

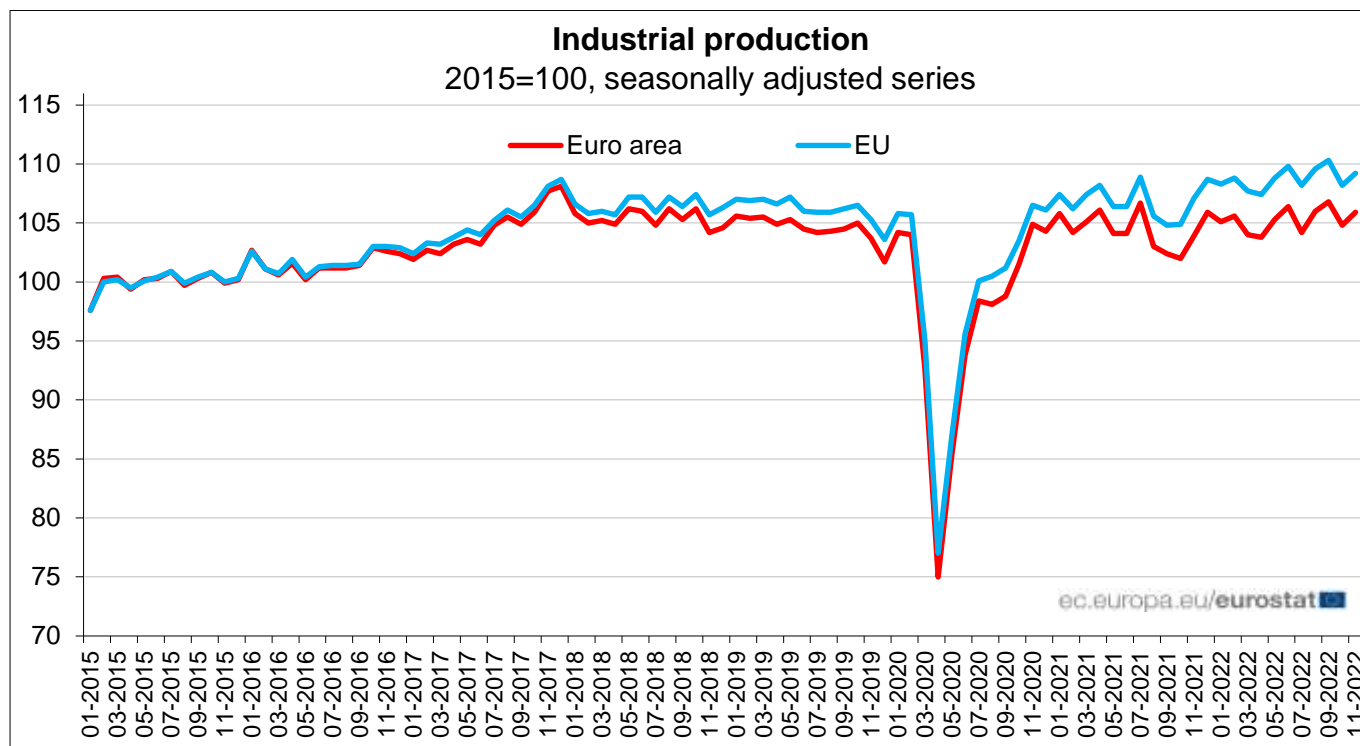
November 2022 compared with October 2022

Industrial production up by 1.0% in the euro area and by 0.9% in the EU

Up by 2.0% for both euro area and EU compared with November 2021

In November 2022, the seasonally adjusted industrial production rose by 1.0% in the **euro area** and by 0.9% in the **EU**, compared with October 2022, according to estimates from **Eurostat, the statistical office of the European Union**. In October 2022, industrial production decreased by 1.9% in both the **euro area** and the **EU**.

In November 2022 compared with November 2021, industrial production increased by 2.0% in both the **euro area** and the **EU**.



Monthly comparison by main industrial grouping and by Member State

In the **euro area** in November 2022, compared with October 2022, production of capital goods grew by 1.0%, intermediate goods by 0.8% and durable consumer goods by 0.4%, while production of energy fell by 0.9% and non-durable consumer goods by 1.3%.

In the **EU**, production of capital goods grew by 0.9%, intermediate goods by 0.7% and energy by 0.1%, while production of durable consumer goods fell by 0.2% and non-durable consumer goods by 1.2%.

