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Quarterly Industrial Production Index

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1. Introduction to the Industrial Production Index:

The industrial production index measures relative changes and reflects the development in the volume of production of materials and commodities. Industrial production means the process of converting raw materials (inputs) into consumables in their final form in the form of commodities (outputs) in order to achieve a material, return for the facility.

The basket of the industrial production index contents of following economic sectors:

1. Mining sector: which includes oil and gas extraction, with a relative weight of 82.46%.
2. Manufacturing sector: which are produced locally, such as food industries, petroleum refining, iron and steel industries, and petrochemicals. And other industries, with a weight of 15.85%.
3. Electricity Sector: which includes electricity generation, transmission, and distribution of electric power, with a weight of 1.16%.
4. Water sector: which includes water collection, treatment, and delivery, with a weight of 0.53%.

Each main activity is disaggregated into sub-groups classified according to the international classification (CPC.ver.2.1)). The index of industrial production is calculated using the Laspeyre formula for indices, which is the well-known mathematical formula in the statistics field, that calculates the index using levels of values weighted by the weights of the base period. The base year has been changed by adopting the base year of 2018, and the weights (importance) have been calculated by using the production values of industrial products in that year. This report is considered the second quarterly release during year of 2023.

2. Most important features of IPI in Q2, 2023

The general index reached 103.32 points in the second quarter of 2023, with an increase of 1.5% compared to the previous quarter (the first quarter of 2023), and an increase of 2.5% when compared with the corresponding quarter in 2022.

The sectors that make up the index also recorded several changes compared to the previous quarter, as the mining and quarrying sector index reached 103.18 points, up by 1.1% from the previous quarter, the manufacturing industry index scored 103.43 points, up by 0.3%, and the electricity supply sector index reached 111.15 points, an increase of 45.0%, while the index for the water supply sector recorded 104.39 points, an increase of 11.6%.

Table (1)

Code	Activity	Weights	Q2-2023	Q1-2023	Q2-2022	Q-o-Q	Y-o-Y
IPI	General Index	100.00	103.32	101.77	100.84	1.5	2.5
B	Mining and Quarrying	82.46	103.18	102.05	100.67	1.1	2.5
06	Extraction of Crude Petroleum and Natural Gas	82.31	103.18	102.04	100.67	1.1	2.5
08	Other Mining and Quarrying	0.15	105.45	103.21	101.76	2.2	3.6
C	Manufacturing	15.85	103.43	103.13	100.48	0.3	2.9
10	Manufacture of Food Products	0.28	113.93	113.08	106.35	0.8	7.1
11	Manufacture of Beverages	0.09	105.82	99.06	105.15	6.8	0.6
18	Printing and Reproduction of Recorded Media	0.20	14.82	15.98	16.83	-7.3	-11.9
19	Manufacture of Coke and Refined Petroleum Products	2.73	86.64	90.52	93.96	-4.3	-7.8
20	Manufacture of Chemicals and Chemical Products	9.05	104.20	101.37	95.68	2.8	8.9
22	Manufacture of Rubber and Plastics Products	0.36	101.05	103.85	112.10	-2.7	-9.9
23	Manufacture of Other Non-Metallic Mineral Products	1.55	75.38	73.32	87.09	2.8	-13.5
24	Manufacture of Basic Metals	1.58	100.77	94.66	84.97	6.5	18.6
D	Electricity Supply	1.16	111.15	76.65	116.19	45.0	-4.3
35	Electricity, Gas, Steam and Air Conditioning Supply	1.16	111.15	76.65	116.19	45.0	-4.3
E	Water Supply	0.53	104.39	93.54	104.65	11.6	-0.3
36	Water Collection, Treatment and Supply	0.53	104.39	93.54	104.65	11.6	-0.3

