



Article

Analysis of The Main Trends of Changes in The Development of Industrial Sectors of Fergana Region

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Abstract: This article analyzes the basic trends in the development of industrial sectors in Fergana valley and discusses their impact on the economy. This analysis reveals opportunities for increasing the potential of industrial sectors in Fergana region.

Keywords: Industry, Fergana Region, Production, Analysis, Local Economy

1. Introduction

Analysis of industrial production by region has a significant impact in regional development and boosting productivity of the economy. The distinctions in the level of industrial production in distinct regions are associated with differences in economic resources, infrastructure and investment opportunities [1]. Such an analysis allows for a broader understanding of the country's economic potential and the definition of strategic directions for reducing economic disparities between regions [2]. Also, the study of the main indicators of industrial production by region is of great importance in the formation of regional policy, supporting the local economy and increasing competitiveness. Therefore, regional analysis of industrial production is one of the main tools for balancing the country's economic development and ensuring sustainable economic growth [3].

Analysis of literature on the topic. To date, research related to the volume of industrial production has been conducted by a number of researchers [4]. The classical economic geography literature (written by economists such as Paul Krugman and Michael Porter) has argued for the importance of regional growth and industrial clusters in the economy [5]. They have identified a link between the concentration of industry in certain regions and economic infrastructure. [6] According to Porter's theory of competitive advantage, regions with developed industries tend to have higher production volumes and higher competitiveness, which in effect could result in a positive or negative affect on other regions.

The issues of increasing the volume of regional industrial production have been widely covered in many studies [7]. For example, Williamson in his studies studied the processes of emergence and development of economic disparities between regions. At the same time, many modern researchers have shown the role of the state, investment attraction strategies and the need for infrastructure development to ensure regional development [8].

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Our scientists, such as Gulyomov A.A., Qosimov E., Qosimov I., Nurimbetov R.I., Metyakubov A.D., Toshmukhamedova K.S. Matrizayeva D. Yu., Kurbaniyazov Sh.K., Djumaniyazov U.I., Abdullayev A.A., conducted research on methods of state regulation of the industry.

2. Materials and Methods

The following methodologies were used to conduct the analysis:

1. Data collection: Data was obtained from www.stat.uz, which shows the amount of industrial output for each region.
2. Territorial distribution: Regions were divided into high and low-developed regions according to their level of economic development, and the volume and growth rates of industrial production were analyzed according to these groups [9].

3. Results

In 2017, the amount of industrial output in Fergana region counted to 9728.455 billion soums, of which the volume of mining and open pit mining amounted to 31.55197 billion soums, and the amount of industrial output produced counted to 9230.915 billion soums. The amount of industrial output produced included food manufacturing, drink manufacturing, cigarette production, fabric manufacturing production, apparel manufacturing, leather goods production - 4904.051 billion soums, lumber and cork materials (except furniture), basketry woven straw products, pulp and paper materials, print media production - 137.5215 billion soums, the volume of the industry of rubber and plastic products, other non-metallic mineral products, coke and oil refining products, chemical products, and basic pharmaceutical products and preparations amounted to 3536.223 billion soums.

Table 1. Industrial product output by economic sector in the Fergana valley (billion soums).

Years	2017	2018	2019	2020	2021	2022	2023
Industrial output, billion soums	9728,455	13613,79	18661,22	21701,21	27761,4	30303,45	35794,9
Mining and open pit mining	31,55197	49,23181	116,5013	133,878	132,8	101,8009	216,0014
Manufacturing industry	9230,915	12966,86	17266,07	20007,54	25917,2	28338,55	33170,62
<i>Including:</i>							
Food manufacturing, drink manufacturing, cigarette production, fabric manufacturing production, apparel manufacturing, leather goods production	4904,051	6250,632	8196,763	10290,34	13833,1	15567,05	17083,76
Lumber and cork materials (except furniture), basketry woven straw products, pulp and paper materials, print media production	137,5215	298,6897	368,0811	454,1873	698,6	715,8551	781,2814
Manufacture of rubber and plastic products, Manufacture of other non-metallic mineral products, Manufacture of coke and petroleum products, Manufacture of chemical products, Manufacture of basic pharmaceutical products and preparations	3536,223	5301,473	6961,997	7362,781	8873,4	9094,571	11288,4
metallurgy sector, processed metal products industry, high-tech device	269,972	530,3592	760,0948	830,1566	1365,9	1762,697	2047,081

production, electrical device production and industrial equipment production							
Vehicle and trailer productin, mobility equipment manufacturing	128,7165	273,9545	460,6125	621,9577	463,3	788,3195	1366,393
Furniture manufacturing, Other manufactured goods manufacturing, Repair and installation of machinery and equipment	254,432	311,7562	518,5258	448,1096	682,6	410,0557	603,6999
Electricity, gas, steam and air conditioning supply, Water supply; sewage system, waste collection and disposal	465,9879	597,6946	1278,644	1559,789	1711,4	1863,105	2408,279

We can also see that the volume of the metallurgy sector, processed metal products industry, high-tech device production, electrical device production and industrial equipment production not included in other categories amounted to 269.972 billion soums, the volume of vehicle and trailer productin, mobility equipment manufacturing amounted to 128.7165 billion soums, the volume of the furniture production, production of other finished products, repair and installation of machinery and equipment amounted to 254.432 billion soums, and the volume of the electricity, gas, steam supply and air conditioning, water supply; sewage system, waste collection and disposal industries amounted to 465.9879 billion soums.

