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Continuous optimisation of heating systems for building management

New quality assurance procedure for office and school buildings

In large buildings, a great deal of energy can be saved when heating systems and other building services equipment are more precisely adjusted. For this reason, a research project has focused on developing procedures and instruments which ensure automated recording of operating data, analyse errors and display optimisation options. The BINE Projektinfo brochure, "Optimum operation of heating systems in buildings" (05/2013) presents the concept and initial operational results in demonstration buildings.

In new buildings, or buildings which have undergone thorough modernisation, all data from the heating system can be recorded and analysed via the building control system without requiring further structural changes. The figures and charts provide owners and building technicians almost all data relating to the operating behaviour of the systems. By making fine adjustments using time programmes, the correct setting of heating and cooling curves, adjusting the pump capacity and a wide range of other measures, up to 30 percent energy can be saved. The aim is to evaluate the quality of the building services equipment for all trades, to detect deviations from the required behaviour at an early stage and to continuously monitor and optimise operation.

The new procedure is currently being developed by the Fraunhofer Institute for Solar Energy Systems (ISE) in Freiburg, with partners from the scientific and industrial fields. The work is due for completion at the end of 2013. The approaches are currently being tested in seven larger office and school buildings.

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 image material is also available for download on this web portal in the press section.

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