

Annotation

The thesis deals with the design of energy technology complex on the basis of the boiler "Kokzhiak" in Almaty.

In the work, the selection and calculation of the main and auxiliary equipment in the boiler room before and after the design: the recovery boiler, fuel, gas turbine, turbine generator and other auxiliary devices. The main objective of the project is to generate electricity for their own needs (in the future for the neighborhood) with the help of a new mini-CHP. It consists of a type of turbine generator GTG-8-2R UHSL and gas turbine Siemens model SGT-400.

The economic section defines the cost of the project before and after the design. In the section "life Safety" technical solutions of ventilation.