

## Annotation

This graduation project was developed on the theme «Reconstruction of CHP-1 JSC «AIES»», through the use of gas turbine technologies.

It is planned to install two GTU (gas Turbine unit) SGT-700, manufactured by Siemens and two hot water boiler type VKU-350-180, produced by JSC "Emalyans" in the building of the new main building.

The project performed thermal calculation, calculation of lightning protection of the new main building and calculated the cost of heat and electricity before and after reconstruction.