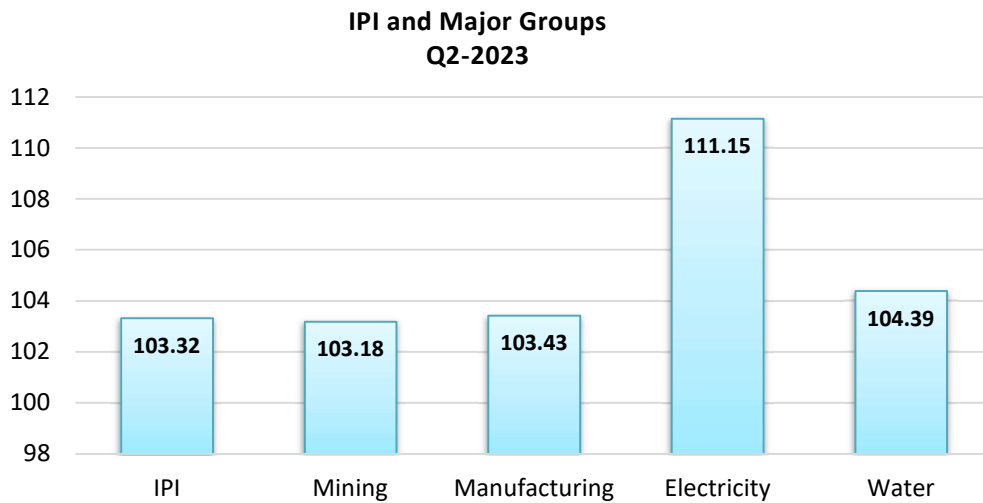
3. Comparing Q2, 2023 to Q1, 2023, QoQ:

The general index in the second quarter of 2023 reached 103.32 points, increased by 1.5% when compared with the previous quarter (Q1-2023). This happened as a result of the changes in production in the main sectors:

A. Mining sector:

This sector is considered one of the most important reasons affecting the trend of the general index, given that its relative weight represents 83.61% of the total basket making up the industrial production index. Where the index for this sector indicates an increase of 1.1% compared to the previous quarter (Q1-2023), as a result of the increase in the “extraction of crude oil and natural gas” group by the same percentage mentioned above, other mining and quarrying recorded an increase of 2.2%.

Graph (1)



B. Manufacturing sector:

The index of this sector, which includes eight sub-groups, indicates an increase of 0.3% compared to the previous quarter (Q1-2023), due to the increase in five groups and the decrease in three. The groups showed an increase include: “Manufacture of beverages” by 6.8%, followed by “Manufacture of basic metals” by 6.5%, “Manufacture of chemicals and chemical products”, and “Manufacture of cement and other non-metallic mineral products” by 2.8% each, and “Manufacture of food products” by 0.8%. However, a decrease was recorded in “Printing and reproduction of recorded media” by 7.3%, followed by “Manufacture of refined petroleum products” by 4.3%, “Manufacture of rubber and plastics products” by 2.7%,.

C. Electricity supply sector:

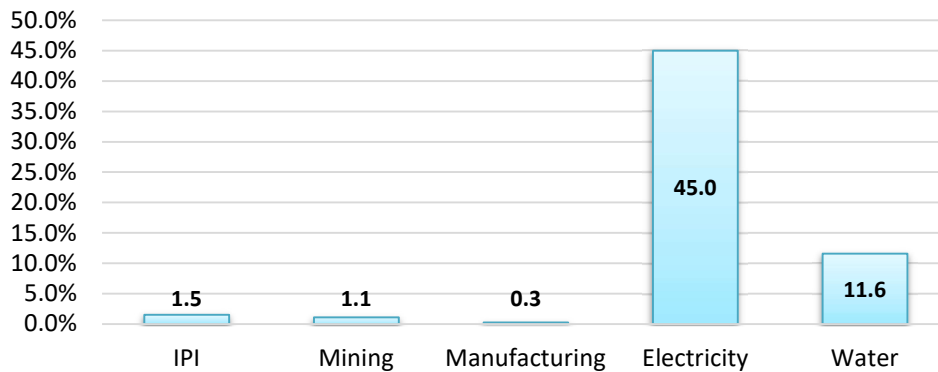
The index of this sector recorded an increase of 45.0% in the second quarter of 2023, compared to the previous quarter (Q1-2023), and due to the fact that the relative weight of this sector is very small, there was no noticeable impact on the general index.

