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New system of solid municipal waste management in Russian Federation

In 2018 it has been decided in Russian Federation to launch the Federal program, within the frames of which starting from January 2019 the new system of Solid Municipal Waste (SMW) management should operate in Russia, which will create the modern scientific base and particular enterprises, which will allow Russian Federation to come up on the level of the countries, pioneering in this field. In this report we will report shortly, how this new system will operate. It includes several stages. First of all, the separate collection of SMW by population: one part-dry (paper, cardboard, plastics, glass, metals), second part-humid (food and vegetation residues). These two types of waste the population will collect separately in two types of different containers, which will be installed close to the living areas. The containers will be supplied with special sensors, which will inform specialists, responsible for SMW logistic, about the fulfillment of the containers. The second stage-the separate logistic of SMW, separately collected by population, to the complex centers for professional extra sorting of waste. According to the first data the educated workers collect 60 to 80% of useful fractions of dry waste and 5% of humid waste. At the third stage the separate logistic of extra sorted MSW to the enterprises of recycling separated dry waste into secondary resources is performed. Humid organic waste will be recycled into compost and partly, into electricity. The modern enterprises for composting and four Japanese-Swiss plants according to Hitachi-Zosen-Inova technology for high temperature recycling of waste into electricity are now-a-days under construction in the Moscow region. This type of MSW recycling has been widely used during the last decade in the most developed countries around the world. More than 500 of such plants are effectively used in Europe, Japan, China, USA, Canada, Brazil, Australia and many others. More than 150 of such plants are in the process of building in other countries. Those plants are safe according to the analytical data for the composition of gases, emitted from the plants. This is why these plants are built even within the borderlines of big megapolises. We hope, that due to the new system of MSW management we will achieve our goals.

Biography

Valery S Petrosyan has received his PhD at Department of Chemistry of M.V. Lomonosov University, Postgraduate research at Caltech and DSc at Department of Chemistry of M.V. Lomonosov University. He is currently Deputy General Director for R&D at JSC "RT-Invest", Distinguished Professor at Department of Chemistry of M.V. Lomonosov University and Vice-President of Russian Academy of Natural Sciences. He has published more than 500 papers in reputed journals and has been serving as an Editorial Board Member of *repute*.

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