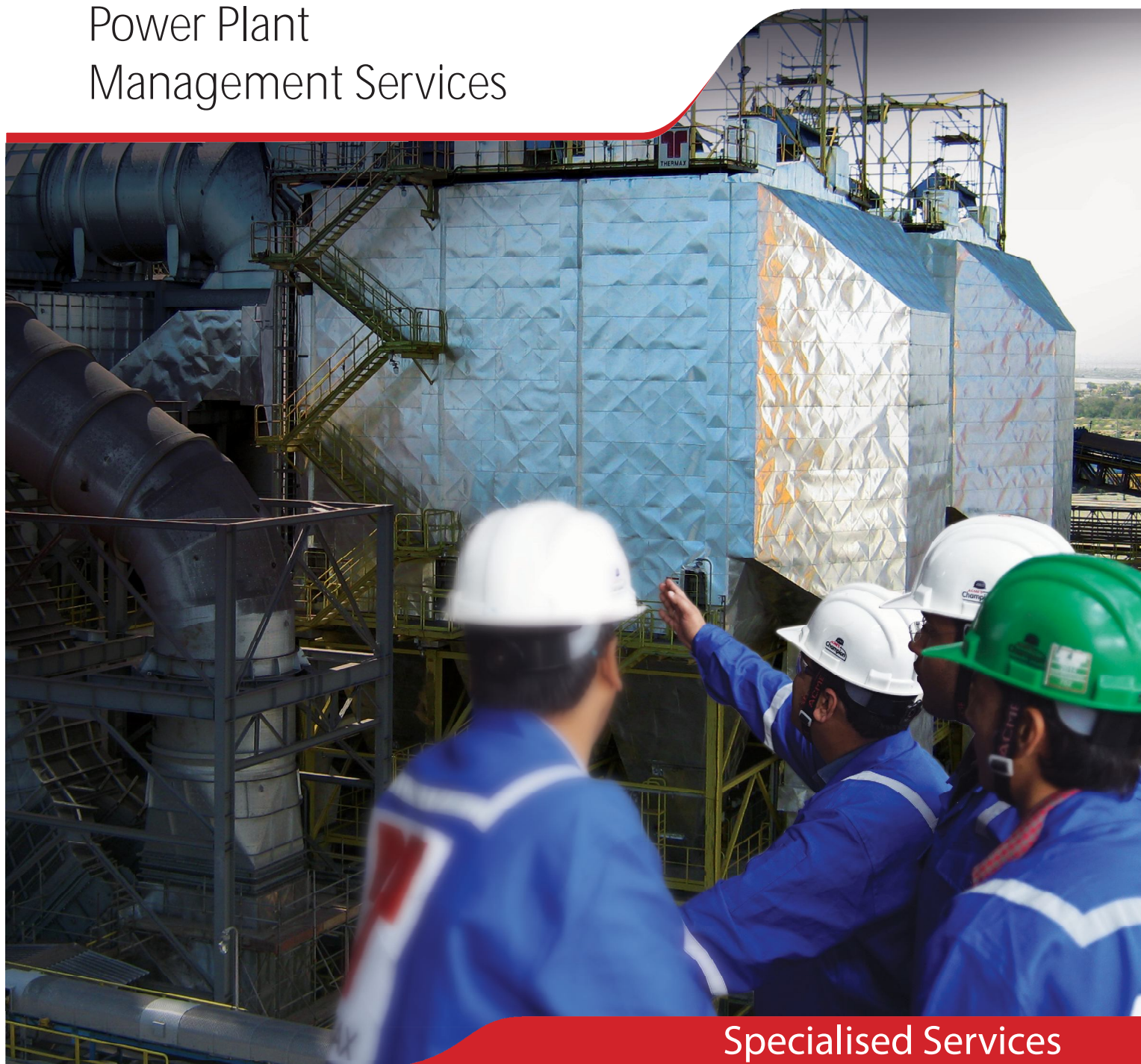




## Power Plant Management Services



Specialised Services

## Thermax Group

Thermax Group is a leading provider of a range of engineering solutions to the energy and environment sectors. We are headquartered in Pune, India and operate globally through 33 International offices, 12 Sales & Service offices and 11 manufacturing facilities - 7 of which are in India and 4 overseas. Our presence spans 75 countries across Asia Pacific, Africa and the Middle East, CIS countries, Europe, USA and South America.

