

SUMMARIES

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MODELING AND FORECASTING OF CURRENT EXPENDITURE LEVEL ON ORE MINING AND PROCESSING ENTERPRISES OF UKRAINE

As the market of iron-ore raw materials has oligopolistic structure, the producers do not have the ability to significantly influence on the level of prices for its products, resulting in a significant growth of activity efficiency of ore mining and processing enterprises is possible only due to reduced costs. The cost structure and industrial features of Ukrainian mining enterprises was analyzed. These enterprises have considerable age of mineral deposits, complicated mining and geological conditions (waste rock, distance and height of transport), low energy efficiency (equipment with a lifetime of more than 40 years, old technologies).

It is substantiated that the application of economic-mathematical modeling in the process of managing production cost it is feasible to develop an individual model for each enterprise, taking into account the unique natural and technological conditions of each plant functioning. Economic-mathematical modeling in the management of production costs is a tool that makes it possible to objectively predict enterprise state in the future.

It is developed a model of cost for one of ore mining and processing enterprises of Ukraine, which takes into account the influence of the main factors – the level of material costs, number of employees and the value of fixed assets. It is formed three-factor multiplicative model cost that reflects the trend towards its growth under condition of growth of all the indicators listed above.

The proposed model could be used to predict costs level in future periods to assess the measures for its reduction and forecasting of enterprise activity results.