

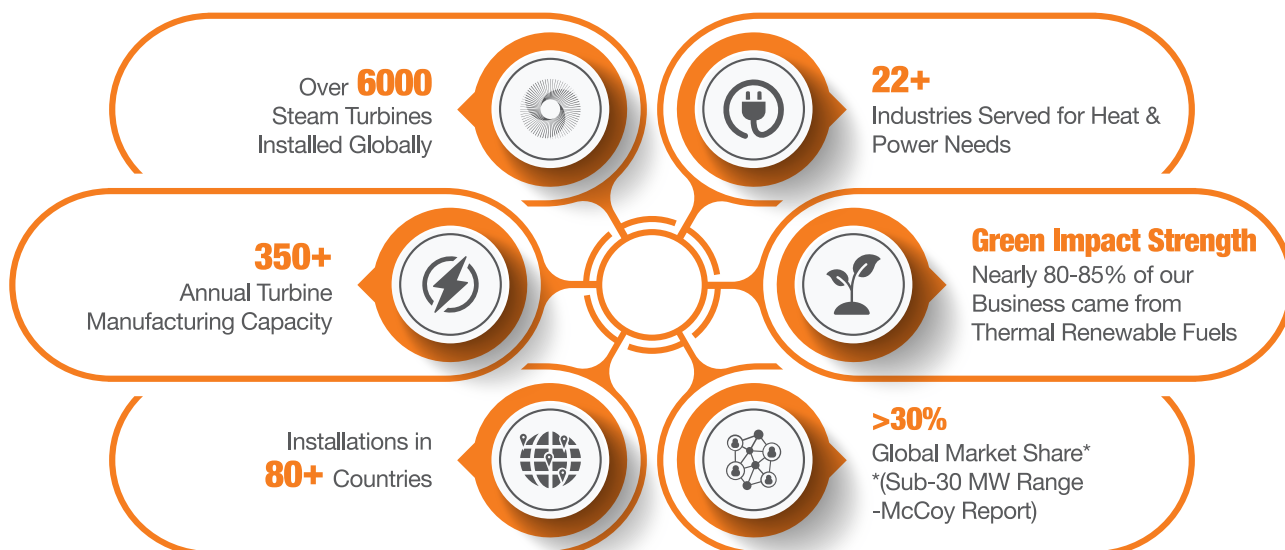
PRECISION IN EVERY TURBINE. POWER IN EVERY TURN.

ENGINEERED FOR EVERY INDUSTRY.



