

008/2024 - 15 January 2024

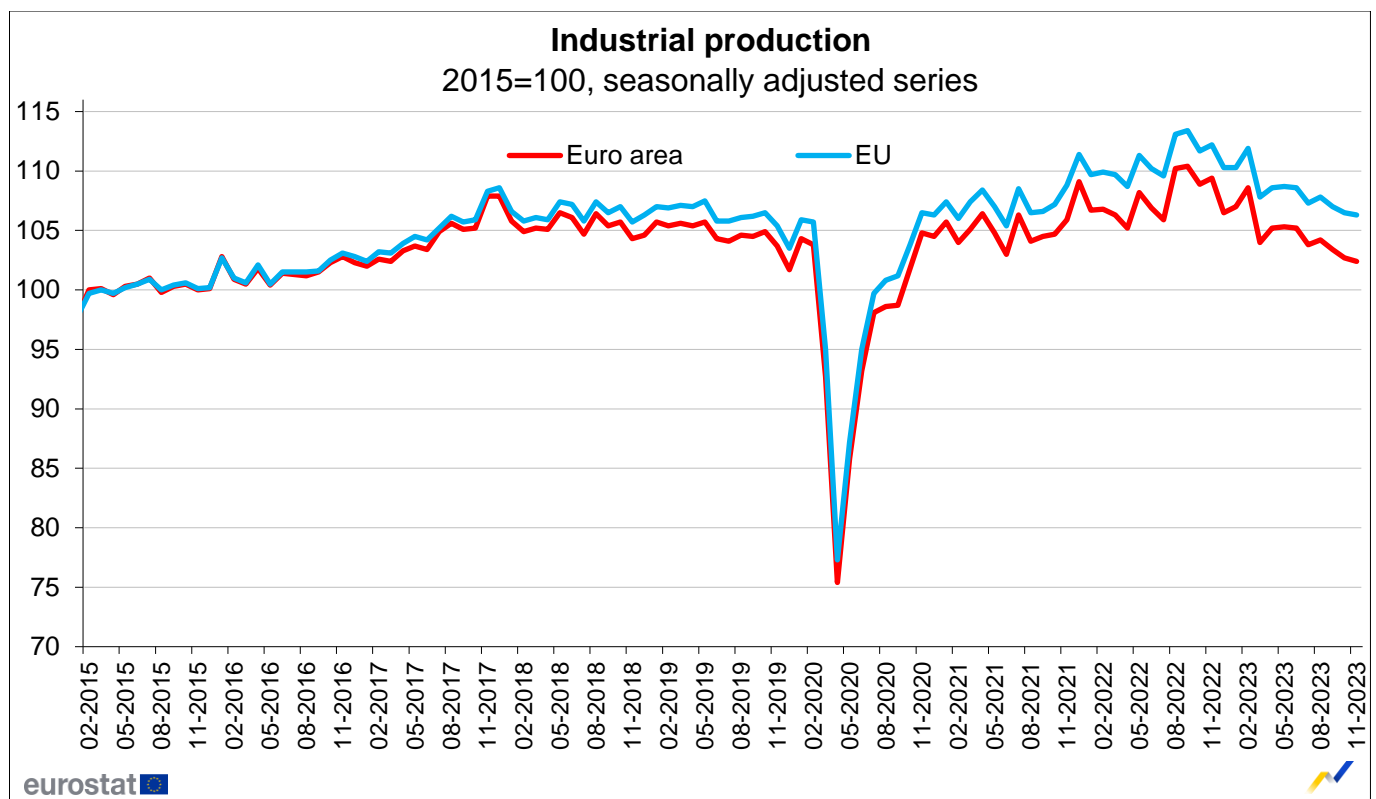
November 2023 compared with October 2023

Industrial production down by 0.3% in the euro area and by 0.2% in the EU

Down by 6.8% in the euro area and by 5.8% in the EU compared with November 2022

In November 2023, the seasonally adjusted industrial production decreased by 0.3% in the **euro area** and by 0.2% in the **EU**, compared with October 2023, according to estimates from **Eurostat, the statistical office of the European Union**. In October 2023, industrial production decreased by 0.7% in the **euro area** and by 0.5% in the **EU**.