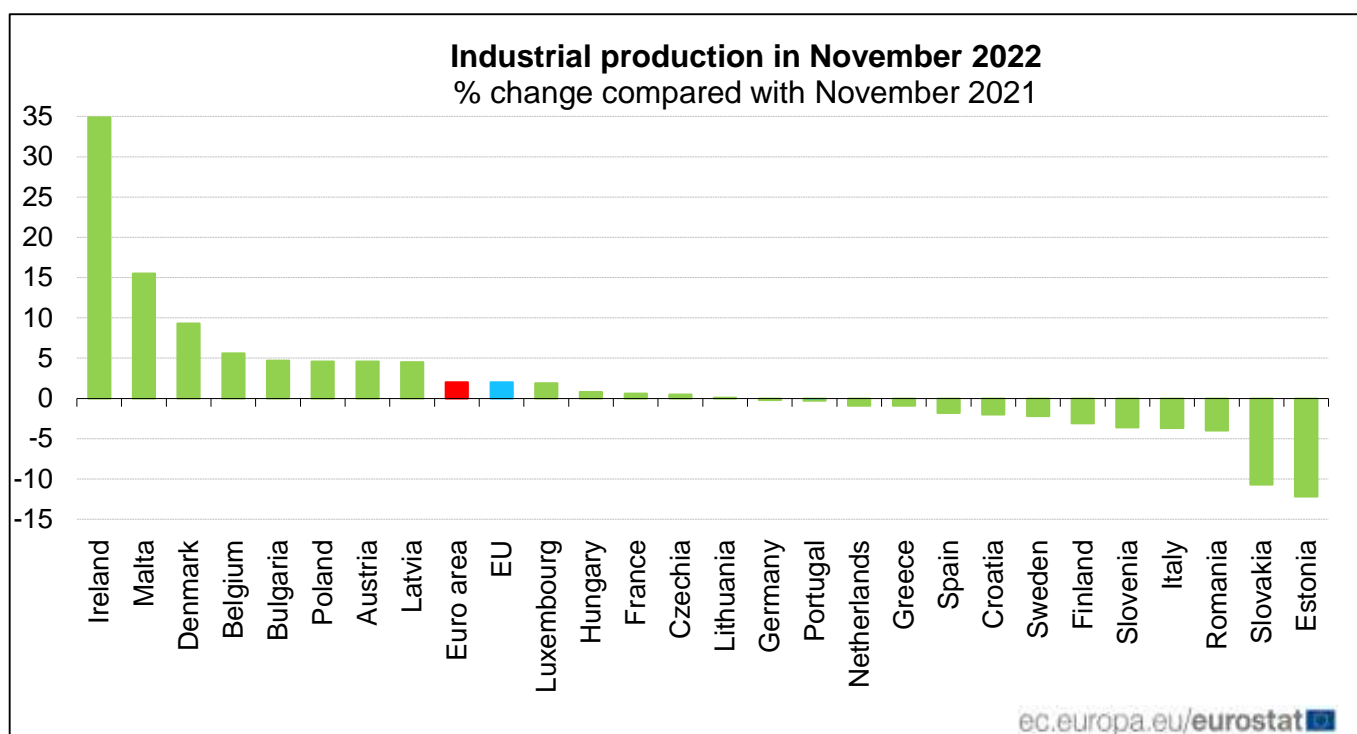
Among Member States for which data are available, the highest monthly increases were registered in **Ireland** (+6.4%), **Luxembourg** (+5.0%) and **Malta** (+4.6%). The largest decreases were observed in **Estonia** (-3.7%), **Sweden** (-3.3%) and **Croatia** (-1.9%).

Annual comparison by main industrial grouping and by Member State

In the **euro area** in November 2022, compared with November 2021, production of capital goods rose by 8.8%, non-durable consumer goods by 6.3% and durable consumer goods by 0.3%, while production of intermediate goods fell by 3.3% and energy by 10.7%.

In the **EU**, production of capital goods rose by 9.0% and non-durable consumer goods by 7.2%, while production of durable consumer goods fell by 1.5%, intermediate goods by 3.3% and energy by 10.2%.

Among Member States for which data are available, the highest annual increases were registered in **Ireland** (+34.9%), **Malta** (+15.5%) and **Denmark** (+9.3%). The largest decreases were observed in **Estonia** (-12.2%), **Slovakia** (-10.7%) and **Romania** (-4.0%).



