

Annotation

This thesis work presents technical solutions for the modernization of Zhambyl CDES. This project proposes the installation of network equipment such as NWH-125-7-15 for the generation of thermal energy.

A comparative calculation was made of the thermal circuit of the K-210-130 unit without a heat and power plant and taking into account its inclusion in the thermal circuit. Presented descriptions of the main and auxiliary equipment.

In the section of the economic part of the project, the calculation of the main technical and economic indicators of the plant is given, provided that the ZhCDES is modernized for heat extraction.

In the special section parts considered the use of turbine drives feed pumps for power units 150-200 MW thermal power plants.