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Quarterly Industrial Production Index

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First: Introduction to the quantitative industrial production index:

The quantitative industrial production index measures relative changes and reflects the development in the volume of production of materials and commodities. As 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.

This report is considered the first quarterly release, as the industrial production index began to be issued in 2017 on a monthly basis based on the base year 2013 , and the quantitative production basket includes the following economic sectors:

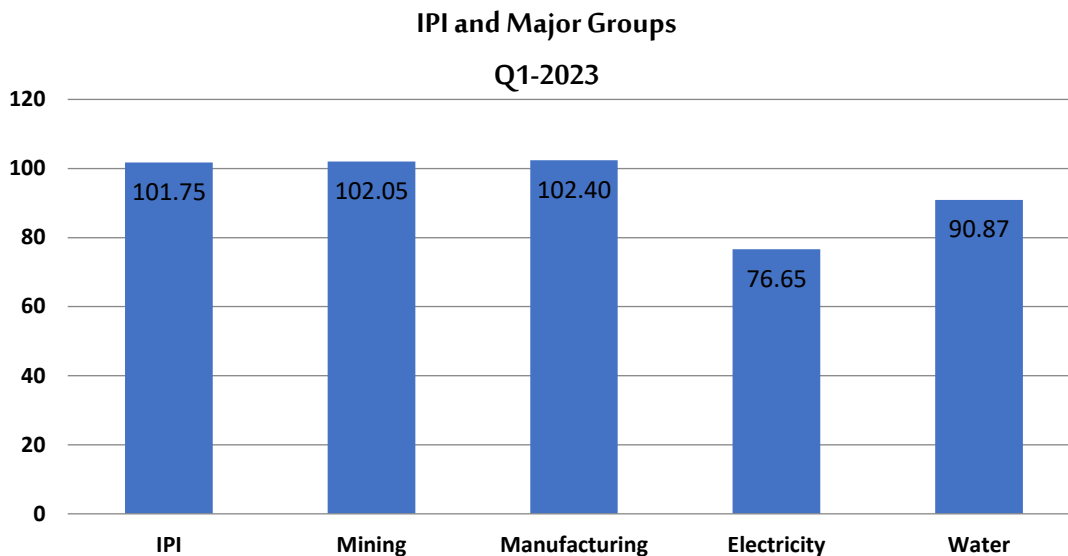
1. Mining sector: which includes oil and gas extraction, with a relative weight of 83.61%.
2. Manufacturing sector: which are produced locally, such as food industries, petroleum refining, iron and steel industries, and petrochemicals. And other industries, with a weight of 15.20%.
3. Electricity Sector: which include electricity generation, transmission and distribution of electric power, with a weight of 0.70%.
4. Water sector: which include water collection, treatment and delivery, with a weight of 0.5%.

And falls under each main activity, sub-groups classified according to the international classification (CPC.ver.2.1)). The index of quantitative industrial production is calculated using the Laspeyre formula for indices, which is the well-known mathematical formula (for the statistician Laspeyre) 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 Relative) of the production values of industrial products in that year.

Secondly: Most important features of IPI in Q1, 2023

1. The general index scored 101.75 points in the first quarter of 2023, increased by 6.4% when compared with the previous quarter (Q4 2022), and increased by 4.6% when compared with the corresponding quarter in 2022.
2. The mining and quarrying activity index scored 102.05 points, increased by 8.8% when compared with the previous quarter (Q4 - 2022), and increased by 5.1% when compared with the corresponding quarter in 2022.
3. The manufacturing activity index scored 102.4 points, decreased by 0.5% when compared with the previous quarter (Q4 - 2022), and increased by 2.2% when compared with the corresponding quarter in 2022.
4. The electricity supply activity index scored 76.65 points, decreased by 34.7% when compared with the previous quarter (Q4 - 2022), and increased by 9.9% when compared with the corresponding quarter in 2022.
5. The water supply activity index scored 90.87 points, decreased by 19.8% when compared to the previous quarter (Q4 - 2022), and decreased by 2.1% when compared with the corresponding quarter in 2022.