In November 2023 compared with November 2022, industrial production decreased by 6.8% in the **euro area** and by 5.8% in the **EU**.



Monthly comparison by main industrial grouping and by Member State

Industrial production in the **euro area** in November 2023, compared with October 2023, fell by 2.0% for durable consumer goods, by 0.8% for capital goods and by 0.6% for intermediate goods, while production grew by 0.9% for energy and by 1.2% for non-durable consumer goods.

In the **EU**, industrial production fell by 1.8% for durable consumer goods, by 0.8% for capital goods and by 0.7% for intermediate goods, while production grew by 0.7% for energy and by 1.7% for non-durable consumer goods.

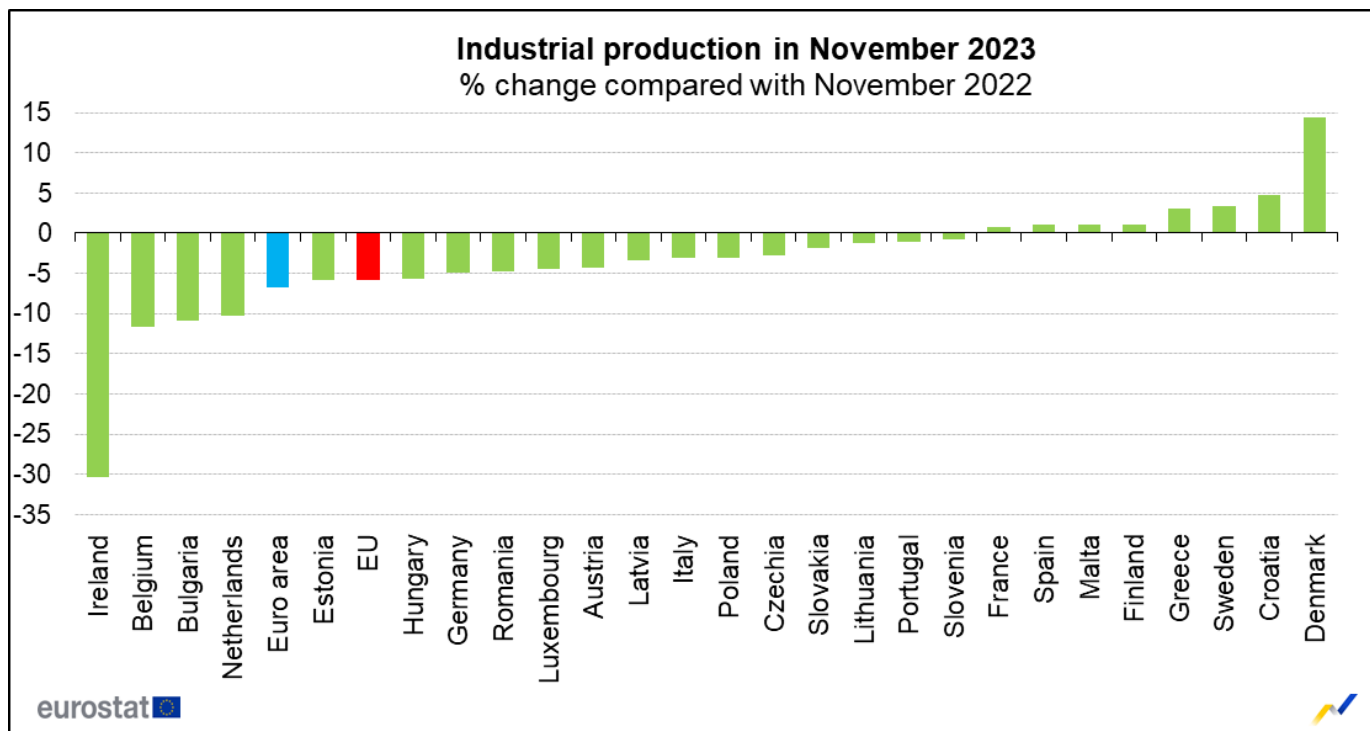
Among Member States for which data are available, the largest monthly decreases were registered in **Greece** (-4.1%), **Slovakia** (-4.0%) and **Belgium** (-3.8%). The highest increases were observed in **Denmark** (+9.1%), **Slovenia** (+3.7%) and **Portugal** (+3.4%).

