

## **Analysis and forecast of industrial electric energy intensity for long-term forecasting of electrical energy consumption.**

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The article discusses the formation of reporting and forecast values of electric energy intensity by main types of economic activity. These values are necessary for developing a long-term forecast of electricity consumption, which is formed on the basis of forecast macroeconomic indicators in the absence of information about specific investment projects. The requested electric energy intensity is represented as a function of accumulated investments. A methodological approach has been proposed for determining these dependencies, based on which the electric energy intensity of the main economic activities has been predicted until 2042. The regional differentiation of electric energy intensity values is considered using the example of one industry. Based on the calculations performed, conclusions were drawn about possible changes of electricity consumption structure in the long term, depending on the economic development scenario.

*Key words: forecast electrical energy consumption, electric energy intensity, type of economic activity, regression analysis.*