Graph (1)



Thirdly: Q-O-Q (Comparing Q1, 2023 to Q4, 2022)

The general index in the first quarter of 2023 reached 101.75 points, increased by 6.4% when compared with the previous quarter (Q4-2022). 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 8.8% compared to the previous quarter (Q4-2022), as a result of the increase in the "extraction of crude oil and natural gas" group by the same percentage mentioned above, Although the group (other mining and quarrying) recorded a decrease of 0.7%.

B. Manufacturing sector:

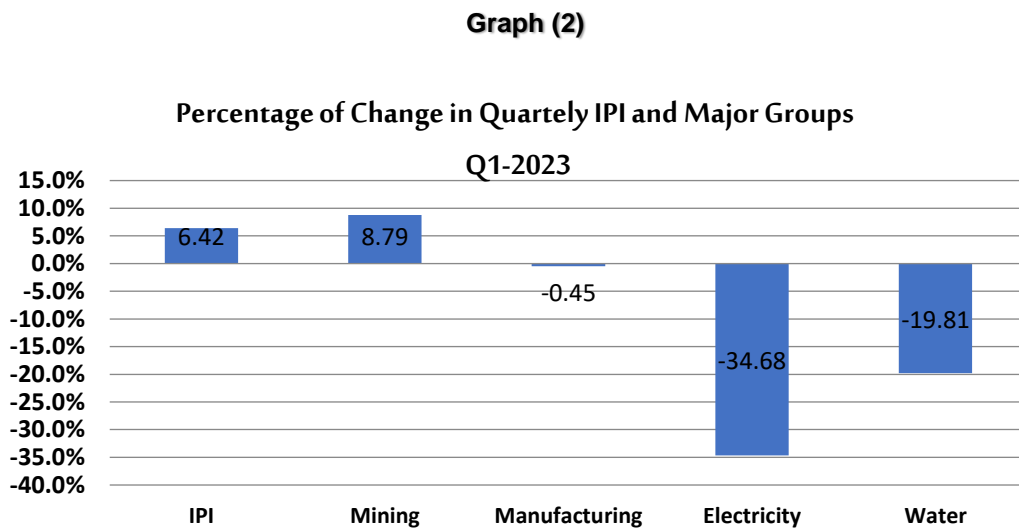
The index of this sector, which includes eight sub-groups, indicates a decrease of 0.5% compared to the previous quarter (Q4 - 2022). The groups showed a decrease include: "Manufacture of beverages" by 10.2%, followed by "Manufacture of cement and other non-metallic mineral products" by 9.2%, "Manufacture of refined petroleum products" by 4.8%, "Manufacture of rubber and plastics products" by 1.5%, and "Manufacture of chemicals and chemical products" by 1.1%. However, an increase was recorded in "Manufacture of basic metals" by 16.0%, followed by "Printing and reproduction of recorded media" by 1.3%, and "Manufacture of food products" by 0.7%.

C. Electricity supply sector:

The index of this sector recorded a decrease of 34.7% in the first quarter of 2023, compared to the previous quarter (Q4 - 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.

D. Water supply sector:

The index of this sector recorded a decrease of 19.8% in the first quarter of 2023, compared to the previous quarter (Q4 - 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. (2) shows the quarterly change rates in the general index and the main groups between Q1 of 2023 and Q4 of 2022



Fourthly: Y-o-Y (Comparing Q1, 2023 to the corresponding Quarter in 2022)

The index increased in the first quarter of 2023 by 4.6%, compared to the corresponding quarter of 2022, and this was due to the changes that occurred in the sectors of the groups that make up the product basket, namely:

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 5.1% compared to the corresponding quarter (Q1-2022), as a result of the increase in the “extraction of crude oil and natural gas” group by the same percentage, and (other mining and quarrying) increased by 8.1%.

