

*Materials of Conferences***MAJOR GEOECOLOGICAL PROBLEMS OF PERM REGION**

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Perm region (Perm Krai) – one of the largest regions in Russia (the second largest square in the European part of Russia) and the largest in the Volga economic district, belongs to one of the most adverse ecological regions of the country. Environmental problem in the Perm region in recent years, become extremely important due to global environmental change, the development of an emergency. Environmental problems of the Perm region, and for the entire territory of Russia, related to anthropogenic impacts on the environment, as well as natural – geological factors that have a profound effect on natural ecosystems and public health. Key environmental (geoecological) problems are:

- Chemical pollution in varying degrees of environmental media (air, soil, surface and ground water) due to high development pressure, especially in urban and industrial agglomerations (complex of oil, metallurgical, machine-building, chemical, pulp and paper industry);

- The accumulation of vast amounts of industrial and domestic waste, which is a constant source of many types of environmental pollution. The main problem – the use (utilization) of accumulated waste and reducing the amount of surface storage of newly generated waste;

- Contamination of soil and water with pesticides activities of agriculture;

- Radioactive contamination of the environment due to natural and man-made sources of radiation (including – underground nuclear explosions);

- Violation of natural environments and landscapes of intense economic activity mining (especially halmeic, oil and coal areas);

- Violation of forest and land resources (forest degradation activities of logging and wood industry);

- Change of the hydrogeological conditions: conversion of natural hydrochemical and hydrodynamic conditions, depletion and contamination of fresh groundwater;

- Changing geological conditions: education on undermined spaces fracture zones, subsidence troughs, funnels collapse, the intensification of geodynamic processes. Serious impact on the environment, in certain circumstances can have dangerous Induced Processes;

- The development of exogenous (gully erosion, landslides, flooding, waterlogging, suffusion, the complex processes associated with the processing of the coast, and especially karst reservoirs) and

endogenous (geodynamic, structural-tectonic, neotectonic) geological processes;

- The development of natural and man-made natural and environmental impacts.

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**WIND ENERGY IN TURKEY**<sup>1</sup>Okuyan Cemal, <sup>2</sup>Zholdasbekov A., <sup>2</sup>Sihinbaeva Z.<sup>1</sup>*Balikesir University, Balikesir;*<sup>2</sup>*South Kazakhstan M. Auesov University, Shymkent, e-mail: cemalokuyan@hotmail.com*

Increase in production, increasing expectations on the development of technology and comfort of mankind, has led to a rapid increase in energy consumption. The most useful type of energy «electrical energy» is. Therefore, the main goal is the production of electrical energy.

Has gained importance in recent years due to environmental awareness around the world, the energy generated seamless, reliable and cost-effective addition to being environmentally friendly becomes more important. This is revealed in many countries energy awareness. Thermal power plants pollute the environment, so renewable energy sources is very important. Wind, solar and biogas energy sources accordance with this definition.

Energy demand f all the countries in the world is increasing day by day. The criteria of the developed countries, energy has become synonymous with ownership. Heritage of millions of years of fossil fuels has decreased drastically. New oil, coal and natural gas resources are not available, the available resources are known to be depleted as soon as possible.

RES (renewable energy sources) are wind, solar and biogas energy, eco-friendly nature and quite due to the decrease in production costs per unit of energy has become widely used. Serious technological research is being done in many countries on the development of these technologies. With advances in composite materials and on the aerodynamics of the wing shows significant developments in wind energy. Low wind speed wind turbines have been developed that can produce more energy. Wind turbine for the selection of the initial investment costs are high, and the right place to invest one year after the measurement is required. Made on each side of the world, wind maps, geographic areas suitable for wind turbine are determined.

In this study, wind energy in the world and in Turkey were investigated.