Annual comparison by main industrial grouping and by Member State

Industrial production in the **euro area** in November 2023, compared with November 2022, fell by 10.3% for capital goods, by 8.0% for durable consumer goods, by 6.9% for non-durable consumer goods and by 5.2% for intermediate goods, while production grew by 0.8% for energy.

In the **EU**, industrial production fell by 8.7% for capital goods, by 8.4% for durable consumer goods, by 5.6% for intermediate goods and by 3.8% for non-durable consumer goods, while production grew by 1.0% for energy.

Among Member States for which data are available, the largest annual decreases were registered in **Ireland** (-30.4%), **Belgium** (-11.6%) and **Bulgaria** (-10.9%). The highest increases were observed in **Denmark** (+14.4%), **Croatia** (+4.8%) and **Sweden** (+3.4%).



Geographical information

The **euro area** (EA20) includes Belgium, Germany, Estonia, Ireland, Greece, Spain, France, Croatia, Italy, Cyprus, Latvia, Lithuania, Luxembourg, Malta, the Netherlands, Austria, Portugal, Slovenia, Slovakia and Finland.

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 137/2023 of 13 December 2023, the monthly percentage decrease for October 2023 remained unchanged at -0.7% in the euro area and at -0.5% in the EU. The annual percentage decrease remained unchanged at -6.6% in the euro area and has been revised from -5.5% to -5.4% 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

For further information on data

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Industrial production

% change compared with previous month*

	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23
Euro area						
Total industry	-0.1	-1.3	0.4	-0.8	-0.7	-0.3
Intermediate goods	-1.0	0.1	-0.3	-0.4	-0.7	-0.6
Energy	0.5	1.0	-0.2	-1.5	0.6	0.9
Capital goods	-0.3	-3.0	0.5	0.0	-1.1	-0.8
Durable consumer goods	-0.7	-1.3	1.2	-1.4	0.1	-2.0
Non-durable consumer goods	-1.6	1.0	0.0	-0.8	1.2	1.2
EU						
Total industry	-0.1	-1.2	0.5	-0.7	-0.5	-0.2
Intermediate goods	-1.0	0.1	-0.1	-0.4	-0.7	-0.7
Energy	0.3	0.9	0.2	-1.6	2.1	0.7
Capital goods	-0.3	-2.6	0.1	0.1	-0.7	-0.8
Durable consumer goods	-1.0	-1.1	1.2	-1.6	0.0	-1.8
Non-durable consumer goods	-0.7	-0.3	0.3	-0.5	1.0	1.7

Source dataset: [sts_inpr_m](#)

