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Ecological risk in activity of a person

Emergence of risk of a dangerous situation is bound to development of technical progress, increase of needs of a person, exhaustion of natural resources and natural disasters. From history of development of a civilization we know that at improvement of quality of life safety from unfortunate decreases. The probability of environmental risk is increases.

Ecological risk is the probability of the occurrence of an event having adverse effects for the environment and caused by negative impact of economic and other activity, emergency situations of natural and technogenic character [1]. It is characterized by possible losses and damage to the environment, life and health of a person in a certain time.

Important components of environmental risk are the fact of emission in our environment or unplanned exhaustion of natural resources, the amount harmful substance, type of a pollutant, duration of the polluting influence, a season, a degree of ecological danger of this chemical or physical element.

The environmental risk includes such normative levels as the acceptable, maximum-permissible and negligible environmental risk. The acceptable ecological risk is one which level is justified from the point of view of both ecological, and economic, social and other problems in concrete society in a definite time. Maximum-permissible ecological risk is the maximum level of the acceptable environmental risk. Negligible environmental risk is the minimum level of the acceptable environmental risk.

The balance between ecological and economic development strategies guarantees ecological safety. On the one hand, people are forced to be reconciled with pollution for satisfaction of the material requirements. On the other hand, only the pollution-free surrounding medium is capable to satisfy completely the basic vital needs of a person without it seems his health and life. Therefore any purposes of economic development have to accord with the principle of ecological safety. Damage to the environment is impossible to avoid, but it has to be minimized and economically justified. Harmful effects of economic, production and other kinds of activity should not exceed marginal level. The law has to stop any neglect ecological safety. Activity of ecologically dangerous productions is limited or stopped already at decision making stages. Level of environmental risk is controlled by the state environmental assessment.

The analysis, measurement and assessment of risk reveal its regularities, bring statistics of probability of emergence of dangerous situations and develops strategies on their prevention or decrease in level of their danger. Prediction of ecological consequences of any projects, development and deployment of pollution-free and resource-saving technologies, ecological education and its broad promotion are fixed assets of control of emergence of environmental disasters.

However, it is necessary to consider that decrease in ecological risk is very expensive. If society decides to reduce technogenic risk by costs of ecological development, the costs of social purposes will decrease. If for the state it is necessary to provide social security of society, the expenses on the prevention of natural disasters and technogenic catastrophes are reduced, and the risk of their emergence will increase.

So that to coordinate costs of ecological safety and human needs, it is necessary to consider the condition of acceptable risk. The balance between political, economic, social and ecological requirements is the solution of the problem of environmental security.

Литература

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