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# **Construction Cost Index for Dwellings**

# Third quarter, 2023

**Tirana, on 7 December 2023:** Construction Cost Index for Dwellings in the third quarter 2023 arrived 114.0 against fourth quarter 2020 as reference period. The annual rate of Construction Cost Index for Dwellings in third quarter 2023 is 4.2 %, a year before this rate was 7.2 %.

**Yearly rates of main groups:** Compared with the third quarter of 2022, the largest increase is observed in the group "Energy expenditures" by 6.6 %, followed by groups "Salary expenditures" by 4.8 %, "Transport expenditures" by 4.2 %, "Material expenditures" and "Other expenditures" by 4.1 % each of them, and "Machinery expenditures" by 2.0 %.

Within the group "Material expenditures", the index of the subgroup "Construction materials" and "Hydro sanitary materials", marked the highest increase by 4.4 % each of them , followed by "Electric materials and communication" by 2.5 %.

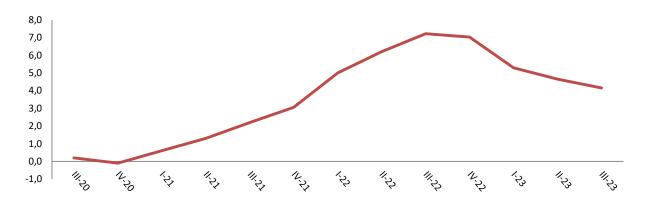


Fig. 1 Annual changes of Construction Cost Index for Dwellings

**Quarterly rates of main groups:** Compared with the previews quarter, Construction Cost Index for Dwellings, in the third quarter of 2023 increased by 1.0 %. The largest increase is observed in "Energy expenditures" by 2.9 %, followed by groups "Salary expenditures" by 1.2 %, "Transport expenditures" by 1.0, "Material expenditures" by 0.9 %, "Machinery expenditures" by 0.5 % and "Other expenditures" by 0.2 %.

#### For publication 07/12/2023

# Tab. 1 Construction Cost Index for Dwellings

Code	Groups	Weights	III-20	IV-20	1-21	II-21	III-21	IV-21	1-22	II-22	III-22	IV-22	I-23	II-23	III-23
	Total (1+2+3+4+5+6)	100.0	99.9	100.0	100.9	101.5	102.1	103.1	106.0	107.8	109.4	110.3	111.6	112.8	114.0
1	Material expenditures (a+b+c)	47.6	99.8	100.0	100.9	101.8	102.7	104.1	107.0	108.6	110.9	112.3	113.3	114.4	115.4
	a. Construction materials	34.9	99.8	100.0	100.8	102.0	102.8	104.1	107.4	109.0	111.2	112.9	113.8	115.0	116.1
	b. Electric and communication materials	7.8	100.0	100.0	101.6	102.1	102.9	104.1	105.2	106.9	109.3	110.3	110.6	111.5	112.0
	c. Hydro - sanitary materials	4.9	99.9	100.0	100.0	100.6	102.0	103.6	106.8	108.5	110.9	111.7	113.4	114.8	115.7
2	Salary expenditures	22.3	99.9	100.0	101.8	102.2	102.0	102.9	104.4	105.2	106.7	108.0	109.0	110.4	111.7
3	Machinery expenditures	12.7	99.3	100.0	99.2	99.7	100.8	100.6	103.0	103.8	105.2	105.9	106.3	106.8	107.3
4	Transport expenditures	8.4	100.8	100.0	101.9	103.1	102.8	104.5	104.0	104.4	105.2	106.5	107.6	108.5	109.6
5	Energy expenditures	3.3	100.0	100.0	100.0	100.0	101.4	101.5	111.7	115.5	117.1	115.9	118.7	121.3	124.8
6	Other expenditures	5.8	99.7	100.0	102.2	102.4	102.1	103.1	105.8	109.3	110.1	111.2	113.7	114.3	114.6

