

# Comparative Analysis of Innovative Technologies on the Example of Non-Combustible Residues Disposal

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## key words

analysis, information, desirability, criterion, technology, utilization, expert

I researched a method for benchmarking and categorizing innovative technologies using a fuzzy modeling methodology. As an example, the utilization of non-combustible residues formed during the thermal destruction of industrial waste was used. Thermal destruction technologies make it possible to reduce the volume of production waste disposal, ensure their disposal for further use. At the same time, it is necessary to use to the maximum the large-tonnage unburned residues that are formed during the thermal method of waste disposal.

Comparative analysis of innovative technologies makes it possible to evaluate the multiparametric nature of alternatives and the categorization of innovative technologies based on generalized criteria using the Harrington function. Innovative technological directions for the utilization of non-combustible residues are evaluated in terms of their environmental friendliness, as well as resource- and energy-saving and economic efficiency of implementation. Thus, the applied fuzzy modeling methodical approach can be used to rank innovative technologies and plan pilot tests.

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