

# Short Term Statistics\*

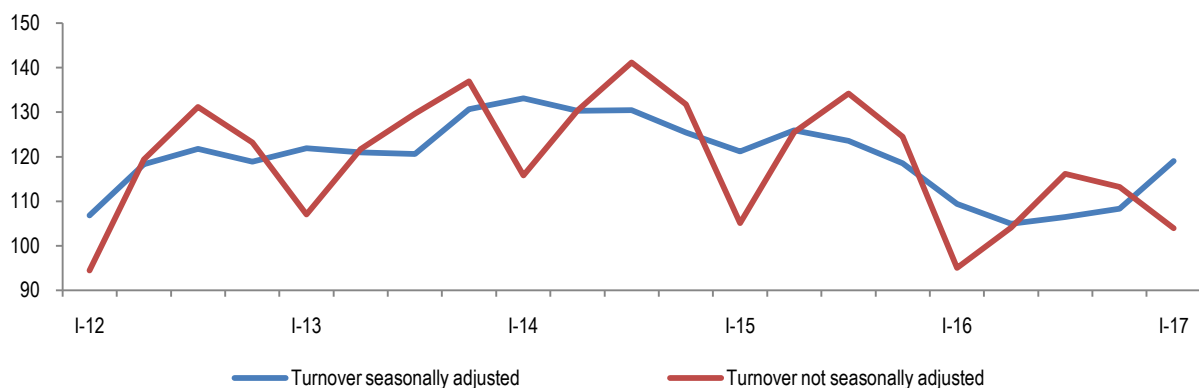
## Producer of Goods - First Quarter, 2017

**Tirana, 14 June:** Producers of goods main quarterly indicators, which include the economic activities: Industry (Mining and quarrying and Manufacturing); Electricity, gas, steam; Water supply; sewerage, waste management and remediation activities; Construction, in the first quarter 2017 (base year 2010=100), are presented as follows:

### Industry::

- Turnover volume index increased by 9.4 %, compared with the same period of the previous year. This indicator seasonally adjusted increased by 9.9 %, compared with the previous quarter;
- Production volume index increased by 13.4 %, compared with the same period of the previous year. While compared with the previous quarter, this indicator seasonally adjusted decreased by 2.5 %;
- The number of employees' index decreased by 2.2 %, compared with the same period of the previous year. Compared with the previous quarter, this indicator seasonally unadjusted decreased by 1.2 %;
- Wages index decreased by 0,1 %, compared with the same period of the previous year. Compared with the fourth quarter 2016, this indicator seasonally unadjusted decreased by 4.1 %.

Fig. 1 Turnover volume index, Industry



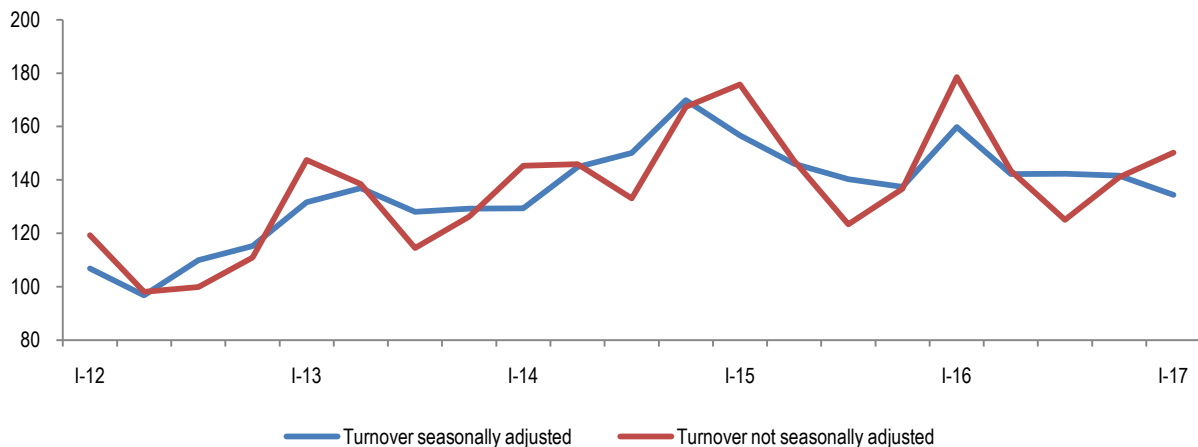
\* INSTAT, from the first quarter 2017 presents the updated statistical time series indicators of producer of goods. These time series are presented also, for the first time, seasonally adjusted. (For more information see: Methodological elucidations pg. 6  
For publication 14/06/2017

