

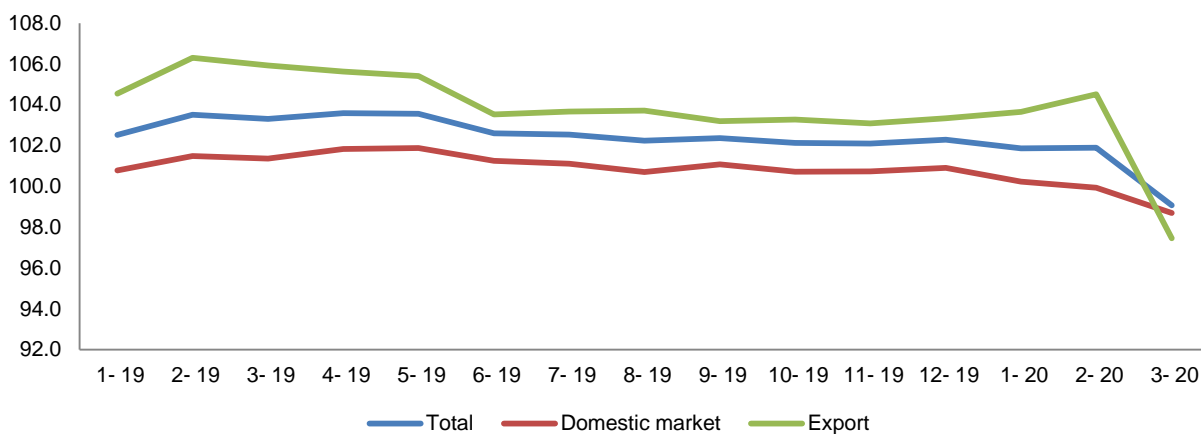
Producer price Index

First quarter, 2020

Tirana, 05 June 2020: In first quarter 2020, Producer Price Index reached 100.9, decreasing by 2.1 %, compared with first quarter 2019.

Producer Price Index, in first quarter 2020, decreased by 1.2 % compared with fourth quarter 2020.

Fig. 1 Producer Price Index



Annual change: Producer Price Index in “Manufacturing” section decreased by 1.5 % compared with first quarter 2019. Within this section prices decreased the most in “Metallurgy” activity by 6.0 % followed by prices in “Manufacture of non-metallic mineral products” activity by 2.4 % and “Manufacture of food products” activity by 1.2 %. Producer Price Index in “Mining and quarrying” section decreased by 14.9 % compared with first quarter 2019. Within this section prices decreased the most in “Extraction of crude petroleum and natural gas; auxiliary services” activity by 23.7 %, where a significant impact was given by March.

Producer Price Index for Domestic Market: Compared with the same period of 2019 the index signed a decrease by 1.6 %. The index in the “Mining and quarrying” and “Manufacturing” sections signed a decrease respectively by 10.4 % and 0.8 %.

Export price index: Compared with the first quarter of the previous year the index signed a decrease by 3.5 %. Prices decreased the most in “Mining and quarrying” section by 20.7 %, followed by “Manufacturing” section by 2.4 %.

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Quarter changes: Producer Price Index decreased by 1.2 % compared with fourth quarter 2019. Producer Price Index in "Mining and quarrying" section decreased by 13.6 % compared with previous quarter. Within this section prices decreased the most in "Extraction of crude petroleum and natural gas; auxiliary services" activity by 24.3 %. Producer prices of products in "Manufacturing" section increased by 0.2 %. Within this section prices increased in "Metallurgy" activity by 2.2 %.

Producer Prices Index for Domestic Market: Compared with the fourth quarter 2019 the index signed a decrease by 1.2 %. Prices decreased the most in "Mining and quarrying" section by 8.1 %.

Export Price Index: Compared with the previous quarter the index signed a decrease by 1.3 %. The index in "Mining and quarrying" section signed a decrease by 20.8 %

