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DEVELOPMENT OF A SOFTWARE PLATFORM FOR THE DESIGN OF DISTRICT HEATING SYSTEMS

The paper presents a new methodological approach to developing a universal platform for the design of district heating systems. The reasons for the development of the platform are considered and a scientific statement of the problem is given. The main methodological results obtained during the development of the platform are presented. The description of the scientific and practical significance of the results is given.

A new methodological approach was developed using modern information technologies [1–3]. The methodological approach is based on the paradigm of Model-Driven Engineering [4–8]. The essence of this paradigm is that the software is generated on the base of formal description provided by the models. The proposed approach allows one to successfully solve the problem of separation of methods for solving applied problems and models of elements of a district heating system.

The paper describes the developed architecture of the software platform. A description of the architectural subsystems of the platform is presented:

- 1) the computing subsystem;
- 2) the graphics subsystem;
- 3) the database access subsystem.

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