B. Manufacturing sector:

The index of this sector, which includes eight sub-groups, indicates an increase of 2.2% compared to the corresponding quarter (Q1-2022), due to the increase in five groups and the decrease in three. The groups that recorded an increase are: “Manufacture of refined petroleum products” by 18.6%, followed by “Manufacture of basic metals” by 14.6%, “Manufacture of beverages” by 5.7%, “Manufacture of food products” by 5.4%, and “Manufacture of chemicals and chemical products.” by 0.9%. As for the groups that recorded a decrease, include: “Manufacture of cement and other non-metallic mineral products” by 19.9%, “Printing and reproduction of recorded media” by 7.6%, and “Manufacture of rubber and plastics products” by 1.7%.

C. Electricity supply sector:

The index of this sector recorded an increase of 9.9% in the first quarter of 2023, compared to the corresponding quarter (Q1 - 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.

D. Water supply sector:

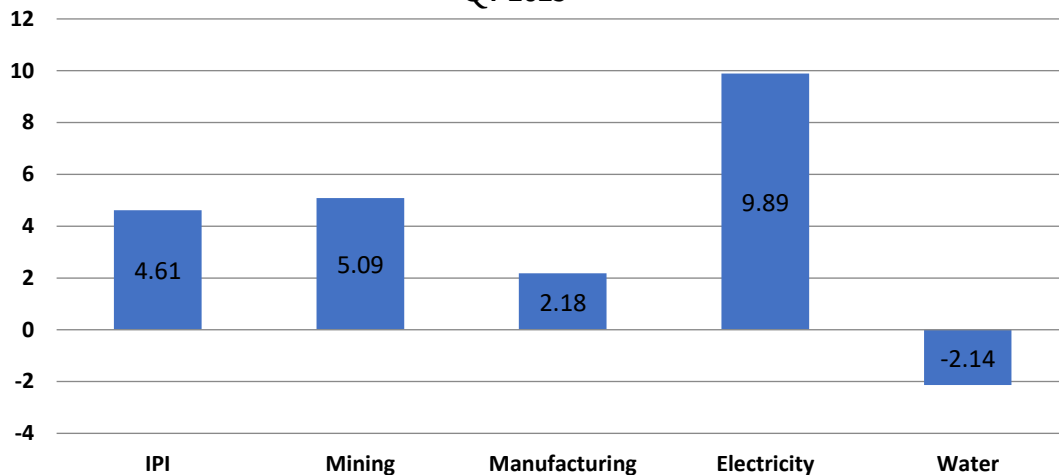
The index of this sector recorded a decrease of 2.1% in the first quarter of 2023, compared to the corresponding quarter (Q1 - 2022), and due to the fact that the relative weight of this sector is very small, there was no noticeable impact on the general index.

The following chart No. (2) shows the quarterly change rates in the general index and the main groups between the Q1 of 2023 and Q4 q of 2022

Graph (3)

