

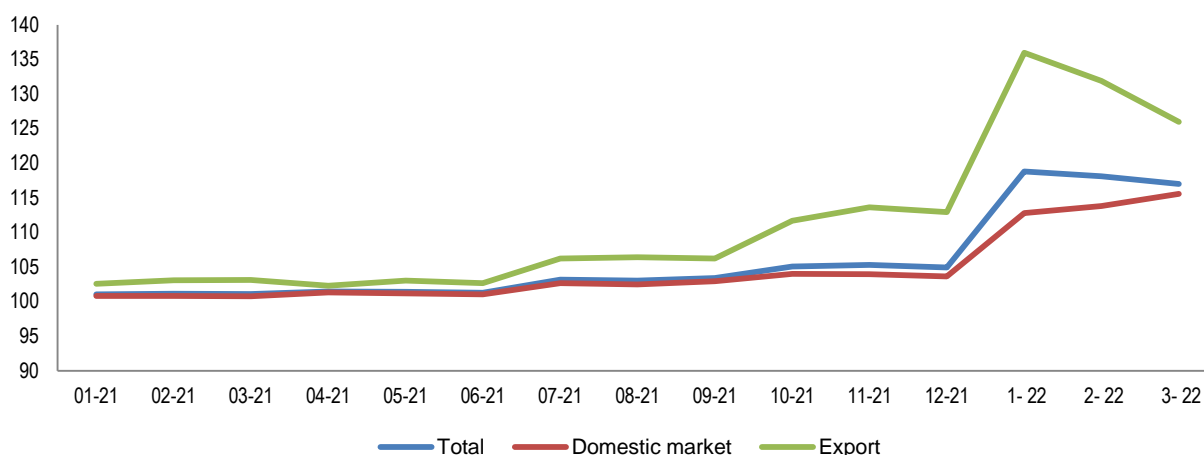
Producer price Index

First quarter, 2022

Tirana, on 07 June 2022: In the first quarter 2021, Producer Price Index reached 118.3 increasing by 17.0 % compared with first quarter 2021.

Producer Price Index in the fourth quarter 2021 increased by 12.5 % compared with fourth quarter 2021.

Fig.1 Producer Price Index



Annual change: Compared to the first quarter of 2021, the largest price increase of 28.5 % is observed in the section "Mining and quarrying" followed by the sections "Electricity, gas, steam and air conditioning" by 22.4 %. Price Index of Production in the section "Manufacturing" has increased by 15.4%. Within this section, the largest increase of prices is observed in the activity "Manufacture of coke and petroleum products refinery" with 26.8 %, followed by the activities "Manufacture of non-metallic mineral products" with 24.8 %, "Manufacture of food products" with 22.8 % etc. On the other side, the largest decrease in prices is observed in the section "Manufacture of electrical equipment " by 1.9 %, followed by sections "Paper printing and regrouping of recorded media" by 1.9 %, "Manufacture of transport vehicles, trailers and semi-trailers" by 1.6 % etc.

Producer Price Index for Domestic Market: Compared to the first quarter of 2021, the index increased by 14.4 %. The largest increase of prices is observed in the section " Manufacturing " with 19.0 %, followed by the section " Mining and quarrying " with 18.4 %, the section "Electricity, gas, steam and air conditioning " with 11.8 % and section "Water supply, waste treatment and management activities, waste" by 0.6 % .

Export price index: Compared to the first quarter of 2021, the index increased by 25.9 %. The largest price increase was recorded in the section "Electricity, gas, steam and air conditioning", followed by the section "Mining and quarrying " with 38.2 %, the section "Water supply, treatment activities and waste management" with 21.7 % and the section "Manufacturing " with 10.5 %.

Quarter changes: Compared to the previous quarter 2021, the largest increase of 18.8 % is observed in the section "Mining and quarrying ". Producer Price Index, in the section "Manufacturing" has increased by 11.7 %. Within this section, the largest increase in prices is observed in the activity "Manufacture of pharmaceutical products and pharmaceutical preparations "by 23.3 %.

Producer Prices Index for Domestic Market: Compared to the fourth quarter of 2021, the index increased by 11.0%. The largest increase is observed in the section "Manufacturing "with 14.6 %.

Export Price Index: Compared to the previous quarter, the index increased by 14.9%. The largest increase of 33.8% is observed in the section "Electricity, gas, steam and air conditioning".