### Electricity, gas, steam

Main quarterly indicators in Electricity, gas, steam activity in the first quarter 2017 (base year 2010=100), are presented as follows:

- Turnover volume index decreased by 15.8 %, compared with the same period of the previous year. This indicator seasonally adjusted decreased by 5.1 %, compared with the previous quarter;
- Production volume index decreased by 28.0 %, compared with the same period of the previous year. Compared with the previous quarter, this indicator seasonally adjusted decreased by 62.5 %;
- The number of employees' index decreased by 2.0 %, compared with the same period of the previous year. Compared with the previous quarter, this indicator seasonally unadjusted decreased by 0.5 %;
- Wages index decreased by 7.1 %, compared with the same period of the previous year. Compared with the fourth quarter 2016, this indicator seasonally unadjusted decreased by 10.2 %.

Fig. 2 Turnover volume index, Electricity, gas, steam

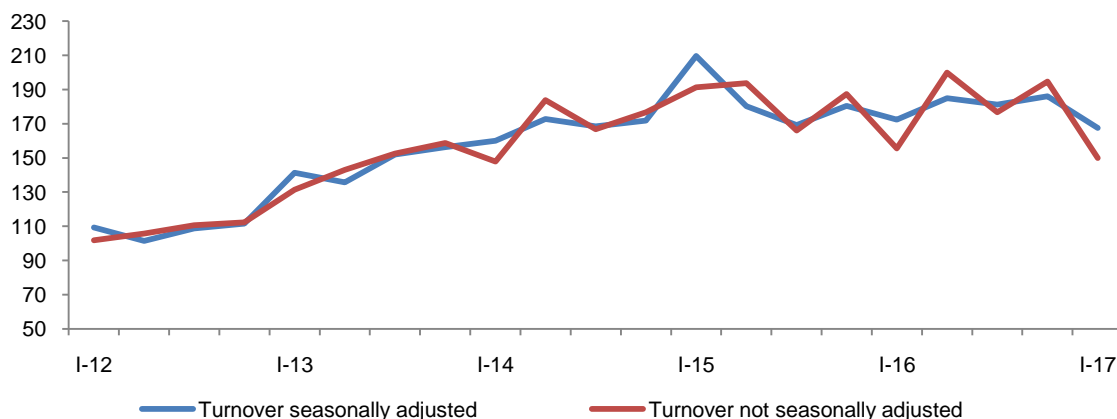


### Water supply; sewerage, waste management and remediation activities

Main quarterly indicators in Water supply; sewerage, waste management and remediation activities activity, in the first quarter 2017 (base year 2010=100), are presented as follows:

- Turnover volume index decreased by 3.6 %, compared with the same period of the previous year. This indicator seasonally adjusted decreased by 9.9 %, compared with the previous quarter;
- Production volume index increased by 4.9 %, compared with the same period of the previous year. Compared with the previous quarter, this indicator seasonally adjusted decreased by 9.2 %;
- The number of employees' index increased by 11.6 %, compared with the same period of the previous year. Compared with the previous quarter, this indicator seasonally unadjusted increased by 5.3 %;
- Wages index increased by 12.3 %, compared with the same period of the previous year. Compared with the fourth quarter 2016, this indicator seasonally unadjusted decreased by 0.3 %.

