

### **Annotation**

The implementation of energy efficiency policies is currently one of the main tools for modernizing the housing sector. A successful policy of energy conservation and energy efficiency will ensure the country's energy and environmental security. In addition, energy efficiency will stimulate the introduction of new innovative technologies and solutions. Therefore, we prefer to automate the heat supply system and use it in combination, that is, in a combination of air and water.

Therefore, our next goal is to study the existing heat supply system and develop a new combined heat supply system with an analysis of the advantages and disadvantages.

Work includes: 63 pages, 9 tables, 19 figures, 4 applications; sources used - 18.

The graduation project consists of 3 parts:

The first section discusses the economic needs of the project, the characteristics of heat supply, and the modernization of the existing heat supply system. The second section discusses noise protection and calculates zeroing. The third section calculates the economic efficiency of the project.