We have our own R&D Centre to add value to customer in the areas of Combustion & Heat Transfer, Biotechnology, Material Science and Solar Thermal.

Thermax's energy efficient and eco-friendly portfolio of technologies includes:



Boilers



Heaters



Absorption Cooling



Air Pollution  
Control Equipment



Chemicals



Solar



Power Generation



Water & Waste Solutions

## Power Division

Thermax's Power Division offers captive power plants and cogeneration systems for industry and independent power plants in the utility space on EPC basis. We offer power generation solutions right from setting up of power plants to its O&M services and spares.

In setting up of power plants, we offer on time delivery, high performance and least lifetime cost.

Spanning over 100 varied projects, we have the experience of contracting nearly 3000 MW of power

Leader in captive EPC power generation market in India

In-house manufacturing of almost 35% of all power plant equipment

More than 500 engineering professionals

Track record of building customised power plants across many countries

Projects designed to meet international standards like ISO, ASME, DIN, IBR, TEMA, ASTM, BS, HEI etc.



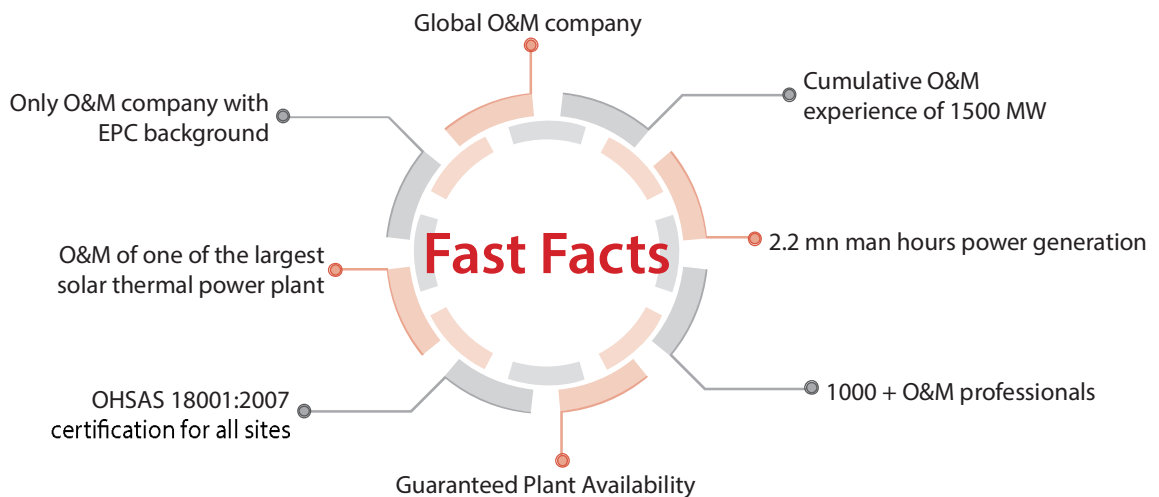


# Thermax O&M Business

Our mission is to emerge as a world class O&M Company providing services for power plants and process equipment while delivering efficiency and reliability in a safe and compliant environment. Our comprehensive operation and maintenance services for plants and equipment are delivered by an experienced & trained team who deploy proprietary processes.

