
COMBINATION OF ENERGY-SAVING, RESOURCE-SAVING AND ENVIRONMENTALLY FRIENDLY TECHNOLOGIES IN THE PROJECTS OF THE SE "GIPROKOKS"

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The article deals with the issues of energy efficiency and implementation of environmental technologies in coke production, which is one of the most energy-intensive and environmentally hazardous, but at the same time has a great potential of fuel and energy resources.

The experience and achievements of SE GIPROKOKS in the use of modern technologies aimed at reducing energy and resource consumption, as well as ensuring environmental safety, are reflected. Particular attention is paid to innovative approaches to the development, design and implementation of environmentally friendly technologies in production, which help reduce emissions and negative impact on the environment. The article analyses the application of organisational, technical, design, technological and other energy saving measures in the projects of SE "GIPROKOKS" for metallurgical and coke-chemical enterprises. The most effective of these are technological: improving the quality of coke, what, when used in the blast furnace process, leads to a reduction in energy consumption; using less energy-intensive technologies and secondary energy resources. These technologies primarily include the coal charge stumping technology.

Flue gas heat from the coke oven battery heating system has a significant energy potential that is released into the atmosphere, leading to irreversible heat losses and causing a negative impact on the environment. The use of a heat recovery unit with thermal flue gas treatment will significantly reduce emissions of harmful components in flue gases into the atmosphere.

In its projects, SE "GIPROKOKS" pays considerable attention to the use of secondary resources generated in coke production processes, which is a vivid example of combining energy-saving, resource-saving and environmentally friendly technologies.

Keywords: coke production, secondary products, utilisation, energy saving, resource saving, environmental safety, technological measures.

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