



ENGINEERING SERVICES FOR ENERGY

ENERGY SERVICES
**COMBINED CYCLE
COGENERATION AND
THERMAL PLANTS**

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ESE ENGINEERING SERVICES FOR ENERGY IS AN ITALIAN
ENGINEERING CONSULTING COMPANY OF THE HIGHEST LEVEL
OPERATING WORLDWIDE IN THE POWER GENERATION INDUSTRY.
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COMBINED CYCLE, COGENERATION AND THERMAL PLANTS

ESE works on Combined Cycles and Thermal Power Plants from the very beginning of its history. Thanks to the acquired experience in these fields, ESE is capable to provide to its Customers several kinds of services:

- Feasibility Studies;
- Business Plan;
- Preliminary Design;
- Cost Estimation;
- Tender Documents;
- Conceptual, Basic and Advanced Design;
- Preparation of technical documents for Permits;
- Owner Engineering Services;
- Repowering Studies;
- Modernization for existing plants;
- Construction, Commissioning and Test Supervision.

In the last years ESE has often assisted Customers as Owner's Engineer, in the development of CCPP, preparing Conceptual Design and Tender Specification, evaluating the Bidders Proposals and participating to the selection of the EPC Contractor. Furthermore ESE has a long history in supporting the Owners of Existing Thermal Power Plants, providing studies for rehabilitation and improvement of the plants, typically in order to increase efficiency, reduce water consumptions, reduce the emissions, improve the waste management, including the change of the used fuel.

STEAM GENERATORS

ESE has a deep knowledge of the Combined Cycle and Thermal PP as a whole, but has also specific competences in Steam Generators. Thanks to the original partners' knowledge (*Breda, Ansaldo, Alstom*) and the further experience accumulated in the 20 years of its history, ESE is able to fully design new steam generators (both fired or HRSG), selecting the more adequate technology and defining all the technical parameters and surfaces for all possible fuels: coal, oil, wastes, biomass, flue gas and solar radiation. This expertise is well exploited also in the evaluation of steam generators offered by EPC or Boiler Manufacturer, when ESE acts as Owner Engineer.

Furthermore, ESE performs audits for its customer on existing boilers and plants, verifying the possible improvement and rehabilitation works, as well as estimating the remaining life of the equipment.

FOR INFORMATION AND REFERENCES PLEASE CONTACT US.





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