

128/2023 - 15 November 2023

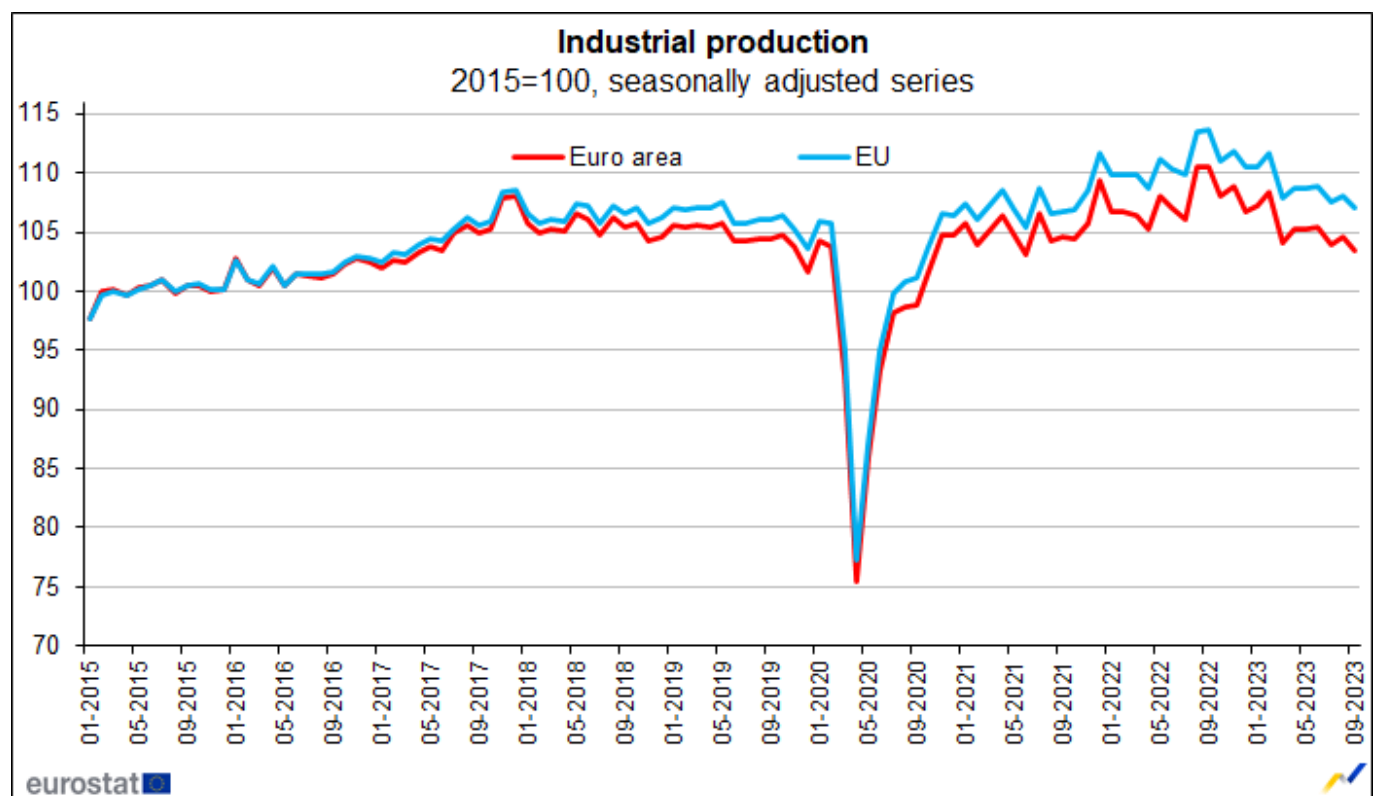
September 2023 compared with August 2023

Industrial production down by 1.1% in the euro area and by 0.9% in the EU

Down by 6.9% in the euro area and by 6.1% in the EU compared with September 2022

In September 2023, the seasonally adjusted industrial production decreased by 1.1% in the **euro area** and by 0.9% in the **EU**, compared with August 2023, according to estimates from **Eurostat, the statistical office of the European Union**. In August 2023, industrial production increased by 0.6% in both the **euro area** and the **EU**.

