

**МІНІСТЕРСТВО ОСВІТИ І НАУКИ УКРАЇНИ  
СУМСЬКИЙ ДЕРЖАВНИЙ УНІВЕРСИТЕТ  
КАФЕДРА ІНОЗЕМНИХ МОВ  
ЛІНГВІСТИЧНИЙ НАВЧАЛЬНО-МЕТОДИЧНИЙ  
ЦЕНТР**

**МАТЕРІАЛИ  
X ВСЕУКРАЇНСЬКОЇ НАУКОВО-ПРАКТИЧНОЇ  
КОНФЕРЕНЦІЇ СТУДЕНТІВ, АСПІРАНТІВ ТА  
ВИКЛАДАЧІВ  
ЛІНГВІСТИЧНОГО НАВЧАЛЬНО-МЕТОДИЧНОГО  
ЦЕНТРУ КАФЕДРИ ІНОЗЕМНИХ МОВ**

**“WITH FOREIGN LANGUAGES TO MUTUAL  
UNDERSTANDING, BETTER TECHNOLOGIES AND  
ECOLOGICALLY SAFER ENVIRONMENT”**

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## GREEN ECONOMY

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A number of financial problems, problems with product management, fuel and climate have happened recently in the world. In the last few decades 60% of the world's ecosystems have suffered degradation, emissions of carbon dioxide reached 40%, there is a significant shortage of water resources, a billion people are hungry and two billion people live on less than \$ 2 a day.

In 2008, in response to the financial and economic crisis the United Nations Environment Program announced the transition to a "green economy" that should help restore the global economy. UN calls to draw maximum attention to five major areas:

- energy building;
- transition to renewable energy, including wind, solar, geothermal and biomass energy;
- sustainable development of transport;
- ecological infrastructure of the planet, including fresh water, forests, soils and coral reefs;
- development of sustainable agriculture, including organic production.

Let us consider the development of alternative energy in Ukraine.

One of the most promising areas of renewable energy is biomass. Materials such as waste of agriculture, wood processing and forestry would save 20-30% of today's consumption of gas.

The next area of alternative energy is wind energy. According to Global wind energy council about 40% of areas are suitable for generating energy from wind. The highest wind energy potential is observed at the Black and Azov Sea, the southern coast of Crimea, the top Ukrainian Carpathians, Crimean mountains and the Donbass region.

The next area is solar power in Ukraine. The whole territory of Ukraine is suitable for heating systems using solar energy. The most promising region of the country for the development of solar energy is Steppe Ukraine.

Geothermal energy in Ukraine has considerable potential resources. Areas of possible use are Crimea, Transcarpathians,

Carpathians, Donetsk, Poltava, Kharkiv, Kherson and Chernihiv regions. Hot water, steam and natural mixture of steam can have the best saving potential.

Everyone should feel his responsibility for the environment and our future.

## THE STUDY AND ANALYSIS OF VARIOUS WATER PURIFICATION METHODS

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Water has always been an important and life-sustaining drink to humans and is essential for the survival of all known organisms. Though water is available in plenty, in the present day scenario availability of pure drinking water has become a rare commodity that is attributed to a number of known reasons.

One of the most persistent problems affecting people throughout the world is insufficient access to clean water and sanitation. Each year, around 3.6 million people die because of issues related to contaminated water, poor hygiene, and unsanitary conditions. If those households, most at risk could gain access to safe drinking water, more than 2 million lives could be saved.

Thus, we see that our health and our life depend on the purity of drinking water. But how exactly can contaminated water affect the deterioration of our health? Some of the effects of drinking contaminated water can be immediate, or not noticed for many years. These include gastrointestinal and stomach illnesses like: nausea, vomiting, cramps, diarrhea. Many factors affect the possible impact on health such as: the age and general health state of the person, the type of contaminant, the amount, how long the person has been drinking the contaminated water.

Problems with water are expected to get worse in the coming decades, due to the impact of growing industrialisation and urbanisation. It will lead to water scarcity globally, even in regions currently considered water-rich. To address these problems tremendous amount of research has to be conducted in identifying robust new methods of purifying water at lower cost and with less