D. Water supply sector:

The index of this sector recorded an increase of 11.6% in the second quarter of 2023, compared to the previous quarter (Q1-2023), and due to the fact that the relative weight of this sector is very small, there was no noticeable impact on the general index. The following chart No. (2) shows the quarterly change rates in the general index and the main groups between Q2 of 2023 and Q1 of 2023

Graph (2)

Percentage of Change in Quartely IPI and Major Groups
Q2-2023



4. Comparing Q2, 2023 to the corresponding Quarter in 2022, YoY

The index increased in the second quarter of 2023 by 2.5%, compared to the corresponding quarter of 2022, and this was due to the changes that occurred in the production of the main sectors.

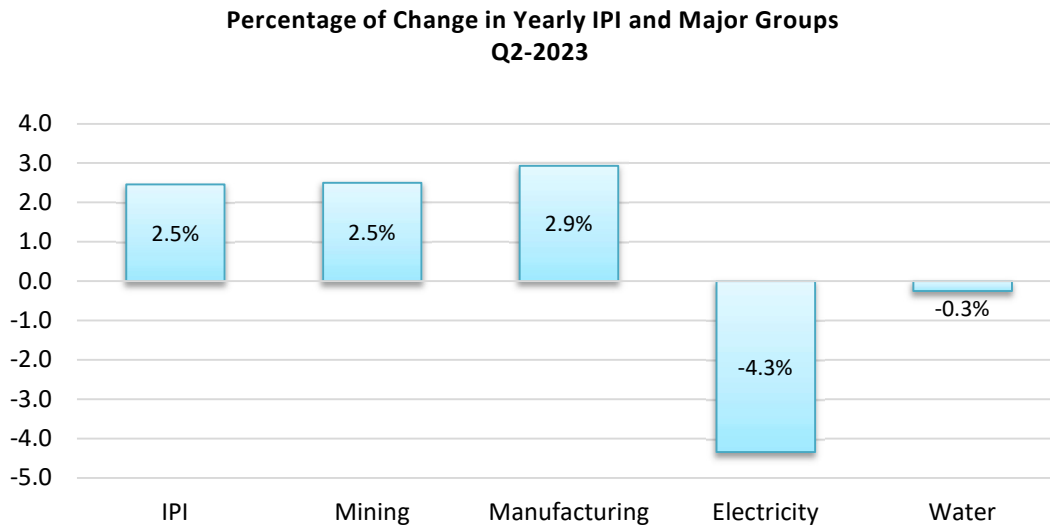
1. Mining sector:

This sector is considered one of the most important reasons affecting the trend of the general index, given that its relative weight represents 83.61% of the total basket making up the industrial production index. Where the index for this sector indicates an increase of 2.5% compared to the corresponding quarter (Q2-2022), because of the increase in the “extraction of crude oil and natural gas” group by the same percentage, and (other mining and quarrying) increased by 3.6%.

2. Manufacturing sector:

The index of this sector, which includes eight sub-groups, indicates an increase of 2.9% compared to the corresponding quarter (Q2-2022), due to the increase in four groups and the decrease in four. The groups that recorded an increase are: “Manufacture of basic metals” by 18.6%, followed by “Manufacture of chemicals and chemical products.” by 8.9%, “Manufacture of food products” by 7.1%, and “Manufacture of beverages” by 0.6%. However, a decrease was recorded in: “Manufacture of cement and other non-metallic mineral products” by 13.5%, “Printing and reproduction of recorded media” by 11.9%, “Manufacture of rubber and plastics products” by 9.9%, and “Manufacture of refined petroleum products” by 7.8%.

