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“INTEGRATING CLEANER PRODUCTION INTO SUSTAINABILITY STRATEGIES”

Minimization of Mass Flow in District Heating Network Equipped with One Stage Domestic Hot Water Production Substations

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Abstract

The paper presents the possibilities of decreasing the mass flow in district heating system supplying district heating substations for residential buildings. In majority of district heating system in Western, Eastern and Central Europe the type of district heating substation with two stages of domestic hot water preparing is deeply rooted. The main aim of the paper is to show lack of arguments for grounds to use this technical solution in contemporary district heating networks. On the basis of computer simulation, the possibilities of decrease the mass flow and electrical energy consumption in heating (power) plant have been presented.

Keywords: *district heating system, domestic hot water, DHW priority, energy saving*

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