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### **Analytical study of municipal solid waste (MSW) treatment methods in Algeria**

This approach represents an analytical study of municipal solid waste (MSW) treatment methods in Algeria through work on two technical landfills, which one represents large cities with a population of over 4 million Algiers (Hamissi Center), whose daily supply exceeds 4000 tons, and the second in Tebessa a small town in Algeria, where the daily quantity reaches 200 tons of (MSW). The study focused on the technical reasons that prevent the use of sorting techniques used around the world. It has become necessary in view of the continuous increase of this waste which we consider as one of the rich and useful sources of raw and secondary materials in countries around the world, in order to maximize the rate of recovery of mixed household waste which has not undergone any sorting or pre-isolation of their components. As is the case in most developing countries that have not yet adopted this civilized behavior in a generalized and efficient manner, such as Algeria, through the activation of recycling techniques and the reproduction of these raw materials. In

a concern of balance between the continuous increase in its demand and the state of exhaustion which threatens these natural resources. The study concluded that there was a need to develop technical sorting systems compatible with the specificity of the components of Algerian household waste.

#### **Biography**

Khaled Rais has received the award for the most important experimental research from the Algerian Ministry of Environment for the year 2020 for obtaining two patents from the Algerian National Institute of Industrial Property INAPI, through the design of a technological chain for sorting household waste commensurate with the properties of its components that are affected by the consumer behaviors of the Algerian society, as well as the methods of collecting, transporting and treating. He has also worked on developing methods for the exploitation of organic fertilizer for more than 25 years.

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