

Good practices of water reuse as part of a circular economy (EC) implementation in Poland

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Circular economy (CE) concerns rational use of resources and introduction of sustainable methods of waste management. The most important resources that determine the functioning of both people and enterprises are water resources, which are under increasing pressure. This leads to water scarcity and deterioration of its quality. Therefore, actions aimed at the reduction of possible consumption of water resources, but also the way of their exploitation, ensuring water reuse, are currently being promoted by the European Commission (EC), which in 2020 published a new regulation on minimum requirements for water reuse.

Paper aims to discuss a problem of reducing the availability of fresh water in Poland, followed by a discussion on the state of water resources in the country and inventory of good practices in the field of water reuse. One of the good examples of water reuse is implementation of a model solution for the management and recovery of rainwater (GreenLife technology) at the Innovative System Station in Sędziszów Małopolski (South Poland). The train station toilets are supplied with rainwater, purified in the biological-mechanical filtration process. The further development of new methods and technologies that allow for the improvement of water use, its saving and reuse in the future is of key importance for the implementation of CE in Poland, and in the world.

Key words: circular economy (CE), good practices, water, water reuse,

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