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 [137/2022](#) of 14 December 2022, the monthly percentage change for October 2022 has been revised from -2.0% to -1.9% in the euro area and remained unchanged at -1.9% in the EU. The annual percentage change remained unchanged at +3.4% in the euro area and at +3.7% 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*

	Jun-22	Jul-22	Aug-22	Sep-22	Oct-22	Nov-22
Euro area						
Total industry	1.0	-2.1	1.7	0.8	-1.9	1.0
Intermediate goods	-0.1	-1.0	-0.6	-0.7	-1.5	0.8
Energy	0.9	-0.5	-0.1	-2.0	-3.5	-0.9
Capital goods	3.1	-4.5	3.4	2.1	0.0	1.0
Durable consumer goods	-1.2	-1.4	1.1	-0.5	-1.7	0.4
Non-durable consumer goods	-4.6	2.3	1.6	3.4	-0.1	-1.3
EU						
Total industry	0.9	-1.5	1.3	0.6	-1.9	0.9
Intermediate goods	-0.2	-1.1	-0.5	-0.6	-1.5	0.7
Energy	0.7	0.2	-1.1	-2.5	-3.6	0.1
Capital goods	2.7	-3.5	2.5	2.2	-0.2	0.9
Durable consumer goods	-1.5	-1.6	0.4	-0.3	-1.3	-0.2
Non-durable consumer goods	-3.5	1.8	1.6	2.9	-0.1	-1.2

Source dataset: [sts_inpr_m](#)

Total industry	Jun-22	Jul-22	Aug-22	Sep-22	Oct-22	Nov-22
Euro area 19	1.0	-2.1	1.7	0.8	-1.9	1.0
Euro area 20	0.9	-2.1	1.7	0.8	-1.9	1.0
EU	0.9	-1.5	1.3	0.6	-1.9	0.9
Belgium	-2.4	1.7	-3.4	7.6	-2.0	2.6
Bulgaria	-0.7	1.1	0.2	-2.6	-2.3	0.7
Czechia	1.9	-0.5	1.0	0.0	-3.6	3.0
Denmark	1.5	-2.2	0.9	2.0	-3.6	2.1
Germany	1.3	-0.4	-0.7	1.3	-1.0	0.6
Estonia	-2.2	-7.7	4.9	-3.6	-1.0	-3.7
Ireland**	9.1	-17.6	16.1	6.6	-8.8	6.4
Greece	3.6	0.9	-1.0	-4.9	0.4	1.1
Spain	1.0	-1.1	0.3	-0.5	-0.6	-0.7
France	1.3	-1.7	2.7	-0.9	-2.6	2.1
Croatia	0.6	-1.1	-0.8	0.4	-1.4	-1.9
Italy	-2.0	0.3	2.2	-1.8	-1.1	-0.3
Cyprus	-4.5	1.7	-0.8	-1.0	0.5	:
Latvia	-2.1	-1.3	0.4	-0.8	0.2	3.4
Lithuania	-2.3	9.3	4.8	-7.2	-0.5	-0.1
Luxembourg	-0.4	0.4	0.2	1.9	-4.3	5.0
Hungary	0.6	0.5	0.2	1.3	-3.6	-0.7
Malta	4.5	4.9	-0.5	1.0	-2.4	4.6
Netherlands	-0.7	0.2	-1.7	1.7	-2.0	-1.1
Austria	-0.1	-3.8	6.3	-2.2	1.5	0.4
Poland	-0.2	0.5	0.3	-0.2	-0.7	1.3
Portugal	-1.1	-0.1	1.9	-2.1	-1.8	3.7
Romania	-2.4	0.5	0.1	-0.5	-0.5	-1.1
Slovenia	0.5	-0.6	1.3	-0.4	-0.9	0.6
Slovakia	-1.7	1.2	-0.8	-0.7	1.3	-1.0
Finland	0.9	-2.8	0.4	1.4	-2.3	-1.2
Sweden	1.7	7.4	-7.2	1.7	-1.1	-3.3
Norway	-1.7	2.2	3.2	-2.4	-1.0	-0.9
Switzerland	3.9	-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*

