

quality of life of NPP workers, military personnel who participated in nuclear weapons tests, radiologists, etc.

All studies in this field are very contradictory. Therefore, the influence of low doses in general, and the effect of hormesis in particular, need additional study.

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## **THE ANALYSIS OF VOLUMES OF THE FOOD INDUSTRY WASTES**

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Food waste pollute vast areas of land. Almost all enterprises of the food industry emit gases and dust, worsening air condition and lead to an increase in the greenhouse effect and of course have a negative impact on water resources. Daily millions of people throw away remnants of food, tainted products, packages, glass and plastic bottles, and much more. All this accumulates and requires ongoing processing and disposal, but because of the large volumes of waste, lack of high-tech equipment, these operations may be slow.

The aim of our research is to analyze volumes of the food industry waste generation and the creation of innovative technologies for the use of various wastes as alternative energy sources.

The object of analysis is the city of Smorgon and its industries. Defining activities in the industry is the production of wood products and paper (56.8%), production of food products, beverages (24.6%), manufacture of machinery and equipment (10.5%), electricity supply, gas, steam and water supply (3.1%). The largest enterprises of food industry are "Smorgon Dairy" the branch of OJSC "Lida Milk Plant", UPE "Smorgon plant of bread production" and numerous catering facilities. On the territory of the Smorgon and Smorgon district landfill SMW "Black Forest" is located and 23 mini-sites are located. During the research such concepts as "food industry" were examined, its basic industries were named, environmental problems were characterized that are related to food production and analysis of the volumes of waste food generation was carried out.

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## **HORMESIS WITH THE AID OF DYNAMIC SYSTEMS**

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The term "hormesis" introduced S. Zontman and D. Ehrlich in 1943, comes from the Greek *hórmēsis* (fast movement, aspiration) and is the stimulating effect of moderate doses of stressors. To indicate the positive effect of low doses