Total industry	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23
Euro area	-0.1	-1.3	0.4	-0.8	-0.7	-0.3
EU	-0.1	-1.2	0.5	-0.7	-0.5	-0.2
Belgium	-3.0	2.4	-3.9	-0.7	3.1	-3.8
Bulgaria	0.3	-1.1	0.8	-2.4	1.6	-3.2
Czechia	1.5	-2.8	-0.2	-1.2	2.8	-1.4
Denmark	6.3	-9.2	1.6	-0.9	1.5	9.1
Germany	-1.2	-1.2	0.4	-1.7	0.0	-0.3
Estonia	-1.4	-3.9	2.2	-3.4	-0.5	2.7
Ireland**	6.2	-9.2	4.9	-1.3	-7.1	0.9
Greece	-1.4	2.1	1.0	-2.1	6.0	-4.1
Spain	-1.1	0.3	-0.7	1.4	-0.7	1.1
France	-0.9	0.6	-0.2	-0.6	-0.3	0.5
Croatia	1.8	-3.0	-2.2	4.3	-1.4	2.6
Italy	0.5	-0.9	0.2	0.0	-0.2	-1.5
Cyprus	-0.6	0.9	0.1	-0.1	-1.0	:
Latvia	0.7	-2.4	1.7	0.6	1.4	-0.8
Lithuania	4.3	-4.6	4.4	0.3	-1.0	-0.7
Luxembourg	-0.2	0.5	1.1	-3.2	2.8	0.2
Hungary	-0.3	2.1	-2.2	0.8	-0.5	-2.3
Malta	-3.1	3.7	-1.6	2.9	-2.5	1.8
Netherlands	1.2	0.1	-2.4	-0.7	-2.1	-1.0
Austria	-1.4	-0.7	1.8	-0.7	-1.1	-0.2
Poland	0.5	-0.8	1.0	0.7	-0.1	-0.9
Portugal	-0.2	0.8	-0.9	-2.9	3.4	3.4
Romania	-1.9	0.7	0.0	0.6	-1.4	-0.6
Slovenia	0.8	-8.0	-1.7	5.1	0.0	3.7
Slovakia	-1.1	-2.6	4.4	-1.8	0.4	-4.0
Finland	-2.9	0.3	1.6	-0.5	0.4	-0.1
Sweden	-5.9	5.7	2.4	-2.5	1.7	-0.4
Norway	0.6	2.8	-1.1	-8.6	8.2	2.3
Switzerland	0.5	-2.2	4.6	3.7	:	:

* 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-23	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23
Euro area						
Total industry	-1.1	-2.1	-5.3	-6.7	-6.6	-6.8
Intermediate goods	-6.3	-5.1	-5.2	-4.6	-4.1	-5.2
Energy	-7.3	-6.0	-5.8	-6.0	-0.9	0.8
Capital goods	4.9	0.7	-7.0	-9.5	-9.7	-10.3
Durable consumer goods	-6.3	-6.4	-8.1	-7.3	-5.5	-8.0
Non-durable consumer goods	-0.1	-0.8	-2.1	-5.4	-7.3	-6.9
EU						
Total industry	-1.1	-2.4	-4.4	-6.1	-5.4	-5.8
Intermediate goods	-6.7	-5.5	-5.4	-5.1	-4.4	-5.6
Energy	-8.7	-7.7	-6.2	-6.0	0.2	1.0
Capital goods	5.2	1.1	-5.4	-8.2	-7.9	-8.7
Durable consumer goods	-7.4	-7.1	-7.9	-8.1	-6.5	-8.4
Non-durable consumer goods	2.0	0.2	-0.5	-3.3	-4.7	-3.8

Source dataset: [sts_inpr_m](#)

