

Apros® District is a new and unique, integrated environment for the modelling of the generation, distribution, storage and consumption of energy in different forms, and their conversions. The dynamics of district heating, district cooling, gas and electrical grid systems can now be studied taking into account the dynamics of consumer models and e.g. complex renewable energy sources.

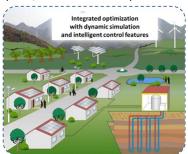
Apros® District includes complete model libraries and easy-to-use functionalities to efficiently build dynamic models of network pipelines, pumping stations, heat storages, producers and consumers. In addition, the product has comprehensive libraries for modelling the automation and electrical systems. It belongs to the Apros® product family, which has active users all around the world.

The potential users include power plants, district heating companies, energy service companies (ESCO), engineering companies, universities and cities. You will be able to predict operational situations, minimize disturbance and operating costs, and maintain customer satisfaction. Or you can optimize the network design, operating models and strategies, and transfer knowledge in your organization.

EFFICIENT MODEL CONFIGURATION AND VISUALIZATION

Apros® District has a modern and easy-to-use graphical user interface, which is used for the build-up of the model in an integrated and interconnected manner. This can be done through diagram views, and the Map UI has additional functionalities specifically designed for configuring district heating systems. And we can help you generate the model based on GIS data.

For the visualization and reporting, Apros® District has map based visualization UI with dynamic object colours, flow direction indications etc. Moreover, the product has an overview display with a list view of producers and pump stations, statistics of production, losses, demand and consumption, as well as master parameters.



Apros® District is independent from system suppliers, owned and maintained by the energy generation company Fortum and VTT Technical Research Centre of Finland.





MORE THAN A DISTRICT HEATING SIMULATOR

Apros®

District

- mastering the

dynamic

Apros® District is much more than a district heating simulation tool. It includes a complete set of library components for process, automation and electrical systems, and simulation capabilities for different fluids: water & steam, gases, oils, molten salt etc.

Apros® has open interfaces for adding user-defined correlations and simulation models, for exchanging runtime data (OPC UA / OPC DA) and model configuration data.

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The owners of Apros® are committed to long-term support and continuous development. Every release is systematically validated before it is delivered to customers. Different Apros® products are currently used by many different stakeholders: boiler suppliers, plant operators, nuclear regulators etc.

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