

Abstract

The thesis consists of 63 sheets, including 21 figures, 7 tables, 17 sources of information, introduction, four sections and conclusion.

This thesis outlines the main provisions for improving the energy efficiency of mills of the dust preparation system. The first Chapter provides General information about mills used in the power industry, including energy fuel, the current state and prospects for the development of coal power, the technological scheme of a thermal power plant, and preparation for solid fuel combustion. Classification of mills and their characteristics, including the achievements and disadvantages of ball drum mills (SHKM), hammer mills, medium – stroke mills and fan mills (M-V). In the second Chapter, the type of mill for grinding solid fuel was selected, and a tangential hammer mill was calculated. In the third Chapter, the economic efficiency of the project was calculated. In the fourth Chapter, the emissions of harmful substances into the atmosphere were calculated.