Tab. 1 Producer Price Index

2020=100

NACE	Description	Weights %	1-22	2-22	3-22	I-22	I-22 / IV-21	I-22 / I-2
	Total	100.0	118.9	118.4	117.5	118.3	12.5	17.0
B	Mining and quarrying	10.8	134.1	140.0	135.1	136.4	18.8	28.5
06	Extraction of crude petroleum and natural gas; auxiliary services	3.7	153.6	173.1	159.6	162.1	23.7	47.0
07	Mining of metal ores	6.2	136.8	135.9	134.7	135.8	14.4	25.1
08	Other mining and quarrying	0.9	110.2	112.5	113.0	111.9	8.0	10.8
C	Manufacturing	61.9	114.7	116.1	117.9	116.2	11.7	15.4
10	Manufacture of food products	7.9	122.3	123.6	127.4	124.4	15.9	22.8
11	Manufacture of beverages	1.6	112.9	114.8	114.5	114.1	11.1	13.7
13	Manufacture of textiles	0.7	101.5	101.8	102.1	101.8	0.8	1.5
14	Manufacture of dressing: wearing apparel	7.6	106.9	107.6	108.2	107.6	6.3	7.3
15	Manufacture of leathers and leather products	6.3	105.9	105.6	106.3	105.9	5.0	4.9
16	Manufacture of woods and products of wood and oak. except furniture; Manufacture of articles of straw and reed	0.9	110.3	110.5	111.3	110.7	8.1	9.5
17	Manufacture of papers and paper products	0.9	106.7	106.8	107.3	107.0	6.2	6.8
18	Paper printing and regrouping of recorded media	1.7	98.4	98.6	98.9	98.6	-0.4	-1.9
19	Manufacture of coke and petroleum products refinery	0.7	125.3	125.3	125.3	125.3	14.6	26.8
20	Manufacture of chemicals and chemical products	1.0	120.8	121.9	123.1	121.9	15.9	21.3
21	Manufacture of pharmaceutical products and pharmaceutical preparations	0.9	123.5	123.5	123.5	123.5	23.3	23.4
22	Manufacture of rubbers and plastic products	1.0	117.5	117.3	119.3	118.1	15.5	18.1
23	Manufacture of non-metallic mineral products	6.8	120.9	125.1	131.3	125.8	20.9	24.8
24	Metallurgy	8.5	121.8	121.9	123.1	122.3	17.2	20.6
25	Manufacture of fabricated metal products. except machinery and equipment	4.4	121.1	121.9	123.5	122.2	17.0	22.5
26	Manufacture of optics. electronics and computer products	0.4	99.7	99.7	99.7	99.7	0.4	-0.3
27	Manufacture of electrical equipment	1.3	98.0	98.0	98.1	98.0	-0.6	-1.9
28	Manufacture of machinery and equipment	0.6	100.9	100.9	103.0	101.6	1.6	1.5
29	Manufacture of transport vehicles. trailers and semi-trailers	1.0	98.1	98.0	99.0	98.4	-1.0	-1.6
30	Other transport equipment	0.1	113.0	113.0	113.0	113.0	8.2	13.1
31	Manufacture of furniture	7.1	106.3	111.1	111.9	109.8	7.8	9.5
32	Other Industries	0.2	99.9	99.9	99.9	99.9	0.6	-0.4
33	Repair and installation of machinery and equipment	0.1	105.1	105.1	109.1	106.5	4.1	5.2
D	Electricity, gas, steam and air conditioning	17.5	132.8	121.7	112.6	122.4	17.7	22.4
35	Electricity, gas, steam and air conditioning	17.5	132.8	121.7	112.6	122.4	17.7	22.4
E	Water supply, treatment activities and waste management	9.7	102.8	102.8	103.1	102.9	2.0	2.3
36	Water supply, treatment activities and waste management	8.5	100.6	100.6	100.6	100.6	0.1	0.6
37	Sewage removal and treatment services	0.0	95.6	100.0	100.0	98.5	-1.5	-1.5
38	Activities of collection, treatment and disposal of waste, materials recovery	1.2	121.0	121.6	123.5	122.0	15.0	12.5

