

result. It is important to note that purified wastewater can also be used for irrigation of grass areas, especially in rural areas without significant influence of industry. The use of rainwater, which is particularly significant in volume if it is collected from bigger surfaces (roofs, eaves and similar residential/commercial buildings in urban areas, larger stadiums) satisfies the economic, environmental and social sustainability targets not only for the system analyzed, but also for its environment. This solution fits into global and European strategies and guidelines related to the reduction of greenhouse gasses, increasing the use of renewable energy sources and energy efficiency increase.

Further research would consist of more accurate determination of available quantities of storm water with regard to return periods and probability of occurrence. This would be especially evident in case of collected quantities of rainwater which could, to a larger extent, satisfy the needs for water and reduce the amount of exploited groundwater or water from some other source (natural or artificial lakes and/or water courses). There is also a plan for further sizing of the irrigation system for the balancing periods longer than one day. It is also foreseen to apply the methods of multi-criteria decision methods with respect to economic, environmental and social criteria.

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