

You're just one step away from joining the rest of the world

A revolution in the energy space is sweeping the world. Let's help you take your place in the new world order of energy efficient and sustainable companies.

Over the course of the last 25+ years, we have installed our turbines and provided energy solutions for some of the most respected brands across the world.



1 US Patent

8 pending Indian patents

Present in **17** countries

4,385,300,192
KG CO₂ emission prevented

3,140,785^{MW}
units generated hourly

ABOUT US



One-stop global energy solutions provider



Manufacture turbines, turbine parts and other power generation



equipment



Provides BOOT, EPC, FEED, engineering and project management

services



**25+ YEARS OF
EXCELLENCE**



**GLOBAL
PRESENCE**

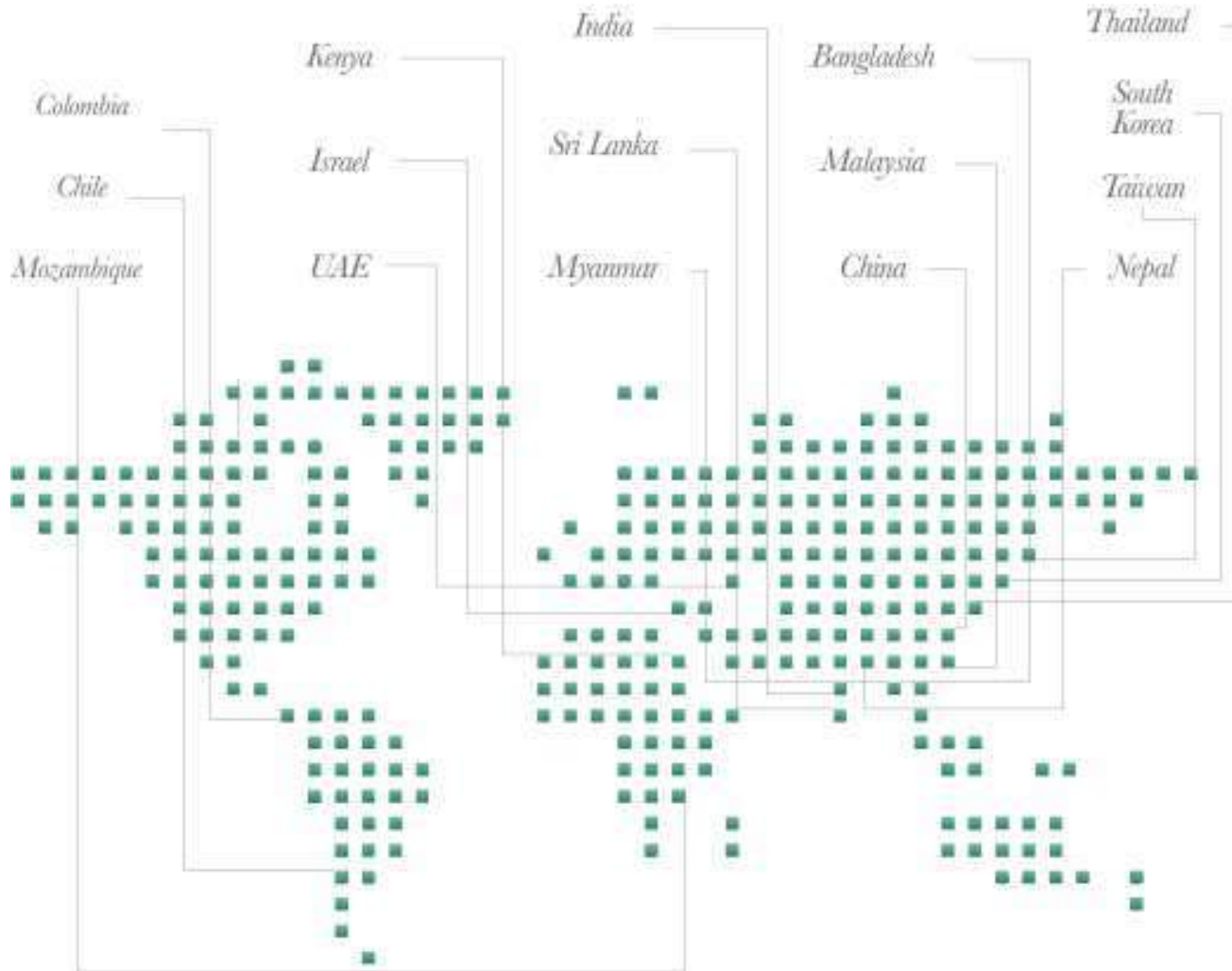


**DESIGN
EXPERTISE**



**ENGINEERING
& TECHNOLOGY
COMPETENCE**

OUR PRESENCE



**Present in
17 countries**

SOME OF OUR CUSTOMERS



LAURELS



ISO 9001 & 140001

AS9100D (Aerospace Manufacturing)

12,000 RPM
Better performance

*Aerospace-grade precipitated,
hardened, stainless steel*
Corrosion resistant

*Electro-pneumatic
control (web-enabled)*
Finer process control

IoT ready
*Easy status
monitoring*

*Aerodynamic
blade design*
*Higher
efficiency*

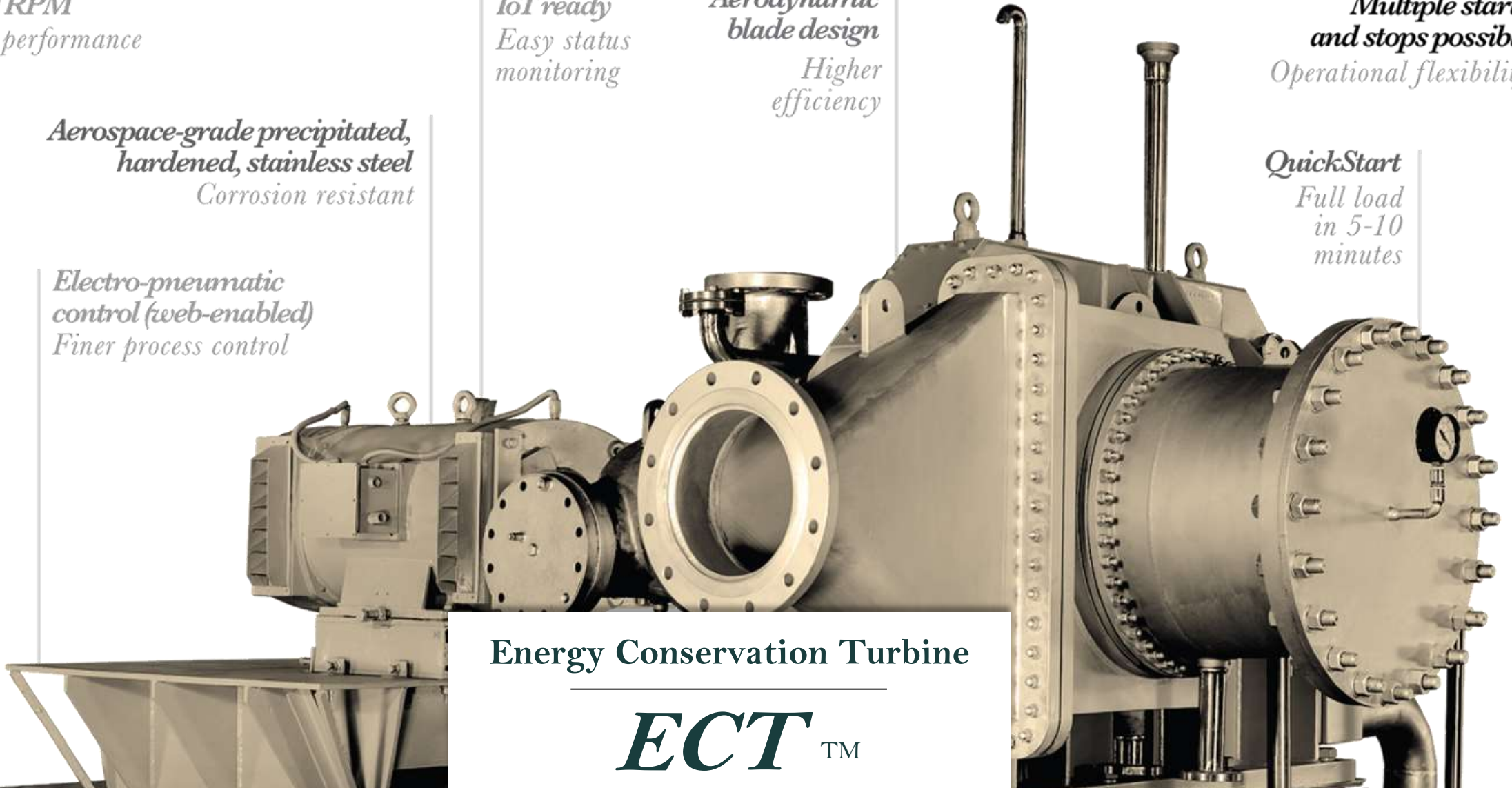
*Multiple starts
and stops possible*
Operational flexibility

