MODELLING OF THE INFLUENCE OF ENERGY-SAVING TECHNOLOGIES ON THE ECONOMIC DEVELOPMENT OF THE UKRAINIAN INDUSTRIAL REGION

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Author: Ganna Makarkina
Co-Authors: Tamara Merkulova

The estimate of the influence of investing in energy saving of sectors on the development of the industrial region on the basis a dynamic input-output model is considered in this paper. The model includes nonlinear investment functions, which characterize the dependence structure of the current inputs of the regional economy from investment in energy-saving technologies, taking into account the time lag between investments and returns from them. The choice of the most effective trajectory of the economic development of the Donetsk region for different variants of investing in energy-saving technologies of key industrial sectors is substantiated using this input-output model