

# Green Steam Supply for a Pharma Company



The Pharma major entered into a long term outsourced 'Steam Supply' contract with TOESL in September, 2017

**Thermax Onsite Energy Solutions Limited (TOESL)** provides outsourced utility delivery services based on the **Build-Own-Operate (BOO)** business model, enabling customers to **optimise costs**, reduce **CO<sub>2</sub> footprint** and remain focused on their **core business**.

The customer produces **drugs and pharmaceuticals** across many therapeutic categories and exports to around 60 countries across the globe.

## Project Overview

Through conscious efforts to embed sustainability concept in business strategies, the customer has taken several measures to optimise the use of power in its plants and has implemented the concept of 'Zero Liquid Discharge' across its manufacturing units. Taking a step further in the direction of sustainability, the customer opted for outsourced utility delivery solutions by TOESL for green steam supply for its plants across India.

## Thermax Onsite's Offering

TOESL has installed wood chips-fired boilers of 10 TPH @ 17.5 kg/cm<sup>2</sup>(g) and 6 TPH @ 10.54 kg/cm<sup>2</sup>(g) at two plants of the customer to be operated and managed through a long-term comprehensive **OPEX** contract under **Build-Own-Operate (BOO)** business model.

TOESL ensures delivery of energy (steam) at an optimum price leveraging high-end automated biomass boiler installation.

### Green steam supply at customer plant in Ranipet, Tamil Nadu

**COMBIPAC Biomass Boiler Model:** CPRG100 with Reciprocating Grate using Lambion, GmbH Technology

<b>Boiler Capacity</b> 10 TPH	<b>Boiler Design Pressure</b> 17.5 kg/cm <sup>2</sup> (g)	<b>Boiler Fuel</b> Waste Wood Chips	<b>Estimated CO<sub>2</sub> Reduction</b> 8700 TPA
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### Green Steam Supply at customer plant in Renigunta, Andhra Pradesh

**COMBLOC Biomass Boiler Model:** CBRG60 with Reciprocating Grate using Lambion, GmbH Technology

<b>Boiler Capacity</b> 6 TPH	<b>Boiler Design Pressure</b> 10.54 kg/cm <sup>2</sup> (g)	<b>Boiler Fuel</b> Waste Wood Chips	<b>Estimated CO<sub>2</sub> Reduction</b> 5200 TPA
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### Benefits to Client

- Optimum cost-effective steam price
- Guaranteed boiler uptime & efficiency throughout the product lifecycle
- No investment for boiler plant and machinery by customer
- Comprehensive O&M
- Significant SPM reduction in emissions
- Dedicated biomass fuel supply chain ensuring consistent quality at right price
- The customer focuses on its core business while TOESL takes charge of steam supply



- Reduction in carbon footprint from both plants of the customer due to usage of carbon neutral biomass fuel is equivalent to CO<sub>2</sub> offset by 2.3 lakh trees!



Eliminating carbon emissions that arise due to burning fossil fuels

\* Reference - <https://www.epa.gov/energy/greenhouse-gas-equivalencies-calculator>



**THERMAX**

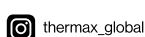
Sustainable Solutions in Energy & Environment

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