

21/2023 - 15 February 2023

December 2022 compared with November 2022

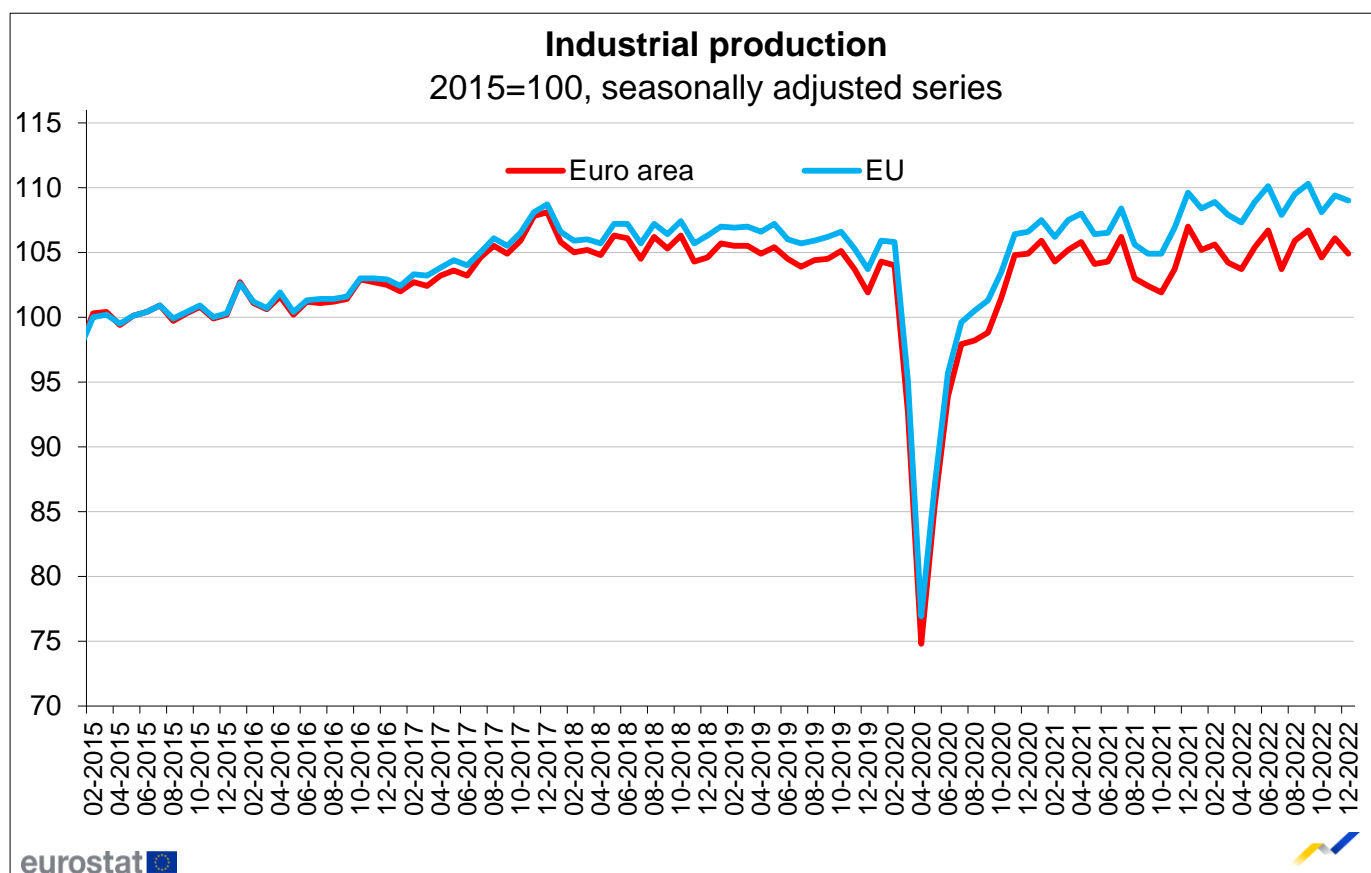
Industrial production down by 1.1% in the euro area and by 0.4% in the EU

Down by 1.7% in the euro area and by 0.4% in the EU compared with December 2021

In December 2022, the seasonally adjusted industrial production fell by 1.1% in the **euro area** and by 0.4% in the **EU**, compared with November 2022, according to estimates from **Eurostat, the statistical office of the European Union**. In November 2022, industrial production increased by 1.4% in the **euro area** and by 1.2% in the **EU**.

