

# DEOS AG case study – Stadtwerke Hanau district heating network

## Remote monitoring of combined heat and power plants and reading of energy meters



In the east of Frankfurt, Stadtwerke Hanau operates as a municipal utility provider. The services include the supply of electricity, natural gas, (district) heating and drinking water. A partnership with Mainova AG, which has a 49.9 % stake in Stadtwerke Hanau, has been in place since 2003.

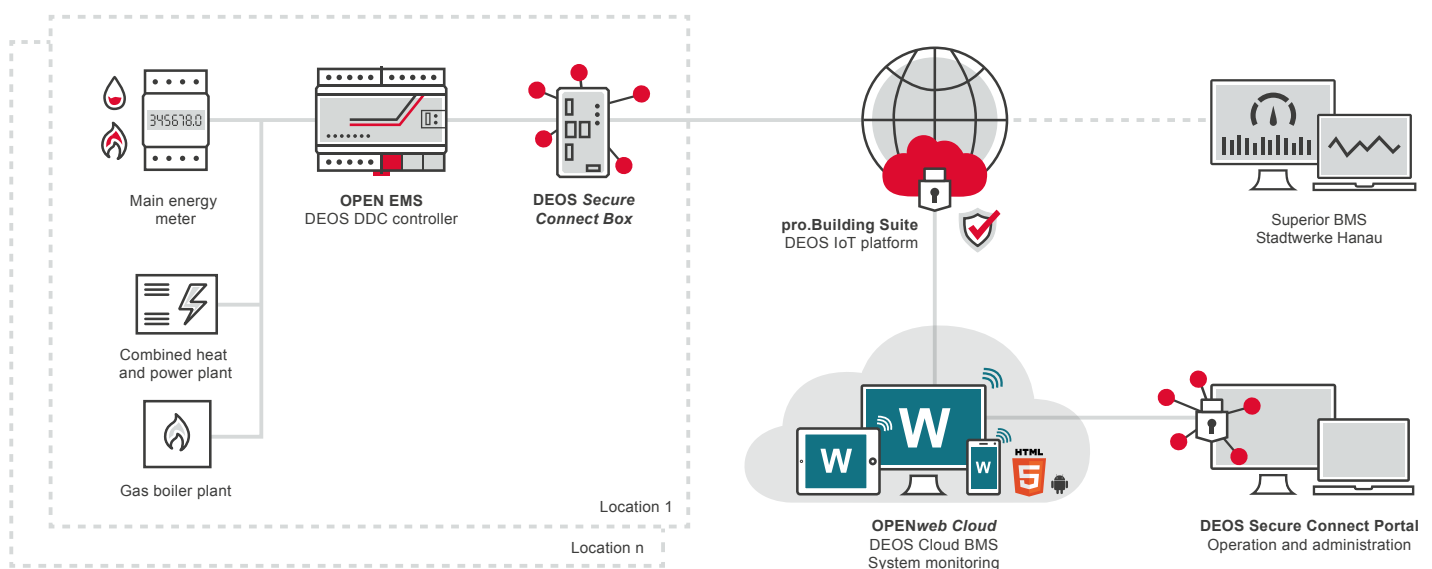
Stadtwerke Hanau has been firmly rooted in the Hessian region for 175 years.



**Stadtwerke Hanau** offers its partners efficient **energy contracting solutions** for a smart power supply. The goal is the sustainable, decentralised and secure provision of electricity and heat for customers. Our long-standing, certified DEOS partner **EMSR-Technik GmbH** from Echzell (north of Frankfurt) has impressed the municipal utility company with this DEOS solution.