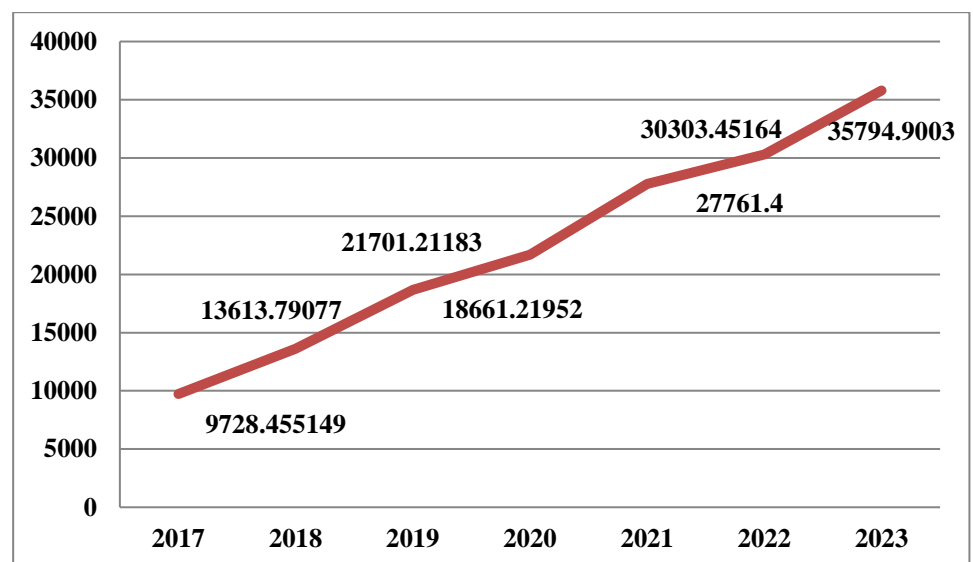


Figure 1. Dynamics of changes in the volume of industrial production in Fergana region (billion soums)

In 2017, the scale of manufacturing outputs produced by Fergana region accounted for 94.9% of the total industrial production. We can see that the volume of food manufacturing, drink manufacturing, cigarette production, fabric manufacturing production, apparel manufacturing, leather goods production accounted for 53.1% of the total industrial production, while the volume of vehicle and trailer productin, mobility equipment manufacturing accounted for 1.4%.

In 2023, the amount of manufacturing production in Fergana region increased by 3.6 times compared to 2017 and amounted to 35794.900303 billion soums [10]. We can see that the volume of mining and open pit mining industry increased by 6.8 times to 216.001448 billion soums, and the volume of industrial products produced increased by 3.6 times to 33170.620062 billion soums.

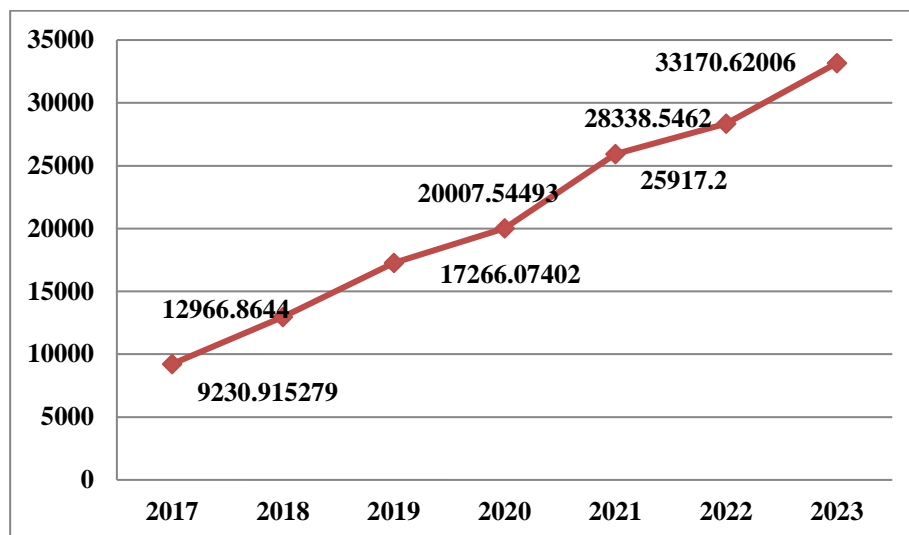


Figure 2. Dynamics of changes in the scale of manufacturing outputs created in Fergana region (billion soums)

In 2023, the scale of manufacturing output produced by the Fergana region in the production of vehicle and trailer productin, mobility equipment manufacturing increased by 10.6 times compared to 2017 and amounted to 1366.393347 billion soums, while the volume of furniture production, production of other finished goods, and repair and installation of machinery and equipment recorded a relatively lower figure, increasing by 2.3 times and amounted to 603.699915 billion soums.

We can see that the scale of manufacturing outputs in Fergana area increased by 267.4% in 2017, and the proportion of manufactured goods in total industry of output was 92.7%, and we can see that it decreased by 2.2% in 2017.

4. Discussion

The development of industrial sectors in Fergana region plays an important role in strengthening the regional economy and ensuring sustainable growth of the country [11]. The consequence show that the diversification of industry in the region is increasing, and leading industries such as textiles, food, and automotive are successfully developing. The increase in the volume of export-oriented production, the introduction of innovative technologies, and the effective use of natural resources have become the main factors of industrial development [12].

Also, the pursuit of ecological sustainability and the execution of environmental conservation actions are of great importance for making the future growth of the region's industry more efficient [13], [14], [15].

5. Conclusion

In conclusion, the development of industry in Fergana region is important for increasing the region's financial prospects and achieving success in competing with international markets. Systematic planning and effective management of this process will guarantee the long-term and competitive growth of the industry. The need to transition the economy to the path of innovative development requires large-scale technological and organizational changes, solving the problems of increasing its innovative activity. The development and implementation of an innovation strategy in the management of industrial enterprises in Uzbekistan is an urgent task facing the state, since industry forms the production and technological potential of all types of economic activity.

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