For power plants our expertise stems from a demonstrated and successful operation & maintenance

of a wide array of plants across different sizes and configurations, fuel and technology. Moreover, we have the ability to provide reliable round the clock power in a highly fluctuating demand condition. We keep our customers' investments productive by continuously optimising operations with an aim to enhance availability, output and efficiency of plants while driving down the life cycle costs through continuous innovation.



# Offerings

## Comprehensive O&M

- Total customer support in operations and maintenance
- Domain experts for plant operations
- Need based OEMs/external agency services
- Consumable, chemicals and spares supply

## Plant Commissioning Services

- Flawless commissioning of power plant with all types of equipment and makes
- Fleet of commissioning experts that can be deployed on call
- Agile mobilisation and demobilisation
- Adopting best commissioning practices: Protocols, SOPs, SMPs etc.

## Plant Improvement Program

- Customized suggestions for performance enhancement in station heat rate, auxiliary power consumption and availability
- Plant health diagnostic study
- Fuel combination study
- Failure analysis
- Identifying potential areas of improvements with minimum or nil investment
- Automation services

## O&M Management

- Handholding in implementation of SOPs, SMPs and safety practices
- Operations management by Thermax experts
- Guidance and training of field team

## Spares

- Competitive advantage through spares and material planning
- Quick turnaround for spares
- In house design capabilities for obsolete spares

## Performance Guarantee Test

- Complete assessment of power plant
- Calibration and benchmarking against best in the industry
- Need based suggestions in improvement and modification

## Training Services

- Training covering all systems of power plant
- Hands on field training (Handling tripping's, emergencies etc.)
- Onsite training

