

The Impact of Green Energy on Environment and Sustainable Development

Essay

Today, many researchers and ecologists pay attention to the problems of the environment with references to the notion of the sustainable development. The global community is challenged by a lot of issues associated with the environmental pollution and the constant growth of using the energetic resources. The economic progress of the world with accentuating the concepts of civilization and industrialization is based on the usage of a lot of energy significantly.

Traditional methods of receiving the necessary amount of power for meeting the needs of the developed cities and industries cannot be discussed as efficient according to the threat of the environmental pollution which is the effect of the developed energy industry. Moreover, the traditional approaches to the energy systems do not address the idea of the sustainable development.

That is why, it is necessary to concentrate on the alternative methods of receiving the power. Green energy can be discussed as the effective way to promote the necessary amount of energy for the industries, urban territories, and enterprises without damaging the environment. From this point, the notion of green energy is closely connected with renewable energy which is often discussed as the source of power with the minimal negative effects.

Sustainable development is one of the most significant requirements to the modern society in relation to the general tendencies of the global progress with references to the problems of the nature and environment. The main principle of the sustainable development is based on addressing the demands of the modern population with concentrating on the possible needs of the future generations.

However, contemporary problems which are associated with the environmental pollution caused by the modern energy industries can be discussed as dangerous for providing the necessary sustainable development.

Today, industries and power resources can be considered as the main causes for the greenhouse effects and global warming which can lead to the changes in the climate, air, soil, and water pollution. The carbon dioxide as the result of the energy industries is the main air pollutant which can influence the changes in the environment dramatically.

Furthermore, the usage of the energy resources depends on the destruction of the landscapes and deforestation of the territories. The next issue is the high level of the energy consumption which should be reduced in order to preserve the natural balance (Wengenmayr & Buhrke, 2008). Thus, to overcome all these negative effects of using the traditional energy resources, it is

significant to focus on utilizing the alternative resources of power which can be discussed as green energy.

Green energy is based on utilizing the power of the natural energetic processes such as wind power, solar energy, geothermal power, biomass power, and wave power (Boyle, 2004). These processes are realized almost without any pollution that is why they can be considered as beneficial for providing energy for buildings in the urban territories and for industries.

The modern world needs concentrating on the usage of the definite clean energy technologies which can reduce the negative impacts on the environment. The decrease of the environmental pollution caused by the energy systems is important because of the active usage of traditional energy resources for lighting, heating, and cooling the modern buildings within the urban territories.

The rational usage of energy with references to decreasing the energy consumption is the main task of the global community in order to address the needs of sustainability. The negative impact of the carbon dioxide and the other harmful emissions which cause the air pollution as a result of developing the energy systems can be decreased with using such energy resources as, for instance wind, power and solar energy.

The technological progress and a great number of technological innovations which can contribute to using green energy in many sectors of the people's life are significant for the sustainable development. The technologies associated with utilizing the green energy and renewable energy resources address the principles of sustainability and can have the positive long-term effects (MacKay, 2009). Nevertheless, it is impossible to use the same green energy resources within different territories.

The choice of the appropriate green energy resource which can satisfy the needs of the local territory or organization with references to the questions of availability and economy is the challengeable process, but the effective usage of renewable energy and the positive results of the choice can contribute to reducing the costs on energy and to using the energy system without much pollution.

The impact of green energy on environment and sustainable development can be discussed as positive because of a range of the associated factors. Nowadays, it is significant to concentrate on reducing the energy consumption and costs in the situation when the population's demands increase and on diminishing the waste and pollution provided by the energy industries.

The traditional energy resources as the fossil energy have a lot of negative effects for the environment and should be changed with the alternative power resources. From this point, the usage of green energy resources is the effective way to address the requirements of the society and the principles of sustainable development.