In September 2023 compared with September 2022, industrial production decreased by 6.9% in the **euro area** and by 6.1% in the **EU**.



Monthly comparison by main industrial grouping and by Member State

In the **euro area** in September 2023, compared with August 2023, production of durable consumer goods and non-durable consumer goods fell both by 2.1%, energy by 1.3% and intermediate goods by 0.3%, while production of capital goods grew by 0.3%.

In the **EU**, production of durable consumer goods fell by 2.4%, non-durable consumer goods by 1.2%, energy by 1.0% and intermediate goods by 0.2%, while production of capital goods grew by 0.4%.

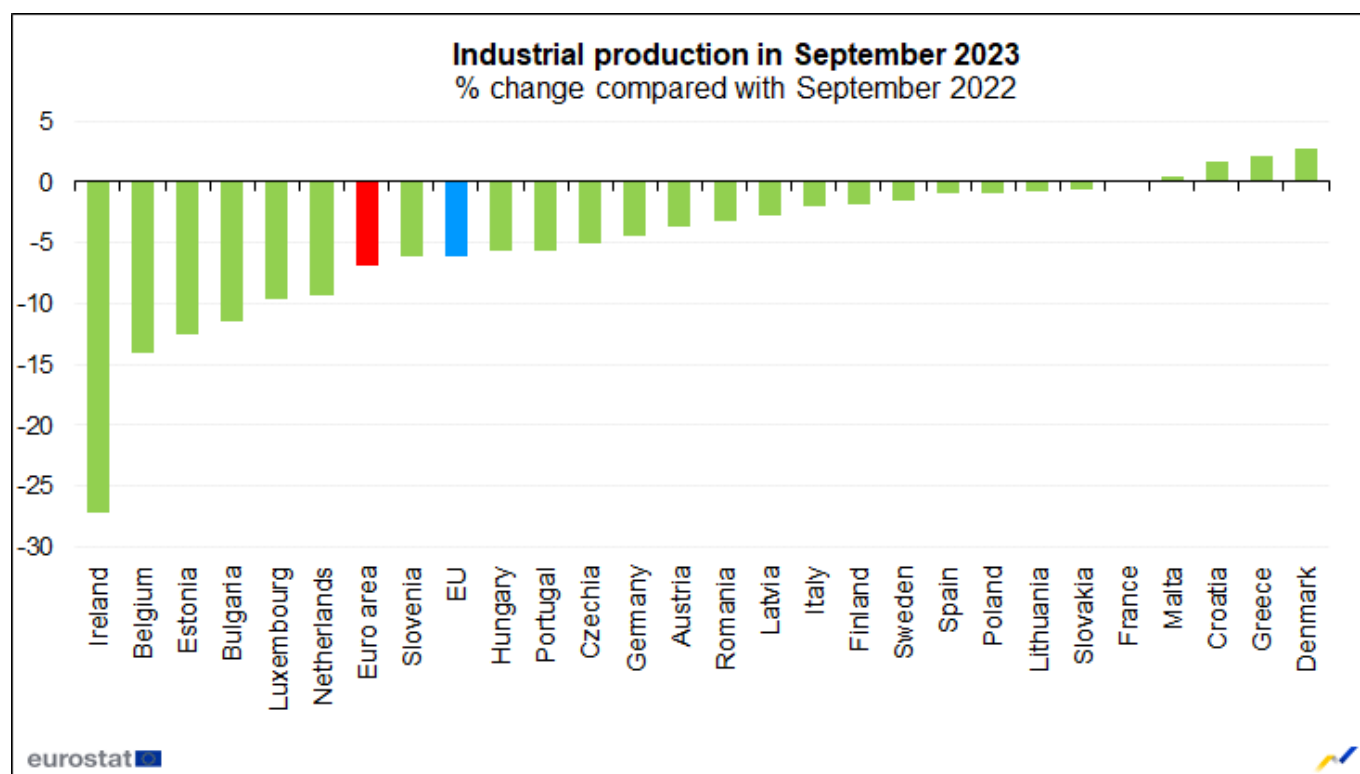
Among Member States for which data are available, the largest monthly decreases were registered in **Belgium** (-3.2%), **Portugal** (-3.0%), **Estonia** and **Ireland** (both -2.9%). The highest increases were observed in **Croatia** (+4.3%), **Slovenia** (+4.1%) and **Hungary** (+1.3%).

