

CASE STUDIES



Case Study 1



1.2MWe Back Pressure Single Stage Turbine in Indonesia





Turbine Details

1.2 MWe Backpressure Steam Turbo Generator unit

Challenge

Fluctuating process and power demand

Solution

Multi-functional hand valve to meet process demand and operate turbine with higher efficiency

Customer Benefit

Un-interrupted steam and power supply

Project Highlights

- Mill Capacity: 50 TPH
- Power required by the mill: 1000kW
- Boiler Parameters : 30 Bar/Saturated
- Boiler Capacity: 35 TPH
- Single Stage Capacity: 1200kW

Case Study 2



8 MWe Extraction Condensing Steam Turbine in Medan,Indonesia

Inlet Steam: 38 Bar

Inlet Temperature : 400 Deg C

Challenge

- Space constraint for future expansion as there was an existing 45TPH Boiler and TG unit
- Combined Heat and Power Solution for 3 different refineries and factories adjacent to the unit

Customer Benefit

Existing units replaced with highly efficient extraction condensing steam turbine to meet power and heat requirement of other units

Solution

- Modified the standard frame of the turbine to meet the existing site conditions
- Hybrid optimised efficient extraction condensing turbine offered with customised design
- Modern control and operating system

Case Study 3



5 MWe Extraction Condensing Steam Turbine in Surat Thani, Thailand

Inlet Steam: 30 Bar

Inlet Temperature : 350 Deg C

Challenge

Process steam required at 4.2 Bara (3.2 B arg) and variable flow from 12TPH to 18TPH during plant operation

Power export to the grid

Customer Benefit

Cost effective and Reliable solution

Solution

- Extraction Condensing TG set for variable process flow and maximum power export to the grid
- Water cooled condenser ,Gear box Double helical,Single reduction,Generator
- PLC base Control System