# Tab. 2 Annual changes of Construction Cost Index for Dwellings

	%												
Groups	III-20/III-19	IV-20/IV-19	1-21/1-20	II-21/II-20	III-21/III-20	IV-21/IV-20	1-22/1-21	11-22/11-21	III-22/III-21	IV-22/IV-21	I-23/I-22	II-23/II-22	III-23/III-22
Total (1+2+3+4+5+6)	0.2	-0.1	0.6	1.3	2.2	3.1	5.0	6.2	7.2	7.0	5.3	4.7	4.2
Material expenditures (a+b+c)	-1.0	-0.8	0.3	2.0	2.9	4.1	6.0	6.6	8.0	7.9	5.9	5.4	4.1
a. Construction materials	-1.3	-1.1	0.0	2.2	3.0	4.1	6.5	6.9	8.2	8.4	6.0	5.5	4.4
b. Electric and communication materials	-0.9	-1.0	1.5	2.2	2.9	4.1	3.5	4.7	6.2	5.9	5.2	4.3	2.5
c. Hydro - sanitary materials	1.3	1.5	1.0	0.8	2.1	3.6	6.8	7.8	8.8	7.8	6.2	5.8	4.4
Salary expenditures	-1.9	-2.1	0.5	2.0	2.1	2.9	2.5	2.9	4.6	5.0	4.4	4.9	4.8
Machinery expenditures	1.0	0.8	0.8	0.3	1.4	0.6	3.8	4.1	4.4	5.3	3.2	2.9	2.0
Transport expenditures	1.7	-0.7	0.4	1.4	2.0	4.5	2.1	1.2	2.3	1.9	3.5	4.0	4.2
Energy expenditures	0.0	0.0	0.0	0.0	1.4	1.5	11.7	15.5	15.5	14.1	6.3	5.0	6.6
Other expenditures	1.4	1.6	0.9	1.8	2.4	3.1	3.5	6.7	7.9	7.9	7.5	4.6	4.1
	Total (1+2+3+4+5+6)Material expenditures (a+b+c)a. Construction materialsb. Electric and communication materialsc. Hydro - sanitary materialsSalary expendituresMachinery expendituresTransport expendituresEnergy expenditures	Total (1+2+3+4+5+6)0.2Material expenditures (a+b+c)-1.0a. Construction materials-1.3b. Electric and communication materials-0.9c. Hydro - sanitary materials1.3Salary expenditures-1.9Machinery expenditures1.0Transport expenditures1.7Energy expenditures0.0	Total (1+2+3+4+5+6)0.2-0.1Material expenditures (a+b+c)-1.0-0.8a. Construction materials-1.3-1.1b. Electric and communication materials-0.9-1.0c. Hydro - sanitary materials1.31.5Salary expenditures-1.9-2.1Machinery expenditures1.00.8Transport expenditures1.7-0.7Energy expenditures0.00.0	Total (1+2+3+4+5+6) 0.2 -0.1 0.6   Material expenditures (a+b+c) -1.0 -0.8 0.3   a. Construction materials -1.3 -1.1 0.0   b. Electric and communication materials -0.9 -1.0 1.5   c. Hydro - sanitary materials 1.3 1.5 1.0   Salary expenditures -1.9 -2.1 0.5   Machinery expenditures 1.0 0.8 0.8   Transport expenditures 1.7 -0.7 0.4   Energy expenditures 0.0 0.0 0.0	Total (1+2+3+4+5+6) 0.2 -0.1 0.6 1.3   Material expenditures (a+b+c) -1.0 -0.8 0.3 2.0   a. Construction materials -1.3 -1.1 0.0 2.2   b. Electric and communication materials -0.9 -1.0 1.5 2.2   c. Hydro - sanitary materials 1.3 1.5 1.0 0.8   Salary expenditures -1.9 -2.1 0.5 2.0   Machinery expenditures 1.0 0.8 0.3 0.3   Transport expenditures 1.7 -0.7 0.4 1.4   Energy expenditures 0.0 0.0 0.0 0.0	Total (1+2+3+4+5+6) 0.2 -0.1 0.6 1.3 2.2   Material expenditures (a+b+c) -1.0 -0.8 0.3 2.0 2.9   a. Construction materials -1.3 -1.1 0.0 2.2 3.0   b. Electric and communication materials -0.9 -1.0 1.5 2.2 2.9   c. Hydro - sanitary materials 1.3 1.5 1.0 0.8 2.1   Salary expenditures -1.9 -2.1 0.5 2.0 2.1   Machinery expenditures 1.0 0.8 0.3 1.4   Transport expenditures 1.7 -0.7 0.4 1.4 2.0   Energy expenditures 0.0 0.0 0.0 1.4 2.0	Total (1+2+3+4+5+6) 0.2 -0.1 0.6 1.3 2.2 3.1   Material expenditures (a+b+c) -1.0 -0.8 0.3 2.0 2.9 4.1   a. Construction materials -1.3 -1.1 0.0 2.2 3.0 4.1   b. Electric and