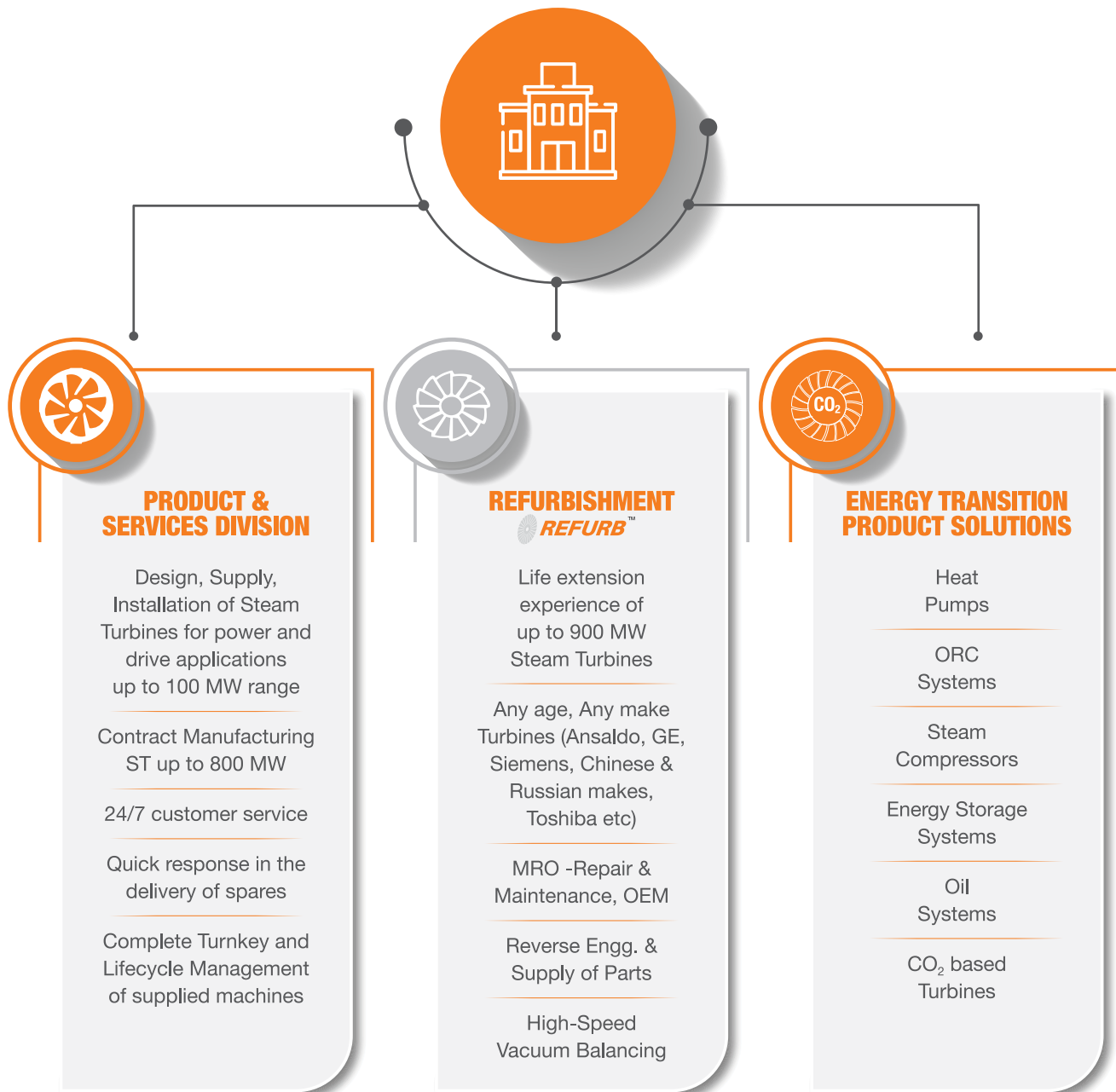
A JOURNEY DRIVEN BY PURPOSE AND POWERED BY PRECISION

Started in 1968, for over 50+ years, Triveni Turbine Limited (TTL) is a globally recognized leader in industrial heat and power solutions and decentralized, sustainable energy systems. With a strong foundation in engineering excellence, the company designs and delivers high-efficiency, reliable, and customised solutions that enable industries worldwide to optimize energy use, enhance operational performance, and reduce carbon footprint.



