

Hazardous Household Waste in the Municipality of Athens: qualitative and quantitative characteristics

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Hazardous Household Waste (HHW) is a group of hazardous waste, which are produced by households and so far, they are disposed off through the municipal solid waste (MSW) stream. Although the necessity for their separate collection and safe management is identified by the EU legislation (Directive 2008/98/EC) as well as by the national legislation (Law 4819/2021), the specific types of waste that constitute HHW are not yet explicitly defined. Furthermore, in Greece there isn't a detailed analysis of the MSW content of HHW based on updated actual waste production data. The current work was performed in the context of Action A.2.4 "Preparatory Studies for the integrated management of hazardous household waste" of the on-going LIFE-IP CEI-Greece "Circular Economy Implementation in Greece" project (LIFE18 IPE/GR/000013). Within Action A.2.4, (a) a detailed catalogue of HHW and their classification according to EWC, (b) the methodology for measuring the qualitative and quantitative characteristics of HHW, and (c) the methodology for identifying the current knowledge status of the citizens regarding HHW, were developed. These tools were applied in the Municipality of Athens, which is a typical, high density urban case study. The extracted outcomes of the results' analysis, provided the necessary data to design a set of actions for the different categories of HHW, that form an integrated approach towards their separate collection and safe final management. These actions will be applied at pilot scale in the Municipality of Athens during the forthcoming phase of the LIFE-IP CEI-Greece project.

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