



## **NIRAS is appointed as the international integrator of HEAT 4.0**

**During 3 years, NIRAS has had the charge of leading the ambitious HEAT 4.0 project with 16 innovative partners from the whole value chain of the district heating system. The project is supported with 25 mio. DKK by the Innovation Fund Denmark.**

For the consultancy company, NIRAS, the role of an Integrator, defined in the HEAT 4.0 concept is a natural consequence of their daily work to support the district heating companies and operators. HEATman is the name of NIRAS' traditional consultancy work within this project, which consists of digital services and solutions, supporting the district heating operation with energy efficiency, secure and robust data services.

In HEATman, NIRAS applies especially the concepts developed by the HEAT 4.0 consortium, but also other contributors of relevant digital services and software solutions. Amongst these are NIRAS' own portfolio of digital tools, software and services: HOMIS for goal monitoring, LER for digital asset management and TERMIS for the planning of district heating networks.

The objective is to create digital synergy between any aspect of the system operation (production, distribution, consumption) for all district heating utilities in general.

### **Proven technologies**

Three district heating companies have been testing the solutions of the HEAT 4.0. These results combined with years of experiences in the application of digital and non-digital tools and services for district heating companies, NIRAS is today able to ensure high-quality, high-efficient holistic solutions to the sector.

### **NIRAS - a digital frontrunner internationally**

NIRAS is chosen by the HEAT 4.0 consortium as the international integrator for all digital solutions within the project, while Danish district heating operators can choose between any project partner to deliver a HEAT 4.0 solution.

Advantageously, district heating companies abroad can apply NIRAS as a single-point-of-contact from first analysis to final implementation of solutions.

### **PARTNERS:**

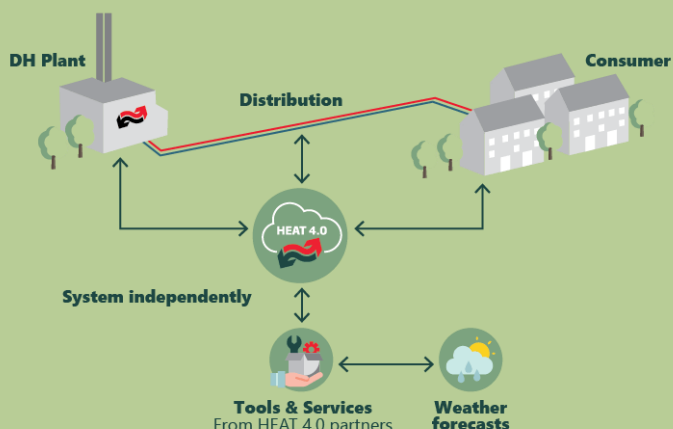
NIRAS (project manager), Dansk Fjernvarme, Brønderslev Forsyning, Trefor Varme, Hillerød Varme, Danfoss, Logstor, EMD International, Enfor, Neogrid Technologies, Leanheat (Finland), NorthQ, Kamstrup, DESMI, Center Denmark, DTU, and Aarhus University.

## A holistic digital district heating solution

HEATman delivers holistic, integrated and secure solutions across all parts of the district heating value chain. This includes Cross-System-Optimization from production and distribution to heat demand.

A new invented common cloud or locally integrated solutions ensures a minimal requirement for digital specialist for the district heating operators.

NIRAS integrates all tools, software and solutions from the HEAT 4.0 consortium to obtain the individual goals defined by each district heating company.



### More about HEAT 4.0

- Innovation Fund Denmark's investment: DKK 25 million
- Total budget: DKK 36 million
- Duration: 3 years
- Official title of Innovation Fund Denmark's project: HEAT 4.0 – Digitally supported Smart District Heating

#### New improved digital experiences

NIRAS has decades of experiences supporting the energy sector with professional consultancy and under the label of HEATman, NIRAS can add new valuable digital knowledge, competencies and solutions.

Data security is an essential and important part of the digital solutions. Within HEATman, NIRAS applies state-of-the-art security protocols recommended by

EnergyCert Denmark and internationally recommended communication standards to integrate data-sharing between involved software partners.

Besides HEATman, NIRAS may recommend other future-prove technical concepts as for example LEAKman and DRAINman.

#### Get in touch with us:



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