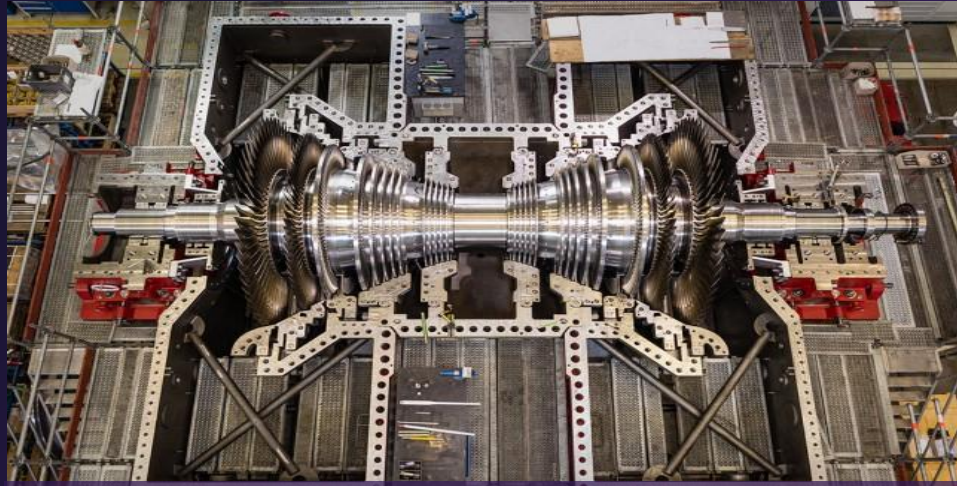


Steam Turbine Solution

for transitioning from Coal to Biomass



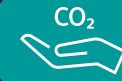
SST 500 currently in operation in a Bio-plant in Finland



Reliability



CO₂-savings



Up to 100% CO₂ reduction from the process

Product Overview

Suited for customers wanting to change their fuel source from coal to biomass



Features

- New turbine/ turbine internals to accommodate for the differences in boiler conditions between coal and biomass
- New steam path with optimized blading
- No modifications required on the existing piping and periphery



Benefits¹

- Let's assume that a customer in district heating want to change the heating fuel source from coal to biomass,
 - ~ 100% power output from sustainable resources
 - ~ 100% CO₂ savings when compared with fossil fuel emissions – Carbon emissions from biomass is part of the biogenic carbon cycle in which the plant simply returns the CO₂ that it used up to grow²
 - < 3 years in ROI



Scope of work & Implementation

- The transition process begins with a study followed by a customized new turbine revamp solution
- The revamp is recommended to be done during the implementation of the new biomass boiler



¹ Benefits depend on the unit type, MW and application and will differ from customer to customer
² [reference link](#)