Graph (3)



3. Electricity supply sector:

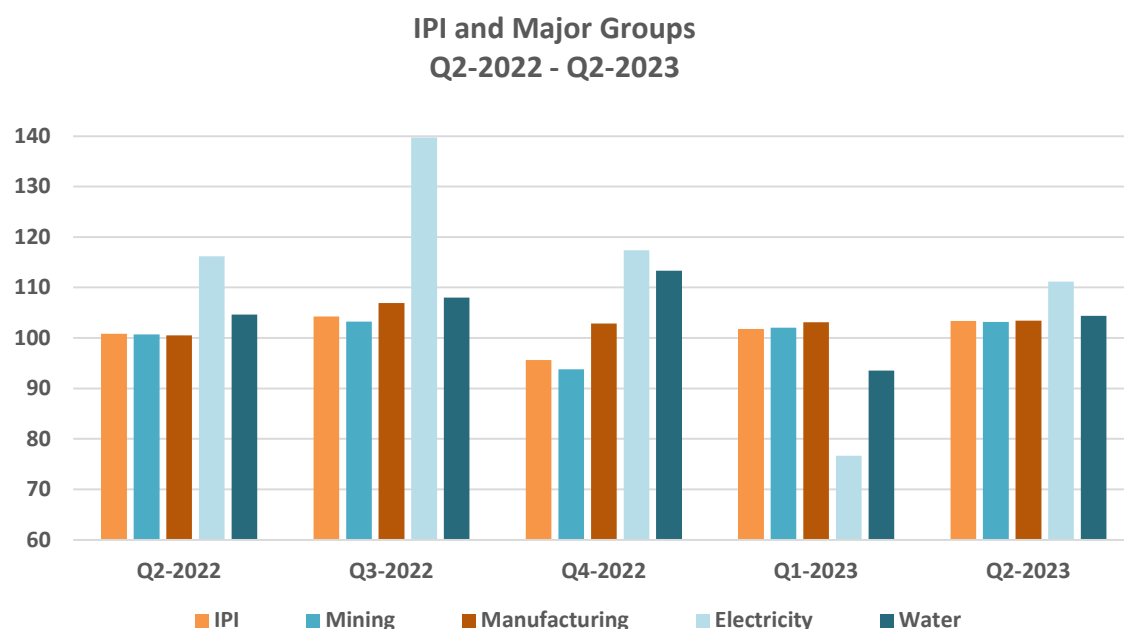
The index of this sector recorded a decrease of 4.3% in the second quarter of 2023, compared to the corresponding quarter (Q2 - 2022), and due to the fact that the relative weight of this sector is very small, there was no noticeable impact on the general index.

4. Water supply sector:

The index of this sector recorded a decrease of 0.3% in the second quarter of 2023, compared to the corresponding quarter (Q2 - 2022), and due to the fact that the relative weight of this sector is very small, there was no noticeable impact on the general index.

The following chart No. (3) shows the yearly change rates in the general index and the main groups between the Q2 of 2023 and Q2 of 2022

Graph (4)