communication materials -0.9 -1.0 1.5 2.2 2.9 4.1   c. Hydro - sanitary materials -0.9 -1.0 1.5 2.2 2.9 4.1   Salary expenditures -1.3 1.5 1.0 0.8 2.1 3.6   Machinery expenditures -1.9 -2.1 0.5 2.0 2.1 2.9   Machinery expenditures 1.0 0.8 0.8 0.3 1.4 0.6   Transport expenditures 1.7 -0.7 0.4 1.4 2.0 4.5	Total (1+2+3+4+5+6) 0.2 -0.1 0.6 1.3 2.2 3.1 5.0   Material expenditures (a+b+c) -1.0 -0.8 0.3 2.0 2.9 4.1 6.0   a. Construction materials -1.3 -1.1 0.0 2.2 3.0 4.1 6.5   b. Electric and communication materials -0.9 -1.0 1.5 2.2 2.9 4.1 3.5   c. Hydro - sanitary materials -0.9 -1.0 1.5 2.2 2.9 4.1 3.5   Salary expenditures -1.3 1.5 1.0 0.8 2.1 3.6 6.8   Machinery expenditures -1.9 -2.1 0.5 2.0 2.1 2.9 2.5   Machinery expenditures 1.0 0.8 0.8 0.3 1.4 0.6 3.8   Transport expenditures 1.7 -0.7 0.4 1.4 2.0 4.5 2.1   Energy expenditures 0.0 0.0 0.0 1.5 1.7 <td>Groups Formation F</td> <td>Groups 61 62 62 62 62 61 62 62 62 62 62 62 62 62 62 62 62 62 62 62 62 62 72   Total (1+2+3+4+5+6) 0.2 -0.1 0.6 1.3 2.2 3.1 5.0 6.2 7.2   Material expenditures (a+b+c) -1.0 -0.8 0.3 2.0 2.9 4.1 6.0 6.6 8.0   a. Construction materials -1.3 -1.1 0.0 2.2 3.0 4.1 6.0 6.9 8.2   b. Electric and communication materials -0.9 -1.0 1.5 2.2 2.9 4.1 3.5 4.7 6.2   c. Hydro - sanitary materials -1.3 1.5 1.0 0.8 2.1 3.6 6.8 7.8 8.8   Salary expenditures -1.9 -2.1 0.5 2.0 2.1 2.9 2.5 2.9 4.6</td> <td>Groups 650 600 600 600 600 600 600 600 600 600 600 600 600 600 600 70 70   Total (1+2+3+4+5+6) 0.2 0.1 0.6 1.3 2.2 3.1 5.0 6.2 7.2 7.0   Material expenditures (a+b+c) -1.0 0.8 0.3 2.0 2.9 4.1 6.0 6.6 8.0 7.9   a. Construction materials -1.3 -1.1 0.0 2.2 3.0 4.1 6.5 6.9 8.2 8.4   b. Electric and communication materials -0.9 -1.0 1.5 2.2 2.9 4.1 3.5 4.7 6.2 5.9   c. Hydro - sanitary materials -0.9 -1.0 1.5 2.2 2.9 4.1 3.5 4.7 6.2 5.9   Groups -1.3 1.5 1.0 0.8 2.1 3.6 6.8 7.8 8.8 7.8   Groups -1.9 -2.1 0.5 2.0 2.1</td> <td>Groups Pion &lt;</td> <td>Groups 670 670 670 670 670 670 670 670 670 670 670 670 670 670 670 670 670 670 670 770 <th< td=""></th<></td>	Groups Formation F	Groups 61 62 62 62 62 61 62 62 62 62 62 62 62 62 62 62 62 62 62 62 62 62 72   Total (1+2+3+4+5+6) 0.2 -0.1 0.6 1.3 2.2 3.1 5.0 6.2 7.2   Material expenditures (a+b+c) -1.0 -0.8 0.3 2.0 2.9 4.1 6.0 6.6 8.0   a. Construction materials -1.3 -1.1 0.0 2.2 3.0 4.1 6.0 6.9 8.2   b. Electric and communication materials -0.9 -1.0 1.5 2.2 2.9 4.1 3.5 4.7 6.2   c. Hydro - sanitary materials -1.3 1.5 1.0 0.8 2.1 3.6 6.8 7.8 8.8   Salary expenditures -1.9 -2.1 0.5 2.0 2.1 2.9 2.5 2.9 4.6	Groups 650 600 600 600 600 600 600 600 600 600 600 600 600 600 600 70 70   Total (1+2+3+4+5+6) 0.2 0.1 0.6 1.3 2.2 3.1 5.0 6.2 7.2 7.0   Material expenditures (a+b+c) -1.0 0.8 0.3 2.0 2.9 4.1 6.0 6.6 8.0 7.9   a. Construction materials -1.3 -1.1 0.0 2.2 3.0 4.1 6.5 6.9 8.2 8.4   b. Electric and communication materials -0.9 -1.0 1.5 2.2 2.9 4.1 3.5 4.7 6.2 5.9   c. Hydro - sanitary materials -0.9 -1.0 1.5 2.2 2.9 4.1 3.5 4.7 6.2 5.9   Groups -1.3 1.5 1.0 0.8 2.1 3.6 6.8 7.8 8.8 7.8   Groups -1.9 -2.1 0.5 2.0 2.1	Groups Pion <	Groups 670 670 670 670 670 670 670 670 670 670 670 670 670 670 670 670 670 670 670 770 <th< td=""></th<>

