

03 | RENEWAL OR RETROFIT OF STEAM TURBINES OF A CHP UTILITY



Type of project / service: Audit, Feasibility Study & Assessment

Client: Wärmeverbundkraftwerk Freiburg (WVK)

Location: Freiburg, Germany

Project scope: 4 man-months

Project description:

WVK produces electric power and heat for a large industrial customer, and provides approximately 40% of the electricity demand of the city of Freiburg. REINSTEIN was tasked to carry out a study to review an improvement of the existing steam turbines. In addition, the general framework for finding optimal modification solutions was to be elaborated. The new turbines had to be designed flexibly to accommodate future steam consumption changes.

In a first step, REINSTEIN conducted a detailed review and analysis of all possibilities and alternatives.

In a second step, pre-basic engineering activities were provided, and the results and calculated costs summarised in a comprehensive report, which formed the basis of WVK's decision about the solution to be implemented.

REFERENCES

In order to evaluate eligibility of the project for the German “KWK-Förderung” (CHP subsidisation program), the theoretical costs of the construction of new power plants of the same technical capacity were also calculated.

Project result:

„REINSTEIN has really convinced us during all project phases. In addition to the professional, systematic approach, we are particularly impressed by the high quality and informative value of the study findings”, as stated by Torsten Jung, Energy Supply Manager of Solvay Acetow.