Fig. 3 Turnover volume index, Water supply; sewerage, waste management and remediation activities;

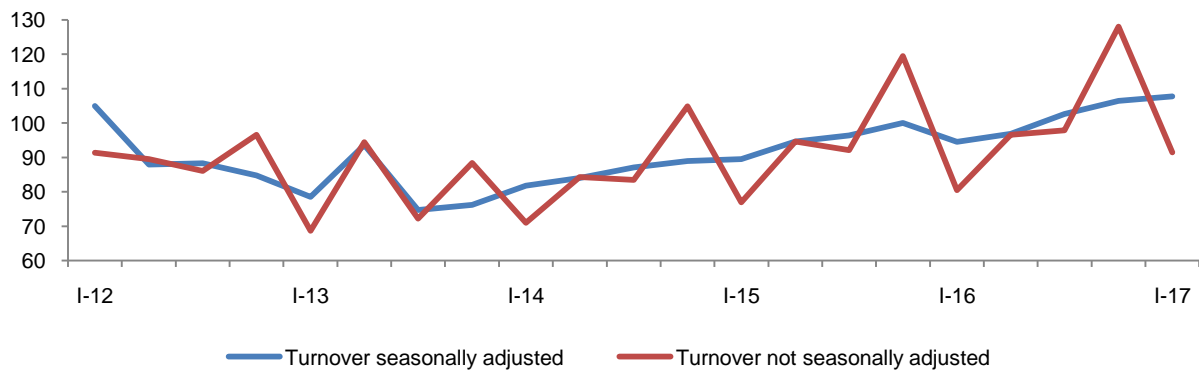


## Construction

Main quarterly indicators in Construction activity, in the first quarter 2017 (base year 2010=100), are presented as follows:

- Turnover volume index increased by 13.6 %, compared with the same period of the previous year. This indicator seasonally adjusted increased by 1.3 %, compared with the previous quarter;
- Production volume index increased by 24.2 %, compared with the same period of the previous year. Compared with the previous quarter, this indicator seasonally adjusted increased by 3.6 %;
- The number of employees' index increased by 3.0 %, compared with the same period of the previous year. Compared with the previous quarter, this indicator seasonally unadjusted decreased by 1.0 %;
- Wages index increased by 9.9 %, compared with the same period of the previous year. Compared with the fourth quarter 2016, this indicator seasonally unadjusted increased by 6.7 %.

Fig. 4 Turnover volume index, Construction



Tab.1 Turnover volume index, producers of goods (2010=100), seasonally unadjusted

(%)

NACE Rev.2			Q.1.17	I - 17	I - 17
Economic activity			Ø 2010	I - 16	IV - 16
B-C	05-33	Industry	103.9	9.4	-8.2
B	05-09	<i>Mining and quarrying</i>	143.5	35.1	2.6
C	10-33	<i>Manufacturing</i>	100.9	0.2	-12.9
D	35	Electricity, gas, steam	150.3	-15.8	6.6
E	36-39	Water supply; sewerage. waste management and remediation activities	150.0	-3.6	-23.0
F	41-43	<b>Construction</b>	91.5	13.6	-28.5
<b>Main Industrial Grouping</b>					
		<i>Intermediate goods</i>	118.6	27.9	-7.9
		<i>Energy</i>	111.3	-0.8	8.1
		Capital goods	146.2	13.9	-13.8
		Durable consumer goods	99.9	-21.5	-53.4
		Non durable consumer goods	122.3	-1.7	-11.3

Tab.2 Turnover volume index, producers of goods (2010=100), seasonally adjusted

(%)

NACE Rev.2			Q.1.17	I - 17	I - 17
Economic activity			Ø 2010	I - 16	IV - 16
B-C	05-33	Industry	119.0	8.8	9.9
B	05-09	<i>Mining and quarrying</i>	172.0	25.3	28.9
C	10-33	<i>Manufacturing</i>	112.2	0.4	0.5
D	35	Electricity, gas, steam	134.4	-15.9	-5.1
E	36-39	Water supply; sewerage. waste management and remediation activities	167.6	-2.8	-9.9
F	41-43	<b>Construction</b>	107.8	14.0	1.3
<b>Main Industrial Grouping</b>					
		<i>Intermediate goods</i>	137.2	26.0	12.7
		<i>Energy</i>	104.5	-0.5	2.5
		Capital goods	171.9	13.9	18.4
		Durable consumer goods	118.2	-21.1	-34.3
		Non durable consumer goods	133.4	-1.2	-2.8

Tab.3 Production volume index, producers of goods, seasonally unadjusted (2010=100)

(%)

