

JOIN

# TURBOTECH

and take a 

# LEAP INTO THE FUTURE

Our state-of-the-art solutions will help you break new ground and achieve excellence. Be part of shaping tomorrow's possibilities and witness the power of TurboTech for yourself.

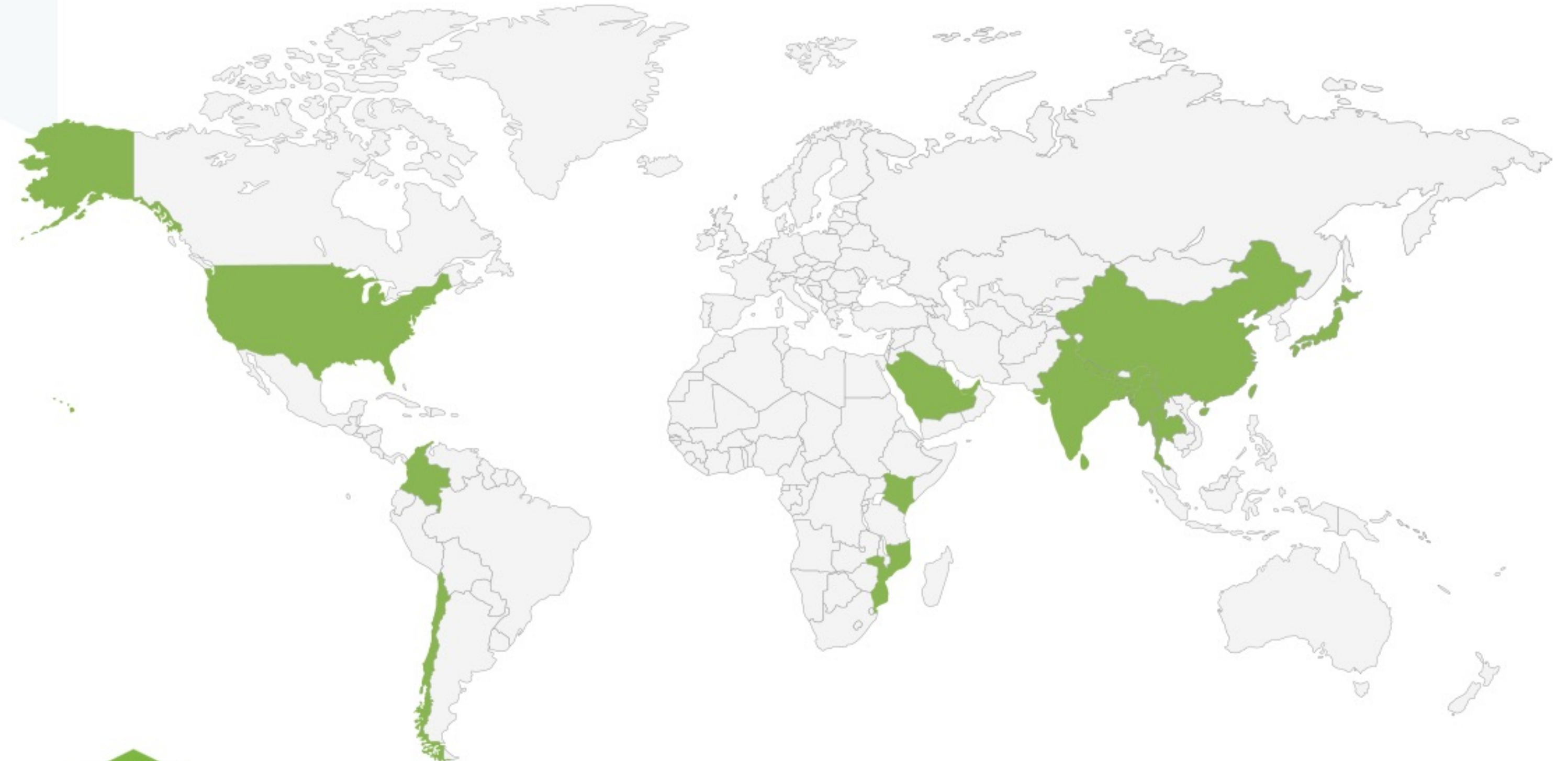


# Introducing Ourselves

TurboTech is your all-in-one energy partner. We design, manufacture and supply steam turbines for clean and efficient power production and our comprehensive services cover installation, maintenance and repair while driving the innovation towards the future of energy.

We are the first to indigenously design, develop and manufacture turbo-chargers helicopter oil cooling systems, UP-lock systems and other critical components for organizations like ADA, NAL, HAL, GTRE, and NSTL.

-  35+ years of Excellence
-  Global Presence
-  Design Expertise
-  Engineering and Technology Competence



# Our Clientele



# Energy Conservation Turbine (ECT™)

This ECT™ uses pressure energy in a process plant as a replacement for the plant's PRV/PRDS, adapting to various steam requirements (back-pressure, extraction, condensing, etc.), catering to a wide range of industrial processes using both saturated and super-heated steam.

Explore the advantages that elevate our turbines.