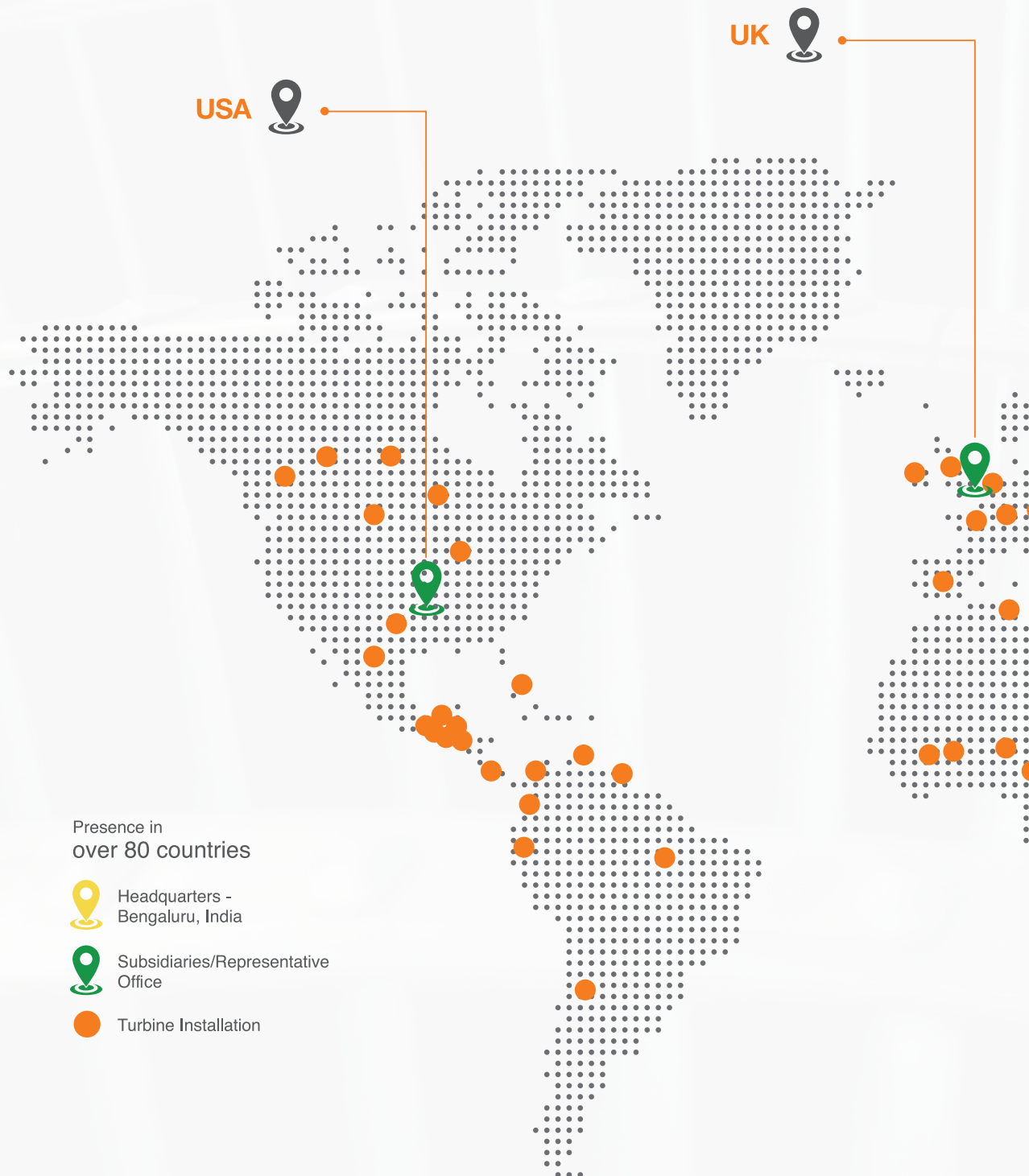
BUSINESS OVERVIEW

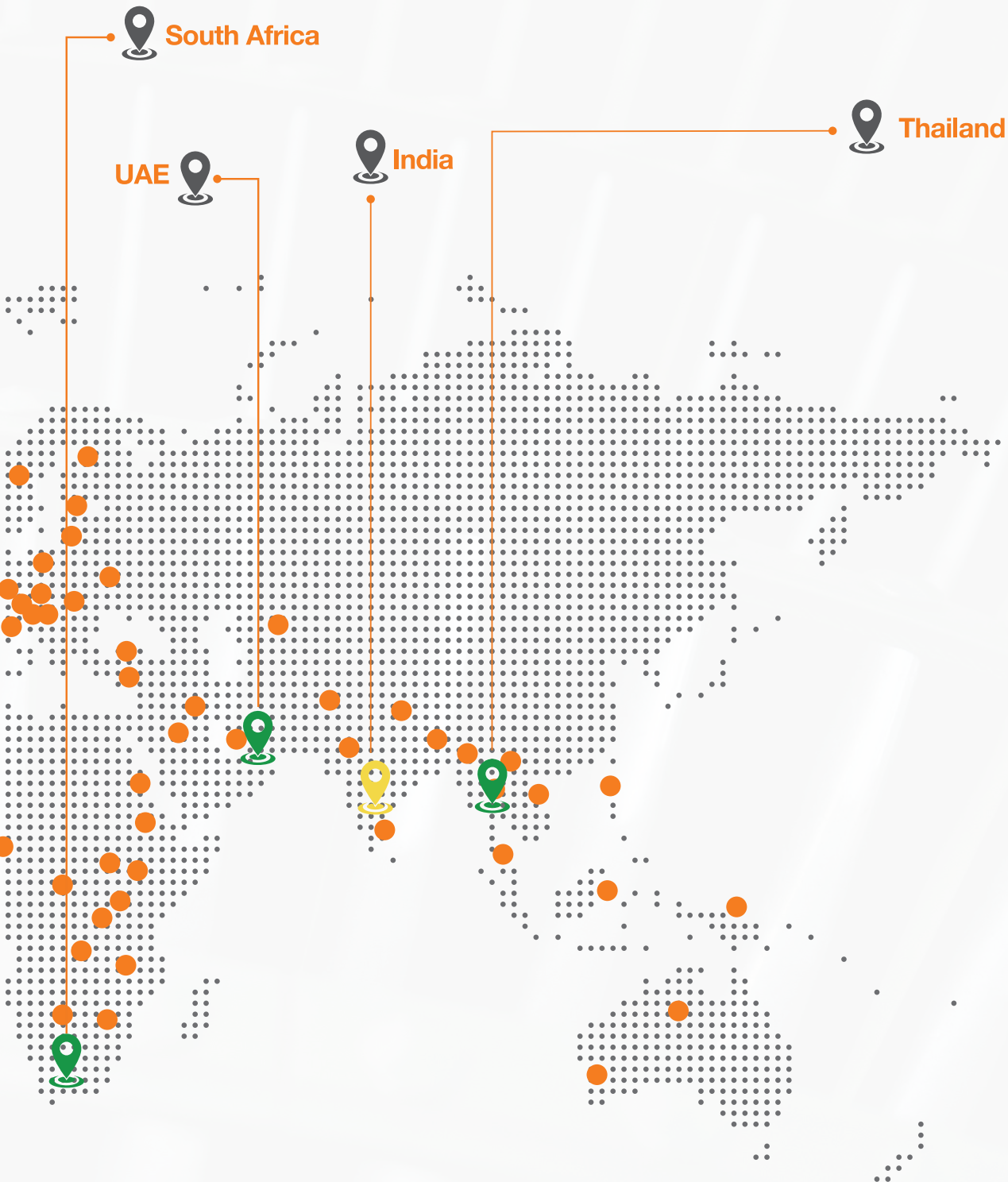
TRIVENI TURBINE LTD. (TTL)



