

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

МАТЕРІАЛИ ІХ МІЖВУЗІВСЬКОЇ  
НАУКОВО-ПРАКТИЧНОЇ КОНФЕРЕНЦІЇ  
ЛІНГВІСТИЧНОГО НАВЧАЛЬНО-МЕТОДИЧНОГО ЦЕНТРУ  
КАФЕДРИ ІНОЗЕМНИХ МОВ

**“TO MAKE THE WORLD SMARTER AND SAFER”**

(Суми, 26 березня 2015 року)  
The ninth scientific practical student`s, postgraduate`s and teacher`s  
LSNC conference

## ALTERNATIVE SOURCES OF ENERGY

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Today, energy policy is a priority development of energy supply and heating systems. According to the National Energy Program of Ukraine by 2010 demand of fuel resources by own production is less than 50 %, and the rest is imported.

There is a constant reduction of fossil fuels and thus increase in fuel prices in the world. It becomes one of the most important national problems.

One way to solve this problem is development and inclusion of alternative and renewable energy sources to the fuel balance of the country.

Alternative energy sources are tools and equipment designed to capture and accumulate the inexhaustible environmental energy. The main factor in assessing the feasibility of using alternative energy sources is the cost of produced energy compared with the cost of energy obtained by using traditional sources. Alternative sources are particularly important to meet local energy consumes.

Alternative energy sources include solar radiation, environmental heat, wind energy, biomass, hydropower of small rivers, energy of thermal waters, and energy of waves and thermal discharges of industry.

Alternative energy based on using the inexhaustible energy sources can be the way that will help Ukraine to become independent in gas and fuel sectors.

In Ukraine it is beneficial to develop wind energy industry based on using wind energy and converting it to mechanical, chemical, thermal or electrical energy. Wind is an environmentally friendly renewable energy.

Reconstructions of wind energy development in Ukraine - first of all, are large vacant land areas for construction of wind electric power stations, capacities of engineering plants – for manufacturing of high-performance wind turbines, skilled workforce. According to the analysts, wind turbines can be built on the shores of the Black Sea and the Azovskoe Sea, in the steppe regions, and in the Crimean Mountains and the Carpathians.

It is important that Ukraine has large reserves of almost all kinds of alternative energy, thus in the future it can become one of the most developed countries in the world.