

Annotation of the paper

1. Title: Environmental and Financial Consequences of Heating System Change – Using example of dormitory No. 4 MBU

2. Author's names: Matej Molčan, Žygimantas Bajarūnas

3. Year of Study and Study Specialisation: BEM

4. Consultant: doc. Ing. Dana Švihlová, PhD.

5. Content:

This work deals with alternatives of heating systems, their environmental and economic consequences. Five main factors are taken into account; firstly, capacity and efficiency of heating boilers, secondly, fuel price and availability and, finally, environmental impact of different fuel types. Calculations are made on the crucial decision making aspects concerning the heating system change; investment return and environmentally-wise, emissions. The work promotes usage of renewable resources and implementing of responsible thinking into our lives. The calculations of savings are made on an example of the dormitory No.4 MBU and further analysis and evaluation are presented.

6. Key words: heating system, heating fuels, biomass, CO₂ emission reduction,