GLOBAL PRESENCE. LOCAL COMMITMENT.

With a footprint across more than 80 countries, Triveni Turbines delivers worldwide service backed by global scale. Supported by our state-of-the-art facilities in Peenya and Sompura, Bengaluru along with our global centres in the USA and South Africa, we offer customer-specific solutions strengthened by strategically placed offices and strong on-ground teams that ensure continuous engagement and lasting partnerships.





VERSATILE TURBINE SOLUTIONS FOR EVERY ENERGY NEED

At Triveni Turbines, with our decades of intellectual capital and ongoing R&D activities, we have established a comprehensive portfolio of products that cater to the energy needs of diverse industries. Our products are also helping shape a better tomorrow by addressing the global urgency of energy equity, security and sustainability.



INDUSTRIAL STEAM TURBINES

High-Performance Turbines. Industrial-Grade Reliability.

Built for demanding operations-delivering power, precision, and proven uptime across global industries.



CONDENSING STEAM TURBINES



BACK PRESSURE STEAM TURBINES

Types

Specifications

Up to 100 MWe

Up to 545°C

Up to 140 bar(a)

Condensing Steam Turbines

Straight condensing type

Bleed condensing type

Extraction condensing type

Double extraction condensing

Injection condensing type

Axial turbines

Reheat turbines

Back Pressure Steam Turbines

Straight Back Pressure type

Bleed Back Pressure type

Extraction Back Pressure turbine

Key Features

Robust construction

Customisable designs

High operational reliability

High efficiency

Compact design

Low maintenance

Flexible configuration



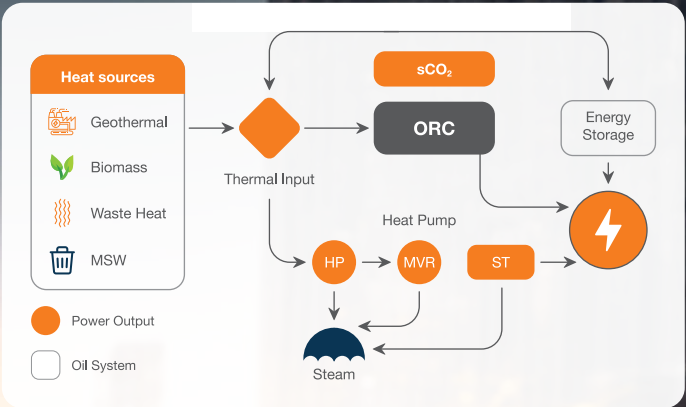
WE DO HEAT, STEAM & POWER INTEGRATED SOLUTIONS FOR EFFICIENT INDUSTRIAL GROWTH

We provide integrated solutions across heat, steam and power for modern industrial applications. Our capabilities bring together efficient energy use, steam generation, power recovery and system optimisation in one connected offering.