In December 2022 compared with December 2021, industrial production decreased by 1.7% in the **euro area** and by 0.4% in the **EU**.

The annual average industrial production for the year 2022, compared with 2021, increased by 0.9% in the **euro area** and by 1.9% in the **EU**.



Monthly comparison by main industrial grouping and by Member State

In the **euro area** in December 2022, compared with November 2022, production of intermediate goods fell by 2.8%, durable consumer goods by 1.4%, non-durable consumer goods by 1.0% and capital goods by 0.4%, while production of energy grew by 1.3%.

In the **EU**, production of intermediate goods fell by 2.4%, durable consumer goods by 0.7% and capital goods by 0.3%, while production of non-durable consumer goods grew by 1.0% and energy by 1.3%.

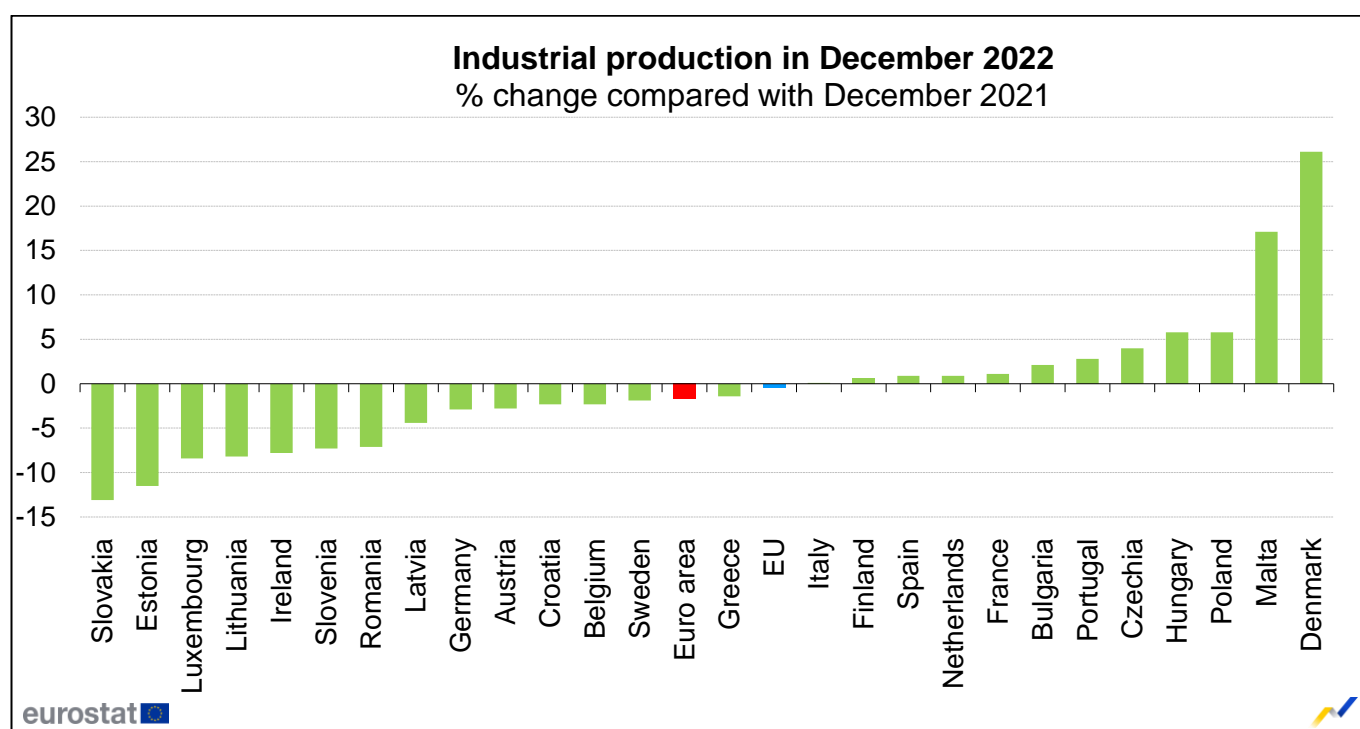
Among Member States for which data are available, the largest monthly decreases were registered in **Ireland** (-8.5%), **Luxembourg** (-5.2%) and **Lithuania** (-4.0%). The highest increases were observed in **Denmark** (+13.5%), **Portugal** (+4.1%) and **Hungary** (+3.8%).

