The “over riding” theme of the past ten years has been the emergence of lack of power that hit the industrialized country as well as developing ones. Renewable energy is just now taking the important role that Kyoto protocol stated in the recent past. Nevertheless the need of environmental acceptable, low cost, reliable electrical energy supply raised the high efficiency CHP (combined heat and power) plants as the most suitable solution to develop the growing market for the electric power.

Power conventional generation schemes are nowadays rating over 400 MW capacity including gas turbine (GT), high pressure heat recovery steam generator (HRSG), steam turbine (ST), condenser and relevant balance of plant (BOP). Very often more than 1000 MW capacity is installed in one power plant site.

The main Engineering Companies and EPC (engineering procurement contractors) usually provide careful feasibility studies, project management, construction expertise start-up competence for the main part of the system: the equipment related to the power generation namely gas turbine, steam turbine, main high pressure heat recovery steam generator.

The start-up of the plant (fuel oil tracing and heating, steam turbine heating and sealing, preheating, etc..) is granted by a minor, but not less important, part of the plant: the auxiliary boiler room.

BONO is able to provide, within the boiler room area, the complete engineered package suitable to produce the steam utility for power plant start-up.

BONO provides the knowledge acquired in many years of presence on this market related to the complete auxiliary boiler room produced as main components:

- Auxiliary boiler (water tube or shell and tubes) complete with economizer and superheater from BONO ENERGIA
- Water treatment plant (ion exchange or reverse osmosis type) complete with all auxiliary pumps from BONO ARTES
- Dosing station for additives (alkaline and oxygen scavenger) from BONO SEKO
- Tanks, pumps, accessories, cable, cable trays, control panels (with relevant interfaces to the main distributed control system in the centralized control room), piping, supports etc.. to deliver a complete package within the auxiliary boiler battery limits area by BONO SISTEMI.

BONO involvement is not limited to the supply but to the engineering service for the area is an important issue that has to comply with the more stringent specification of the Engineering Companies or EPC contractors.

BONO experience is witnessed by hundreds of projects successfully completed in the last 25 years and a list of the most significant cases is available upon request.

Primary power generation/utilites companies can benefit of BONO experience completing successful power plants constructions.

Client satisfaction is the “key word” that BONO Energia proudly uses for describing this successful case: the positive feedback from the customer confirms once more the reliability and engineering capability of the main Italian producer of industrial boilers.