	Jun-22	Jul-22	Aug-22	Sep-22	Oct-22	Nov-22
Euro area						
Total industry	2.2	-2.5	2.8	5.1	3.4	2.0
Intermediate goods	-0.3	-1.9	-0.6	-1.9	-3.1	-3.3
Energy	0.4	0.3	-0.6	-4.0	-8.1	-10.7
Capital goods	8.0	-5.0	7.9	14.1	9.4	8.8
Durable consumer goods	4.3	2.4	7.3	3.8	0.4	0.3
Non-durable consumer goods	-3.3	-1.4	1.1	5.4	10.1	6.3
EU						
Total industry	3.2	-0.8	3.8	5.8	3.7	2.0
Intermediate goods	0.3	-1.5	0.0	-1.2	-2.5	-3.3
Energy	2.4	2.7	0.6	-3.2	-8.9	-10.2
Capital goods	7.9	-3.3	8.7	14.8	10.1	9.0
Durable consumer goods	2.9	1.6	4.4	2.2	-0.7	-1.5
Non-durable consumer goods	0.8	1.8	3.7	7.8	11.0	7.2

Source dataset: [sts_inpr_m](#)

	Jun-22	Jul-22	Aug-22	Sep-22	Oct-22	Nov-22
Total industry						
Euro area 19	2.2	-2.5	2.8	5.1	3.4	2.0
Euro area 20	2.2	-2.4	2.8	5.1	3.4	2.0
EU	3.2	-0.8	3.8	5.8	3.7	2.0
Belgium	-11.2	-5.3	-7.3	1.3	-2.8	5.6
Bulgaria	17.7	18.0	16.5	10.6	5.5	4.7
Czechia	2.7	0.4	6.9	8.3	3.1	0.5
Denmark	24.5	13.6	11.1	20.1	8.4	9.3
Germany	0.3	-0.9	2.2	4.1	-0.3	-0.2
Estonia	0.0	-6.8	0.3	-7.9	-5.9	-12.2
Ireland	19.4	-24.5	9.4	29.6	53.9	34.9
Greece	9.6	7.1	4.9	-1.2	-2.9	-0.9
Spain	7.5	4.9	5.0	3.8	2.1	-1.8
France	1.3	-1.4	0.9	1.9	-2.5	0.6
Croatia	3.9	2.9	0.7	2.2	-0.3	-2.0
Italy	-1.1	-1.3	2.9	-0.5	-1.6	-3.7
Cyprus	1.7	1.3	-3.1	-0.8	-2.2	:
Latvia	0.7	-3.2	-1.0	-3.7	-2.7	4.5
Lithuania	1.5	9.8	16.3	2.8	1.0	0.1
Luxembourg	-3.3	0.1	-2.0	1.1	-3.9	1.9
Hungary	4.8	5.9	9.1	11.5	5.0	0.8
Malta	-1.8	5.7	11.4	13.5	7.2	15.5
Netherlands	2.3	1.4	1.6	3.6	1.6	-0.9
Austria	10.6	3.8	9.0	7.3	5.9	4.6
Poland	10.5	9.7	11.0	10.0	6.8	4.6
Portugal	4.5	0.7	3.9	-0.1	-2.0	-0.3
Romania	-3.1	-0.9	-1.6	0.7	1.1	-4.0
Slovenia	4.6	1.3	4.6	1.3	-3.9	-3.6
Slovakia	-5.6	-6.4	-2.0	-1.8	-2.6	-10.7
Finland	8.5	2.7	2.4	4.2	-0.2	-3.1
Sweden	1.8	9.5	2.7	5.0	2.2	-2.2
Norway	2.2	1.7	4.8	1.0	3.5	4.5
Switzerland	9.6	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)