Tab. 1 Producer Price Index

2010=100

| NACE | Description | Weights % | 01-20 | 02-20 | 03-20 | I-20 |
|----------|---|--------------|--------------|--------------|--------------|--------------|
| | Total | 100.0 | 101.9 | 101.9 | 99.1 | 100.9 |
| B | Mining and quarrying | 9.8 | 106.3 | 101.1 | 76.1 | 94.5 |
| 06 | Extraction of crude petroleum and natural gas; auxiliary services | 5.1 | 111.4 | 99.8 | 49.0 | 86.7 |
| 07 | Mining of metal ores | 3.6 | 92.3 | 93.7 | 94.0 | 93.3 |
| 08 | Other mining and quarrying | 1.1 | 106.8 | 106.7 | 106.9 | 106.8 |
| C | Manufacturing | 53.5 | 102.9 | 103.0 | 103.3 | 103.1 |
| 10 | Manufacture of food products | 10.1 | 102.5 | 102.5 | 102.5 | 102.5 |
| 11 | Manufacture of beverages | 1.7 | 104.9 | 105.0 | 104.9 | 104.9 |
| 13 | Manufacture of textiles | 0.7 | 101.8 | 101.8 | 101.8 | 101.8 |
| 14 | Manufacture of dressing: wearing apparel | 3.9 | 107.6 | 107.6 | 107.8 | 107.7 |
| 15 | Manufacture of leathers and leather products | 4.5 | 106.5 | 106.6 | 106.5 | 106.5 |
| 16 | Manufacture of woods and products of wood and oak, except furniture; Manufacture of articles of straw and reed | 0.9 | 109.9 | 110.1 | 110.1 | 110.0 |
| 17 | Manufacture of papers and paper products | 0.9 | 111.1 | 100.0 | 111.3 | 107.5 |
| 18 | Paper printing and regrouping of recorded media | 1.5 | 94.5 | 94.2 | 94.2 | 94.3 |
| 19 | Manufacture of coke and petroleum products refinery | 0.2 | 106.9 | 109.5 | 105.2 | 107.2 |
| 20 | Manufacture of chemicals and chemical products | 1.1 | 107.7 | 107.7 | 107.7 | 107.7 |
| 21 | Manufacture of pharmaceutical products and pharmaceutical preparations | 1.0 | 95.6 | 95.6 | 95.6 | 95.6 |
| 22 | Manufacture of rubbers and plastic products | 1.5 | 114.7 | 114.7 | 114.7 | 114.7 |
| 23 | Manufacture of non-metallic mineral products | 6.5 | 98.6 | 98.4 | 98.5 | 98.5 |
| 24 | Metallurgy | 7.2 | 90.6 | 92.2 | 93.5 | 92.1 |
| 25 | Manufacture of fabricated metal products, except machinery and equipment | 6.5 | 104.8 | 104.8 | 104.8 | 104.8 |
| 26 | Manufacture of optics, electronics and computer products | 0.2 | 115.1 | 115.1 | 115.1 | 115.1 |
| 27 | Manufacture of electrical equipment | 0.7 | 101.2 | 101.2 | 101.2 | 101.2 |
| 28 | Manufacture of machinery and equipment | 0.4 | 115.7 | 115.7 | 115.7 | 115.7 |
| 29 | Manufacture of transport vehicles, trailers and semi-trailers | 0.3 | 100.1 | 100.1 | 100.1 | 100.1 |
| 30 | Other transport equipment | 0.0 | 105.2 | 105.2 | 105.2 | 105.2 |
| 31 | Manufacture of furniture | 2.9 | 115.4 | 115.3 | 115.3 | 115.3 |
| 32 | Other Industries | 0.3 | 91.0 | 91.0 | 91.0 | 91.0 |
| 33 | Repair and installation of machinery and equipment | 0.5 | 105.8 | 105.8 | 105.8 | 105.8 |
| D | Electricity, gas, steam and air conditioning | 31.7 | 100.2 | 101.6 | 99.3 | 100.4 |
| 35 | Electricity, gas, steam and air conditioning | 31.7 | 100.2 | 101.6 | 99.3 | 100.4 |
| E | Water supply, treatment activities and waste management | 5.0 | 105.4 | 105.3 | 105.4 | 105.4 |
| 36 | Water supply, treatment activities and waste management | 2.0 | 123.9 | 123.9 | 123.9 | 123.9 |
| 37 | Sewage removal and treatment services | 0.0 | 101.5 | 101.5 | 101.5 | 101.5 |
| 38 | Activities of collection, treatment and disposal of waste, materials recovery | 2.9 | 82.5 | 82.4 | 82.5 | 82.5 |

