CASE STUDIES

Triveni TURBINES

Case Study 1

Cement Plant in Satna,Madhya Pradesh

Turbine Details

22.5 MWe Injection Condensing Steam Turbine with Air Cooled Condenser

Steam Parameters :
Main Steam : 12 ATA,425 Deg C
Injection Steam : 3 ATA,200 Deg C

Challenge

Commercial usage of waste heat from cement kiln and After quenching cooler to generate power for energy sensitive cement plant as energy cost is almost 40% of the total production cost.

Solution

Triveni offered 22.5MW injection and Condensing STG (one of the largest in Indian cement industry) suitable for air cooled condenser with new generation blade design and reaction stages.

Customer Benefit

Waste gas at around 400° C is cooled to 130° C, thus safeguarding environment and simultaneously utilizing the waste heat to generate power which is almost free.

Case Study 2

Cement Plant in Guntur,Andhra Pradesh

Turbine Details

6.8 MWe Axial Exhaust Steam Turbine

Steam Parameter :
15 ATA , 387 Deg C

Challenge

Transforming a Brownfield project to Greenfield at Guntur, Andhra Pradesh by installing a 6.8MW Cement WHR system to Improve the overall efficiency of the existing plant. The waste heat collected from the cement kiln will generate the required power for the cement plant

Solution

Triveni offered an Axial Exhaust Injection Condensing turbine which met the customer requirement for the supply of required power to facilitate the various process at the cement plant

Customer Benefit

Higher returns and Fuel savings

POWER TO SUSTAIN DREAMS

THANK YOU

Triveni TURBINES

www.triveniturbines.com