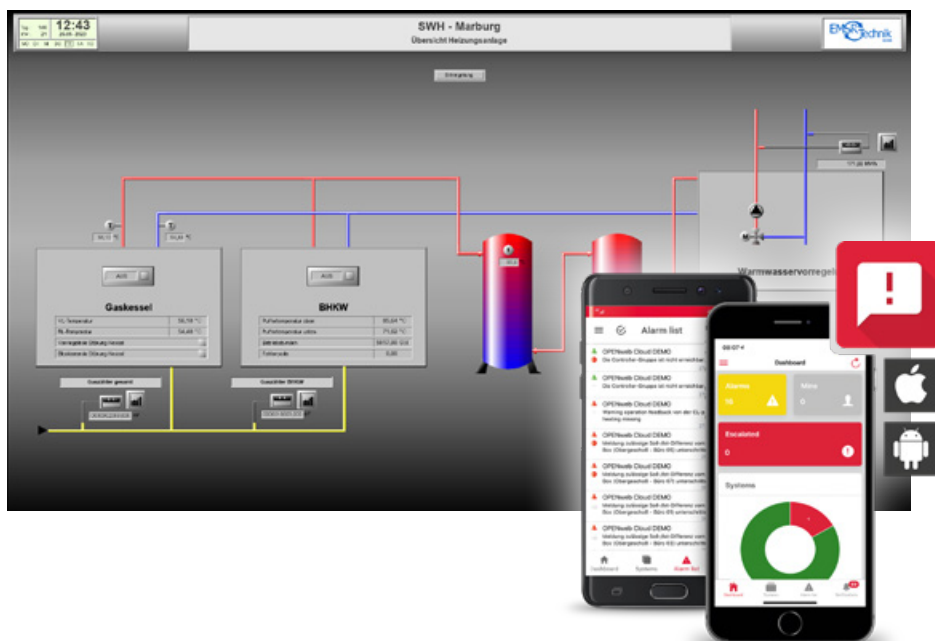
## Local heating systems remotely monitored with Connect Box

A solution was sought for remote maintenance and operation monitoring of the distributed combined heat and power and gas boiler systems. The main energy meters at the five current locations also had to be remotely readable, and the data centrally stored and processed. Stadtwerke Hanau opted for the DEOS solution:



## Secure system operation with DEOS – remotely monitored

The DEOS remote maintenance solution consists of the **hardware boxes (DEOS Connect Box)** for connection to the **DEOS Cloud** and the **Connect operating/admin portal**. In combination, the solution is optimised for easy installation and operation, maximum IT security and the integration of (vendor-neutral) third-party systems.



With this solution, the system data is transferred to the in-house developed IoT/Cloud platform of the DEOS pro. Building Suite. The DEOS Cloud BMS OPENweb uses this data for visualisation, system monitoring and operation. At the same time, the operating data is documented and forwarded to the higher-level control technology of the municipal utility company.

The resulting integrated solution contributes to the smooth operation of the system and the continuous supply of power to the customer.

### Alarm monitoring via DEOS app

The operating and error messages are also transmitted to the cloud-based control technology via the free internet in an IT-secure manner. In the event of an operating alarm, the Stadtwerke service team receives the system messages on the mobile DEOS *Secure AlarmApp* – quickly and directly on the smartphone. In this way, the service call is processed swiftly and efficiently and any downtimes for the customers are significantly reduced.

### Energy meter reading – automated and error-free

The **DEOS Connect Box** offers extra added value because now the technician no longer has to travel to the remote properties to read the meters manually. This saves staff resources and time, fuel for the car (CO<sub>2</sub> emissions) and avoids manual transmission errors into the energy management system (EMS).

Today, the **meter data** is transferred automatically via the API interface of the **DEOS pro.Building Suite®** to the existing **energy management system of the municipal utility company**. There, the data is further processed for billing and customer information purposes.

### Would you like more detailed information?

Please contact us directly!

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### Technology at a glance

- **DEOS Connect Box**  
5x on-site/remote connections for IT-secure data networking
- **DEOS Cloud BMS**  
1x OPENweb Cloud for system monitoring
- **Remote energy meter reading**  
Connection and visualisation on the DEOS IoT/Cloud platform
- **DEOS IoT/Cloud-Plattform**  
The DEOS pro.Building Suite® for data storage, processing and transmission

### Our certified DEOS Support Centre Partner

**EMSR-Technik GmbH**

Responsible for planning, control cabinet construction, implementation, commissioning, documentation, etc.

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