

О'ЗБЕКISTONDA ELEKTR-ENERGIYA SANOATINING TAHLILI

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Annotatsiya: Maqolada elektr sanoatining davlat iqtisodiyotini rivojlantirishga ta'siri ko'rsatilgan. Energetika sohasini davlat tomonidan tartibga solish usullari e'lon qilindi. Elektr energiyasini iste'mol qilish va ishlab chiqarish bo'yicha ma'lumotlar taqdim etiladi.

Kalit so'zlar: Elektr, zamonaviy xususiyatlar, monopoliyaga qarshi tartibga solish, elektr sanoati, innovatsiya, investitsiyalar.

АНАЛИЗ ТЕКУЩЕГО СОСТОЯНИЯ ЭЛЕКТРОЭНЕРГЕТИКИ УЗБЕКИСТАНА

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Аннотация: В статье показано влияние электроэнергетической промышленности на развитие экономики государства. Озвучены методы государственного регулирования сферы энергетики. Представлены данные о потреблении и производстве электроэнергии.

Ключевые слова: Электроэнергетика, современные особенности, антимонопольное регулирование, электроэнергетическая отрасль, инновации, инвестиции.

ANALYSIS OF THE CURRENT STATE OF THE ELECTRIC POWER INDUSTRY IN UZBEKISTAN

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Abstract: The article shows the influence of the electric power industry on the development of the state economy. Methods of state regulation of the energy sector are voiced. Data of electricity consumption and production are presented.

Keywords: Electric power industry, modern features, antimonopoly regulation, electric power industry, innovations, investments.

Introduction. Energy plays a huge role in the development of the country's economy. This is due to the fact that any production process in all industries, in agriculture, in transport, all types of services to the population of the country are associated with an ever-increasing scale of energy use. In the distant past, the energy force was the muscular strength of people, supplemented by the motor power of animals, water and wind. The discovery of energy was associated with the industrial revolution of the XIII century, the subsequent technological progress of production and the growth of labor productivity. [4]

The electric power industry is a system-forming branch of the economy of any modern state and one of the most complex branches of the fuel and energy complex (FEC). [6] The need for state regulation of this industry is due to its economic and social importance for all other sectors of the economy and for the population of the country. Thus, within the framework of state regulation, it is necessary to pay attention to the activities of state authorities that carry out this regulation. [5] In

order to implement State regulation of the activities of economic entities in Uzbekistan, the relevant competent authorities have been established. With their help, a full-fledged, balanced and purposeful interaction with business entities is carried out. The state, represented by the competent authorities, which are in the course of their management activities use the methods of administrative regulation, has a direct impact on economic entities[7]. The main methods of regulating the electric power industry are price regulation; identification of consumers for mandatory service and establishment of a minimum level of their provision. According to the legislation of the Republic of Uzbekistan "On Electric Power Industry", the methods of state regulation of the electric power industry are:

- regulation of investment activities of natural monopolies in the electric power industry;
- state regulation and control (supervision) of state-regulated prices (tariffs) in the electric power industry; [8]

- state antimonopoly regulation and control, including the establishment of uniform rules on the territory of the republic for access to electric networks and services for the transmission of electric energy;

- management of state property; [9]
- energy supervision and technical regulation;
- environmental supervision;
- licensing of sales activities.

Main part. The state uses direct and indirect mechanisms of regulation of the electric power

industry. Direct methods of influence include: setting direct restrictions and tasks for certain types of activities, allocating budget funds for solving specific tasks, etc. Indirect mechanisms of influence include tariff and technical regulation, the tax system, and others. The scope of state regulation of electric power companies includes the regulation of: the economic aspects of the companies activities; technological and environmental aspects of companies' activities; issues of social and labor relations and labor protection [2].

Table 1

Gross electricity consumption million kWh (consumed by subscribers)

Name of regions	2016	2017	2018	2019
Republic of Uzbekistan	45058,8	46746,3	60744,8	54174,8
Republic of Karakalpakstan	1041,9	1088,7	1578,3	1690,1
regions:				
Andijan	2406,3	2639,5	3975,4	2627,3
Bukhara	2580,3	2678,2	3338,8	2437,0
Jizakh	1518,8	1581,4	2177,8	1924,4
Kashkadarya	4857,6	5116,1	5561,3	5594,6
Navoi	6895,0	7002,6	7431,4	8775,3
Namangan	2612,9	2789,6	3898,9	3099,1
Samarkand	2947,5	3247,8	4425,8	2769,7
Surhandarya	2148,1	2230,9	5653,0	2364,3
Sirdarya	1177,3	1159,4	1455,1	1748,9
Tashkent	6981,3	7235,1	8868,5	9253,6
Fergana	3829,4	3534,0	4965,3	4591,8
Horezm	1090,6	1118,1	1799,3	1765,7
Tashkent city	4971,7	5325,0	5615,8	5532,9

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In 2020, electricity consumption in Uzbekistan amounted to 69.1 billion kWh. This is 6.1% more than in 2019 and 20.1% more than in 2016. In December 2020 alone, 1.74 billion kW were sold to the population. For comparison, the data of December 2018, when the Uzbek People received 1.57 billion kWh, that is, the supply growth was 11%. The growth in electricity consumption is ensured by the fact that 66.4 billion kWh of electricity was generated at the country's power plants in 2020. This is 5% more than in 2019 and 12.6% more than in 2016. More than 3.7 GW of capacity was introduced as part of the projects of the Investment Program in 2016 at the expense of loans under state guarantees. 1 power plant and 4

hydroelectric power plants were built, and the existing thermal power plants were expanded. Thanks to the modernization, 900 MW of new capacity was obtained at the Talimarjan TPP, 560 MW at the Takhiatash TPP, 450 MW at the Navoi TPP, 370 MW at the Tashkent TPP, and 150 MW of the coal-fired power unit at the Angren TPP. The new Turakurgan thermal power plant, built in the Namangan region, now produces half of the electricity consumed by the three regions of the Ferghana Valley. Previously, this region was supplied with electricity only at the expense of other regions of Uzbekistan and imports from the Kyrgyz Republic.

