

Annotation

This diploma project considered the development of proposals to improve the thermal scheme of JSC "Ales" CHP – 1. The equipment and thermal schemes of these stations are extremely diverse. A significant proportion of generating equipment represent the cogeneration turbines installed in the CHP, are part of a complex of energy supply, including the manufacturer (CHP), provider (district heating networks) and consumers of energy. It should be noted that heat networks have wear, reaching in some cases 70 percent or more, and consumers do not have sufficient automation. In such conditions, the efficiency of transmission, distribution and consumption of energy significantly affects the operation of the CHP. Particular relevance of the problem of improving the efficiency of the CHP acquires for power systems with a predominant share of combined heat and power generation, the number of which is very significant.