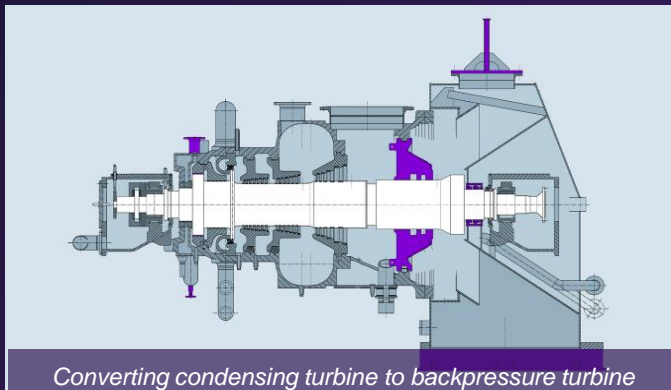
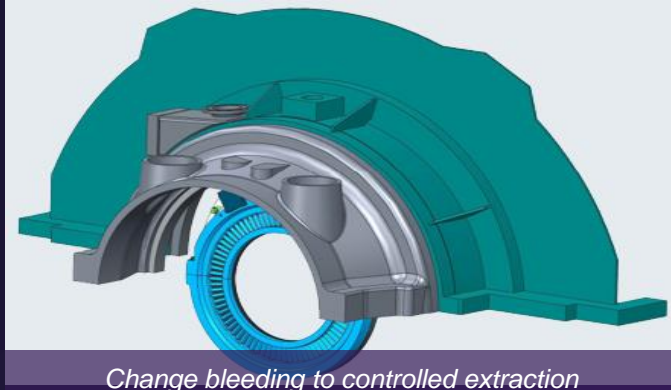


Revamp for Increased Heat Extraction

(Applicable for all SST Fleet)



CO₂ Up to 30,000 tons less CO₂ per year¹

Product Overview

Typically suited for customers having - Higher earnings for selling heat than power; Low electricity prices; Government subsidies for power cogeneration



Features

- Customized steam parameters
- New steam path to increase the lifetime expectancy of the turbine
- New turbine internals to provide maximum turbine efficiency
- Re-use of existing outer casing and auxiliaries contributing to reduced costs and shut-down time



Benefits¹

- In a recent success story involving a 6.6MW compressor driven IST in a Process Industry, we achieved,
 - ~13 MWth additional heat extraction
 - ~30,000 t/a CO₂ reduction
 - < 2 years in ROI
- Cost and productivity benefits from increased lifetime expectancy of the turbine
- CO₂ savings from fuel optimization resulting from shutdown of additional boilers



Scope of work & Implementation

- Increased heat extraction can be achieved in one the following ways,
 - Change bleeding to controlled extraction
 - Optimizing the existing steam path
 - Converting the condensing turbine to back pressure turbine
- The revamp is recommended to be done during a major overhaul. Existing structural components will be reused as much as possible



¹ Benefits depend on the unit type, MW, and application and will differ from customer to customer.