FLUID SYSTEMS

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SimNet TSHeat

***SimNet TSHeat* - calculation package for dynamic simulation of district heating networks with built-in GIS support and free expansion of the inventory database.**

Key benefits of the software:

- ***Dynamic simulation of network operation*** - check network behavior for a set period. Enter the projected external temperature and see if each customer receives the appropriate supply parameters for the district heating node. Without the need to expose users to a shortage of hot water, simulate the effects of lowering the supply temperature at the source. Anticipate the effects of potential failures and see which consumers may be deprived of heat supply.
- ***Simulate the operation of heat storage tanks*** - carry out a hydraulic analysis of the operation of the network in cooperation with heat storage tanks. Investigate potential storage tank locations and benefits. Select a suitable storage tank size. Check the operation of your network with several storage tanks without any financial consequences!
- ***Ease of use*** - the intuitive application interface uses mechanisms known from typical Windows programs. After a short training session, users can use the program effectively and take full advantage of its potential (*see sample interface view on the back of this page*). The program has an in-built user manual, and in the event of problems, the support team is always on hand to offer good advice.
- ***Simulation without limits*** - perform network calculations of any structure and size. In the network model, you can insert any number of pipes and elements such as a source, district heating substation, shut-off valve, pressure relief valve, heat accumulator or pumping station. You can set individual parameters for each element, which can also change during the simulation. Create different simulation variants and compare the results so that the required parameters are achieved for the actual network.
- ***Relevant parameters at your fingertips*** - pressures, temperatures, heat capacities, heat losses, inflow times and many other values can be displayed according to your needs. Available forms of information viewing are, for example, database view, specific object data, display of labels on a map, display of values in the form of object color/symbol/size, display of piezometric charts with additional parameters, display of summary charts and much more.
- ***Reduce metering effort*** - verify simulation results by comparing them with measured results to calibrate the network model. Evaluate the quality of the telemetry system and metering equipment at critical points in the network and read the remaining data from the simulation results. Purchasing and maintaining redundant metering equipment is much more expensive than maintaining the software.
- ***Built-in GIS*** - display the network diagram on real underlay maps. The application is compatible with WMS, WMTS, WFS services and allows you to connect any external vector and bitmap user layers such as SHP, TAB, DXF, DWG, DNG, GIF, BMP, PNG and many others. In addition, the connected layer will be correctly embedded on the map thanks to the recognition of more than 5,000 different geographical coordinate systems.
- ***Plurality of functions*** - the application allows advanced filtering of the data available in the program and the creation of reports based on this data. Thanks to the built-in catalogues for pipes, control curves, consumption characteristics and more, you can quickly and easily supplement network performance parameters. The network itself can be imported from data in any vector format with just a few clicks.
- **Multilingual Support** – the application is available in 10 languages, making it suitable for users worldwide.
- ***Openness to users*** - we are the developers of the software and respond to the needs of our customers. The application is constantly being developed considering the needs of our software users.

We invite you to make an appointment for a presentation of the software and to discuss in detail its functionalities and discuss your needs

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