Tab.2 Quarterly and annual change of Producer Price Index

| | | | | | % |
|----------|---|--------------|--------------|--------------|---|
| NACE | Description | Weights % | I-20 / IV-19 | I-20 / I-19 | |
| | Total | 100.0 | -1.2 | -2.1 | |
| B | Mining and quarrying | 9.8 | -13.6 | -14.9 | |
| 06 | Extraction of crude petroleum and natural gas; auxiliary services | 5.1 | -24.3 | -23.7 | |
| 07 | Mining of metal ores | 3.6 | -2.4 | -7.6 | |
| 08 | Other mining and quarrying | 1.1 | -1.5 | -1.3 | |
| C | Manufacturing | 53.5 | 0.2 | -1.5 | |
| 10 | Manufacture of food products | 10.1 | -0.1 | -1.2 | |
| 11 | Manufacture of beverages | 1.7 | 0.6 | -0.3 | |
| 13 | Manufacture of textiles | 0.7 | 0.3 | 0.2 | |
| 14 | Manufacture of dressing; wearing apparel | 3.9 | 0.1 | -0.7 | |
| 15 | Manufacture of leathers and leather products | 4.5 | -0.8 | -0.6 | |
| 16 | Manufacture of woods and products of wood and oak, except furniture; Manufacture of articles of straw and reed | 0.9 | 2.1 | 3.8 | |
| 17 | Manufacture of papers and paper products | 0.9 | -0.8 | 0.5 | |
| 18 | Paper printing and regrouping of recorded media | 1.5 | -0.1 | -0.7 | |
| 19 | Manufacture of coke and petroleum products refinery | 0.2 | 0.1 | -1.4 | |
| 20 | Manufacture of chemicals and chemical products | 1.1 | 0.7 | -0.3 | |
| 21 | Manufacture of pharmaceutical products and pharmaceutical preparations | 1.0 | -0.6 | -0.6 | |
| 22 | Manufacture of rubbers and plastic products | 1.5 | 0.1 | -2.5 | |
| 23 | Manufacture of non-metallic mineral products | 6.5 | -1.0 | -2.4 | |
| 24 | Metallurgy | 7.2 | 2.2 | -6.0 | |
| 25 | Manufacture of fabricated metal products, except machinery and equipment | 6.5 | 0.1 | -1.2 | |
| 26 | Manufacture of optics, electronics and computer products | 0.2 | 0.0 | -0.9 | |
| 27 | Manufacture of electrical equipment | 0.7 | 0.0 | -1.1 | |
| 28 | Manufacture of machinery and equipment | 0.4 | 0.7 | 0.9 | |
| 29 | Manufacture of transport vehicles, trailers and semi-trailers | 0.3 | 0.5 | -0.6 | |
| 30 | Other transport equipment | 0.0 | 0.0 | 0.0 | |
| 31 | Manufacture of furniture | 2.9 | 0.3 | 0.8 | |
| 32 | Other Industries | 0.3 | -0.6 | -1.4 | |
| 33 | Repair and installation of machinery and equipment | 0.5 | 1.6 | -0.1 | |
| D | Electricity, gas, steam and air conditioning | 31.7 | -0.1 | 0.1 | |
| 35 | Electricity, gas, steam and air conditioning | 31.7 | -0.1 | 0.1 | |
| E | Water supply, treatment activities and waste management | 5.0 | 1.6 | 3.1 | |
| 36 | Water supply, treatment activities and waste management | 2.0 | 3.4 | 5.4 | |
| 37 | Shërbime të trajtimit të kanalizimeve | 0.0 | 0.0 | 0.0 | |
| 38 | Aktivitetet e grumbullimit, trajtimit dhe asgjësimit të mbetjeve; rikuperimi i materialeve | 2.9 | 0.0 | 1.1 | |