Total industry	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23
Euro area	-1.1	-2.1	-5.3	-6.7	-6.6	-6.8
EU	-1.1	-2.4	-4.4	-6.1	-5.4	-5.8
Belgium	-5.0	-3.4	-4.6	-11.8	-6.5	-11.6
Bulgaria	-9.4	-11.6	-9.6	-11.6	-5.9	-10.9
Czechia	0.9	-3.2	-2.2	-4.9	1.8	-2.7
Denmark	11.5	5.9	4.8	1.5	7.5	14.4
Germany	-1.4	-2.3	-2.1	-4.4	-3.7	-4.9
Estonia	-12.9	-9.5	-11.9	-13.0	-12.3	-5.8
Ireland	6.3	-6.2	-27.5	-26.9	-34.0	-30.4
Greece	-3.0	-2.0	-0.3	1.8	10.4	3.1
Spain	-3.2	-2.0	-3.6	-0.2	-1.6	1.1
France	0.4	2.7	-0.3	-0.2	1.9	0.7
Croatia	2.2	-0.7	-2.4	1.6	1.0	4.8
Italy	-0.7	-2.3	-4.2	-2.0	-1.1	-3.1
Cyprus	1.6	3.0	5.0	3.7	1.8	:
Latvia	-5.1	-8.3	-4.9	-2.7	0.5	-3.4
Lithuania	4.7	-7.9	-6.4	-0.7	-1.4	-1.3
Luxembourg	-6.5	-6.6	-5.4	-10.1	-3.8	-4.5
Hungary	-5.5	-2.4	-6.1	-5.8	-2.9	-5.6
Malta	-4.5	1.8	-0.3	3.4	2.0	1.1
Netherlands	-6.8	-6.4	-7.4	-10.0	-10.8	-10.3
Austria	-2.1	-0.4	-2.1	-1.6	-3.7	-4.3
Poland	-1.1	-2.3	-1.9	-1.0	-0.6	-3.1
Portugal	-3.6	-3.8	-4.9	-6.0	-1.0	-1.1
Romania	-6.3	-5.1	-5.7	-3.1	-4.3	-4.8
Slovenia	-2.4	-7.1	-13.0	-5.5	0.0	-0.8
Slovakia	3.6	-4.9	4.7	-0.2	4.4	-1.8
Finland	-5.7	-2.6	-0.1	-2.5	0.5	1.1
Sweden	-7.4	-8.2	1.6	-4.1	0.0	3.4
Norway	-11.1	-1.5	-8.8	-20.0	-9.1	-6.1
Switzerland	-1.8	2.0	2.1	2.4	:	:

* Calendar adjusted

: Data not available

Source dataset: [sts_inpr_m](#)

