

## **Annotation**

The diploma project is designed to develop a wind generator with a neodymium magnet. Considered technological and operational issues, as well as a program for obtaining information from the equipment. When developing the project, the microclimate was analyzed. To protect against lightning protection of the wind turbine, calculations of the technical characteristics of the cone-shaped lightning rod were performed. In the economic part of the work, the costs for the development of the project and the payback period are calculated.