Reliable



Safe



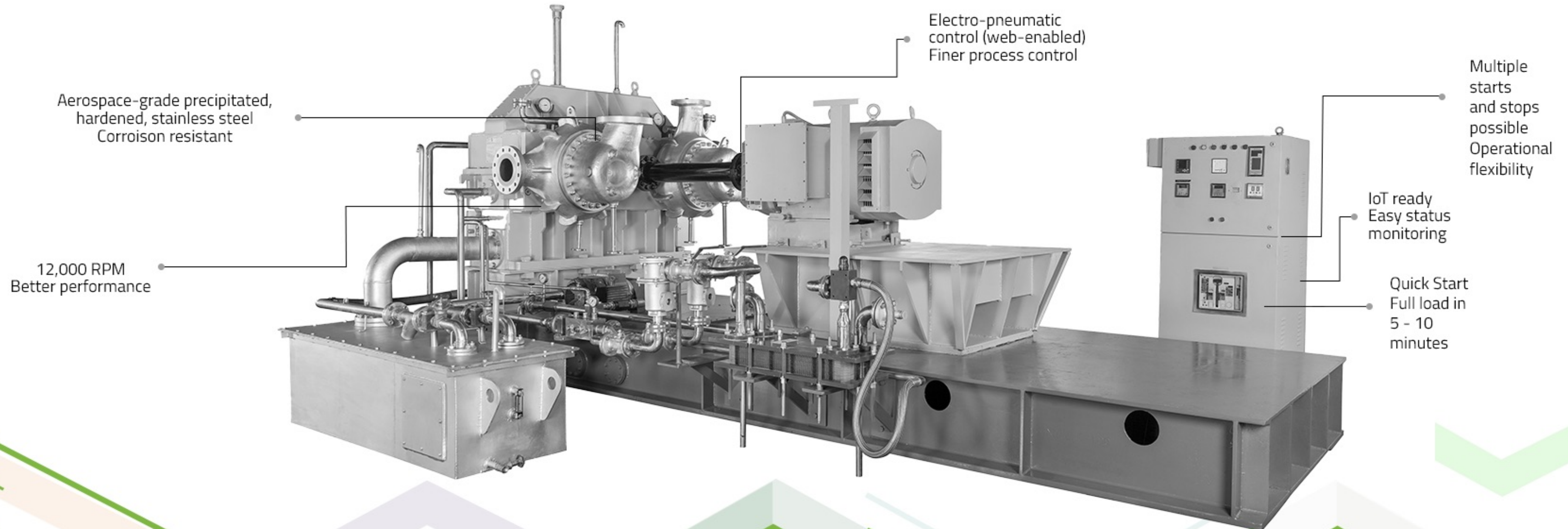
Economical



Quick Commissioning



Low Maintenance





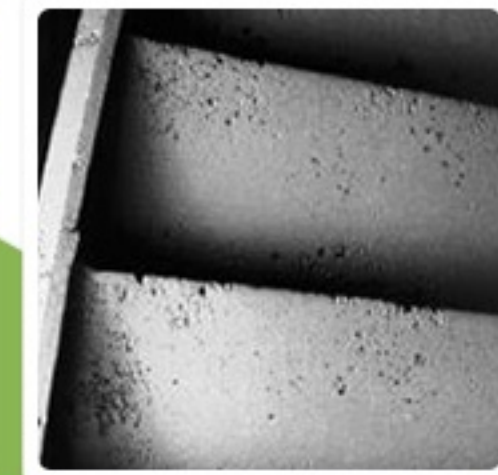
## ECT™ Reliability

- 99.5% Uptime - compared to conventional turbine in varying steam flow conditions
- Erosion resistant steam wetted parts made of stainless steel
- Force-fed Lubricated Journal & Thrust bearing for a longer life
- Labyrinth + Carbon Seals for effective sealing

## TurboTech Turbines



## Other Turbines



## TurboTech Turbines



BLISK Rotor



Volute Casing

## Other Turbines



Inserted Blade Rotor



Split Casing



## ECT™ Safety

- Bladed Disk [BLISK] rotor (no inserted blades) for an accident proof design
- SS Casing (70% elongation at break) and high speed (operates above critical speed)
- Fully automated to avoid mishaps during operation
- Compliance to API Standard
- Acoustic enclosure option to maintain noise levels <85 dBA @ 1 meter
- UL Listing and CE Certification is in process



## ECT™ Economical

- Higher efficiency as the high speed enables higher loading at each stage
- Steam quality of inlet steam (dryness) can be as low as 95%
- Custom designed for specific customer requirements to provide better performance and ROI





## ECT™ Quick Commissioning

- Installation time – 1/4th of Conventional Turbine
- No special civil foundation required - mounted on AVM
- Gestation period – 6 months
- Synchronising time is just 15 mins





## ECT™ Low Maintenance

- Easier maintenance as the design is modular, with minimal parts, and standard tool requirement
- Overhauling time < 2 days, so seamlessly fits in plant schedule
- Minimum critical spare requirement
- No specialised operator required for it's operation
- Flexibility in operation, allowed by frequent start and stops



# Our Other Specialized Offerings

## GAS TURBINE | 500 kW MICRO GAS TURBINE

These turbines are crafted for the utilization of various gases and liquid fuels as input.

## TURBO-EXPANDERS

TurboTech has innovatively crafted a streamlined and effective machine, incorporating insulation for optimal power output.

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Production Facility

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