Annual comparison by main industrial grouping and by Member State

In the **euro area** in December 2022, compared with December 2021, production of energy fell by 9.3%, intermediate goods by 6.9% and durable consumer goods by 1.3%, while production of capital goods remained stable and production of non-durable consumer goods grew by 7.9%.

In the **EU**, production of energy fell by 9.5%, intermediate goods by 6.2% and durable consumer goods by 2.1%, while production of capital goods grew by 1.7% and of non-durable consumer goods by 11.1%.

Among Member States for which data are available, the largest annual decreases were registered in **Slovakia** (-13.1%), **Estonia** (-11.5%) and **Luxembourg** (-8.4%). The highest increases were observed in **Denmark** (+26.1%), **Malta** (+17.1%), **Hungary** and **Poland** (both +5.8%).



Geographical information

Up to 31 December 2022, the **euro area (EA19)** included Belgium, Germany, Estonia, Ireland, Greece, Spain, France, Italy, Cyprus, Latvia, Lithuania, Luxembourg, Malta, the Netherlands, Austria, Portugal, Slovenia, Slovakia and Finland. From 1 January 2023 the **euro area (EA20)** also includes Croatia.

The aggregate data series commented on in this News Release refer to the official composition of the euro area in the most recent month for which data is available. Thus, News Releases with data for months up to December 2022 comment on EA19 series, while Releases with data for January 2023 onwards will comment on EA20 series.

The **European Union (EU27)** includes Belgium, Bulgaria, Czechia, Denmark, Germany, Estonia, Ireland, Greece, Spain, France, Croatia, Italy, Cyprus, Latvia, Lithuania, Luxembourg, Hungary, Malta, the Netherlands, Austria, Poland, Portugal, Romania, Slovenia, Slovakia, Finland and Sweden.

Cyprus has a derogation with respect to Regulation (EU) 2019/2152 to have a longer deadline until the end of 2023.

Methods and definitions

The **index of industrial production** measures the evolution of the volume of production for industry excluding construction, based on data adjusted for calendar and seasonal effects.

Seasonally adjusted euro area and EU series are calculated by aggregating the seasonally adjusted national data.

Total industry covers [NACE rev.2](#) sections B to D. Missing observations from Member States for recent months are estimated for the calculation of the euro area and the EU aggregates.

Revisions and timetable

Compared with data issued in the News Release [8/2023](#) of 13 January 2023, the monthly percentage change for November 2022 has been revised from +1.0% to +1.4% in the euro area and from +0.9% to 1.2% in the EU. The annual percentage change has been revised from +2.0% to +2.8% in the euro area and from 2.0% to +2.7% in the EU.

For more information

Eurostat [database section](#) on short-term business statistics

Eurostat [Statistics Explained article](#) on the industrial production index

Eurostat [Statistics Explained article](#) on the impact of COVID-19 crisis on industrial production

The [weights of the Member States](#) in the EU and euro area aggregates

(See file [NEWS_RELEASE_WEIGHTINGS_2015](#))

Eurostat [Euro indicators dashboard](#)

Eurostat €-indicators [release calendar](#)

European Statistics [Code of Practice](#)

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Industrial production

% change compared with previous month*

	Jul-22	Aug-22	Sep-22	Oct-22	Nov-22	Dec-22
Euro area						
Total industry	-2.8	2.1	0.8	-2.0	1.4	-1.1
Intermediate goods	-1.2	-0.5	-0.8	-1.3	0.5	-2.8
Energy	-0.4	-0.1	-1.9	-3.8	-1.4	1.3
Capital goods	-3.6	2.8	2.0	-0.4	1.2	-0.4
Durable consumer goods	-1.4	1.1	-0.6	-1.6	-0.1	-1.4
Non-durable consumer goods	2.4	1.7	3.3	-0.1	1.3	-1.0
EU						
Total industry	-2.0	1.5	0.7	-2.0	1.2	-0.4
Intermediate goods	-1.2	-0.5	-0.6	-1.3	0.5	-2.4
Energy	0.2	-1.2	-2.4	-3.7	-0.3	1.3
Capital goods	-2.7	2.0	2.2	-0.5	1.4	-0.3
Durable consumer goods	-1.7	0.4	-0.3	-1.4	-0.4	-0.7
Non-durable consumer goods	1.9	1.6	2.9	-0.1	1.0	1.0