QuickStart
*Full load
in 5-10
minutes*

Energy Conservation Turbine

ECT™

OUR FLAGSHIP PRODUCT



RELIABILITY

After a few years of operation:

CONVENTIONAL TURBINES

Condition
when opened



TURBOTECH TURBINES



Upon cleaning
with cloth

Condition
when opened

RELIABILITY

99.5% uptime

Erosion resistant steam wetted parts made of stainless steel

Force lubricated journal and thrust bearings having long life

Labyrinth + carbon seals for effective sealing



SAFETY

CONVENTIONAL TURBINES



Inserted blade rotor



Split casing

TURBOTECH TURBINES



Blisk rotor



Volute casing

Blisk rotors

Stainless steel volute casings

Blades never dislodged during operation

Offer superior containment



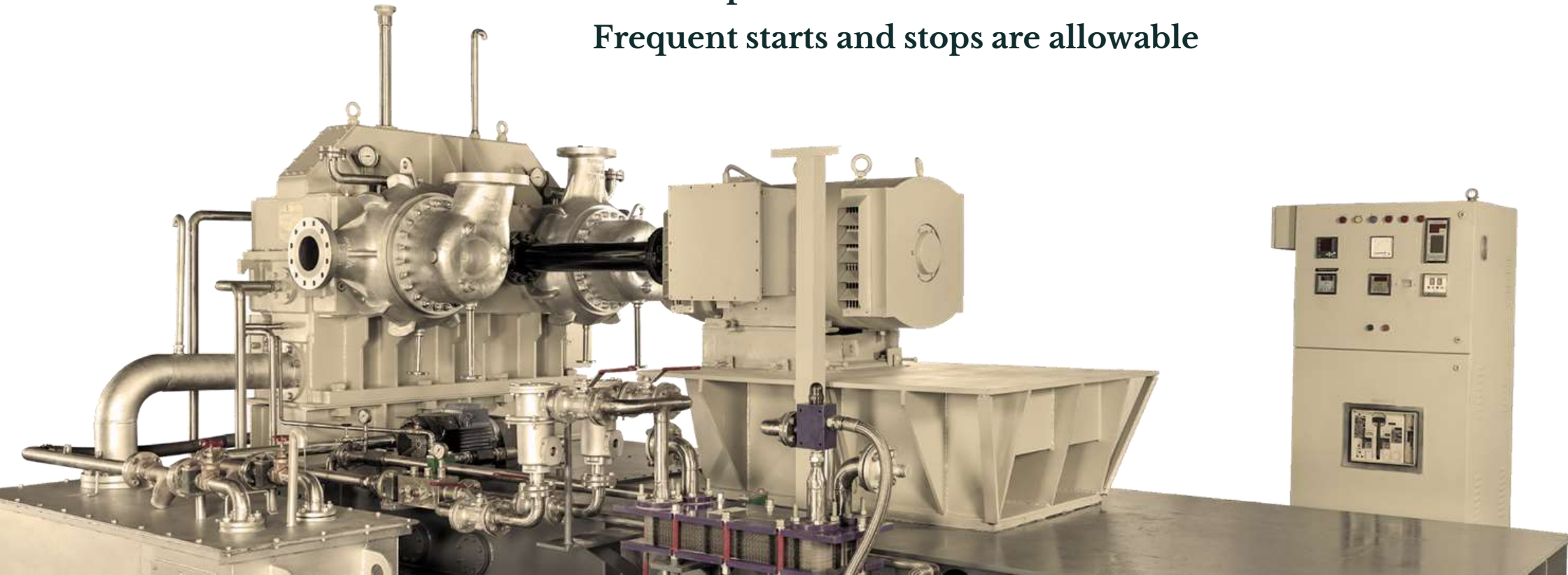
SUPERIOR PERFORMANCE

High speed, high efficiency = higher power generation
(8%)