Percentage of Change in Yearly IPI and Major Groups

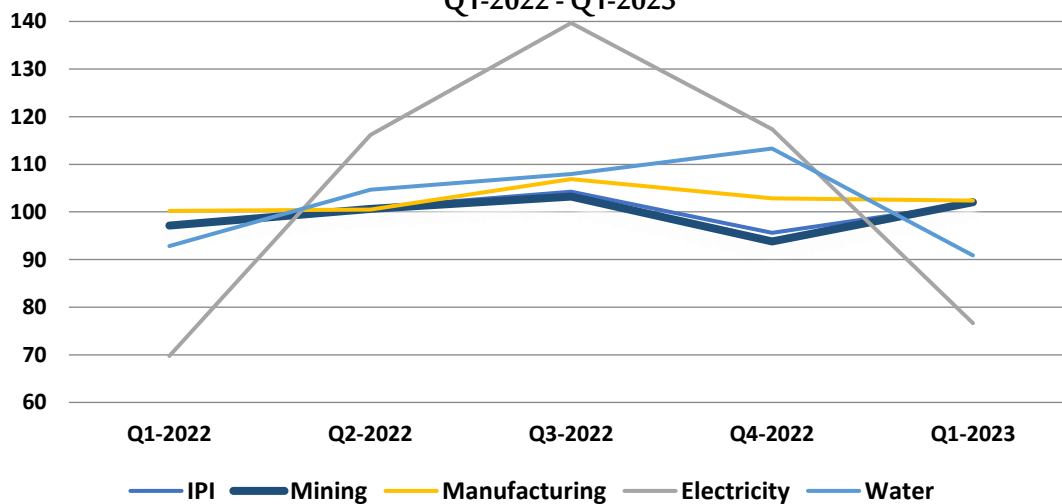
Q1-2023



Graph (4)

IPI and Major Groups

Q1-2022 - Q1-2023



Fifthly: Tables

Table 1: The index and the quarterly and annual percentage change for the first quarter of 2023

Code	Activity	Weights	Q1 2023	Q4 2022	Q1 2022	Q-O-Q	Y-O-Y
0	IPI	100	101.75	95.62	97.26	6.4	4.6
B	Mining and quarrying	83.61	102.05	93.80	97.11	8.8	5.1
06	Extraction of crude petroleum and natural gas	83.58	102.04	93.78	97.11	8.8	5.1
08	Other mining and quarrying	0.03	106.77	107.57	98.79	-0.7	8.1
C	Manufacturing	15.20	102.40	102.87	100.22	-0.5	2.2
10	Manufacture of food products	0.09	115.61	114.77	109.67	0.7	5.4
11	Manufacture of beverages	0.04	99.06	110.29	93.69	-10.2	5.7
18	Printing and reproduction of recorded media	0.18	15.98	15.78	17.30	1.3	-7.6
19	Manufacture of refined petroleum products	2.06	90.52	95.05	76.30	-4.8	18.6
20	Manufacture of chemicals and chemical products	10.41	101.37	102.53	100.48	-1.1	0.9
22	Manufacture of rubber and plastics products	0.11	103.85	105.43	105.62	-1.5	-1.7
23	Manufacture of Cement & other non-metallic mineral products	0.72	73.32	80.78	91.57	-9.2	-19.9
24	Manufacture of basic metals	1.59	94.66	81.60	82.62	16.0	14.6
D	Electricity supply	0.70	76.65	117.35	69.75	-34.7	9.9
35	Electricity, gas, steam and air conditioning supply	0.70	76.65	117.35	69.75	-34.7	9.9
E	Water supply	0.49	90.87	113.31	92.85	-19.8	-2.1
36	Water collection, treatment and supply	0.49	90.87	113.31	92.85	-19.8	-2.1

Table 2: Quarterly Industrial Production Index Series

Q1, 2023

(2013=100)

Code	Activity	Q1-2023	Q4-2022	Q1-2022
0	IPI	101.75	95.62	97.26
B	Mining and quarrying	102.05	93.80	97.11
06	Extraction of crude petroleum and natural gas	102.04	93.78	97.11
061	Extraction of crude petroleum	109.77	100.26	101.82
062	Extraction of natural gas	98.69	90.97	95.07
08	Other mining and quarrying	106.77	107.57	98.79
081	Quarrying of stone, sand and clay	106.77	107.57	98.79
C	Manufacturing	102.40	102.87	100.22
10	Manufacture of food products	115.61	114.77	109.67
105	Manufacture of dairy products	116.35	123.49	118.57
106	Manufacture of grain mill products, starches and starch products	132.95	118.31	101.37
107	Manufacture of other food products	101.66	102.02	105.63
11	Manufacture of beverages	99.06	110.29	93.69
110	Manufacture of beverages	99.06	110.29	93.69
18	Printing and reproduction of recorded media	15.98	15.78	17.30
181	Printing and service activities related to printing	15.98	15.78	17.30
19	Manufacture of coke and refined petroleum products	90.52	95.05	76.30
192	Manufacture of refined petroleum products	90.52	95.05	76.30
20	Manufacture of chemicals and chemical products	101.37	102.53	100.48
201	Manufacture of basic chemicals, fertilizers and nitrogen compounds, plastics and synthetic rubber in primary forms	101.37	102.48	100.38
202	Manufacture of other chemical products	102.19	112.04	121.07
22	Manufacture of rubber and plastics products	103.85	105.43	105.62
222	Manufacture of plastics products	87.61	93.50	105.05