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

	11-22	12-22	01-23	02-23	03-23	04-23	05-23	06-23	07-23	08-23	09-23	10-23	11-23
Euro area	109.4	106.5	107.0	108.6	104.0	105.2	105.3	105.2	103.8	104.2	103.4	102.7	102.4
EU	112.2	110.3	110.3	111.9	107.8	108.6	108.7	108.6	107.3	107.8	107.0	106.5	106.3
Belgium	130.0	126.2	121.4	125.3	126.8	121.3	122.0	118.4	121.3	116.6	115.8	119.4	114.9
Bulgaria	123.0	122.7	119.6	118.8	116.2	112.9	114.6	115.0	113.7	114.6	111.8	113.6	110.0
Czechia	116.2	116.8	113.0	113.9	116.1	114.4	114.8	116.5	113.2	113.0	111.6	114.7	113.1
Denmark	131.8	148.9	135.9	141.5	142.2	142.0	140.7	149.5	135.8	138.0	136.8	138.8	151.4
Germany	96.3	94.3	95.7	97.5	95.4	95.4	95.3	94.2	93.1	93.5	91.9	91.9	91.6
Estonia	119.0	121.5	120.4	120.1	118.9	116.5	117.4	115.7	111.2	113.7	109.8	109.2	112.1
Ireland*	212.6	168.0	183.2	193.1	131.6	166.6	159.3	169.2	153.6	161.1	159.0	147.7	149.0
Greece	119.2	119.1	117.7	123.5	123.7	121.0	121.4	119.7	122.2	123.4	120.8	128.0	122.8
Spain	104.9	105.6	105.3	105.8	107.1	105.0	105.5	104.3	104.6	103.9	105.4	104.7	105.8
France	98.1	99.5	97.4	98.9	97.8	98.5	99.7	98.8	99.4	99.2	98.6	98.3	98.8
Croatia	109.0	109.1	110.0	110.4	111.3	108.0	112.3	114.3	110.9	108.5	113.2	111.6	114.5
Italy	103.5	104.4	103.6	103.6	102.9	100.8	102.4	102.9	102.0	102.2	102.2	102.0	100.5
Cyprus	133.7	133.1	132.5	134.8	131.6	134.3	135.5	134.7	135.9	136.0	135.8	134.4	:
Latvia	123.2	119.9	116.3	119.2	118.1	117.8	116.6	117.4	114.6	116.6	117.3	119.0	118.0
Lithuania	151.3	145.2	144.7	143.5	145.5	149.0	145.6	151.8	144.8	151.1	151.5	150.0	149.0
Luxembourg	93.7	91.0	88.5	94.0	91.0	89.1	88.3	88.1	88.5	89.5	86.6	89.0	89.2
Hungary	123.3	127.5	120.3	120.1	120.6	117.8	119.6	119.2	121.7	119.0	120.0	119.4	116.6
Malta	111.3	113.1	112.0	113.3	114.9	113.0	111.4	107.9	111.9	110.1	113.3	110.5	112.5
Netherlands	103.9	105.8	101.1	101.4	100.0	97.3	98.1	99.3	99.4	97.0	96.3	94.3	93.4
Austria	128.1	128.5	131.1	129.8	126.6	126.9	125.5	123.8	122.9	125.1	124.2	122.8	122.5
Poland	152.9	154.4	150.2	151.1	149.0	147.5	147.6	148.3	147.1	148.5	149.5	149.4	148.0
Portugal	100.6	103.9	101.5	99.6	99.5	93.5	96.0	95.8	96.6	95.7	92.9	96.1	99.4
Romania	106.2	104.5	106.9	107.0	107.1	106.2	104.2	102.2	102.9	102.9	103.5	102.1	101.5
Slovenia	130.0	128.7	129.9	127.2	129.7	120.1	129.7	130.7	120.3	118.3	124.3	124.3	128.9
Slovakia	109.6	109.0	108.3	110.1	112.3	111.0	113.4	112.1	109.2	114.0	111.9	112.4	107.9
Finland	115.9	119.6	119.5	116.4	119.6	116.9	119.1	115.6	115.9	117.7	117.1	117.6	117.5
Sweden	112.6	115.3	120.1	120.1	115.2	117.3	115.9	109.1	115.3	118.1	115.1	117.0	116.5
Norway	106.2	106.1	97.4	97.4	99.6	100.0	96.9	97.5	100.2	99.1	90.6	98.0	100.3
Switzerland	128.0	134.7	132.4	131.4	137.4	129.9	130.4	131.1	128.2	134.1	139.0	:	:

* 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)

