

## **Annotation**

The diploma project, the reconstruction of HPS-1 of «Astana-energy» with the installation for co-combustion of natural gas and coal/fuel oil. The development of plant expansion in terms of minimizing technical risks, ensuring the reliability of energy supply, low capital costs and the best financial indicators of investment is the main objective of the reconstruction of HPS-1. The implementation of the reconstruction project of HPS-1 will provide heat to previously connected consumers without compromising the reliability of heat supply and the quality of the coolant.