

THE ROLE OF ENVIRONMENTAL RISK ASSESSMENT IN JUDGMENT OF THE ECO-TECHNOLOGIES (ON THE EXAMPLE OF WASTE WATER TREATMENT)

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ABSTRACT

The objects of urban infrastructure (such as waste water treatment constructions) are characterized by high level of environmental dangerous. So there is a necessity to find out new environmental safety and cost-effective technologies for environmental friendly exploitation of the urban engineering systems.

The paper presents a comparative analysis of the advantages and disadvantages of the traditional and new technologies of the waste water treatment basing on the environmental risk assessment results. Environmental Risk Assessment (ERA) is one of the tools of environmental safety management which includes overall process of risk analysis and risk evaluation aimed on identification, prediction and management of the environmental risks. The municipal waste water treatment plant and pilot constructed wetland is used as samples for analysis.

Highlight is on the specific features of WWT-technologies using and describes potential environmental risks that can arise during their exploitation and possible ways and approaches to manage these risks. The aim of the paper is to introduce environmental risk assessment procedure as an important element of the statement of the eco-technologies using in waste water treatment field.