

INTEGRATING ENVIRONMENTAL PRIORITIES IN THE DEVELOPMENT OF ENTERPRISES CHEMICAL AND PETROCHEMICAL INDUSTRY OF UKRAINE

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Chemical and petrochemical industry in Ukraine is characterized by a large number of companies with a high degree of environmental hazards. The variety of products, technologies and materials are causing a wide range and relatively high concentrations of pollutants in the environment surrounding the person because environmental priorities in the chemical and petrochemical industry are the necessary prerequisite for ensuring of their ecosafety development.

There are main causes of significant impact of industrial and economic activities of chemical plants on the environment and human health. These are [1-3]:

1) High volume production. Chemical production provides about 7% of industrial production and 6.8% of exports of goods; there are more than 4,200 enterprises, there are busy about 159 thousand people or 5.6% of the production personnel industry [1].

2) Placement of chemical plants. In areas of high concentration of chemical production is a significant increase in the concentration of pollutants in all environmental components (air, water, soil) and worsening health.

3) Specificity of chemical production and characterization of the raw materials, which is uses in this case. In chemical plants in large quantities are toxic and explosive materials from which produces significant in volume and variety of names of chemicals whose properties are not studies.

4) Low technological level. Number of technologies with high energy and materials consumption are twice or three times greater than that in developed countries.

5) Worn out equipment. Each year, depreciation of equipment grows: from 68.6% in 2009 to 68.2% in 2010 and 66.8% in 2011. Moral deterioration estimates reaches 80-85% [1].

6) Imperfection legal and economic mechanisms and others: there are undeveloped environmental insurance, credit, environmental audit, etc.

7) There are lacks of consciousness, culture, environmental of education.

The activity of chemical enterprises affects not only the environment but also on production and economic activity of the enterprise itself, slowing its growth, reducing competitiveness and image in the international market and so on. Therefore, as of today, and in the future, environmental factors we must to consider as a priority during. For improve the environmental performance of the chemical complex we must to do the next. We must:

- To improve traditional methods of production chemicals for waste generated in the operation of Company;
- To build new, renovation and improvement of existing treatment facilities;
- To active decommissioning of environmentally hazardous industries, morally and physically obsolete technology and equipment;
- To create and use to new low-waste technologies and resource;
- To improve methods of recycling and disposal of hazardous wastes that have accumulated for many years in the landfill, sludge ponds, etc.;
- To expand the use of waste generated or already accumulated by developing the necessary technology and material to rebuild balance sheets and build on this basis sectoral clusters of commodity closed cycles;
- To direct chemical complex development projects on environmental priorities and strengthen their economic levers of influence on public entities through payment for the use of natural resources and damage caused to the state of the environment as in the average European standards.

In our view, the key issues for further development of chemical complex in the coming years are to create conditions for the transition to ecologically-industry investment, an innovative model of development, which should include the diversification of current production, using domestic raw materials, the domestic market domestic chemical products, due to import substitution and energy efficiency projects, using modern energy-saving technologies, involving relevant resources for potential investors, shareholders and business partners.

References:

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