With expertise in steam turbines, heat pumps, MVR systems, advanced power cycles, energy storage and oil systems, we help industries improve efficiency, reliability and sustainable growth.

Range	Heating	Chilling
Capacity	100 kW to MW scale	
Water Outlet Temperature	Up to Maximum 120°C	Up to Minimum 6°C*

*Sub-zero temperatures possible using brine



Category	Details
Heat Pump for Hot Water	Heating up to 120°C, Simultaneous chilling possible, Combined COP up to 7
	Capacity: 100 kW to MW scale
Steam Generating Heat Pump	Steam Generation up to 140°C
	Pressure: 3.6 bar(a)

BENEFITS OF CO₂ HEAT PUMP & CHILLER SOLUTIONS

Helps meet ESG and Net-Zero target with low GWP (1) and zero ODP.

Natural, safe, and inexpensive refrigerant.

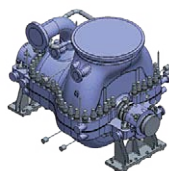
Simultaneous heating and cooling provides higher efficiency (COP).

Compact footprint.

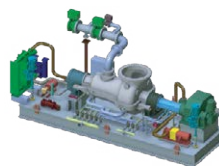
ENERGY TRANSITION SOLUTIONS



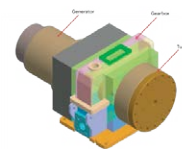
Mechanical Vapor Re-compressors



ORC Systems



Sub-Critical CO₂ Turbines up to 100 MWe



Supercritical CO₂ Turbines upto 10 MWe

POWERING INDIA'S ENERGY AMBITIONS WITH NEXT-GENERATION CO₂ INNOVATION

Long Duration Electrical Energy Storage - CO₂ Battery Project

Driving the next chapter of India's energy transition, Triveni Turbine Limited is proud to support NTPC's CO₂ based Long Duration Energy Storage (LDES) project at Kudgi with a capacity of 160 MWh.

Built for long-life, high-efficiency energy storage, the project eliminates dependency on critical minerals like Lithium and Cobalt while enabling minimal degradation, 100% depth of discharge, and flexible deployment across geographies.



API STEAM TURBINES

API steam turbines compliant with international standards
(API 611 - General Purpose and API 612 - Special Purpose)

Range up to 100 MW

Applications:



Petrochemicals



Refineries



Metals



Agro-processing



Fertilizer Plants

Drive Applications:



Refineries



Chemicals



Petrochemicals



Fertilizer Plants

Key Features:



Compliant with
API 611/612



Explosion-proof
design



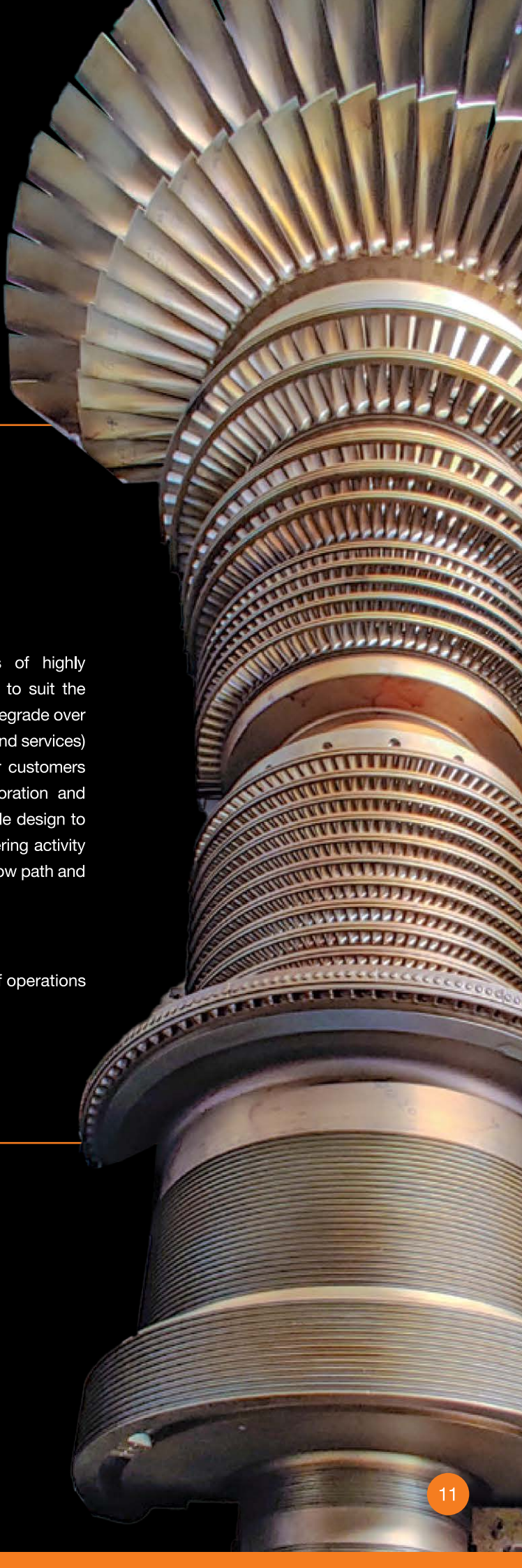
High safety
and reliability





Triveni REFURB (Multi-brand services) is carving out a niche in the refurbishing and repair of rotating equipment of 'Any age, Any make' across the world. The wide portfolio includes efficiency enhancements by the complex re-engineering of rotating equipment, using advanced scanning equipment and state-of-the-art design & manufacturing facilities to basic activities like overhauls, health checks, condition assessments and spare parts supply by reverse engineering.





WHY REFURBISHMENT?

Triveni REFURB (Multi-brand services) team consists of highly experienced specialists who can re-engineer the turbine to suit the customers' current requirements. Steam turbines tend to degrade over usage with reduced efficiencies. Triveni REFURB (Multi-brand services) with our vast experience of installed base will assist our customers in re-engineering to address customers' efficiency restoration and enhancement by amalgamation of our highly-efficient blade design to the existing turbine housing. This is a complex re-engineering activity which our experts will undertake by upgrading the steam flow path and guaranteeing enhanced output to our customers.

- Up to 15% improvement in efficiency
- ROI under 2 years resulting in increasing profitability of operations
- Life extension of the turbine by over 100000 hours
- Increased span between two overhauls