Tab. 2 Producer Price Index for domestic market

2020=100

NACE	Description	Weights %	1-22	2-22	3-22	I-22	I-22 / IV-21	I-22 / I-2
	Total	100.0	113.9	115.1	116.9	115.3	11.0	14.4
B	Mining and quarrying	11.7	6.9	121.1	122.9	127.3	123.8	10.2
06	Extraction of crude petroleum and natural gas; auxiliary services	1.5	133.3	140.6	164.5	146.2	14.0	36.1
07	Mining of metal ores	4.2	125.5	125.2	124.3	125.0	7.0	16.8
08	Other mining and quarrying	1.3	110.2	113.1	113.8	112.4	8.4	11.5
C	Manufacturing	57.7	117.7	119.6	122.2	119.8	14.6	19.0
10	Manufacture of food products	9.3	124.9	126.5	131.6	127.7	18.4	25.9
11	Manufacture of beverages	2.5	111.8	114.1	113.8	113.2	10.4	12.8
13	Manufacture of textile	0.1	113.2	114.1	115.5	114.3	9.0	12.7
14	Manufacture of dressing: wearing apparel	1.4	103.7	103.7	104.8	104.1	3.3	4.2
15	Manufacture of leathers and leather products	0.6	105.9	105.9	105.9	105.9	4.1	3.5
16	Manufacture of woods and products of wood and oak, except furniture; Manufacture of articles of straw and reed	0.9	112.3	112.7	114.1	113.0	9.5	12.0
17	Manufacture of papers and paper products	0.3	111.7	112.1	112.1	112.0	6.0	12.0
18	Paper printing and regrouping of recorded media	3.1	98.4	98.6	98.9	98.6	-0.4	-1.9
19	Manufacture of coke and petroleum products refinery	0.1	150.5	150.5	150.5	150.5	39.5	48.7
20	Manufacture of chemicals and chemical products	1.0	123.7	123.9	124.9	124.2	17.1	23.8
22	Manufacture of rubbers and plastic products	1.5	116.7	116.8	119.2	117.6	12.9	17.4
23	Manufacture of non-metallic mineral products	10.1	116.3	121.3	128.6	122.1	17.7	21.2
24	Metallurgy	7.8	132.7	132.7	132.7	132.7	24.3	32.4
25	Manufacture of fabricated metal products, except machinery and equipment	5.6	120.2	121.3	123.3	121.6	16.3	21.9
26	Manufacture of optics, electronics and computer products	0.2	95.6	95.6	95.6	95.6	-2.9	-4.4
27	Manufacture of electrical equipment	0.0	99.8	99.8	99.8	99.8	0.7	-0.2
28	Manufacture of machinery and equipment	0.1	107.8	107.8	110.2	108.6	5.0	8.4
29	Manufacture of transport vehicles, trailers and semi-trailers	0.1	97.1	96.9	98.2	97.4	-1.3	-2.6
30	Other transport equipment	0.0	100.0	100.0	100.0	100.0	0.0	0.0
31	Manufacture of furniture	11.6	107.9	110.2	111.0	109.7	8.1	9.5
32	Other Industries	0.0	99.1	100.1	101.9	100.4	1.8	-0.1
33	Repair and installation of machinery and equipment	0.2	105.1	105.1	109.1	106.5	4.1	5.2
D	Electricity, gas, steam and air conditioning	19.5	111.7	111.7	111.8	111.7	10.1	11.8
35	Electricity, gas, steam and air conditioning	19.5	111.7	111.7	111.8	111.7	10.1	11.8
E	Water supply, treatment activities and waste management	15.8	100.7	100.7	100.7	100.7	0.5	0.7
36	Water supply, treatment activities and waste management	15.0	100.6	100.6	100.6	100.6	0.1	0.6
37	Sewage removal and treatment services	0.0	95.6	100.0	100.0	98.5	-1.5	-1.5
38	Activities of collection, Treatment and disposal of waste, materials recovery	0.9	97.1	97.0	97.1	97.1	8.0	-3.2

