

„Energy news and environmental impacts of nuclear power plants “

Nino Tabatadze

The faculty of exact and natural sciences, direction of Ecology

Nuclear power plants are the most powerful source of electricity producing, however, day by day there is increasing as an interest as well as fear. The main reason for this are recent past events - Chernobyl nuclear disaster, in the last century and Fukushima power plant crash, 6 years ago. As the result, world more times got the meaning of radiation effect, as it can be spread on long distance, can damage humans' health, environment and be radioactive for a long time.

At first, in the report is speaking about general overview of radioactivity, nuclear fission and nuclear energy. Also, there is reviewed the meaning of radioactive residue, how is their classification and how happens their utilization and neutralization. For instance, there is given example of radiation burial in Saakadze village with its description of ecological influence. Reviewed the positive and negative sides of nuclear power plants. The next issues are Chernobyl and Fukushima large-scale nuclear disasters, with their causing reasons and results. Also, report is about nuclear reactors, their working peculiarities, moderators and coolants. There are marked features of modern nuclear reactors, the breaking news about contemporary nuclear technologies, which are going to be used in the coming decades. Retrieved information based on the official datas of World Nuclear Association.