Abstract

Thematic diploma topic: «Designing a system for remote monitoring of the display of electrical energy».

The thesis consists of an introduction, three chapters, parts «Life Safety and Labor Protection» and «Economics», as well as a conclusion and a list of used literature.

The introduction substantiates the relevance of the chosen topic, formulates the purpose and objectives of the study, indicates the object and subject of the study.

The first chapter is devoted to the study of theoretical issues, it reveals the concepts of: energy efficiency, energy conservation, energy consumption, the current state of the energy sector in Kazakhstan, and the subjects of the electric energy market.

The second chapter lists the types and types of electric meters, checking meter readings, technical requirements for electric meters, monitoring the quality of electric energy, improving the energy audit system, problems of energy conservation and consumption.

The third chapter contains a description of the Arduino platform, a description of the structural diagram of the platform, a description of the hardware, a photo resistor, a full description of the built circuit on this platform and the principle of its implementation.

The conclusion contains the main conclusions and suggestions.