

Biomass energy potential in Russia

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Abstract

Bioenergy as one of the most promising sectors of the economy, is already developing in some regions of Russia. The expediency of development in this industry caused by the presence of decentralized energy supply zones, waste management needs, necessity and expediency of energy sector upgrading. Like any other branch of power supply, bioenergy needs reliable resource assessments and projections. In Russia, detailed assessment of biomass energy potential earlier were carried out only on a national scale. In recent years, within the framework of developing geographic information system "Renewable Energy Sources of Russia" data on the different types of wastes used for bioenergy was collected, the calculations of gross, technical and economic bioenergy potentials were made, databases and maps of the resource distribution were developed for the territory Russia. For today resources of sewage sludge, municipal solid wastes, the main areas of animal husbandry wastes, the main cultivated agricultural crops of Russia: grains (with a separate species), oilseeds, vegetables and potatoes – were analyzed for each region of the Russian Federation. Scientifically based quantitative evaluations and convenience of it's visual display as maps allow to highlight the leading biomass potential regions. With the socio-economic and environmental features of the territory it forms the basis for decision making. These estimates are used by public authorities for planning strategy of national energy development.

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Biography

Rafikova Yu Yu is a Researcher, specialized in geoinformation mapping of renewable energy resources and methods of accounting factors influencing on the development of renewable energy at national and regional levels.

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