

Название публикации:

Ecological-and-Economic Evaluation of Vinyl Chloride Production in Mineral Resource Clusters

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Аннотация:

Over the past six years, the volume of plastics production in primary forms in Russia increased by 57%, exceeding 7.8 million tons in 2017. During this period, the production capacities were substantially renovated; new plants were put into operation. Increasing the competitiveness of Russian polyvinyl chloride (PVC) is possible on the basis of the integrated use of raw materials, the use of innovative technologies and reduction of production costs. When calculating costs, the following aspects were taken into account: type, availability and cost of raw materials, the number of chemical stages of final product production, its yield, energy intensity and material consumption of the process, the possibility of combining this method of production with other production processes of a chemical company, i.e. complex use of all obtained products. This is due to the low cost of raw materials, the clustering of coal and chemical enterprises and energy companies located in the Kemerovo region, which makes the production of PVC competitive.

Ключевые слова:

Chloride minerals, Costs, Mineral resources, Chemical enterprise, Ecological and economic, Innovative technology, Material consumption, Plastics production, Polyvinyl chloride (PVC) Product production, Production capacity, Polyvinyl chlorides