Source dataset: [sts_inpr_m](#)

	Jul-22	Aug-22	Sep-22	Oct-22	Nov-22	Dec-22
Total industry						
Euro area 19	-2.8	2.1	0.8	-2.0	1.4	-1.1
Euro area 20	-2.7	2.1	0.8	-2.1	1.4	-1.0
EU	-2.0	1.5	0.7	-2.0	1.2	-0.4
Belgium	1.6	-3.5	7.6	-1.8	1.0	-3.2
Bulgaria	1.1	0.2	-2.6	-2.3	0.5	-0.8
Czechia	-0.6	1.0	0.0	-3.5	3.0	0.3
Denmark	-2.3	1.0	2.1	-3.6	2.6	13.5
Germany	-0.6	-0.7	1.3	-0.9	0.8	-2.1
Estonia	-7.4	5.0	-3.6	-1.0	-3.8	2.0
Ireland**	-23.7	21.5	6.8	-10.5	10.6	-8.5
Greece	0.9	-1.0	-5.0	0.4	1.1	0.0
Spain	-1.0	0.3	-0.5	-0.3	-0.6	0.7
France	-1.7	2.7	-0.8	-2.7	2.0	1.1
Croatia	-1.2	-0.9	0.5	-0.8	-1.4	0.1
Italy	0.4	2.2	-1.7	-1.0	-0.1	1.6
Cyprus	1.8	-0.8	-1.0	0.2	2.1	:
Latvia	-1.5	0.3	-0.8	0.1	3.0	-2.6
Lithuania	9.5	4.4	-6.4	-1.7	0.4	-4.0
Luxembourg	0.4	0.1	2.1	-4.6	3.8	-5.2
Hungary	0.6	0.3	1.5	-3.7	-0.6	3.8
Malta	5.2	-0.7	1.2	-2.5	3.4	1.9
Netherlands	0.2	-1.7	1.7	-1.4	-1.1	2.1
Austria	-3.9	6.3	-2.4	1.2	-0.2	-3.0
Poland	0.5	0.3	-0.2	-0.7	1.3	1.0
Portugal	-0.1	1.9	-2.1	-1.8	3.8	4.1
Romania	0.5	0.1	-0.5	-0.5	-1.3	-1.6
Slovenia	-4.9	4.7	-3.0	-5.8	6.0	1.7
Slovakia	1.2	-0.9	-0.7	1.3	-1.1	-0.8
Finland	-2.9	0.5	1.7	-2.2	-1.3	3.4
Sweden	7.4	-7.2	2.2	-1.4	-3.2	0.4
Norway	2.1	3.1	-2.3	-1.4	-0.6	-0.1
Switzerland	-7.6	5.1	6.1	:	:	:

* Calendar and seasonally adjusted

** CSO Ireland is carrying out a review of the seasonal adjustment methodology for industrial production.

: Data not available

Source dataset: [sts_inpr_m](#)

Industrial production

% change compared with same month of the previous year*

	Jul-22	Aug-22	Sep-22	Oct-22	Nov-22	Dec-22
Euro area						
Total industry	-2.5	2.6	5.1	3.4	2.8	-1.7
Intermediate goods	-2.2	-0.7	-2.1	-3.1	-3.5	-6.9
Energy	0.4	-0.6	-3.9	-8.0	-11.2	-9.3
Capital goods	-4.9	7.9	14.1	9.4	9.0	0.0
Durable consumer goods	2.3	7.0	3.7	0.2	-0.2	-1.3
Non-durable consumer goods	-1.4	1.1	5.4	10.3	10.4	7.9
EU						
Total industry	-0.9	3.6	5.7	3.7	2.7	-0.4
Intermediate goods	-1.6	-0.1	-1.4	-2.5	-3.4	-6.2
Energy	2.7	0.6	-3.2	-8.8	-10.5	-9.5
Capital goods	-3.1	8.7	14.8	10.1	9.1	1.7
Durable consumer goods	1.5	4.2	2.1	-0.8	-1.9	-2.1
Non-durable consumer goods	1.8	3.6	7.9	11.2	10.6	11.1

Source dataset: [sts_inpr_m](#)

