

SECTION 4. ECONOMY OF NATURAL RESOURCES MANAGEMENT AND ENVIRONMENT PROTECTION

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THE PROBLEM OF WATER AND ENERGY RESOURCES NEXUS IN THE POWER INDUSTRY OF UKRAINE

Ukrainian power industry needs significant reforming. As the fundamental basis of the life of the entire Ukrainian society, this industry is going through a serious crisis. In order to overcome the crisis, the Energy Strategy of Ukraine until 2030 was proposed, but not performed, and now there is proposed draft Energy Strategy of Ukraine until 2035, which provides for substantial changes in the electricity sector. However, the new version has a number of outstanding factors, including a shortage of water resources in Ukraine. The existing electricity in Ukraine is extremely costly for water. On the other hand, Ukraine is at the bottom of the list of countries in water availability. This fact cannot ignore the factor of water use in the manufacture electric power, especially in the context of electricity modernization. Based on expert assessments, there were found alternative water supply technologies.

As a result of research proved that if you do not change the existing approach to water supply in the electricity Ukraine, you will have an increase of water intake by 15.9% by 2050 and, consequently, rapid deterioration of water quality.

To change the current system of water supply stations offered an effective strategy to change the pricing policy for water resource in Ukraine to ensure electricity conversion technologies need water on the experience of foreign countries.

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