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DISTRICT HEATING MARKETS ARCHITECTURE AND SCIENTIFIC AND METHODOLOGICAL SUPPORT FOR THEIR MODELING

The modern technological architecture of the Russian heat and power industry has developed as a whole by the middle of the 20th century, since then it has not undergone any qualitative changes and currently operates on the principles and technologies of those years. The liberalization of the Russian heat power industry, which began in the early 90's, made changes to the architecture of the heat and power system at the level of interaction between producers and consumers, i.e. the emergence of new (market) mechanisms for the agreement of interests among all participants in the process of heat supply to consumers. This served as the first step towards the creation of the Russian heat energy market.
The article contains an analysis of the consequences of liberalization of the heat and power sector on energy efficiency programs and policies. For this assessment, a comparative description of the architecture of district heating markets organized in the form of a competitive and monopoly model is given. As a computational toolkit for obtaining quantitative assessments of the consequences of the liberalization of the heat and power industry, a scientific and methodological sopports is proposed that allows you to simulate district heating markets of any capacity and scale, take into account the different types of heat sources and consumers, as well as take into account the physical, technical and economic properties of the systems in question

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