National Policy of Countries on the Use of Plant Biofuels Using the Criteria of Sustainable Development

E. S. Solodukhin, A. N. Shushpanov, A. R. Shugaeva, D. O. Kapralova, D. V. Shushpanova

D. I. Mendeleyev University of Chemical Technology of Russia;
Peoples' Friendship University of Russia named after P. Lumumba, Moscow, Russia;
Research Institute "Environmental Industrial Policy Centre", Mytishchi, Russia

Keywords: biofuel; bioethanol; biodiesel; state policy of countries; development of biofuel technologies.

Abstract: This article presents an overview of the production and use of bioethanol and biodiesel from the point of view of sustainable development criteria in a number of countries, including the Russian Federation. It briefly describes the economic aspects of biofuel production from plant materials and their use in a mixture with fossil fuels in the transport sector. It provides information on the state policies of the USA, China, Brazil, India, the EU and Russia on the development of the biofuel industry, including a number of documents that provide the opportunity to use biofuels in these countries. It identifies factors that limit the use of biofuels in some countries, including China and Russia. Proposals are given for the use of biofuels as a promising method for the disposal of production and consumption waste.