NACE Rev.2			Q.1.17	I - 17	I - 17
Economic activity			Ø 2010	I - 16	IV - 16
B-C	05-33	Industry	134.6	13.4	-5.4
B	05-09	<i>Mining and quarrying</i>	163.7	35.1	7.2
C	10-33	<i>Manufacturing</i>	100.8	-0.7	-14.5
D	35	Electricity, gas, steam	134.1	-28.0	-19.5
E	36-39	Water supply; sewerage. waste management and remediation activities	119.6	4.9	-18.8
F	41-43	<b>Construction</b>	95.7	24.2	-25.8

**Tab.4 Production volume index, producers of goods, seasonally adjusted (2010=100)**

(%)

NACE Rev.2	Economic activity	Q.1.17 Ø 2010	I - 17 I - 16	I - 17 IV - 16
B-C 05-33	Industry	136.2	7.9	-2.5
B 05-09	<i>Mining and quarrying</i>	152.2	22.5	-0.3
C 10-33	<i>Manufacturing</i>	120.7	-0.4	-2.6
D 35	Electricity, gas, steam	82.0	-27.8	-62.5
E 36-39	Water supply; sewerage. waste management and remediation activities	128.6	4.8	-9.2
F 41-43	<b>Construction</b>	110.8	15.7	3.6

**Tab.5 Number of employees index, producers of goods (2010=100), seasonally unadjusted**

(%)

NACE Rev.2	Economic activity	Q.1.17 Ø 2010	I - 17 I - 16	I - 17 IV - 16
B-C 05-33	Industry	139.0	-2.2	-1.2
B 05-09	<i>Mining and quarrying</i>	100.3	1.4	0.4
C 10-33	<i>Manufacturing</i>	145.9	-2.7	-1.5
D 35	Electricity, gas, steam	112.6	-2.0	-0.5
E 36-39	Water supply; sewerage. waste management and remediation activities	149.0	11.6	5.3
F 41-43	<b>Construction</b>	124.5	3.0	-1.0

**Tab.6 Wages index, producers of goods (2010=100), seasonally unadjusted**

(%)

NACE Rev.2	Economic activity	Q.1.17 Ø 2010	I - 17 I - 16	I - 17 IV - 16
B-C 05-33	Industry	166.7	-0.1	-4.1
B 05-09	<i>Mining and quarrying</i>	181.4	14.2	-3.0
C 10-33	<i>Manufacturing</i>	159.1	-5.7	-3.7
D 35	Electricity, gas, steam	142.2	7.1	-10.2
E 36-39	Water supply; sewerage. waste management and remediation activities	165.7	12.3	-0.3
F 41-43	<b>Construction</b>	151.8	9.9	6.7

# Methodological elucidations

## General Information

NSTAT, from the first quarter 2017, presents the value and volume turnover indices on Producer of goods which include: Industry (Mining and quarrying industry, manufacturing, Electricity, gas, steam, Water supply; sewerage. waste management and remediation, Construction, with some methodological updates.

- Backasting of indicators (in value and volume) of retail trade time series, as a result of change of number of enterprises registered in 2015 by tax offices.
- Seasonally and calendar adjusted of time series

INSTAT, in 2017 published the Statistical Revision Policy in the following link: ([http://www.instat.gov.al/media/371722/revision\\_policy\\_2016.pdf](http://www.instat.gov.al/media/371722/revision_policy_2016.pdf)).

## The process of backasting

In 2015 the number of active enterprises in Statistical Business Register (excluding agricultural enterprise) increased 20 %, impacting so the change of population of domain covered in producer of materials goods.

As a result of this, the results of time series are updated in individual groups, and the weights are updated in aggregate level. From this process the levels of results change. We have an increase in the level, but the growth rate remains almost the same. The process of update is fulfilled by benchmarking the results obtained from the Statistical Business Register updated in 2015, by using the proportional Denton method.

## Seasonal adjustment

Seasonal adjustment of quarterly time series of producer of materials goods is done by using JDemetra+ 2.1 version software. The chosen model for the decomposition of time series is X-12 ARIMA, under specification X-13, the span of time series is from 2005 to 2017. X-12 ARIMA model is totally based in moving average. In all time series is applied the multiplicative decomposition and the direct approach. During the process of seasonal adjustment are treated even the special case occurred during the time series span, identified by software as outlier.

## Information on the observation

**Purpose** – The short term statistics shows the trend of economic development of a country in quarterly periods. by which the police makers can develop a short term plan for the further development of the country. By this publication the development of the main indicators such as industrial production. turnover. number of employees and wages. in time series are describe.