Tab. 3 Producer Price Index for domestic market

2010=100 %

| NACE | Description | Weights % | 01-20 | 02-20 | 03-20 | I-20 | I-20 / IV-19 | I-20 / I-19 |
|----------|--|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| | Total | 100.0 | 100.2 | 99.9 | 98.7 | 99.6 | -1.2 | -1.6 |
| B | Mining and quarrying | 7.6 | 111.2 | 107.5 | 89.2 | 102.6 | -8.1 | -10.4 |
| 06 | Extraction of crude petroleum and natural gas; auxiliary services | 2.9 | 117.0 | 105.4 | 54.0 | 92.2 | -20.6 | -21.9 |
| 07 | Mining of metal ores | 3.5 | 108.2 | 109.1 | 109.7 | 109.0 | -0.4 | -6.1 |
| 08 | Other mining and quarrying | 1.2 | 107.8 | 107.9 | 107.9 | 107.9 | -1.8 | -1.6 |
| C | Manufacturing | 45.4 | 101.1 | 101.0 | 101.1 | 101.1 | -0.1 | -0.8 |
| 10 | Manufacture of food products | 10.8 | 104.6 | 104.6 | 104.6 | 104.6 | 0.0 | -0.8 |
| 11 | Manufacture of beverages | 2.1 | 104.7 | 104.9 | 104.7 | 104.7 | 0.6 | -0.1 |
| 13 | Manufacture of textile | 0.4 | 87.8 | 87.9 | 87.9 | 87.9 | 0.8 | 0.8 |
| 14 | Manufacture of dressing: wearing apparel | 1.6 | 108.3 | 108.3 | 108.4 | 108.3 | 0.6 | 0.4 |
| 15 | Manufacture of leathers and leather products | 1.9 | 109.9 | 109.9 | 109.9 | 109.9 | -0.1 | 0.1 |
| 16 | Manufacture of woods and products of wood and oak, except furniture; Manufacture of articles of straw and reed | 0.7 | 110.9 | 110.8 | 110.9 | 110.9 | 2.5 | 5.2 |
| 17 | Manufacture of papers and paper products | 0.2 | 95.7 | 95.7 | 96.6 | 96.0 | 0.4 | -0.1 |
| 18 | Paper printing and regrouping of recorded media | 2.0 | 94.5 | 94.2 | 94.2 | 94.3 | -0.1 | -0.7 |
| 19 | Manufacture of coke and petroleum products refinery | 0.1 | 98.6 | 98.6 | 98.6 | 98.6 | 0.0 | 0.0 |
| 20 | Manufacture of chemicals and chemical products | 0.9 | 98.3 | 98.3 | 98.3 | 98.3 | 1.0 | -0.6 |
| 22 | Manufacture of rubbers and plastic products | 1.6 | 110.5 | 110.5 | 110.5 | 110.5 | -0.1 | -3.1 |
| 23 | Manufacture of non-metallic mineral products | 7.2 | 87.4 | 87.1 | 87.1 | 87.2 | -1.4 | -2.8 |
| 24 | Metallurgy | 3.2 | 87.9 | 87.9 | 88.1 | 88.0 | -0.1 | -1.7 |
| 25 | Manufacture of fabricated metal products, except machinery and equipment | 7.0 | 97.8 | 97.8 | 97.9 | 97.9 | 0.2 | -0.3 |
| 26 | Manufacture of optics, electronics and computer products | 0.1 | 108.5 | 108.5 | 108.5 | 108.5 | 0.0 | 0.4 |
| 27 | Manufacture of electrical equipment | 0.2 | 104.9 | 104.9 | 104.9 | 104.9 | 0.1 | -0.8 |
| 28 | Manufacture of machinery and equipment | 0.2 | 116.1 | 116.1 | 116.1 | 116.1 | -0.2 | 0.6 |
| 29 | Manufacture of transport vehicles, trailers and semi-trailers | 0.1 | 98.3 | 98.3 | 98.3 | 98.3 | 0.1 | -0.2 |
| 30 | Other transport equipment | 0.0 | 102.5 | 102.5 | 102.5 | 102.5 | 0.0 | 0.0 |
| 31 | Manufacture of furniture | 3.2 | 120.1 | 119.9 | 119.9 | 120.0 | 0.2 | 1.3 |
| 32 | Other Industries | 0.1 | 95.0 | 95.0 | 95.0 | 95.0 | -0.6 | 0.3 |
| 33 | Repair and installation of machinery and equipment | 0.6 | 114.3 | 114.3 | 114.3 | 114.3 | 1.6 | -0.1 |
| D | Electricity, gas, steam and air conditioning | 41.2 | 99.0 | 99.0 | 99.0 | 99.0 | -1.4 | -1.2 |
| 35 | Electricity, gas, steam and air conditioning | 41.2 | 99.0 | 99.0 | 99.0 | 99.0 | -1.4 | -1.2 |
| E | Water supply, treatment activities and waste management | 5.8 | 112.7 | 112.7 | 112.7 | 112.7 | 2.5 | 4.0 |
| 36 | Water supply, treatment activities and waste management | 2.8 | 123.9 | 123.9 | 123.9 | 123.9 | 3.4 | 5.4 |
| 37 | Sewage removal and treatment services | 0.0 | 101.5 | 101.5 | 101.5 | 101.5 | 0.0 | 0.0 |
| 38 | Activities of collection, Treatment and disposal of waste, materials recovery | 3.0 | 79.8 | 79.8 | 79.8 | 79.8 | 0.1 | 0.1 |