Well suited for *super-heated and saturated* steam

Startup time – 15 mins vs 90 mins

Frequent starts and stops are allowable

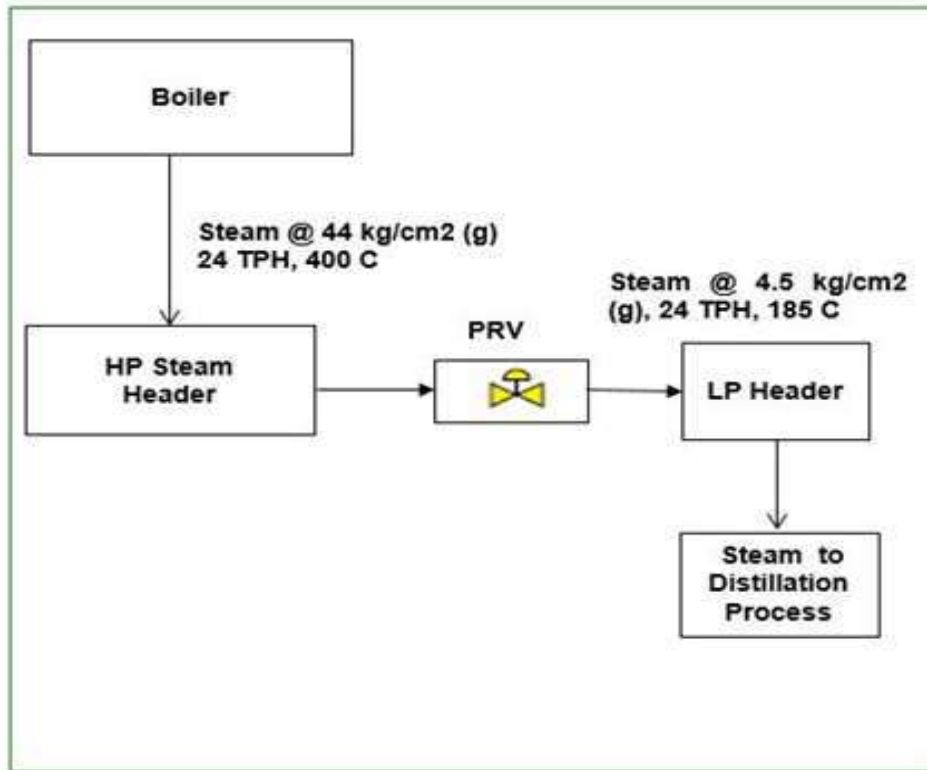


APPLICATION IN THE DISTILLERY INDUSTRY

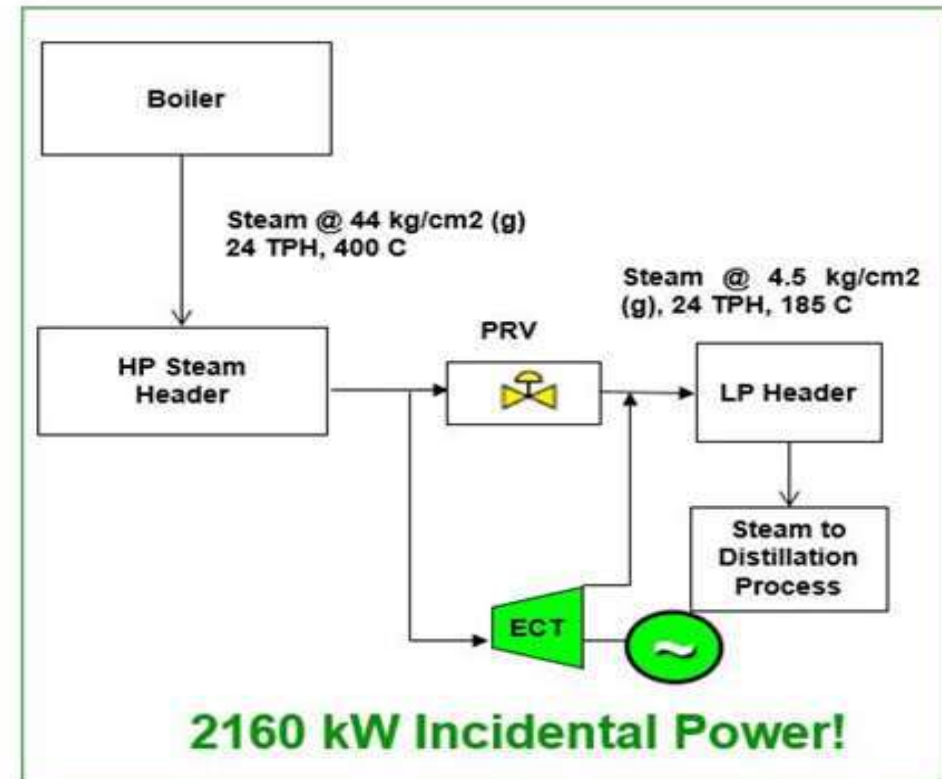
- In a distillery steam is specifically used for selective condensing and boiling in the distillation process after the molasses has gone through fermentation
- In areas or process parts that require steam, Steam from the boiler goes through header and travels through the PRDS/PRS where the pressure and flow of the steam is reduced and throttled as per the process requirement
- Multiple PRVs and PRDs are used in the production process that give an opportunity to generate incidental power
- The Turbotech ECT connected parallel to the PRDS/PRV uses this enthalpy to produce incidental