5. Tables

Table 1: Quarterly Industrial Production Index Series- level 3
Q2, 2023

2018=100

Code	Activity	Q2-2023	Q1-2023	Q2-2022
IPI	General Index	103.32	101.77	100.84
B	Mining And Quarrying	103.18	102.05	100.67
06	Extraction Of Crude Petroleum and Natural Gas	103.18	102.04	100.67
061	Extraction Of Crude Petroleum	112.79	109.77	102.23
062	Extraction Of Natural Gas	99.01	103.70	99.98
08	Other Mining and Quarrying	105.45	103.21	101.76
081	Quarrying Of Stone, Sand and Clay	105.45	76.50	101.76
C	Manufacturing	103.43	103.13	100.48
10	Manufacture Of Food Products	113.93	113.08	106.35
105	Manufacture Of Dairy Products	120.06	113.92	126.94
106	Manufacture Of Grain Mill Products, Starches and Starch Products	116.84	114.39	92.07
107	Manufacture Of Other Food Products	104.65	97.19	93.32
11	Manufacture Of Beverages	105.82	99.06	105.15
110	Manufacture Of Beverages	105.82	99.06	105.15
18	Printing And Reproduction of Recorded Media	14.82	15.98	16.83
181	Printing And Service Activities Related to Printing	14.82	15.98	16.83
19	Manufacture Of Coke and Refined Petroleum Products	86.64	90.52	93.96
192	Manufacture Of Refined Petroleum Products	86.64	90.52	93.96
20	Manufacture Of Chemicals and Chemical Products	104.20	101.37	95.68
201	Manufacture Of Basic Chemicals, Fertilizers and Nitrogen Compounds, Plastics and Synthetic Rubber In Primary Forms	104.18	101.37	95.61
202	Manufacture Of Other Chemical Products	106.78	102.19	109.14
22	Manufacture Of Rubber and Plastics Products	101.05	103.85	112.10
222	Manufacture Of Plastics Products	82.42	87.61	107.62
23	Manufacture Of Other Non-Metallic Mineral Products	75.38	73.32	87.09
239	Manufacture Of Non-Metallic Mineral Products N.E.C.	67.08	69.51	79.15
24	Manufacture Of Basic Metals	100.77	94.66	84.97
241	Manufacture Of Basic Iron and Steel	100.77	94.66	84.97
243	Casting Of Metals	217.67	224.21	235.75
D	Electricity Supply	111.15	76.65	116.19
35	Electricity, Gas, Steam and Air Conditioning Supply	111.15	76.65	116.19
351	Electric Power Generation, Transmission and Distribution	111.15	76.65	116.19
E	Water Supply	104.39	93.54	104.65
36	Water Collection, Treatment and Supply	104.39	93.54	104.65
360	Water Collection, Treatment and Supply	104.39	93.54	104.65

Table 3: Change Percentages of Industrial Production Index (%)
Q2, 2023

Code	Activity	Q o Q	Y o Y
IPI	General Index	1.5	2.5
B	Mining And Quarrying	1.1	2.5
06	Extraction of Crude Petroleum and Natural Gas	1.1	2.5
061	Extraction of Crude Petroleum	2.8	10.3
062	Extraction of Natural Gas	-4.5	-1.0
08	Other Mining and Quarrying	2.2	3.6
081	Quarrying of Stone, Sand and Clay	37.8	3.6
C	Manufacturing	0.3	2.9
10	Manufacture of Food Products	0.8	7.1
105	Manufacture of Dairy Products	5.4	-5.4
106	Manufacture of Grain Mill Products, Starches and Starch Products	2.1	26.9
107	Manufacture of Other Food Products	7.7	12.1
11	Manufacture of Beverages	6.8	0.6
110	Manufacture of Beverages	6.8	0.6
18	Printing And Reproduction of Recorded Media	-7.3	-11.9
181	Printing And Service Activities Related to Printing	-7.3	-11.9
19	Manufacture of Coke and Refined Petroleum Products	-4.3	-7.8
192	Manufacture of Refined Petroleum Products	-4.3	-7.8
20	Manufacture of Chemicals and Chemical Products	2.8	8.9
201	Manufacture of Basic Chemicals, Fertilizers and Nitrogen Compounds, Plastics and Synthetic Rubber in Primary Forms	2.8	9.0
202	Manufacture of Other Chemical Products	4.5	-2.2
22	Manufacture of Rubber and Plastics Products	-2.7	-9.9
222	Manufacture of Plastics Products	-5.9	-23.4
23	Manufacture of Other Non-Metallic Mineral Products	2.8	-13.5
239	Manufacture of Non-Metallic Mineral Products N.E.C.	-3.5	-15.3
24	Manufacture of Basic Metals	6.5	18.6
241	Manufacture of Basic Iron and Steel	6.5	18.6
243	Casting of Metals	-2.9	-7.7
D	Electricity Supply	45.0	-4.3
35	Electricity, Gas, Steam and Air Conditioning Supply	45.0	-4.3
351	Electric Power Generation, Transmission and Distribution	45.0	-4.3
E	Water Supply	11.6	-0.3
36	Water Collection, Treatment and Supply	11.6	-0.3
360	Water Collection, Treatment and Supply	11.6	-0.3

* [Q-o-Q]: Comparing current quarter to the previous quarter of the same year.

* [Y-o-Y]: Comparing current quarter to the same quarter of the previous year.