Tab. 4 Export Price Index

2010=100 %

| NACE | Description | Weights | 01-20 | 02-20 | 03-20 | I-20 | I-20 / IV-19 | I-20 / I-19 |
|----------|--|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| | Total | 100.0 | 103.7 | 104.5 | 97.5 | 101.9 | -1.3 | -3.5 |
| B | Mining and quarrying | 15.6 | 95.5 | 88.8 | 57.1 | 80.5 | -20.8 | -20.7 |
| 06 | Extraction of crude petroleum and natural gas; auxiliary services | 11.2 | 100.9 | 90.0 | 42.8 | 77.9 | -26.5 | -23.7 |
| 07 | Mining of metal ores | 3.9 | 80.2 | 82.8 | 82.8 | 81.9 | -6.7 | -11.4 |
| 08 | Other mining and quarrying | 0.6 | 101.7 | 100.3 | 101.8 | 101.3 | 0.4 | 0.1 |
| C | Manufacturing | 75.0 | 104.0 | 104.2 | 105.2 | 104.5 | 0.6 | -2.4 |
| 10 | Manufacture of food products | 8.5 | 97.7 | 97.7 | 97.8 | 97.7 | -0.2 | -2.2 |
| 11 | Manufacture of beverages | 0.7 | 97.7 | 97.7 | 97.7 | 97.7 | 0.0 | -2.3 |
| 13 | Manufacture of textiles | 1.6 | 108.6 | 108.6 | 108.6 | 108.6 | 0.0 | -0.2 |
| 14 | Manufacture of dressing: wearing apparel | 9.9 | 107.2 | 107.2 | 107.4 | 107.3 | -0.1 | -1.2 |
| 15 | Manufacture of leathers and leather products | 11.6 | 107.6 | 107.7 | 107.7 | 107.7 | -1.1 | -0.9 |
| 16 | Manufacture of woods and products of wood and oak, except furniture; Manufacture of articles of straw and reed | 1.6 | 105.1 | 105.5 | 105.4 | 105.3 | 1.7 | 1.0 |
| 17 | Manufacture of papers and paper products | 2.5 | 115.9 | 101.6 | 115.9 | 111.1 | -0.6 | 0.6 |
| 19 | Manufacture of coke and petroleum products refinery | 0.6 | 101.4 | 104.4 | 99.4 | 101.7 | 0.1 | -1.7 |
| 20 | Manufacture of chemicals and chemical products | 1.7 | 123.0 | 123.0 | 123.1 | 123.0 | 0.2 | 0.1 |
| 21 | Manufacture of pharmaceutical products and pharmaceutical preparations | 0.2 | 101.6 | 101.6 | 101.6 | 101.6 | -0.8 | -0.9 |
| 22 | Manufacture of rubbers and plastic products | 1.2 | 119.9 | 119.9 | 119.5 | 119.8 | 0.9 | -0.3 |
| 23 | Manufacture of non-metallic mineral products | 4.7 | 149.7 | 149.8 | 150.5 | 150.0 | 0.6 | -0.6 |
| 24 | Metallurgy | 17.6 | 93.4 | 96.0 | 97.9 | 95.8 | 3.3 | -6.7 |
| 25 | Manufacture of fabricated metal products, except machinery and equipment | 5.2 | 110.1 | 110.1 | 109.7 | 109.9 | -0.4 | -3.7 |
| 26 | Manufacture of optics, electronics and computer products | 0.4 | 114.8 | 114.8 | 114.8 | 114.8 | 0.0 | -1.3 |
| 27 | Manufacture of electrical equipment | 2.0 | 99.6 | 99.6 | 99.6 | 99.6 | 0.0 | -1.1 |
| 28 | Manufacture of machinery and equipment | 0.8 | 115.9 | 115.9 | 115.9 | 115.9 | 1.2 | 1.1 |
| 29 | Manufacture of transport vehicles, trailers and semi-trailers | 0.9 | 100.4 | 100.4 | 100.4 | 100.4 | 0.6 | -0.8 |
| 31 | Manufacture of furniture | 2.0 | 103.5 | 103.5 | 103.5 | 103.5 | 0.8 | -1.1 |
| 32 | Other Industries | 1.1 | 89.6 | 89.6 | 89.6 | 89.6 | -0.6 | -1.6 |
| E | Water supply, treatment activities and waste management | 2.7 | 87.8 | 87.3 | 87.7 | 87.6 | -0.5 | 1.2 |
| 38 | Activities of collection, treatment and disposal of waste, materials recovery | 2.7 | 87.8 | 87.3 | 87.7 | 87.6 | -0.5 | 1.2 |

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 2010 as base year (2010 = 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:

$$I_{2010}^{y,m} = \frac{100}{\frac{1}{12} \sum_{M=JAN}^{DEC} I_{2010Dec}^{2010,M}} \times \prod_{Y=2010}^{y-1} I_{Y-1,dec}^{Y,dec} \times I_{y-1,dec}^{y,m}$$

- The first part before the equal sign is stating the price level of December 2009 in percent of the average price level during 2010. hence adjusting the average of 2010 to 100.
- The second term is the chained index movement from December 2010 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.