

IMPACT OF METALLURGICAL PLANTS ON ENVIRONMENT AND MEASUREMENT OF PROTECTION

Prof. dr. Šefket Goletić, Prof. dr. Mustafa Imamović, dr. Nusret Imamović
Faculty of Mechanical Engineering University of Zenica

ABSTRACT

Urban areas have long been areas of human life and development centers. These may be endangered due to pollution of air, water and land.

In recent years, air pollution receives such proportions that require special attention in terms of taking technical, technological, financial and economic, administrative and legal measures to protect air. The basic and most common sources of air pollution are: industrial plants (technological processes), transport, energy (power plants and heating plants), and local boilers and furnaces in households.

Water pollution is increasing. Different measures for rational use of water, reducing the amount of pollution and waste water, and protection of water resources are constantly being undertaken. The basic and most sources of water pollution are: industrial plants and facilities, transportation, agriculture, towns and settlements.

In addition, the environment is polluted by production and inadequate waste management and noise production.

Industrial plants, especially metallurgical, due to the nature of technological processes and high emissions of harmful substances, causing multiple environmental consequences and the environment, threaten the quality of the environment and the health of the population in industrial and urban areas, especially if there are not available measures to control and reduce emissions.

This paper presents the results of monitoring of emissions from metallurgical plants, transport and combustion plants and their impact on air quality and water in industrial-urban area of Zenica.

The results presented in this paper can serve as a roadmap for measures to prevent / reduce and control emissions, improving the living conditions of the population and the sustainable management of environmental protection in industrial and urban areas of Zenica.

Key words: emission sources, emission of harmful substances, environment, air pollution, water pollution, environmental quality.