

## **THE SYSTEM APPROACH TO ORGANIZATION OF WASTE TREATMENT IN CITIES OF UKRAINE**

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Chief objective of organization of the manipulation with the household waste in cities of Ukraine - to ensure cleanliness of natural environment of city and maximal economic benefit from recycling waste.

The manipulation with the household waste includes planning and realization of measures of ecological, organizational, technical, legal, economic and social character. The realization of these measures, which are incorporated in the appropriate program, should positively affect an economic, ecological and social situation in city.

The offered system approach enables more rationally to use available resources, to capture wider field of activity on the initial stages of introduction of the program, to ensure mutual support of measures.

The purposes of the first and second level of the manipulation with waste are formulated, their structure is determined.

System of the purposes of recycling household waste is very bulky. To achieve economic benefit from processing waste, it is necessary to realize a number of the interconnected measures. All of them require the certain expenses of material means, time and work. In the majority of cities of Ukraine, in which such work began or only begins, to find resources for performance of all complex of works in complete volume it is almost impossible. Therefore before of management of a city there is a task how most effectively to use available resources consistently to achieve object in views and to minimize losses from partial (not complex) decision of problems, which in case of deficiency of resources are wholly justified.

The system analysis of a situation with the household waste shows to achieve the specified purposes a sequence and contents of works on recycling waste should look the following manner.

**1. Creation of working group and the program of actions with a waste in city.** Is formed at executive committee from among the experts of different directions, including science officers. Structure of group and its chief affirm by the decision of the executive committee. The group develops structure and contents of the program and represents them on the statement executive committee, develops mechanisms of the control of performance of the program and its correction.

**2. Creation of a urban control system of a waste treatment.** With the purpose to supply appropriate cleanliness of natural environment of city, it is rational to use urban and suburban territories for accumulation and preservation a household waste, to create and to involve effective mechanisms of influence on the population and enterprises of city concerning motivation of their activity concerning recycling household waste, to ensure supply processing a household waste in maximal volume, to make processing waste in city by profitable business. .

**3. Rating of a status of the collection and processing a household waste:** the analysis of a status to ensure processing household waste in maximal volume to make processing a waste in city profitable, a waste treatment in city, ecological situation, status of preservation waste on garbage dumps and ranges, and also in territories of the industrial enterprises, problems connected to preservation and recycling. On the basis of the analysis the appropriate rating of a status with household waste is made.

**4. Work with the population concerning its participation in recycling waste:** information influence of the message through mass media, meeting of the workers of management with the

- inhabitants of houses or microareas;
- administrative influence - finishing to the population of city of the information about its administrative and criminal liability for infringement of the state laws from protection natural of environment and for

default of the decisions of local bodies of authority, for drawing of harm natural to environment of city;

- economic influence - application of economic stimulus directed on motivation of the inhabitants to carry out sorting and delivery a household waste in items them reception.

**5. Work with the enterprises, which make a household waste:** finishings to the enterprises of the appropriate requirements concerning the collection and accumulation a household waste in the territories, about their delivery on recycling, economic benefit from cooperation with the enterprises for processing a waste attraction to the responsibility of the chiefs of the enterprises in case of infringement of the laws or decisions of local authority concerning recycling of a household waste.

**6. Work concerning creation of the enterprises for processing a waste:** assistance in creation of the enterprises, assistance concerning maintenance it by all kinds of resources, including qualified staff, appliction of effective technological processes, definition together with a management of the enterprises of the most urgent directions of activity, fastening them in the markets of selling, advertising of their production and conclusion of the contracts on delivery a waste and selling of a production.

**7. Work with ranges:** closing unadapated and creation of new ranges for the waste, the arrangement of working ranges agrees of sanitary norms and norms of safety for the population, distribution of the sanctions on creation of new ranges and closing what do not respond working sanitary norms, maintenance of appropriate modes of functioning, and also authorized access on territory of a range.

**8. Creation of system of cities monitoring for the manipulation with household waste.** Such system should include organs of the sanitary and ecological control of environment, bodies of local authority, deputy commissions, population of city, public organizations. The results of the control are used by a control system of city.

**9. Creation of economic mechanisms stimulation of achievement of the purposes on processing and recycling waste.** The success of the program of the manipulation with the waste will be defined appreciably by force of motivation and respect of the law all of its participants. The control system should effectively use both influences.

**10. Cooperation of a control system with group of development of the program recycling waste:** initiation of modification in the program (entering or exception of the program of separate measures, specification of their volumes, change of sequence of their performance, replacement of the responsible persons).

**11. Cooperation of a control system with groups of the experts, which carry out ecological audit:** interaction with groups, which carry out ecological audit on directions. On the basis of the information, which is given by auditors, the control system together with group of development and support of the program carries out its constant correction.

**12. Cooperation of a control system with executive committee of urban advice:** the reporting before a management of executive committee, entering of the offers concerning improvement of functions and structure of management of the manipulation with household waste, reception from of the instructions and recommendations rather of more effective performance of the direct functions, assistance from the party of executive committee to performance of the program of the reference(manipulation) with household waste.

The results of the given research can be used as the developers of the program of the manipulation with household waste, and workers of a control system of the collection and recycling a household waste.