

ENVIRONMENTAL ASPECTS OF INDUSTRIAL ZAPORozHYA REGION

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For the Zaporozhyya region, as one of the most industrialized loaded, environmental issues are important. According to the National Cancer Institute, Zaporozhyya region is included in the five regions of Ukraine with the highest cancer. Therefore are relevant issues related to the environmental aspects of the work and the development of industry in the region.

Zaporozhyya region belongs to the most technologically-laden regions of Ukraine. Most difficult problems in the area are long pollution of surface and groundwater, air and land as a result of economic activity, the accumulation of large amounts of industrial and domestic waste.

High human impacts negatively affects the biodiversity and natural landscapes, the habitat of species and in general to create a safe and attractive environment for the population.

The biggest polluters of the environment (air, water and land resources) in the region are mining, smelting and energy complex, chemical and engineering industries, residential services sector, penal colonies Enforcement of Sentences Department of Ukraine.

To stabilize the environmental situation industries Zaporozhyya region are adopting:

- Measures aimed at energy and resource conservation, which help to reduce emissions to the environment and to achieve economic efficiency;
- Direct environmental actions that are performed in accordance with the law and have, in general, only environmental benefits.

With the prolonged recession, which makes saving, plant owners are more willing to give money to the first group of activities. Thus, the saving of fuel and energy resources through the introduction of energy efficiency measures in industry Zaporozhyya region in 2012 amounted to 158.712 tons of equivalent fuel, and the estimated economic effect - 589.22 mln.

Given the specifics of industrial production Zaporizhzhyya region, one of the most effective ways of increasing the efficiency of fuel and energy resources is the use of secondary gas (blast furnace gas, coke gas) production and origin of waste heat produced in the main process (manufacturing) processes in the metallurgical complex of the region - PJSC "MCW "Zaporizhstal" and PJSC "DSS").

As part of the Kyoto Protocol introduced a high-tech project to install at PJSC "Zaporozhkoks" two turbine generators with total capacity of 12.0 MW, which provide the company's own electricity to 60% of its total consumption. Modernization of the power supply system of PJSC "Zaporozhkoks" involves

getting a comprehensive energy-saving and environmental benefits. Production of additional electricity, accompanied by the use of coke and flue gas to have reduced carbon dioxide emissions by more than 90%, and nitrogen oxides - by 40%.

In order to save heat energy enterprise "SPC" Iskra "established an autonomous electric heating instead of district heating. Heat savings from the introduction of the event was 1.996 Gcal, and the economic effect - 1.337 mln. At JSC "Motor Sich" in order to reduce electricity consumption for the production of compressed air was reconstructed turbocompressor station business. Saving energy in this case was 1.936 million kWh. Besides, JSC "Motor Sich" actively implementing in their recreation centers and health centers wind power, and to provide these facilities with hot water - solar collectors.

To perform the environmental legislation of industry as a number of events that contributed to the reduction of emissions into the air.

Thus, the PSC "DSS" in 2012 reduced emissions of air pollutants by 39.8% due to a decrease in production and the construction of gas-cleaning bag filter technology and fugitive emissions. PJSC "ZaporozhstekoIlyus" by launching a gas treatment plants reduce emissions by 63.5 tons / year. The enterprise "Zaporizhia Titanium and Magnesium Plant" in 2012 commissioned dustcleaning equipment. The company "Motor Sich" held overhaul three dust and gas cleaning plants, the issues of stormwater treatment facilities will replace the filter filling, cleaning sump, the central treatment plant installed two sump, to repair and update the packaging for the collection of industrial waste.

In general, the analysis of the measures and projects implemented by industrial enterprises, aimed at reducing the environmental burden in the Zaporozhyia region, showed their high cost. At the same time, a large part of the measures aimed at energy conservation, which contributes to the economic effect and quite important for companies in the current market conditions. However, to enhance the implementation of environmental projects to stimulate the state: on the one hand, this may be an increase in payments for ongoing emissions, and on the other - tax breaks for companies that implement such projects (back environmental charge).

Thus, we can conclude that, despite the difficult economic situation, the limited financial resources, the Company Zaporozhyia region continue to introduce environmental projects aimed at reducing pollution. However, it is necessary to improve legislation in the direction of promoting environmental performance of enterprises.

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