Total industry	Jul-22	Aug-22	Sep-22	Oct-22	Nov-22	Dec-22
Euro area 19	-2.5	2.6	5.1	3.4	2.8	-1.7
Euro area 20	-2.5	2.8	5.1	3.3	2.7	-1.7
EU	-0.9	3.6	5.7	3.7	2.7	-0.4
Belgium	-5.3	-7.3	1.3	-2.6	3.9	-2.3
Bulgaria	18.0	16.5	10.6	5.5	5.0	2.1
Czechia	0.4	6.9	8.3	3.1	0.5	4.0
Denmark	13.6	11.1	20.1	8.4	9.7	26.1
Germany	-1.0	2.1	3.9	-0.5	-0.1	-2.9
Estonia	-6.8	0.5	-7.8	-5.9	-12.2	-11.5
Ireland	-24.5	9.4	29.6	53.9	45.5	-7.8
Greece	7.1	4.9	-1.2	-2.9	-1.0	-1.4
Spain	4.9	5.0	3.8	2.4	-1.4	0.9
France	-1.4	0.8	1.9	-2.5	0.5	1.1
Croatia	3.4	1.4	2.4	0.1	-2.3	-2.3
Italy	-1.4	2.9	-0.5	-1.7	-3.4	0.1
Cyprus	1.3	-3.1	-0.9	-3.0	1.7	:
Latvia	-3.2	-1.0	-3.7	-2.5	3.6	-4.4
Lithuania	10.4	16.5	3.5	0.5	0.2	-8.2
Luxembourg	0.1	-2.0	1.4	-3.8	0.5	-8.4
Hungary	6.3	9.3	11.9	5.1	1.0	5.8
Malta	5.6	10.9	13.3	7.0	13.4	17.1
Netherlands	1.4	1.6	3.6	2.2	-0.5	0.9
Austria	3.6	8.8	7.3	5.9	3.2	-2.8
Poland	9.7	11.0	10.0	6.8	4.5	5.8
Portugal	0.7	3.9	-0.1	-2.0	-0.3	2.8
Romania	-0.9	-1.6	0.7	1.1	-4.0	-7.1
Slovenia	1.3	4.5	1.3	-4.0	-3.0	-7.3
Slovakia	-6.4	-2.0	-1.8	-2.6	-10.7	-13.1
Finland	3.1	2.7	5.2	0.5	-2.7	0.6
Sweden	9.5	2.7	5.0	2.2	-2.1	-1.9
Norway	1.7	4.8	1.0	3.5	4.5	0.0
Switzerland	0.1	5.2	11.4	:	:	:

* Calendar adjusted

: Data not available

Source dataset: [sts_inpr_m](#)

Production indices for total industry, calendar and seasonally adjusted
(base year 2015)

