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ENERGY SAVINGS FOR RESIDENTIAL HEATING IN TWO PAIRS OF BUILDINGS IN NEW BELGRADE ACHIEVED BY MEASURING ACTUALLY CONSUMED ENERGY

ABSTRACT

The paper presents results of heating energy consumption measurements in two pairs of buildings in New Belgrade for two heating seasons. Influence of these measurements on energy savings is also presented. The measurements were carried out during heating seasons 2002/03 and 2003/04 in buildings in Block 34 and 63 in New Belgrade, connected to the district heating system "Beogradske elektrane". The buildings in each pair have had similar architectural and thermal characteristics. One of the buildings in a pair was "test" building and the other "control" one. In the "test" building the energy consumption for heating of each apartment was measured, as well as total energy consumption for the whole building in the substation. Occupants were able to regulate the heating system. In the "control" building the energy consumption was measured only for the whole building, and occupants had almost no impact on heating energy consumption. The comparison of energy consumption for heating in the "test" and "control" buildings is given in the paper, as well as analysis of the influence of energy consumption measurements on the achieved energy savings.

KEYWORDS

[district heating system](#), [heating consumption measurement](#), [allocators](#), [energy savings](#)

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REFERENCES [view full list]

1. Živković, B., Vasiljević, P., Todorović, M., The Influence of Measuring Energy Consumption for Residential Heating delivered by District Heating System on Energy Savings, Symposium of Thermal Engineers Society of Serbia and Montenegro, Zlatibor, 1-4th October 2003 (in Serbian).

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2. Živković, B., Vasiljević, P., Todorović, M., Measurement of Energy Consumption from the District Heating System in the Block 34 in New Belgrade, KGH Journal, No. 4/2003, pp. 39-44 (in Serbian)
3. Živković, B., Todorović, M., Vasiljević, P., Savings of Energy for Residential Heating in a High-rise Building in New Belgrade achieved by measuring Actually Consumed Energy from the District Heating System, KGH Journal, No. 2/2006, pp. 33-37 (in Serbian)
4. *** Project report on Buildings Characteristics in which Energy Consumption for Heating is Measured, No. 06-20-2.9/2002, made for Ministry of Science, Technology and Development of the Republic of Serbia, Belgrade, 2002 (in Serbian)
5. *** Project report about Methodology for Measuring Energy Consumption for Heating, No. 06-20-5.12/2002, made for Ministry of Science, Technology and Development of the Republic of Serbia, Belgrade, 2002 (in Serbian)
6. *** Project report on Results achieved by Measuring Energy Consumption for Heating, No. 06-20-20.10/2004, made for Ministry of Science, Technology and Development of the Republic of Serbia, Belgrade, 2004 (in Serbian)

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