360° CUSTOMISED SERVICE PORTFOLIO



**1000+ CUSTOMERS
SERVED
ANNUALLY**



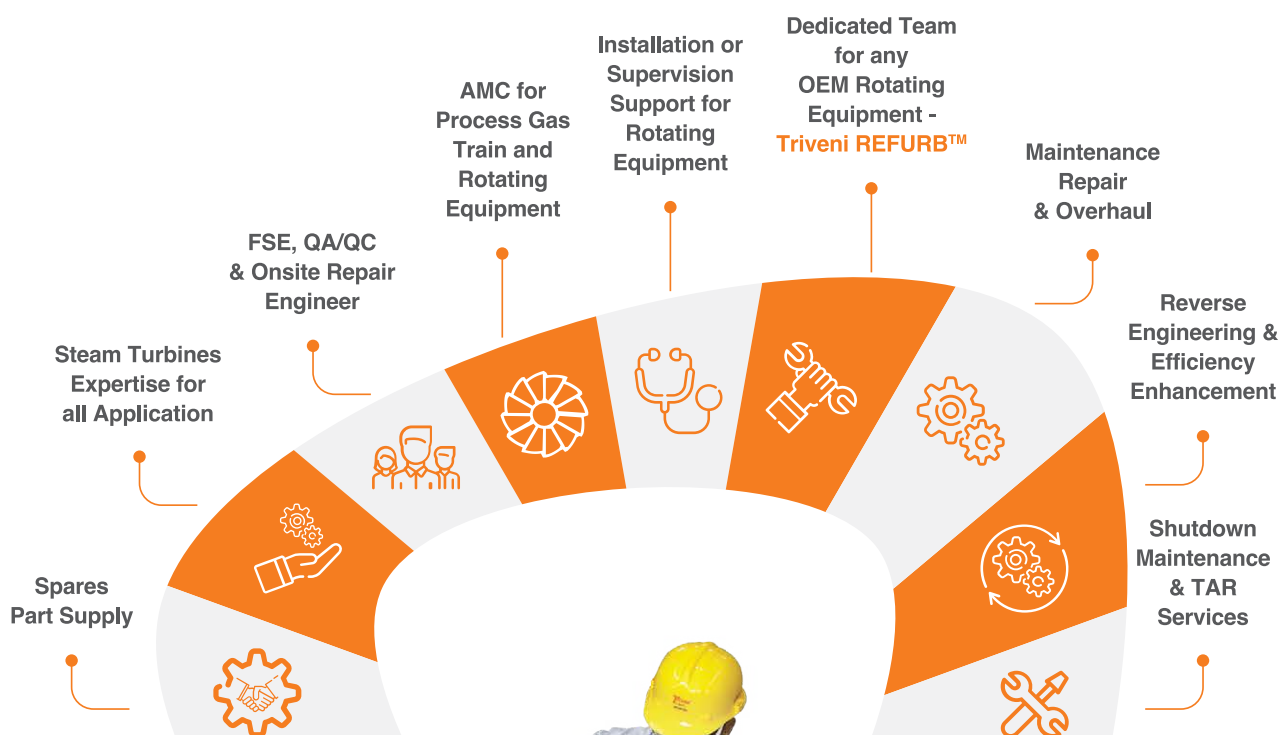
**CUSTOMISED
SERVICE
SOLUTIONS**



**TOTAL
CUSTOMER
SATISFACTION**



**HIGH REPEAT
CUSTOMER
ORDERS**

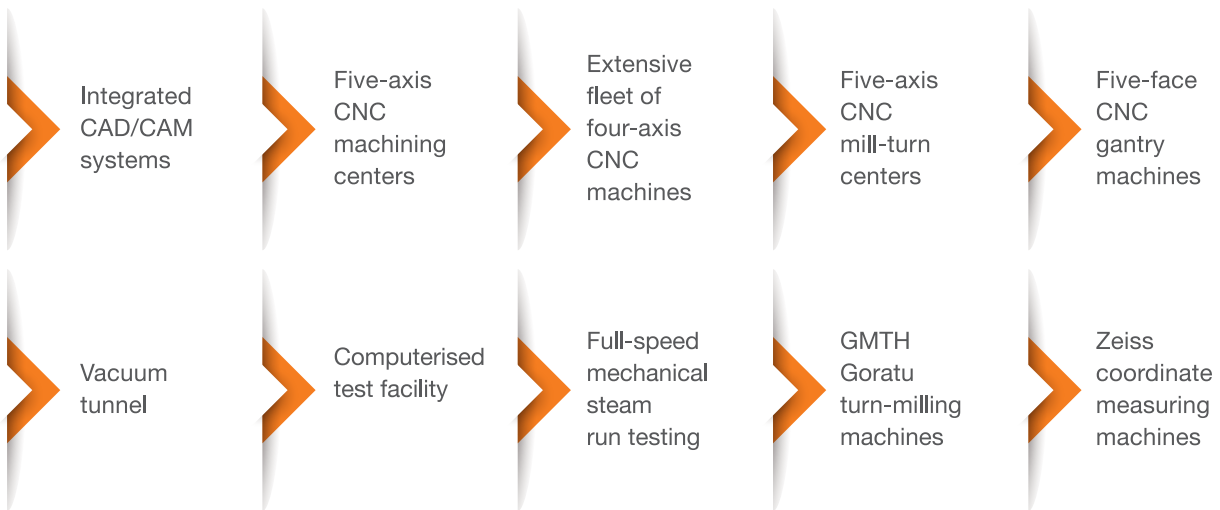


MANUFACTURING & EXCELLENCE THAT POWERS PRECISION

Our advanced facilities in Sompura and Peenya have a combined capacity of over 350 turbines annually, supporting end-to-end manufacturing, assembly, testing, and refurbishment.