	12-21	01-22	02-22	03-22	04-22	05-22	06-22	07-22	08-22	09-22	10-22	11-22	12-22
Euro area 19	107.0	105.2	105.6	104.2	103.7	105.4	106.7	103.7	105.9	106.7	104.6	106.1	104.9
Euro area 20	107.0	105.3	105.7	104.2	103.7	105.4	106.7	103.8	106.0	106.8	104.6	106.1	105.0
EU	109.6	108.4	108.9	107.9	107.3	108.9	110.1	107.9	109.5	110.3	108.1	109.4	109.0
Belgium	128.6	129.2	128.2	128.0	126.2	127.0	124.0	126.0	121.6	130.8	128.5	129.8	125.7
Bulgaria	117.3	119.9	120.3	126.6	126.6	128.4	127.5	128.9	129.2	125.8	122.9	123.5	122.5
Czechia	110.5	114.1	110.5	112.8	111.3	113.5	115.5	114.8	115.9	115.9	111.8	115.2	115.5
Denmark	120.3	120.8	123.1	127.4	128.2	131.3	133.2	130.2	131.5	134.3	129.5	132.9	150.8
Germany	97.1	97.3	97.7	93.0	94.7	94.8	96.0	95.4	94.7	95.9	95.0	95.8	93.8
Estonia	130.5	123.8	123.0	129.3	130.6	130.0	126.8	117.4	123.3	118.8	117.6	113.1	115.4
Ireland*	156.1	132.0	134.2	140.3	113.0	144.7	162.3	123.8	150.4	160.7	143.8	159.1	145.5
Greece	120.6	115.3	118.4	124.5	115.1	118.8	123.1	124.2	123.0	116.9	117.4	118.7	118.7
Spain	105.5	105.2	106.2	104.1	106.5	106.3	107.4	106.3	106.6	106.1	105.8	105.2	105.9
France	98.0	99.7	98.2	97.8	97.5	97.6	99.0	97.3	99.9	99.1	96.4	98.3	99.4
Croatia	111.2	113.0	112.7	112.9	111.5	111.6	112.8	111.5	110.5	111.1	110.2	108.7	108.8
Italy	105.3	102.0	106.0	106.1	107.4	106.1	104.0	104.4	106.7	104.9	103.8	103.7	105.4
Cyprus	130.1	131.7	132.9	138.1	136.9	135.9	129.9	132.2	131.2	129.9	130.1	132.8	:
Latvia	127.0	125.3	122.2	126.2	126.0	126.3	123.5	121.7	122.1	121.1	121.2	124.8	121.5
Lithuania	158.7	161.6	156.6	166.4	161.1	142.7	143.3	156.9	163.8	153.3	150.7	151.3	145.2
Luxembourg	97.7	97.6	97.5	93.1	96.1	94.0	93.5	93.9	94.0	96.0	91.6	95.1	90.2
Hungary	120.9	123.0	125.3	125.0	123.0	124.6	125.5	126.3	126.7	128.6	123.9	123.1	127.8
Malta	98.2	100.2	97.0	102.6	98.0	101.2	105.7	111.2	110.4	111.7	108.9	112.6	114.7
Netherlands	105.9	105.0	103.5	103.7	109.4	107.4	106.6	106.8	105.0	106.8	105.3	104.1	106.3
Austria	127.6	131.1	126.7	126.2	127.0	127.9	127.7	122.7	130.4	127.3	128.8	128.5	124.7
Poland	145.8	149.3	152.2	153.1	152.5	151.5	151.2	151.9	152.3	152.0	151.0	152.9	154.4
Portugal	102.4	97.2	98.0	103.0	100.8	100.3	99.2	99.1	101.0	98.9	97.1	100.8	104.9
Romania	111.5	113.5	112.1	111.1	111.4	110.6	108.0	108.5	108.6	108.1	107.6	106.2	104.5
Slovenia	143.5	140.8	127.2	136.1	129.7	134.2	135.7	129.0	135.1	131.0	123.4	130.8	133.0
Slovakia	119.1	115.9	113.4	107.6	106.5	108.6	106.6	107.9	106.9	106.1	107.5	106.3	105.5
Finland	119.7	117.4	118.1	116.1	120.1	119.6	121.0	117.5	118.1	120.1	117.4	115.9	119.8
Sweden	115.7	114.5	114.1	115.9	113.9	114.3	116.2	124.8	115.8	118.3	116.6	112.9	113.4
Norway	104.1	105.0	103.9	106.5	106.1	106.9	105.1	107.3	110.6	108.1	106.6	106.0	105.9
Switzerland	126.2	126.7	130.0	129.4	127.5	129.0	134.0	123.8	130.1	138.0	:	:	:

* CSO Ireland is carrying out a review of the seasonal adjustment methodology for industrial production.

: Data not available

Source dataset: [sts_inpr_m](#)



Production indices for total industry, calendar adjusted
(base year 2015)