Quarterly Report on Industrial Production Index Q1,2023

Code	Activity	Q1-2023	Q4-2022	Q1-2022
23	Manufacture of other non-metallic mineral products	73.32	80.78	91.57
239	Manufacture of non-metallic mineral products n.e.c.	69.51	74.55	82.29
24	Manufacture of basic metals	94.66	81.60	82.62
241	Manufacture of basic iron and steel	94.66	81.60	82.62
243	Casting of metals	224.21	213.20	231.02
D	Electricity, gas, steam and air conditioning supply	76.65	117.35	69.75
35	Electricity, gas, steam and air conditioning supply	76.65	117.35	69.75
351	Electric power generation, transmission and distribution	76.65	117.35	69.75
E	Water supply; sewerage, waste management and remediation activities	90.87	113.31	92.85
36	Water collection, treatment and supply	90.87	113.31	92.85
360	Water collection, treatment and supply	90.87	113.31	92.85

Table 3: Change Percentages of Industrial Production Index (%)
Q1, 2023

Code	Activity	Q o Q*	Y o Y*
0	IPI	6.42	4.61
B	Mining and quarrying	8.79	5.09
06	Extraction of crude petroleum and natural gas	8.81	5.08
061	Extraction of crude petroleum	9.49	7.81
062	Extraction of natural gas	8.49	3.81
08	Other mining and quarrying	-0.74	8.08
081	Quarrying of stone, sand and clay	-0.74	8.08
C	Manufacturing	-0.45	2.18
10	Manufacture of food products	0.73	5.42
105	Manufacture of dairy products	-5.78	-1.87
106	Manufacture of grain mill products, starches and starch products	12.37	31.16
107	Manufacture of other food products	-0.36	-3.76
11	Manufacture of beverages	-10.18	5.73
110	Manufacture of beverages	-10.18	5.73
18	Printing and reproduction of recorded media	1.31	-7.60
181	Printing and service activities related to printing	1.31	-7.60
19	Manufacture of coke and refined petroleum products	-4.77	18.64
192	Manufacture of refined petroleum products	-4.77	18.64
20	Manufacture of chemicals and chemical products	-1.13	0.88
201	Manufacture of basic chemicals, fertilizers and nitrogen compounds, plastics and synthetic rubber in primary forms	-1.08	0.99
202	Paints, varnishes and related products	-8.80	-15.59
22	Manufacture of plastics products	-1.50	-1.67
222	Tubes, pipes, hoses and fittings of plastics	-6.30	-16.60

Code	Activity	Q o Q*	Y o Y*
23	Manufacture of cement, lime and plaster	-9.23	-19.94
239	cement	-6.76	-15.53
24	Manufacture of basic iron and steel	16.00	14.56
241	Manufacture of basic iron and steel	16.00	14.56
243	Casting of non-ferrous metals	5.16	-2.95
D	Electricity, gas, steam and air conditioning supply	-34.68	9.89
35	Electric power generation, transmission and distribution	-34.68	9.89
351	Electric power generation, transmission and distribution	-34.68	9.89
E	Water collection, treatment and supply	-19.81	-2.14
36	Water collection, treatment and supply	-19.81	-2.14
360	Water collection, treatment and supply	-19.81	-2.14

* [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.