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RETROSPECTIVE ANALYSIS AND DEVELOPMENT PROSPECTS FOR THE INDUSTRIAL WASTE MANAGEMENT CONTROL SYSTEMS

One of the most important issues of our time is the introduction of the resource saving technologies in the manufacturing process. Development and implementation of such technologies are constrained not only by the technical development of the industry, but also by the normative legal aspects of waste production. In order to identify all the significant factors increasing the attractiveness of resource production technologies introduction, it is necessary to examine the changes in the basic principles of the waste management systems in Russia and industrialized countries.

The paper presents an analysis of the development of control systems in waste production from the stage of unmanaged education and uncontrolled waste disposal to the environment before transition to resource management. The urgency of the transition to resource management strategies in the field of waste management is discussed.

As the best practice waste management deals with the experience of Germany and Austria, where individual integration elements of waste management system are implemented into the overall development strategy of the territory. In particular, it suggests that it is possible to deal more effectively with the strategic objective of minimizing the use of primary resources through better use of the resource potential of waste in the process of comprehensive utilization and recycling, including the sharing of heterogeneous waste. In Russia the implementation of such practices is difficult due to the isolation of Territorial Administration from the businesses located in the area.

Basing on the analysis of the systems of waste management the basic requirements for the control system of waste management were set out in order to achieve environmental targets, efficient environmental management and sustainable development of the area.

Control systems in waste management must meet the following requirements: be environment-friendly (to ensure an acceptable level of technological environmental load generated during the waste management); preventive (provide conventional hierarchical order of waste management); integrated into the overall strategy for environmentally friendly state and further sustainable socio-economic development of the territory.

Key words: production, waste management, preventative systems, integration, anthropogenic load, resource potential, resource management, Perm region.

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