	11-20	11-21	11-22	12-22	01-23	02-23	03-23	04-23	05-23	06-23	07-23	08-23	09-23	10-23	11-23
Euro area	111.5	112.6	116.9	100.1	105.8	105.7	110.3	104.4	103.6	108.4	104.7	86.6	110.0	109.0	108.9
EU	113.2	115.6	119.8	104.2	108.7	108.9	114.7	107.8	107.3	111.8	106.3	91.2	113.2	113.0	112.9
Belgium	117.0	126.6	131.4	123.5	118.2	121.6	136.8	117.3	120.1	125.6	113.8	106.8	121.3	127.9	116.1
Bulgaria	108.5	123.6	128.9	123.7	112.9	112.3	121.2	107.9	109.4	117.7	117.3	112.4	111.0	118.3	114.9
Czechia	123.4	125.0	126.6	108.7	109.0	110.5	126.0	113.7	116.9	123.2	101.1	103.5	115.1	122.0	123.2
Denmark	114.6	126.3	138.4	146.3	136.7	137.2	148.3	136.9	139.6	150.6	121.8	134.0	145.2	145.5	158.3
Germany	104.1	102.3	102.8	90.0	89.3	94.8	103.4	93.6	93.5	96.2	93.3	86.5	96.6	94.7	97.8
Estonia	126.0	141.9	123.7	116.2	115.6	113.7	126.8	116.7	122.6	116.2	99.8	111.7	113.4	116.6	116.5
Ireland	197.4	178.4	259.7	131.4	236.7	171.5	100.5	178.8	125.4	169.0	147.2	113.4	207.4	177.5	180.8
Greece	107.5	117.4	116.3	119.0	106.2	121.3	126.9	118.6	121.8	124.8	135.3	117.0	124.0	127.3	119.9
Spain	106.6	111.4	109.9	98.2	101.4	105.2	113.7	102.6	111.2	109.2	110.2	82.4	108.6	108.8	111.1
France	102.3	101.7	101.9	100.2	100.1	98.7	107.1	98.3	95.4	103.3	97.9	76.3	100.3	103.9	102.6
Croatia	109.3	114.4	111.9	105.2	100.0	107.4	118.8	107.8	114.8	116.8	117.3	94.6	115.0	118.9	117.3
Italy	104.9	112.1	107.9	91.6	97.6	106.1	113.8	99.8	110.0	107.2	112.4	69.2	108.2	110.8	104.6
Cyprus	127.9	128.2	131.2	131.5	122.2	128.0	129.8	129.8	138.6	143.0	159.7	122.2	143.2	134.9	:
Latvia	125.5	126.7	131.3	126.4	90.4	100.3	116.2	119.5	120.7	125.7	113.5	122.3	121.7	127.8	126.8
Lithuania	126.8	156.3	156.6	147.1	139.7	136.0	149.7	146.8	149.0	149.3	138.3	148.5	151.9	156.6	154.6
Luxembourg	96.3	97.6	95.8	84.4	86.4	92.2	100.6	90.7	88.0	89.9	87.4	77.6	89.1	94.6	91.5
Hungary	125.2	127.8	129.7	116.8	114.2	120.8	130.5	113.9	120.3	123.4	119.3	107.0	130.5	126.6	122.5
Malta	105.7	100.9	112.7	97.7	107.9	105.5	116.6	112.2	112.9	113.9	121.7	106.6	119.1	116.1	113.9
Netherlands	104.5	109.3	109.3	106.9	98.7	96.1	106.0	94.6	97.2	101.8	97.2	88.1	99.0	99.0	98.0
Austria	119.2	132.3	136.2	125.8	116.5	123.9	139.3	126.5	125.0	129.1	124.1	109.9	130.0	128.7	130.3
Poland	133.0	152.8	159.7	148.1	143.7	146.5	161.8	147.0	146.3	149.3	141.7	137.8	152.9	158.6	154.7
Portugal	102.5	103.5	103.0	94.5	102.6	99.1	103.2	92.6	100.5	98.9	101.0	81.4	94.8	97.4	101.9
Romania	116.6	116.2	111.5	98.3	102.9	102.9	113.6	102.2	109.1	103.3	103.7	93.3	106.1	107.3	106.2
Slovenia	129.6	140.4	136.4	117.0	125.3	122.8	144.7	117.2	135.9	138.2	119.8	99.4	129.3	129.7	135.3
Slovakia	127.3	131.6	119.4	101.0	104.9	110.8	123.4	105.3	116.2	120.1	94.9	107.5	110.5	119.7	117.2
Finland	115.5	121.7	118.7	133.5	115.0	108.7	127.6	117.4	119.5	115.7	99.8	112.4	120.7	122.0	120.0
Sweden	118.6	123.4	120.5	117.8	117.4	119.6	130.0	119.7	116.1	114.5	91.0	100.5	117.6	125.7	124.6
Norway	105.0	107.6	112.6	107.7	105.4	97.6	105.6	97.9	94.4	89.1	92.9	98.4	83.7	103.4	105.7
Switzerland	122.1	133.4	133.9	133.4	129.8	124.9	153.6	119.1	125.8	143.3	125.0	116.1	144.8	:	:

: Data not available

Source dataset: [sts_inpr_m](#)