Tab. 3 Export Price Index

2020=100

NACE	Description	Weights	1-22	2-22	3-22	I-22	I-22 / IV-21	I-22 / I-22
	Total	100.0	133.4	130.1	125.2	129.6	14.9	25.9
B	Mining and quarrying	16.0	154.5	163.6	152.3	156.8	24.6	38.2
06	Extraction of crude petroleum and natural gas; auxiliary services	6.7	168.4	192.9	166.6	176.0	29.0	52.3
07	Mining of metal ores	8.9	151.8	150.6	149.0	150.5	20.6	32.8
08	Other mining and quarrying	0.4	107.4	107.4	107.5	107.5	6.2	-0.9
C	Manufacturing	67.4	110.7	111.0	111.9	111.2	8.6	10.5
10	Manufacture of food products	6.2	113.2	114.0	115.4	114.2	11.0	12.9
11	Manufacture of beverages	0.5	122.0	122.0	122.0	122.0	16.3	22.0
13	Manufacture of textiles	1.4	98.7	98.9	99.1	98.9	-0.3	-1.0
14	Manufacture of dressing: wearing apparel	15.8	107.3	108.1	108.7	108.0	6.6	7.6
15	Manufacture of leathers and leather products	13.7	105.8	105.5	106.2	105.8	5.0	5.1
16	Manufacture of woods and products of wood and oak, except furniture; Manufacture of articles of straw and reed	0.9	107.5	107.5	107.6	107.5	6.2	6.0
17	Manufacture of papers and paper products	1.7	105.7	105.7	106.4	105.9	6.2	5.8
19	Manufacture of coke and petroleum products refinery	1.4	123.8	123.8	123.8	123.8	13.2	25.3
20	Manufacture of chemicals and chemical products	1.0	116.4	118.7	120.0	118.4	14.4	17.0
21	Manufacture of pharmaceutical products and pharmaceutical preparations	0.1	104.6	104.6	104.6	104.6	0.0	2.1
22	Manufacture of rubbers and plastic products	0.8	119.7	119.1	120.3	119.7	20.2	20.0
23	Manufacture of non-metallic mineral products	2.5	156.3	156.8	156.7	156.6	38.4	54.6
24	Metallurgy	9.5	111.6	111.8	114.2	112.5	9.6	10.2
25	Manufacture of fabricated metal products, except machinery and equipment	2.9	122.6	122.6	122.9	122.7	18.8	22.8
26	Manufacture of optics, electronics and computer products	0.6	101.7	101.7	101.7	101.7	2.0	1.7
27	Manufacture of electrical equipment	2.9	98.0	98.0	98.1	98.0	-0.6	-2.0
28	Manufacture of machinery and equipment	1.3	100.3	100.3	102.5	101.0	1.4	0.9
29	Manufacture of transport vehicles, trailers and semi-trailers	2.1	98.2	98.1	99.1	98.5	-1.0	-1.5
31	Manufacture of furniture	1.3	117.1	122.6	122.8	120.8	14.6	18.6
32	Other Industries	0.4	99.9	99.9	99.9	99.9	0.6	-0.3
D	Electricity, gas, steam and air conditioning	14.9	365.3	297.9	242.9	302.0	33.8	202.0
35	Electricity, gas, steam and air conditioning	14.9	365.3	297.9	242.9	302.0	33.8	202.0
E	Water supply, treatment activities and waste management	1.7	135.7	136.7	140.2	137.5	19.5	21.7
38	Activities of collection, treatment and disposal of waste, materials recovery	1.7	135.7	136.7	140.2	137.5	19.5	21.7

Metodology

INSTAT calculates Producer Price Index for Domestic Production and Export Price Index. Calculation and publication of Producer Price Index in Albania include:

- Producer Price Index in Total
- Producer Price Index for Domestic Production
- Export Price Index

Producer price index measures the change in the prices of products at the first point of sale after production. Producer Price Index is compatible with Eurostat methodology and covers following economic activities:

- Section B - Extracting industry
- Section C - Manufacturing industry
- Section D - Electric power, water and gas
- Section E - Water supply, treatment activities and waste management

These indices are calculated for each product classified according to the Classification of Products by Economic Activity (CPA) in 6 – digit level and are published in two digit level. Renovation of the basket of enterprises and products is based on the results of Annual Structural Survey of Enterprises. For calculation of products 'weights of Producer Price Index for Domestic Production are used data coming from SBS while for calculation of products' weights of Export Price Index are used data coming from Foreign Trade Statistics.

Producer Price Index (PPI) is calculated taking into consideration 2020 as base year (2020 = 100). Calculation's method used in compiling of this index is Laspayer chain – index. It means that each transaction will be compared with its previous year December price (y -1).

Index calculation

For calculation of index is used Laspeyer type and is calculated as following:

$$I_{2020}^{y.m} = \frac{100}{\frac{1}{12} \sum^{Dec} I_{Y-1.Dec}^{Y.M}} + \prod_{Y=2020}^{y-1} I_{Y-1.Dec}^{Y.M} * I_{y-1.Dec}^{y.m}$$

- The first part before the equal sign is stating the price level of December 2020 in percent of the average price level during 2020. hence adjusting the average of 2020 to 100.
- The second term is the chained index movement from December 2020 to December y-1 (a product of yearly index links [short-term - links] from December to December).
- The last part is showing the movement from December y-1 to month m year y.

Measures of index

The annual change measures the price change between the current quarter and the same quarter of previous year. This measures is responsive to recent changes in price levels but can be influenced by one – off effects in either quarter.

Quarterly change measures the price changes between current quarter and previous quarter.