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Cost-efficiently modernising heating networks

Experts design scenarios for Duisburg's heating supply

In the last thirty years, the population of Duisburg has declined by more than one-fifth with a simultaneous reduction in the heating requirement. On behalf of the municipal utility company, an engineering company has investigated how the heat supply can be adapted to this development. The BINE-Projektinfo brochure "Future heating supply designed" (16/2015) describes possible scenarios.

Based on the characteristic values for 2011, the experts investigated how the network structures could be optimally designed in future and whether a change of energy sources would be useful. They simulated the possible heating supply for the years 2020, 2025, 2030 and 2050.

Above all, connecting the Central/West/South district heating network with the adjacent district heating system proved to be a sensible solution. This would improve the utilisation of industrial waste heat and the primary energy efficiency would increase. The connection between the two networks is currently being checked as part of a planning approval procedure.

In many areas of Duisburg there is a parallel distribution of heat and gas. This is not always sensible and the engineers investigated in which areas the customers should be primarily supplied with gas or district heating. They also defined areas where a parallel supply continues to be appropriate.

The BINE-Projektinfo brochure, which can be obtained free of charge from the BINE Information Service at FIZ Karlsruhe, is available online at www.bine.info or by calling +49 (0)228 92379-0. The brochure cover and additional images can also be downloaded from this web portal in the press section.

Contact
Uwe Milles
presse@bine.info

BINE information service
Kaiserstraße 185-197
53113 Bonn
www.bine.info