the mother of all renewable energies

The majority of renewable energy technologies are directly or indirectly powered by the sun, and account for over 99.9% of the available flow of renewable energy on Earth.

It is a perfect blend of the 3 Es

Energy

It's plentiful and it's virtually inexhaustible. In fact, the energy requirements of the entire human race can be fulfilled by the power of the sun alone.

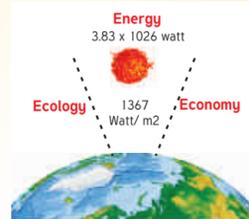
Ecology

Solar energy is a clean, silent energy technology that generates no waste, and allows compliance with targets under the Kyoto Protocol. Also, with a reduced carbon footprint, users qualify for earnings through carbon credits.



Economy

With an attractive payback, it provides a compelling case for return on investment. It is a fixed cost that is hedged against increasing energy costs.



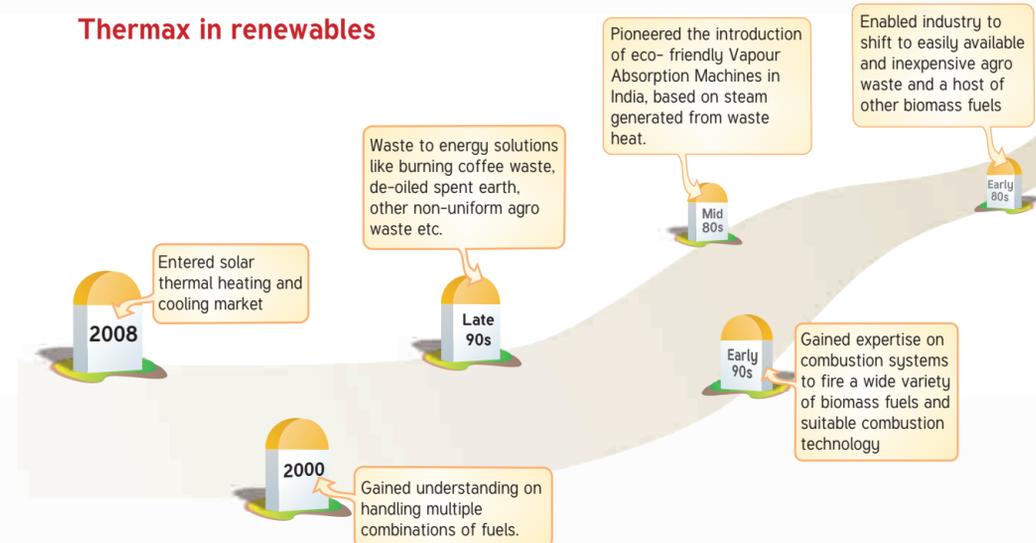
Thermax - Improving your business is our business

Thermax offers products, systems and solutions in energy and environment engineering to industrial and commercial establishments around the world. Its business expertise covers heating, cooling, waste heat recovery, captive power, EPC, water treatment & recycling, air pollution control & waste management and performance chemicals. Thermax brings to customers extensive experience in industrial applications, and expertise through technology partnerships and strategic alliances.



Operating from its headquarter in Pune (Western India), Thermax has built an international sales & service network spread across South East Asia, Middle East, Africa, Russia, UK and the US. It has a full fledged manufacturing set up that is certified for ISO 9001:2000, ISO 14001 and safety management according to OSHAS (ISO 18000).

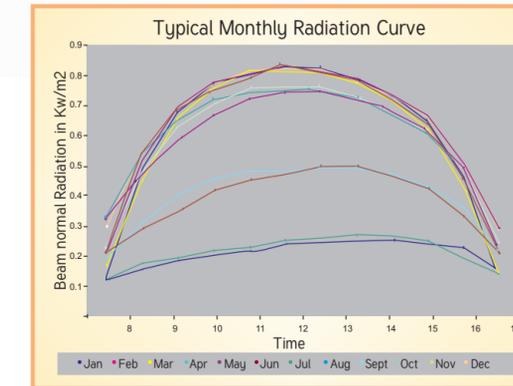
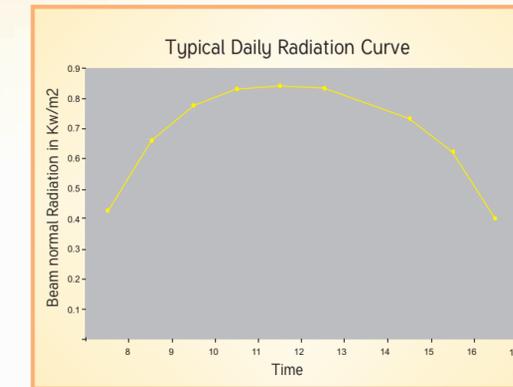
Thermax in renewables



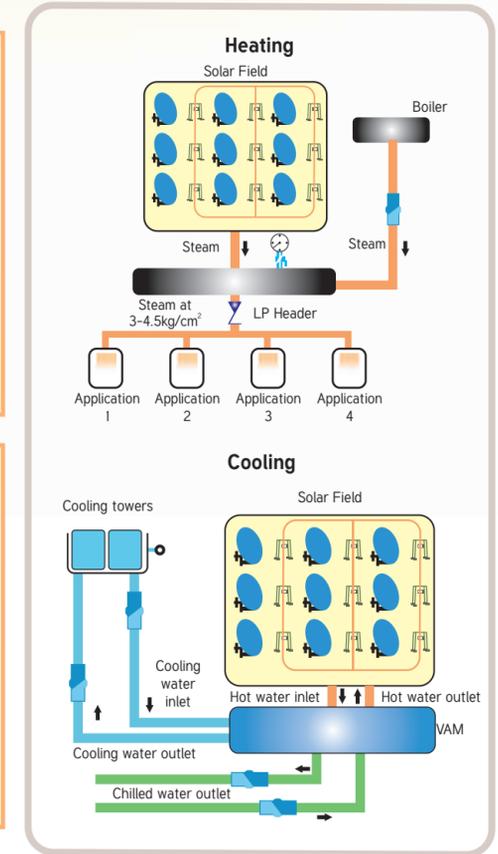
Driven by a vision

"To be a globally respected, high performance organisation offering sustainable solutions in energy and environment."

Typical radiation patterns



The mechanics of solar powered solutions



Solar powered solutions from Thermax

Over 4 decades of thermal engineering experience

- Extensive and varied experience with industrial processes
- Expertise in application R&D
- Trained and dedicated manpower

Integrated solutions for maximum benefit

- With core strengths in Heating and Cooling, Thermax offers single point, optimized, turn key solutions that meet total requirements

A proven commitment to deliver

- As a B2B solution provider in energy and environment, Thermax is committed to the development of sustainable alternatives for industry, that manage resources productively and without waste

