

ENVIRONMENTAL INPUT-OUTPUT MODELING OF THE PRICING WITHIN NONLINEAR INTERSECTORAL LINKS

Topic: Environmental IO models 5

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The problem of including the ecological constituent in the price and the necessity of construction input-output models of pricing taking into account the terms of ecologic-economy equilibrium are analyzed. The issue of pricing based on the Leontief-Ford input-output model is investigated. This model is an important tool for the practical development of a number of predictions and quantitative estimates of the pricing process in terms of ecological and economic balance of a region or country. Since the main source of pollution is the production that is pollution is the result of the economic activity so this result must be reflected in the models of industrial and economical systems, particularly in the nonlinear input-output model. This nonlinear model can more fully identify the features of pricing activity and on the basis of it to forecast changes in price indices by changing certain elements of input-output balance.

The problem of the forecasting of the prices in ecological economy can be realized on the basis of the nonlinear input-output model of interagency environmental and economic balance, reflecting the simultaneous operation of two plants: main (the branches of material production) and secondary (the industry of destruction of pollutants). On this basis it is possible to realize the process of pricing in the ecological economy. These models have been taken to the proper equivalents.