**Coverage-** based on main economic activity the main activities covered in the STS survey for producer goods is as following:

- Industry - composed by Mining and quarrying and Manufacturing industry (05-33)
- Electricity, gas, and steam (35)
- Water supply; sewerage, waste management and remediation activities (36 - 39)
- Construction (41, 42, 43)

**Model** - The enterprises are selected from the Statistical Register of Enterprises. The enterprises with 1-9 employees are surveyed by sample survey, whereas the enterprises with 10 and more employees are surveyed exhaustively.

**Data collection** - The data are collected directly from enterprises with face to face interview through interviewers. The questionnaire is filled from the interviewers.

**Indicators** – The indicators are given in Index form, the quarterly changes are given in percentage, whereas the annual changes are given in percentage with reference to the base year, actually 2010=100. The data do not present absolute values.

**Indexes** – The indexes show the changes in time of a given variable, or of a group of variables. The Index Volume is calculated through the Laspeyres Formula. In order to avoid the prices impact, the indices are deflated with the proper price index by activities, such as the Industry indicator are deflated with Producer Price Index; Construction activity with Construction Cost Index; Hotel activity with Consumer Price Index. Transport with implicit price index calculated, etc.

**The annual change in percentage** - it measures in percentage the change of economic indicators of the actual quarter compared with the same quarter of the previous year.

**The quarterly change in percentage** – it measures in percentage the change of economic indicators of the actual quarter against compared with the previous quarter of the same year.

**Revision** – Indexes may be revised due to several reasons: additional information, the methodological changes, or re-evaluation of the used coefficients etc.

#### **Definition of the main indicators**

**Turnover** is the total amount realized by enterprises during the month from the selling of goods, selling of own products and services excluded VAT.

**Number of persons** working includes all persons who actually work in the observed unit. There are included, owners and co-owners and family members that helps in the activity and employees in the end of the quarter.

**Employment index** – shows the evolution of employment in observation unit.

**Wages and salaries** – are defined as the total remunerations, in cash or in kind payable to all persons counted on the payrolls, in return for work done during the accounting period.

**Index of wages and salaries** – the gross wages and salaries index approximates the development of the wages and salaries bill.

**Main industrial grouping** are a regroup of: Mining and quarrying, Manufacturing and Electricity activities, according to NACE Rev.2 as follows:



Total industry	NACE Rev.2
Intermediate goods	<ul style="list-style-type: none"> <li>• 07-09 Mining of metal ores; Other mining and quarrying; Mining support service activities</li> <li>• 13000 Manufacturing of textiles</li> <li>• 16000 Manufacture of wood and of products of wood and cork, except furniture; manufacture of articles of straw and plaiting materials</li> <li>• 17000 Manufacture of paper and paper products</li> <li>• 20-21 Manufacturing of chemical and pharmaceutical products</li> <li>• 22000 Manufacture of rubber and plastics products</li> <li>• 23000 Manufacture of other non-metallic mineral products</li> <li>• 24000 Manufacture of basic metals</li> <li>• 255XX Forging, pressing, stamping and roll forming of metal; powder</li> <li>• 27000 Manufacturing of electrical equipment</li> </ul>
Energy	<ul style="list-style-type: none"> <li>• 05-06 Mining of coal and lignite; Extraction of crude petroleum and natural gas</li> <li>• 19000 Manufacture of coke and refined petroleum products</li> <li>• 35000 Electricity, gas, steam and air conditioning supply</li> </ul>
Durable consumer goods	<ul style="list-style-type: none"> <li>• 264XX Manufacture of consumer electronics</li> <li>• 31000 Manufacture of furniture</li> <li>• 32XXX Other industries n.e.c</li> </ul>
Non-durable consumer goods	<ul style="list-style-type: none"> <li>• 10000 Përpunimi i produkteve ushqimore</li> <li>• 11-12 Manufacture of beverages; Manufacture of tobacco products</li> <li>• 14000 Manufacture of wearing apparel</li> <li>• 15000 Manufacture of leather and related products</li> <li>• 18000 Printing and reproduction of recorded media</li> <li>• 32YYY Other industries n.e.c</li> </ul>