	11-21	12-21	01-22	02-22	03-22	04-22	05-22	06-22	07-22	08-22	09-22	10-22	11-22
Euro area 19	103.9	105.9	105.1	105.6	104.0	103.8	105.3	106.4	104.2	106.0	106.8	104.8	105.9
Euro area 20	103.9	105.9	105.2	105.7	104.0	103.8	105.4	106.4	104.2	106.0	106.8	104.8	105.9
EU	107.1	108.7	108.3	108.8	107.7	107.4	108.8	109.8	108.2	109.6	110.3	108.2	109.2
Belgium	125.1	127.9	128.9	128.0	127.8	126.2	127.1	124.1	126.2	121.9	131.2	128.6	132.0
Bulgaria	115.8	117.3	119.9	120.3	126.6	126.6	128.4	127.5	128.9	129.2	125.8	122.9	123.7
Czechia	114.7	110.5	114.2	110.4	112.7	111.2	113.4	115.5	114.9	116.0	116.0	111.8	115.2
Denmark	120.0	120.2	120.5	122.8	127.1	127.8	131.1	133.1	130.2	131.4	134.0	129.2	131.9
Germany	96.0	97.1	97.3	97.7	93.0	94.7	94.8	96.0	95.6	94.9	96.1	95.1	95.7
Estonia	128.8	130.5	123.8	123.1	129.3	130.6	130.0	127.2	117.4	123.1	118.7	117.5	113.1
Ireland*	115.3	138.6	131.1	134.3	137.6	115.5	144.5	157.7	129.9	150.8	160.7	146.6	156.0
Greece	119.8	120.7	115.5	118.3	124.3	115.0	118.8	123.1	124.2	123.0	117.0	117.5	118.8
Spain	105.8	105.6	105.2	106.3	104.1	106.5	106.3	107.4	106.2	106.5	106.0	105.4	104.7
France	97.6	97.9	99.7	98.3	97.9	97.5	97.7	99.0	97.3	99.9	99.0	96.4	98.4
Croatia	109.8	112.2	112.4	112.7	113.6	112.2	112.6	113.3	112.0	111.1	111.5	109.9	107.8
Italy	107.1	105.7	102.1	106.1	106.1	107.4	106.1	104.0	104.3	106.6	104.7	103.6	103.3
Cyprus	131.5	130.3	131.9	133.0	138.2	136.9	135.8	129.7	131.9	130.8	129.5	130.1	:
Latvia	121.1	126.1	125.1	122.0	126.1	126.0	126.4	123.7	122.1	122.6	121.6	121.8	126.0
Lithuania	150.7	155.9	158.8	152.1	171.0	159.5	147.6	144.2	157.6	165.1	153.2	152.4	152.3
Luxembourg	94.9	97.0	97.4	97.4	93.1	96.1	94.0	93.6	94.0	94.2	96.0	91.9	96.5
Hungary	121.1	121.6	123.0	125.4	125.0	123.0	124.5	125.2	125.8	126.1	127.8	123.2	122.3
Malta	99.2	98.5	100.6	97.3	103.1	98.4	101.6	106.2	111.4	110.8	111.9	109.2	114.2
Netherlands	104.0	105.9	105.0	103.5	103.7	109.4	107.4	106.6	106.8	105.0	106.8	104.7	103.5
Austria	124.4	126.8	130.6	126.4	126.0	127.2	127.8	127.7	122.8	130.5	127.6	129.5	130.0
Poland	145.8	145.8	149.3	152.2	153.1	152.5	151.5	151.2	151.9	152.3	152.0	151.0	152.9
Portugal	101.0	102.4	97.2	98.0	103.0	100.8	100.3	99.2	99.1	101.0	98.9	97.1	100.7
Romania	110.2	111.5	113.5	112.1	111.1	111.4	110.6	108.0	108.5	108.6	108.1	107.6	106.4
Slovenia	135.2	137.3	137.7	129.4	131.2	130.7	132.3	133.0	132.2	133.9	133.4	132.2	133.0
Slovakia	120.2	118.8	115.9	113.3	107.5	106.4	108.6	106.7	108.0	107.1	106.3	107.7	106.6
Finland	117.2	120.0	116.3	116.7	114.9	118.7	118.6	119.7	116.4	116.9	118.5	115.8	114.4
Sweden	115.2	115.4	114.5	114.1	115.9	113.9	114.4	116.4	125.0	116.0	118.0	116.7	112.8
Norway	101.4	103.7	104.7	103.8	106.4	106.1	106.9	105.1	107.4	110.8	108.1	107.0	106.0
Switzerland	127.1	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)