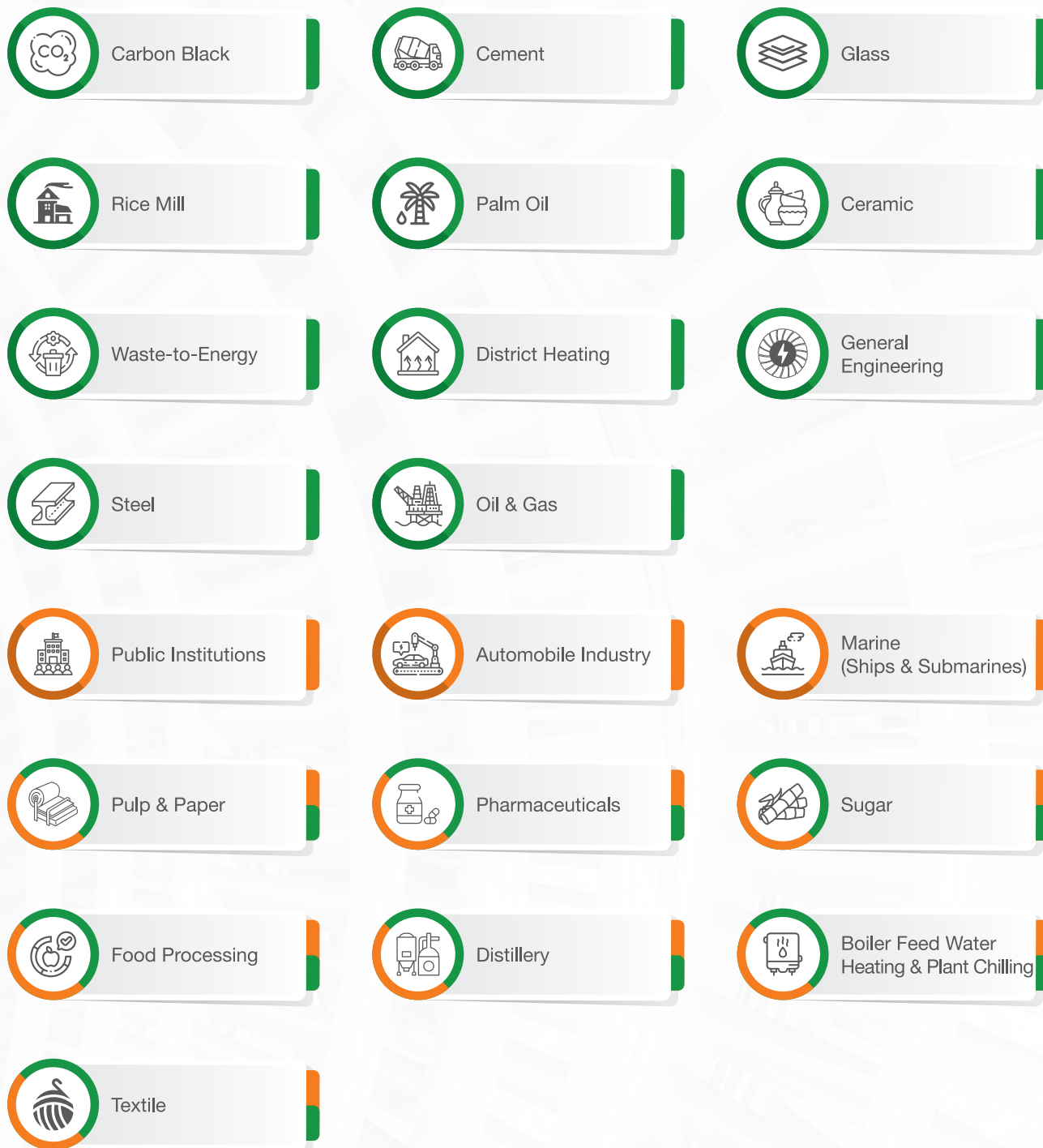
We also operate a turbine assembly and repair hub in South Africa, and we've recently opened one more facility in the USA. Supported by these global hubs our operations are designed to be lean, sustainable and scalable, ensuring precision, flexibility and unmatched reliability for diverse turbine solutions.

Key Capabilities Include



INDUSTRIES SERVED

Turbine Solutions Built Around Your Industry



Applications of Steam Turbines



Applications of CO₂ Heat Pump



Applications of Steam Turbines and CO₂ Heat Pump



GLOBAL NETWORK

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IMAGINE. INNOVATE. INSPIRE.



Triveni Turbines
Corporate Film



Website

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