A CASE STUDY FROM THE DISTILLERY INDUSTRY

BEFORE ECT

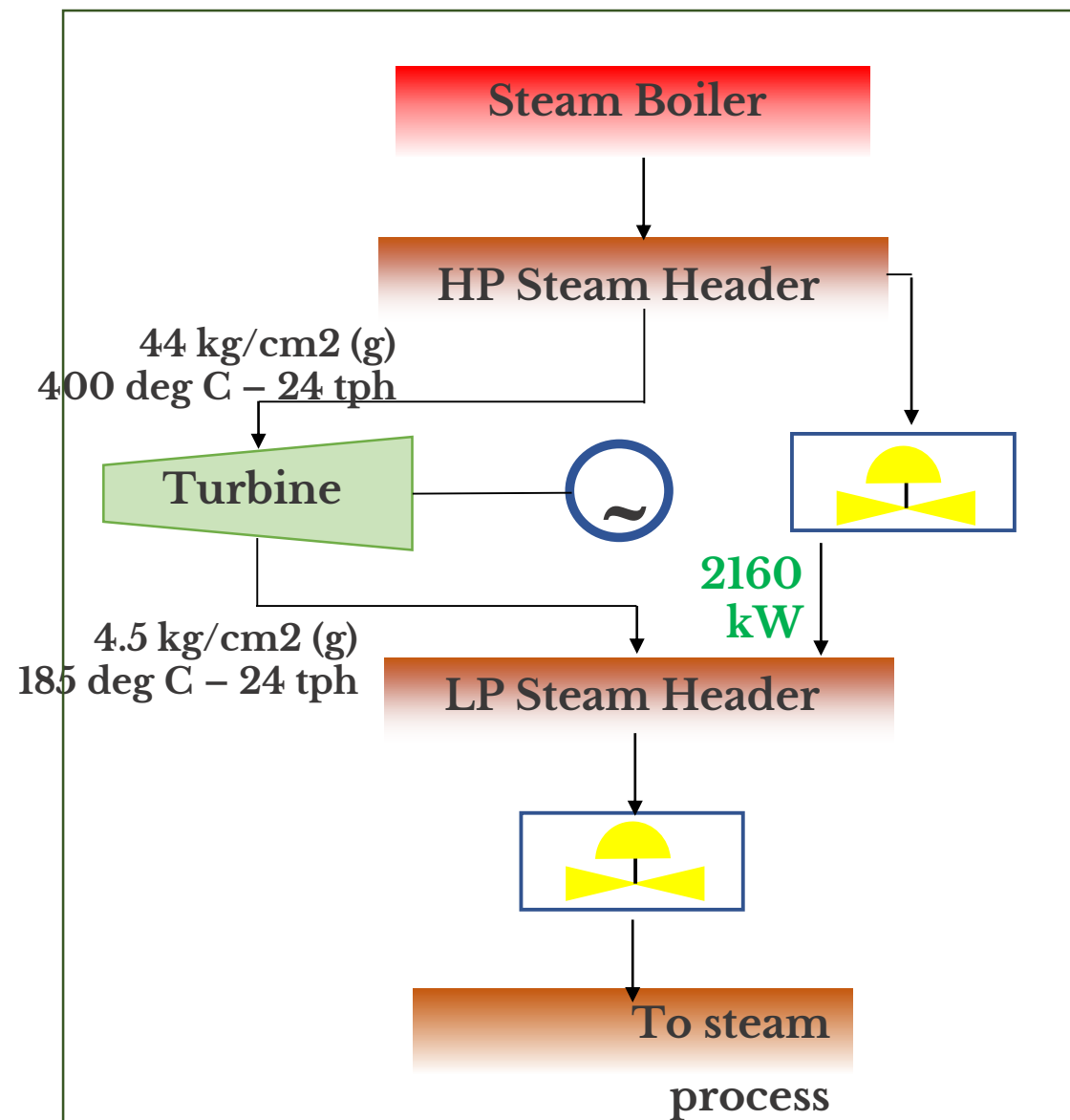


AFTER ECT



A CASE STUDY FROM THE DISTILLERY INDUSTRY

Sl No.	Description	Details
1.	Power Generated by Turbine (kWh)	2160
2.	Total min. Units generated yearly basis (considering 7200 yearly hours)	1,55,52,000
3.	Gross Yearly Savings (considering Rs 6/unit, for yearly unit savings)	₹ 9,33,12,000
4	Less- (Maintenance and consumables)	₹ 3,00,000
Total Yearly Savings		₹ 9,30,12,000



TESTIMONIALS



McDowell & Co. Ltd.

30

09.03.2001

TO WHOM-SO-EVER IT MAY CONCERN

This is to certify that we have associated ourselves with M/s. Turbo Tech Precision Engineering (P) Ltd., Bangalore, in field testing their Energy Conservation Turbine (ECT). We have three installations of ECT at our different factory locations running successfully for the past one year or more. Encouraged by the performance, we have placed order for three more units which are currently under execution. We are quite satisfied with the performance of the ECT's and the after sales/service support provided by Turbo Tech.

For McDowell & Co. Ltd.

D. DAS
General Manager-Technical



UNITED SPIRITS

Date 22nd June, 2013

To Whom So Ever It May Concern

This is to certify that M/s TurboTech Precision Engineering Pvt. Ltd, Bangalore make Back Pressure Steam Turbine Model ECT MK- 07, of capacity 340 kW commissioned in 2009 at our plant in Chennai, Tamilnadu has been running satisfactorily till date.

The performance of the Steam Turbine as committed and the service after sales is good.

For M/s United Spirits Limited

Authorized Signatory

SUMMARY



High speed, high efficiency
= Higher power generation
(8%)



Reliability of steam
wetted parts - lifetime



Cost of new turbine
house - minimal

E&C time of 7
days *vs.* 45 days



Overhaul
maintenance time of 2
days *vs.* 30 days



Emphasis on
safety – *Zero
accidents*





www.turbotechindia.com
marketing@turbotechindia.com