Table 2

Net electricity consumption by type of activity (million kWh) [10]

	2016	2017	2018	2019
Total	57605,2	60180,8	62502,8	64844,0
By type of activity				
Industry	21035,8	22298,4	15007,1	16967,3
Construction	360,7	325,0	414,8	414,8
Agricultural industry	9502,3	9683,9	18053,9	15058,0
Transport	1165,9	1222,2	1474,6	2115,0
Commercial enterprises and government agencies	5242,3	4040,6	4970,9	4970,9
Population	11195,7	12779,8	13593,8	13478,8
Other sectors	-	-	-	1170,0

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The projects implemented over the past 4 years have allowed to generate an additional more than 21 billion kW of electricity consumption annually. After the introduction of energy-efficient technologies, the specific fuel consumption for production is 1 kW of electricity consumption decreased by 8%. On average, this will save 2 billion cubic meters of natural gas, which will be sent to the population and sectors of the economy. In 2020, measures were taken to build six new power plants on the basis of a public-private partnership with foreign investors. The total cost of the projects is about \$ 2 billion, and the total capacity is 2,700 megawatts.

Conclusion. The electric power industry of Uzbekistan is a basic branch of the economy, has significant potential, and strongly influences the development of the market economy. In accordance with the decree of the President of the country, in order to radically improve the organizational and legal foundations of public administration in the electric power industry on the basis of advanced foreign experience, modern innovative ideas, developments and technologies, as well as in accordance with the tasks defined by the action strategy for the five priority areas of development of the Republic of Uzbekistan in 2017-2021.[1] Today, a consistent de-monopolization of energy industries is being carried out, and measures are being taken to accelerate the development and ensure the financial stability of the electric power industry. Today, the energy strategy sets the task of expediting international tenders for the purchase of modern metering devices and related equipment at the expense of borrowed funds from the Asian Development Bank, which ensures the completion of the implementation of ASC throughout the republic no later than December 1, 2021. With an

innovative approach to business, resources are saved, and production efficiency increases in all parameters. In this regard, the strategy of innovative development of energy complex enterprises, improvement of corporate governance methods and placement of corporate bonds of industry enterprises on international markets is becoming more relevant.[3] As part of the innovative activities of corporate structures in the context of economic modernization, the possibilities of reconstruction and development of the Republic of Uzbekistan, issued for co-financing projects of JSC "Uzbekenergo", with the corresponding extension of the terms of final payments and restructuring of obligations of refinancing banks, the creation of financial and industrial groups and the reissue of a previously issued loan from JSC "Uzbekenergo" to JSC "Uzbekhydroenergo" to finance the investment project "Modernization of Charvak hydroelectric power plants with replacement of impellers" are considered. At the present stage of innovative development of the economy of the energy industry of Uzbekistan, the main goal is to meet the growing needs for consumers in electric energy, modernize and reconstruct existing power plants and networks, build new generating capacities based on highly efficient energy production technologies, improve the electricity metering system and fulfill obligations to supply electricity for export and preserve the country's energy security.

The electric power industry is an industry whose products are an integral component of almost all aspects of the life of modern society. Large-scale projects of an innovative and investment nature in the energy sector should be considered from the point of view of a synergistic approach.

List of used literature

- 1 Resolutions of the President of the Republic of Uzbekistan Sh. Mirziyoyev dated October 23, 2018 No. PP-3981 "Road Map" on increasing generating capacities, modernizing electric power networks, improving accounting and control of electric energy consumption in 2018-2020.
2. Allaev K. R., Khashimov F. A. *Energy saving at industrial enterprises*. Tashkent: Fan Publishing House, 2011. - 209 p.
3. Bekmurodov A. Sh., Gafurov U. V. *Uzbekistan - on the path of a new and higher stage of economic modernization and deepening of reforms*. - T.: Iktisodiet, 2008. - 126 p.
4. Burnasheva N. S., Khusnutdinov A. N. *State regulation in the electric power industry: textbook. Manual / N. S. Burnasheva, A. N. Khusnutdinov*. - Kazan: Kazan State Power Engineering University, 2013. p. 5.
5. Боровский Ю.В.: *Современные проблемы мировой энергетики*. - М.: Navona, 2011
6. Thompson Jr. Artur A., Striklend III A. Dzh. *Strategic management: concepts and situations for the analysis, the 12th edition / Lane with English - M.: Williams publishing house, 2011,- 928 pages.*
7. Кудрин, Б.И. *Электроснабжение: учебник / Б.И. Кудрин*. - РнД: Феникс, 2018. - 382 с.
8. *Copenhagen Energy Vision: A sustainable vision for bringing a Capital to 100% renewable energy.* /Mathiesen, Brian Vad; Lund, Rasmus Sjøgaard; Connolly, David; Ridjan, Iva; Nielsen, Steffen. Department of Development and Planning, Aalborg University, 2015.
9. Lund H. *Renewable Energy Systems: A Smart Energy Systems Approach to the Choice and Modeling of 100% Renewable Solutions*. Academic Press, Elsevier, Massachusetts, USA, 2014. ISBN: 978-0-12-410423-5.
10. www.stat.uz - Energy industry