	12-19	12-20	12-21	01-22	02-22	03-22	04-22	05-22	06-22	07-22	08-22	09-22	10-22	11-22	12-22
Euro area 19	96.0	97.9	99.9	102.5	102.3	110.2	103.0	104.4	107.5	105.2	89.5	113.5	112.9	113.2	98.2
Euro area 20	96.0	97.9	99.9	102.5	102.3	110.2	103.1	104.4	107.5	105.2	89.6	113.5	112.9	113.2	98.2
EU	98.1	100.1	103.0	105.5	105.6	114.7	106.7	108.1	111.2	107.3	93.8	116.6	116.3	116.6	102.6
Belgium	115.9	111.3	125.3	126.7	124.2	137.0	122.3	125.0	132.2	117.8	112.0	137.6	136.8	131.5	122.4
Bulgaria	107.6	104.3	119.7	116.1	114.6	133.1	123.6	123.4	129.6	132.4	124.2	125.2	125.6	128.9	122.2
Czechia	102.8	105.3	103.5	110.6	107.0	121.8	111.0	115.3	120.6	103.4	105.1	120.1	119.1	125.6	107.6
Denmark	109.4	105.1	115.9	121.7	118.2	134.3	123.5	130.8	135.1	115.1	127.9	143.1	135.2	138.6	146.2
Germany	92.8	92.6	92.1	91.3	94.5	100.8	93.4	93.2	97.4	95.6	88.2	100.4	98.0	102.2	89.4
Estonia	111.7	115.7	125.0	118.3	115.9	137.3	130.4	135.5	127.4	106.0	121.4	123.1	126.0	117.8	110.6
Ireland	76.8	126.0	116.4	152.9	108.4	111.6	117.7	122.9	125.6	126.7	125.5	210.4	205.8	199.4	107.3
Greece	105.8	110.0	120.4	105.4	115.1	126.1	113.2	118.7	128.6	137.9	116.8	121.7	115.2	116.2	118.7
Spain	96.1	95.2	97.0	102.0	105.9	107.5	105.1	112.0	112.8	112.5	85.5	108.8	110.6	109.8	97.9
France	101.9	98.9	98.7	103.0	98.1	107.0	97.3	93.0	103.0	95.4	76.9	100.8	102.4	102.2	99.8
Croatia	103.8	103.4	107.7	102.9	109.3	119.7	111.6	113.4	114.2	118.1	96.8	113.2	117.6	111.8	105.2
Italy	89.5	88.2	92.4	96.1	108.5	117.4	107.6	114.1	107.9	114.8	72.0	110.6	112.1	108.3	92.5
Cyprus	131.9	130.0	129.7	123.5	125.0	135.6	129.7	136.2	140.6	155.9	115.8	137.4	132.9	130.7	:
Latvia	118.1	123.5	132.2	99.7	102.6	124.1	127.8	131.8	132.4	123.7	128.6	125.1	127.2	131.3	126.4
Lithuania	119.6	128.4	160.3	155.1	148.3	178.6	157.9	146.2	142.6	150.2	158.6	152.9	158.9	156.6	147.1
Luxembourg	86.5	83.5	90.3	94.9	95.3	101.4	98.4	94.7	95.9	93.6	82.1	99.2	96.7	97.7	82.7
Hungary	101.8	104.7	109.4	118.0	127.0	135.7	121.4	126.2	130.4	122.3	113.6	137.8	130.0	129.1	115.7
Malta	94.4	89.5	84.1	96.6	89.9	102.9	97.4	103.3	111.1	121.6	107.7	117.2	115.4	114.2	98.5
Netherlands	100.4	99.6	105.6	103.3	98.2	109.7	107.9	107.0	109.5	103.6	95.0	109.9	110.5	108.8	106.6
Austria	111.4	110.8	124.8	116.4	119.8	138.4	127.3	126.8	132.8	124.7	114.8	133.0	135.5	136.7	121.3
Poland	115.9	123.0	140.0	144.3	148.2	166.9	152.8	150.6	151.0	145.1	140.4	154.5	159.4	159.7	148.1
Portugal	96.8	92.6	92.8	97.6	96.5	106.8	99.6	104.7	102.6	105.0	85.6	100.9	98.4	103.2	95.4
Romania	105.9	106.1	105.8	108.6	107.7	116.4	106.9	115.3	110.2	109.3	98.9	109.5	112.1	111.5	98.3
Slovenia	108.5	112.8	130.7	134.5	122.8	149.7	128.0	139.2	142.0	129.8	115.2	137.1	129.7	136.2	121.2
Slovakia	95.4	101.8	110.9	112.7	114.5	117.2	103.1	111.9	112.0	97.2	99.3	107.0	115.2	113.9	96.4
Finland	121.2	118.6	132.7	110.9	110.9	122.7	121.1	118.6	122.8	102.7	112.8	124.1	121.8	118.4	133.5
Sweden	113.3	114.4	118.1	111.2	112.9	130.8	115.3	115.0	122.8	99.0	98.6	121.9	124.8	120.8	115.8
Norway	102.8	105.6	107.7	112.7	103.9	111.6	103.0	106.2	100.1	94.3	107.9	104.7	113.7	112.6	107.7
Switzerland	114.3	114.5	123.1	124.0	123.5	143.9	119.2	126.4	145.9	121.9	112.3	141.2	:	:	:

: Data not available

Source dataset: sts_inpr_m