

ABSTRACT

This thesis provides reconstruction of AIES CHP-1 with the conversion to gas turbines. Reconstruction involves the installation of gas turbines at the station type GTE-45U and HRSG type IMC-65.

In mechanical units, the thermal scheme of the GTU is calculated. And production costs and the total cost of the reconstruction of the station, the amount of harmful emissions into the atmosphere when working with solid fuels and natural gas combustion.