

Annotation

The research paper considers the issues of reconstruction of CHP boilers for the refinery.

In work the choice and calculation of the main and auxiliary equipment in a boiler room before and after design is made: the heat recovery boiler, fuel, the gas turbine, the turbogenerator and other auxiliary devices. The main objective of the project is the frequency Converter of the regenerative air-permeable channel of surface heating of the variable regenerative air superheater simulation of heat transfer process.

In the economic part, work has been done to reduce capital investments and reduce harmful emissions using environmentally friendly resource-saving technologies that can quickly improve efficiency.

In the section of life safety, we have provided the area around the facilities and industries that have a harmful impact on the environment and human health.