	11-19	11-20	11-21	12-21	01-22	02-22	03-22	04-22	05-22	06-22	07-22	08-22	09-22	10-22	11-22
Euro area 19	109.8	111.5	110.1	99.9	102.5	102.3	110.2	103.0	104.4	107.5	105.2	89.6	113.5	112.9	112.3
Euro area 20	109.8	111.5	110.1	99.9	102.5	102.3	110.2	103.1	104.4	107.5	105.3	89.6	113.5	113.0	112.3
EU	111.6	113.2	113.5	103.0	105.5	105.5	114.7	106.6	108.1	111.2	107.4	93.9	116.7	116.3	115.8
Belgium	116.5	117.0	126.6	125.3	126.7	124.2	137.0	122.3	125.0	132.2	117.8	112.0	137.6	136.5	133.7
Bulgaria	113.9	108.5	122.8	119.7	116.1	114.6	133.1	123.6	123.4	129.6	132.4	124.2	125.2	125.6	128.6
Czechia	120.4	123.4	125.0	103.5	110.6	107.0	121.8	111.0	115.3	120.6	103.4	105.1	120.1	119.1	125.6
Denmark	112.5	114.6	126.3	115.9	121.7	118.2	134.3	123.5	130.8	135.1	115.1	127.9	143.1	135.2	138.1
Germany	106.7	104.2	102.3	92.1	91.3	94.5	100.8	93.4	93.2	97.4	95.7	88.3	100.6	98.2	102.1
Estonia	123.9	126.0	134.2	125.0	118.3	115.9	137.3	130.4	135.5	127.9	106.0	121.2	123.0	126.0	117.8
Ireland	121.7	197.4	137.0	116.4	152.9	108.4	111.6	117.7	122.9	125.6	126.7	125.5	210.4	205.8	184.8
Greece	98.5	107.5	117.4	120.4	105.6	115.0	125.9	113.2	118.7	128.6	137.9	116.8	121.7	115.3	116.4
Spain	110.9	106.6	111.4	97.0	102.0	105.9	107.5	105.1	112.0	112.8	112.5	85.5	108.8	110.3	109.4
France	107.5	102.1	101.7	98.7	103.1	98.2	107.0	97.3	93.0	103.0	95.4	77.0	100.8	102.4	102.3
Croatia	112.1	110.2	114.2	109.1	101.8	109.2	119.9	112.3	115.1	114.1	118.3	96.9	113.2	117.4	111.9
Italy	109.5	104.9	112.1	92.4	96.1	108.5	117.4	107.6	114.1	107.9	114.9	72.0	110.6	112.2	107.9
Cyprus	129.0	128.3	128.5	129.7	123.5	125.0	135.6	129.7	136.2	140.6	155.9	115.8	137.6	134.0	:
Latvia	121.8	125.5	126.7	132.2	99.7	102.6	124.1	127.8	131.8	132.4	123.7	128.6	125.1	127.0	132.4
Lithuania	127.8	126.6	156.1	160.5	154.7	147.4	179.5	157.2	145.7	141.7	149.2	158.6	152.2	158.9	156.2
Luxembourg	98.3	96.3	97.2	90.3	94.9	95.3	101.4	98.4	94.7	95.9	93.6	82.1	98.9	96.6	99.0
Hungary	123.0	125.1	127.9	109.4	117.8	126.8	135.5	121.3	126.1	130.3	122.0	113.4	137.4	129.9	128.9
Malta	107.5	105.8	100.7	84.1	96.9	90.3	103.4	97.7	103.7	111.6	121.8	108.2	117.4	115.7	116.3
Netherlands	107.0	104.5	109.3	105.6	103.3	98.2	109.7	107.9	107.0	109.5	103.6	95.0	109.9	109.8	108.3
Austria	118.1	119.2	132.3	124.8	116.4	119.8	138.3	127.2	126.8	133.5	125.0	114.9	133.1	135.7	138.4
Poland	129.2	133.0	152.8	140.0	144.3	148.2	166.9	152.8	150.6	151.0	145.1	140.4	154.5	159.4	159.9
Portugal	105.7	102.5	103.5	92.8	97.6	96.5	106.8	99.6	104.7	102.6	105.0	85.6	100.9	98.4	103.2
Romania	117.2	116.6	116.2	105.8	108.6	107.7	116.4	106.9	115.3	110.2	109.3	98.9	109.5	112.1	111.5
Slovenia	126.9	129.6	140.4	130.7	134.4	122.7	149.5	128.1	139.2	142.0	129.8	115.3	137.0	129.8	135.4
Slovakia	119.7	122.4	127.6	110.9	112.7	114.5	117.2	103.1	111.9	112.0	97.2	99.3	107.0	115.2	113.9
Finland	117.1	115.5	121.6	132.5	109.3	108.9	121.0	119.4	117.8	121.6	102.2	112.3	122.8	120.8	117.8
Sweden	120.6	118.6	123.4	118.1	111.2	112.9	130.8	115.3	115.0	122.8	99.0	98.6	121.9	124.8	120.7
Norway	105.7	105.0	107.7	107.7	112.7	103.9	111.5	103.0	106.2	100.1	94.3	107.9	104.7	113.7	112.6
Switzerland	123.0	122.1	133.4	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