# Sectors Served

Cement



Food



Pharma



Oil and Gas/Petrochemicals



Metal



Sugar



Chemicals



IPP



Solar



Breweries & Distilleries



Paper

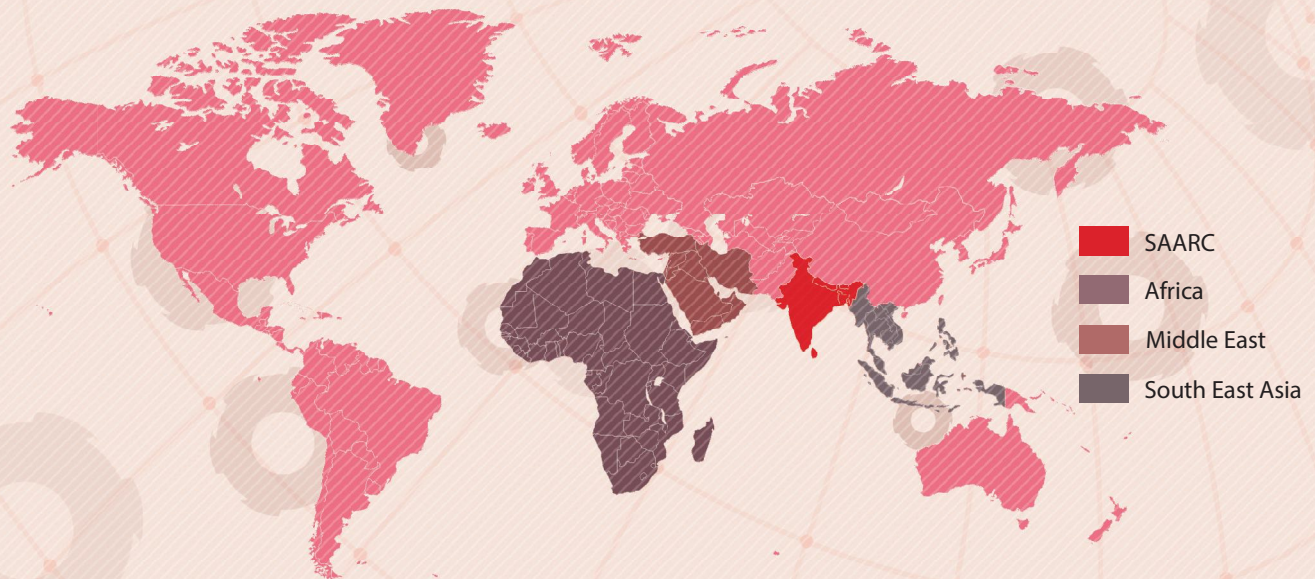


Textile





# Global Footprint



## Project Details



**Dangote Industries Limited – Zambia**  
Plant Capacity – 1x30 MW | Fuel – Coal  
Scope of Service – Comprehensive O&M



**Bataan 2020 Inc – Philippines**  
Plant Capacity – 1x12.5 MW | Fuel – Rice Husk + Coal  
Scope of Service – O&M Management



**Isabela Biomass Energy Corporation – Philippines**  
Plant Capacity – 1x20 MW | Fuel – Rice Husk  
Scope of Service – Comprehensive O&M



**DCW Limited**  
Plant Capacity – 2x25 MW | Fuel – Coal  
Scope of Service – Comprehensive O&M



# Project Details



## Sesa Goa

Plant Capacity – 1x30 MW | Fuel – Coke oven fired Gas  
Scope of Service – Comprehensive O&M



## Dr Reddy's Laboratories

Plant Capacity – 1x7.7 MW | Fuel – Imported Coal  
Scope of Service – Comprehensive O&M



## Jai Hind Sugar Pvt. Ltd

Plant Capacity – 1x18 MW | Fuel – Bagasse  
Scope of Service – Comprehensive O&M



## ONGC Mangalore Petrochemicals Ltd

Plant Capacity – 1x72 MW | Fuel – Natural Gas+HSD+LSHS  
Scope of Service – O&M Management



## Madras Cement Limited

Plant Capacity – 1x25 MW | Fuel – Coal+Petcoke+Lignite  
Scope of Service – Comprehensive O&M



## J K Cement Works

Plant Capacity – 1x25 MW | Fuel – Indian + Imported Coal  
Scope of Service – O&M Management





# Thermax Advantage

## Experience

- Over 5 billion units generated
- Over 40 sites covered

## EPCOM Contractor

- O&M company with an EPC background
- Original equipment manufacturer for 35% of power plant equipment
- Deep knowledge of engineering and process side with in house engineering design set up

## Skilled Manpower

- Resource pool of over 1200 professionals
- Self-run training academy to ensure best talent is deployed at customer sites

## International Presence

- Managing sites across continents through own subsidiaries
- Ability to meet local compliance requirements

## Diverse Expertise

- Variety of fuels like coal, biomass, gas, waste heat, solar etc.
- Managing plants with equipment of various makes
- Managing varied boiler technologies (AFBC, CFBC, WHR etc.)

## Safety

- OHSAS certification and system implementation at all the sites
- Site safety severity index measurement for all the sites
- Internal, cross sectional and external audit of all the sites for safety practices

## Efficiency and Planning Cell

- Use of software & analytical tools to synthesise plant and equipment data and come up with improvement opportunities
- Technical support including plant emergency response, waste elimination and inventory optimisation
- Monitoring of spares, expert services and plant performance at equipment level

## Remote Performance Monitoring System

- Online availability of plant data
- Advance tools for performance calculations
- Suggestions on fuel and operation optimisation and full capacity utilisation

# Awards and Accolades

Thermax O&M has been awarded performance bonuses, certificates of appreciation and recognition for maintaining best standards in health, safety and environment by various customers





**THERMAX**

Sustainable Solutions in  
Energy & Environment

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 [www.facebook.com/Thermaxglobal/](http://www.facebook.com/Thermaxglobal/)

**Thermax Business Portfolio**

-  Heating
-  Cooling
-  Power
-  Air Pollution Control
-  Chemicals
-  Water and Wastewater Solutions
-  Solar
-  Specialized Services



This brochure presents only some of our products and we reserve the right to amend any product details without notice. The photographs used in the brochure are indicative and may not match the actual plant.

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