

17-18 November

Uzbekistan, Tashkent - 2022

TOPICS:

- Renewable energy & Energy Conversion
- Environmental Technologies
- Earth Resources Engineering

ORGANIZERS:



SCOPE

The Uzbekistan-Japan International Conference «Energy-Earth-Environment- Engineering» will be held on 17-18 November 2022 in Uzbekistan Japan Innovation Center of Youth, Tashkent, Uzbekistan.

This Conference will offer researchers from around the world who have interests in interdisciplinary research in energy, earth, environmental engineering. It would like to facilitate interactions between researchers from industry, national laboratories and academia for the future international collaborators.

The following topics and related ones are invited:

- Renewable energy & Energy Conversion
- Environmental Technologies
- Earth Resources Engineering

GENERAL INFORMATION

Official Language: English.

The science program committee will schedule both oral and poster sessions in hybrid form including a "live" in-person event with a "virtual" online component.

Local Organizing Committee

Nargiza Amirova, Yukinori Yanagida, Zukhra Kadirova, Nodir Turakhodjaev,
Sokhibjon Matkarimov, Shakhlo Daminova, Zikrilla Alimov

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Problems of atmospheric air pollution in the Republic of Uzbekistan and the ways of their solution

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Recent years have been years of transition from a permanent reduction in the technogenic load on the environment to an increase in the impact on it due to the growth of both the consumption of natural resources and the ingress of harmful substances into it with exhaust gases, wastewater and toxic waste from various industries.

Despite the fact that during the 1990s production volumes were significantly reduced, in some areas it is close to critical. The main environmental issues are still:

- pollution of water bodies;
- air pollution as a result of emissions from industrial enterprises and vehicles;
- ever-increasing amount of production and consumption wastes, including toxic ones;
- soil pollution, desertification and degradation of vegetation in many areas, reduction in the species composition of flora and fauna.

In a number of regions, due to high anthropogenic pressures, a critical situation has developed in which significant landscape changes occur, natural resources are depleted and lost, and the living conditions of the population are significantly deteriorating

Air pollution remains one of the leading environmental factors that have a negative impact on public health. Dozens of cities and towns in the region have average annual levels of atmospheric air pollution that exceed sanitary and hygienic standards. Industry and road transport have the greatest negative impact on the atmospheric air.

Since 2000, in parallel with the restoration of economic growth in the country, in our region there has been a decrease in emissions of pollutants into the atmosphere from stationary sources. Long-term dynamics of gross emissions of harmful substances into the atmospheric air of the region from stationary sources. With an increasing volume of emissions, attention should be paid to the fact that with an average degree of capture and neutralization of harmful substances from stationary sources, which is 85.5%, this figure was achieved mainly due to the most easily captured solids (95.4%). The percentage of capture and neutralization of more toxic liquid and gaseous substances is much lower and is about 45.8%, nitrogen oxides - 2.5%, sulfur dioxide - 61.2%, carbon monoxide - 42.8%, volatile organic compounds - 18.1%, hydrocarbons - 0.1%. In recent years, according to all indicators of air pollution, the number of cities and, accordingly, the number of people exposed to not only high, but also ever-increasing effects of pollutants in the atmosphere, has been growing.

In order to stabilize the environmental situation and improve the quality of the environment, the Government of Uzbekistan approved an action plan for the implementation of the Concept of Environmental Safety, set deadlines for achieving maximum allowable standards for emissions of pollutants into the atmospheric air for users of natural resources located in ecologically unfavorable territories.

Implementation of the planned plan of environmental measures will reduce the volume of pollutant emissions into the atmospheric air 99% of environmental organizations will achieve the standards, which will positively affect the health of the population Uzbekistan.