

THE STATE OF THE WORLD'S FUEL AND ENERGY BALANCE AND THE COAL MINES OF UZBEKISTAN

Nabiev Sirojiddin Alim Ugli

Master degree student

Nabieva Nilufar Olim Qizi

student, University of Geological Sciences

Abstract: *in this statement it shows that the energy and fuel balance of the world in last century and nowadays. Also it explains that the improving coal mines in 5 years in Uzbekistan.*

Key words: *energy and fuel balance, coal, mining, oil.*

The problem of energy supply has always been in the eyes of mankind, and its unique issues have been manifested in every historical period.

At the beginning of the 20th century, coal (65%), firewood (16%), plant and animal waste (16%) were widely used in the world balance. The share of oil in the fuel balance was only 3%. Natural gas was not used at all.

By the 30s of the 20th century, the share of coal in the energy balance decreased (55%), the share of oil increased (15%), and combustible gases began to be used (3%).

Later (1960s and 1980s), as a result of the increase in the use of fuel and energy resources, the structure of the energy balance changed dramatically.

As a result, the share of oil increased by 1.35 times and the share of gas by 1.56 times, while the share of solid fuel decreased by 1.7 times. During this period, the use of all types of fuel and energy resources increased by 2.4 times and amounted to approximately 10.5 billion. t arranged conditional fuel.

In recent years, the use of coal on the world scale has been growing faster than the use of energy in general. In the 1980s, in general, the use of energy (compared to 1970) increased by 17%, while the use of coal was 26%.

Currently, the share of coal and oil in the world energy balance (in terms of production and use) is equal to each other.

In the future, it is planned to increase the production of solid fuel (coal, combustible shale, peat) deposits. Because they account for 90% of world reserves, and only 7% of oil and gas reserves. If their combustion heat is taken into account, then the share of solid fuels is 74%, and the share of gas and oil is 26%.

Currently, the number of underground coal pools and mines is more than 3,600. Seven of them are giant basins, and each of them has a geological reserve of 500 billion. is more than a ton. They include: Lensk, Tungusk, Taimirsk, Konsko-Achinsk, Kuznetsk (Russia), Alma-Amazonka (Brazil), Apalchansk (USA). Reserves of four basins - Nizhnereinsko-Westfalsk (FRG), Donetsk (Ukraine), Pechersk (Russia), Illinois (USA) basins

are 200-500 billion. makes tons. About 210 basins and mines each have reserves of 0.5200 billion. tons. Reserves of all remaining coal basins and mines are 0.5 billion. does not exceed a ton.

Coal and lignite reserves are distributed by continents as follows: Asia - 57%, America - 30%, Europe - 9%, Australia and Africa - 2% each.

In the Republic of Uzbekistan, coal is one of the main sources of energy and an important raw material for other industries. Coal mines located on the territory of the country and having large coal reserves will make it possible to further increase the volume of coal mining in the future.

In coal mining enterprises (mines and pits), various methods and excavation systems, as well as mechanization tools, are widely used to open the mine area and prepare it for digging. However, the technical level of the production processes of the existing enterprises and the main technical and economic indicators are much lower than the indicators of the developed coal mining regions of the CIS countries. Therefore, it is necessary to constantly improve coal mining.

At present, a number of coal deposits have been discovered in Uzbekistan, and research work has been carried out and is being carried out. These include Angren coal mine, Shargun coal mine, Boysun coal mine and others.

Angren coal mine is located in the Angren river valley of Tashkent region, its area is 70 km² and it is the largest coal basin in terms of reserves. Shargun and Boysun coal mines are located in the mountainous regions of Surkhandarya region, and the geological and mining-technical conditions are quite complex. Due to the high quality of the coal of these mines, it is of great importance in the national economy of the republic.

The reserves of coal mines located in the territory of the Republic of Uzbekistan create great opportunities for the development of the country's national economy.

In addition to the coal mines mentioned above, the Kogurtong coal mine located on the borders of Uzbekistan and Turkmenistan is also of great importance. This mine is located 110 km north of the city of Termiz and 50 km from the "Bozir" railway station. In 1940-1957, the part of this mine located close to the surface of the earth was mined by local industrial mines, and now it is conserved.

The geological and hydrogeological conditions of the mine and the good quality of the coal will ensure the efficiency of its use in the future. The search and exploration of new coal mines continues in the territory of the republic.

Uzbekistan intends to increase the volumes of coal mining 3.1 times by shaft method in the next five years. It is expected that by the end of 2017, the country will produce up to 3.92 million tons of solid fuel, while in 2019 the indicator is projected to reach 4.78 million tons, and as much as 11.67 million tons in 2021. Last year, 3.87 million tons of coal was extracted in the country.

In general, it is intended to invest \$690.5 million in the development and modernization of the coal industry in 2017-2021. The measures will be taken under six

investment projects. Major sources of funding include the Fund for the Reconstruction and Development of Uzbekistan with \$68.7 million, and soft loans of the Shanghai Cooperation Organization in the amount of \$378.7 million, \$155.6 million of loans of Uzbek commercial banks, and \$87.5 million of private funds of enterprises.

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