

UDC 728 (043.2)

Izuita D.

National Aviation University, Kyiv

“GREEN” ARCHITECTURE AS THE CONCEPT OF THE FUTURE

The growing number of the world population increases the impact of human activities on the environment. Therefore, it is necessary to apply measures to conserve what we have already had by developing the alternative sources of energy, heat, water and air purification.

"Green" buildings are constructed to reduce their overall impact on human health and the natural environment. The main focus is on the efficient use of natural resources, reduction of waste

There are numerous ways to make buildings "green", but the best "green" buildings must conform to the following factors:

- **Correct location.** "Green" buildings should not be built in wetlands, groundwater zone or old age forests. Today a lot of new "green" buildings are purposely built in the polluted industrial areas that have been cleaned and restored.

- **Energy efficiency** is one of the key components of any sustainable construction. This factor is aimed at using energy resources and minimizing the negative impact on the environment.

- **Waste-free design.** Some of the modern ecological buildings are not new – they are old buildings adapted for reuse. The conversion of an old warehouse in a residential house is an example of how the proper planning and design can reduce both the amount of construction waste and the waste generated during building maintenance.

- **Organic materials.** It may seem that innovative materials for the construction of "green" buildings are introduced every day. There are also local materials.

- **"Easy breath".** Indoor air can be contaminated much stronger than the air outside. Most of us are able to smell the paint inside the room, but apart from this toxin, there are other materials that emit volatile organic compounds that threaten the health of people inside. To prevent this you should choose eco-friendly materials that prevent indoor air pollution.

- **Rational use of water.** Some ways to use water in green buildings are obvious, but there are other methods that are still used in some cities, such as the reuse of gray water (uncontaminated water from sinks and showers) to drain the toilets and irrigate landscaping.

The introduction of high technology into construction is not something new today. Technological fitting-out of buildings is widely promoted. The fact that a person is able to solve the problem of environmental pollution and that "green" architecture is a concept of the future is beyond doubt.

Scientific supervisor: Konoplianyk L., PhD, Associate Professor