#### Tab. 3 Quarterly changes of Construction Cost Index for Dwellings

								%						
Code	Groups	III-20/II-20	IV-20/III-20	1-21/IV-20	II-21/I-21	III-21/II-21	N-21/III-21	I-22/IV-21	II-22/I-22	III-22/II-22	IV-22/III-22	I-23/IV-22	II-23/I-23	III-23/II-23
	Total (1+2+3+4+5+6)	-0.3	0.1	0.9	0.6	0.6	1.0	2.9	1.7	1.5	0.8	1.2	1.1	1.0
1	Material expenditures (a+b+c)	0.0	0.2	0.9	0.9	0.9	1.3	2.8	1.5	2.1	1.3	0.8	1.0	0.9
	a. Construction materials	0.0	0.2	0.8	1.1	0.8	1.3	3.1	1.5	2.1	1.5	0.8	1.1	1.0
	b. Electric and communication materials	0.1	0.0	1.6	0.5	0.8	1.1	1.0	1.6	2.2	0.9	0.3	0.8	0.5
	c. Hydro - sanitary materials	0.1	0.1	0.0	0.5	1.4	1.6	3.1	1.5	2.2	0.8	1.5	1.2	0.9
2	Salary expenditures	-0.3	0.1	1.8	0.4	-0.3	0.9	1.4	0.8	1.4	1.3	0.9	1.3	1.2
3	Machinery expenditures	-0.1	0.7	-08	0.5	1.1	-0.2	2.5	0.7	1.4	0.7	0.4	0.5	0.5
4	Transport expenditures	-0.9	-0.8	1.9	1.3	-0.3	1.6	-0.5	0.4	0.7	1.3	1.0	0.9	1.0
5	Energy expenditures	0.0	0.0	0.0	0.1	1.3	0.1	10.0	3.4	1.4	-1.0	2.5	2.2	2.9
6	Other expenditures	-0.9	0.3	2.2	0.2	-0.3	1.0	2.7	3.3	0.7	1.0	2.3	0.5	0.2

# Methodology

The Construction Cost Index for Dwellings (CCI) measures the price development of the production factors raw materials labour, machinery, transports, energy and other costs that are used in building projects. The CCI is an important economic indicator for the construction sector. The main users of Construction Cost Index is used as a deflator for the calculation of Gross Domestic Product and various volume indexes used by Government Institutions, Central Bank of Albania other Non-Governmental Organizations, World Bank, International Monetary Foundation etc. The weight of the material basket is calculated based on estimated cost for the construction of a multi-storey dwelling taken from construction firms. The fourth quarter 2020 is the base period for calculating the index (Fourth quarter 2020=100). The new basket contains 71 items of which 66 are construction materials. The prices for construction materials are collected from 225 distributors and retailers of construction materials. The data for salaries, machineries and transport are collected in 96 biggest construction companies concentrated mostly in Tirana. The selection of companies is based on the volume of construction of EUROSTAT for Construction Cost Index. The new CCI have six expenditure groups:

- Material Expenditures
- Salary Expenditures
- Machinery Expenditures
- Transport Expenditures
- Energy Expenditures
- Other expenditures

#### Revision

Indexes may be revised due to several reasons: additional information, the methodological changes, change of base period, etc.

#### Measure of index

The annual rate measures the price change between current quarter and the same quarter of the previous year.

The quarterly change measures the price between current quarter and previous quarter.