

# Non-waste technology and its importance today

Madikhonova Zarnigor, Ochilov Azizbek, Buronova Feruza.

**Abstract**— Non-waste technology is such an effective method of human consumption that raw-materials and energy are used in a fertile and complex way as a cycle of "raw materials - production - consumption - secondary raw materials resources" and any influence on the natural environment can not be demolished its normal state.

**Keyword:** geothermal, biomass energy, magnesium, molybdenum, uranium, titanium, freon.

---

## I. INTRODUCTION

Non-waste technology is such an effective method of human consumption that raw-materials and energy are used in a fertile and complex way as a cycle of "raw materials - production - consumption - secondary raw materials resources" and any influence on the natural environment can not be demolished its normal state.

For the first time in the 50s of the last century Russian scientists acad. N.N. Semyonov and I. Petryanov introduced the term "non-waste technology". At present, the term "non-waste and low waste technology" is used as "clean or quite clean technology".[1]

For the purpose of satisfying human needs, implementation of knowledge, method and means, ensuring efficient use of natural resources and energy and environmental protection is non-waste technology.

Today the population of the earth has grown several times since the beginning of the last century to the present day of the new century. This has led to the construction of many factories in the country, roads, building houses, increasing the number of vehicles and so on for providing them with vital products. As a result, nature sorely has been used and being used and being filled with wastes.[1]

If the situation continues to grow, humanity will be in danger of living on earth in the near future. Because the expansion of the output range, which leads to the increase of the type of product and use too much, as a result it is causing to increase wastes in environment. It is no secret that

today, the development of production, science and technology has led to the release of many kinds of waste to the environment.

Today our goal is to show that the vital needs of a human being are increasing steadily day by day and inform developing production and machinery day by day, producing more products for meeting its needs. Nature is itself a system that connected with different energetic relations in all equilibrium, violation of these relationships, which will destroy existing natural processes on the earth and, as a consequence, various environmental disasters emerge on the earth.

It may be said at this moment, developing of energetics should be based on highly effective, eco-friendly energetic technologies. Non-traditional energetics uses renewable energy sources (geothermal heat of the earth, sun, wind, water removal, etc.) [2] and differs with ecological clean. High economic efficiency and environmental cleanliness are the main reason for the widespread use of non-traditional energetic technologies in places difficult to go and remote areas of the world. On the earth continually reduction of organic fuel reserves and continuously increasing the price, as well environmental pollution with poisonous waste and burning them in energetic device speed up possibility development of alternative energy sources and their search. To address natural energy sources, particularly geothermal, solar, wind, biomass energy. Based on

photovoltaic creators, it is possible to obtain electricity with a 12-15% working efficiency coefficient on the available solar energy technology. It is also possible to generate thermal energy in the collector through direct search. Therefore, the problem of environmental protection has become one of the major issues of each country. The population of the planet has grown from 1.5 to 8.5 billion from the beginning of the last century to the present day of the nineteenth century.[2] This has resulted in the use of land, natural resources, and energy intensive use to meet their living standards. More than 100 billion tons of natural resources are being excavated from the Earth these days.

## 2 METHODS

700 billion m<sup>3</sup> of industrial and domestic waste water is being dropped into the natural reservoirs. When coal-fired, smoke and ash together more substances emit into environment than amount of excavated, for instance, magnesium 1,5, molybdenum 3, arsenic 7, uranium, titanium 10, aluminum, iodine, cobalt 15, mercury 50, Li, V, Sr, Be, zirconium 100 times more spread.[1]

Therefore, they are found in plants, water, and place, and these substances are transmitted through the product to the human body (through consuming water, air, vegetable and fruit juice).

The most dangerous radioactive substance spreads through nuclear power plants (NPPs). These substances are constantly collected in the atmosphere, they interconnecting in the air the most dangerous substances may form wet, nitrous oxides and freons cause of the ozone depletion on the stratosphere layer of atmospheric air. It is known that as a result of human impact on the environment, some ecological problems are emerging. Modern automobiles pollute 12 m<sup>3</sup> of air when consumed by 1 l petrol (per day). 10 billion tons of oxygen is being contaminated by the use of fuel. As well as it is well known that as a result of accumulation of waste gases in the atmospheric air leads to the formation of acidic rainfall, smogs and falling into the ground causes to damage of watershed, fertile land. As a result, it is observed that as a result of damage of land comes to defective condition, creatures in the water to wipe out due to water pollution.[1]

The presence of pH = 4,15-4,51 sulfuric acid in the precipitation was observed even at the Chatkal Biosphere Reserve in Western Tien Shan, 50 km away from Almalyk, where the concentration of sulfur is the highest on MHD. According to statistical information, at the present around the country 1.84 million tons of harmful substances per year are thrown into the atmosphere. Besides it, dropping of solid poisonous compounds to the ground causes to destroy structure of soil of earth, unplanned use of fertilizer and pesticides leads to spoil its chemical composition. As a result, negative consequences such as erosion, falling of fertility dramatically, salinization emerge.[2]

At present, scientists have created various methods for cleaning every waste or neutralizing it. Each method is selected based on the aggregate state of the separating waste, its physical-chemical properties, quantity, concentration, temperature, and from what source being separated. As long as human being live, affects the environment. As a result of human economic activity emerging in the environment to changes are called anthropogenic changes.[3]

According to the scientist's prediction, the average temperature of the earth in the last 50 years is expected to rise by 2-5° under the effect of the greenhouse. This can lead to the rise of the ocean water in the world by 0.5-2 m in its path. As a result, many dry lands remain under the water. Currently, it must be said that glaciers in the pole melting intensified was observed by scientists.[3]

This is evidenced by the fact that different climatic changes are taking place around the world. Forest fires that spontaneity in different parts of the world (Russia, the USA, France, Spain, Portugal, etc.) are the result of the aforementioned situation. The fact that we see the drying up of the Aral Sea is an example of the current global ecological changes.[2]

## 3 CONCLUSION

In conclusion, it is possible to say that nowadays it is necessary to implement an agreement between the states to prevent the ecological disaster, to define and accomplish

measures to improve the state of the environment by states, to strengthen the environmental education among the population, to carry out new technologies aimed at reducing

the amount of waste forming in the industrial sector, reducing the amount of waste and disinfecting it, to replace old-fashioned equipment with new ones, to accomplish measures like cleaning facilities. Nowadays, science and technology development is rapidly developing in the 21st century. In such circumstances, the regulation of the effects of human on the biosphere, the challenges of achieving a balance in the relationship between social development and conservation of the natural environment are becoming more

and more urgent. The airspace pollution is also a threat to the country's ecological security. The problem of environmental

security has already come out of the national and regional circles and has become a problem for all mankind.[2]

## **REFERENCES**

- [1] 1.M.N.Musayev “Basics of Industrial Waste Cleaning Technology ” Tashkent-2011
- [2] 2.ziyouz.com website
- [3] 3.ziyouz.com library