Annual comparison by main industrial grouping and by Member State

In the **euro area** in September 2023, compared with September 2022, production of capital goods fell by 9.5%, durable consumer goods by 8.1%, non-durable consumer goods by 6.7%, energy by 5.8% and intermediate goods by 4.5%.

In the **EU**, production of durable consumer goods fell by 8.9%, capital goods by 8.1%, energy by 5.5%, intermediate goods by 5.0% and non-durable consumer goods by 4.3%.

Among Member States for which data are available, the largest annual decreases were registered in **Ireland** (-27.2%), **Belgium** (-14.0%) and **Estonia** (-12.5%). Increases were observed in **Denmark** (+2.8%), **Greece** (+2.1%), **Croatia** (+1.6%) and **Malta** (+0.4%).



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 114/2023 of 13 October 2023, the monthly percentage increase for August 2023 remained unchanged at +0.6% in both the euro area and the EU. The annual percentage decrease remained unchanged at -5.1% in the euro area and at -4.4% 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*

	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23
Euro area						
Total industry	1.2	0.0	0.1	-1.3	0.6	-1.1
Intermediate goods	-0.7	0.4	-0.9	0.0	-0.2	-0.3
Energy	-0.1	-2.1	0.5	1.2	-0.3	-1.3
Capital goods	13.0	0.7	0.0	-3.1	0.3	0.3
Durable consumer goods	-3.7	-1.1	-0.6	-1.3	0.8	-2.1
Non-durable consumer goods	-3.7	0.9	-1.4	0.7	0.5	-2.1
EU						
Total industry	0.7	0.0	0.1	-1.2	0.6	-0.9
Intermediate goods	-0.7	0.3	-0.9	0.0	-0.1	-0.2
Energy	-0.4	-2.5	0.3	1.1	0.0	-1.0
Capital goods	10.6	0.7	-0.1	-2.6	-0.1	0.4
Durable consumer goods	-3.0	-1.0	-0.8	-1.2	0.8	-2.4
Non-durable consumer goods	-2.7	1.0	-0.6	-0.5	0.5	-1.2

Source dataset: [sts_inpr_m](#)

	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23
Total industry						
Euro area	1.2	0.0	0.1	-1.3	0.6	-1.1
EU	0.7	0.0	0.1	-1.2	0.6	-0.9
Belgium	-4.3	0.6	-3.0	2.5	-3.4	-3.2
Bulgaria	-2.8	1.5	0.3	-1.1	0.8	-2.7
Czechia	-1.5	0.3	1.5	-2.6	0.0	-1.8
Denmark	0.1	-1.0	6.1	-8.7	0.4	1.1
Germany	0.0	-0.1	-1.2	-1.3	0.4	-1.6
Estonia	-2.0	0.8	-1.4	-3.8	2.2	-2.9
Ireland**	27.0	-5.7	8.9	-9.0	6.0	-2.9
Greece	-2.3	0.3	-1.5	2.1	1.1	-2.2
Spain	-2.1	0.6	-1.2	0.2	-0.7	1.0
France	0.6	1.2	-0.8	0.5	-0.1	-0.5
Croatia	-3.0	4.0	1.8	-3.0	-2.2	4.3
Italy	-2.0	1.7	0.5	-0.9	0.3	0.0
Cyprus	2.1	0.5	-0.6	0.5	0.2	:
Latvia	-0.3	-1.2	0.6	-2.5	1.7	0.4
Lithuania	2.4	-2.3	4.3	-4.6	4.4	0.5
Luxembourg	-2.0	-1.0	-0.2	0.5	1.2	-2.8
Hungary	-2.8	1.9	-0.2	2.4	-2.5	1.3
Malta	-1.1	-1.8	-2.9	3.2	-1.9	1.0
Netherlands	-2.7	0.8	1.2	0.3	-2.1	-0.3
Austria	0.2	-1.2	-1.2	-0.8	1.9	-2.2
Poland	-1.0	0.1	0.5	-0.8	1.0	0.9
Portugal	-6.0	2.7	-0.2	0.8	-0.4	-3.0
Romania	-0.8	-1.9	-1.9	0.7	0.0	0.7
Slovenia	-7.6	8.1	0.8	-8.0	-1.4	4.1
Slovakia	-1.1	2.3	-1.1	-2.4	4.5	-1.7
Finland	-2.3	1.9	-2.9	0.3	1.6	-0.2
Sweden	1.7	-1.2	-5.9	5.4	1.2	-0.2
Norway	0.3	-3.1	0.4	2.9	-1.1	-8.6
Switzerland	-7.9	2.1	0.4	:	:	:

* 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*

	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23
Euro area						
Total industry	-0.1	-2.4	-1.0	-2.2	-5.1	-6.9
Intermediate goods	-6.1	-5.5	-6.3	-5.1	-5.2	-4.5
Energy	-8.1	-6.7	-7.3	-6.0	-5.8	-5.8
Capital goods	8.6	2.7	5.0	0.7	-7.0	-9.5
Durable consumer goods	-5.0	-6.6	-6.3	-6.9	-8.6	-8.1
Non-durable consumer goods	-0.8	-3.1	-0.2	-0.8	-1.8	-6.7
EU						
Total industry	-0.1	-2.0	-1.1	-2.4	-4.4	-6.1
Intermediate goods	-6.4	-6.1	-6.7	-5.6	-5.6	-5.0
Energy	-8.6	-8.0	-8.7	-7.7	-6.0	-5.5
Capital goods	9.1	3.6	5.2	1.2	-5.3	-8.1
Durable consumer goods	-6.4	-7.6	-7.4	-7.5	-8.5	-8.9
Non-durable consumer goods	0.9	-0.6	2.1	0.1	-0.4	-4.3

Source dataset: [sts_inpr_m](#)

Total industry	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23
Euro area	-0.1	-2.4	-1.0	-2.2	-5.1	-6.9
EU	-0.1	-2.0	-1.1	-2.4	-4.4	-6.1
Belgium	-4.1	-3.9	-5.0	-3.4	-3.9	-14.0
Bulgaria	-12.7	-11.3	-9.4	-11.6	-9.6	-11.5
Czechia	1.8	0.6	0.9	-2.9	-1.7	-5.0
Denmark	11.0	6.7	11.5	5.8	3.9	2.8
Germany	0.8	0.0	-1.4	-2.4	-2.1	-4.4
Estonia	-15.9	-14.1	-12.9	-9.5	-11.9	-12.5
Ireland	22.5	-15.9	6.3	-6.2	-27.5	-27.2
Greece	4.6	2.4	-3.0	-1.8	-0.2	2.1
Spain	-2.4	-0.7	-3.2	-2.0	-3.7	-1.0
France	1.5	2.7	0.5	2.7	-0.3	0.0
Croatia	-3.4	1.1	2.2	-0.7	-2.4	1.6
Italy	-7.4	-3.5	-0.7	-2.3	-4.2	-2.0
Cyprus	-0.2	1.0	0.4	1.2	2.9	:
Latvia	-6.5	-8.5	-5.1	-8.2	-4.9	-2.7
Lithuania	-7.0	1.9	4.7	-7.9	-6.4	-0.8
Luxembourg	-7.4	-7.1	-6.4	-6.6	-5.1	-9.7
Hungary	-6.3	-4.6	-5.5	-2.5	-6.1	-5.7
Malta	17.3	10.8	-3.8	1.9	-0.6	0.4
Netherlands	-12.2	-9.1	-6.8	-6.4	-7.0	-9.4
Austria	1.7	-0.6	-2.1	-0.5	-2.1	-3.6
Poland	-3.9	-2.9	-1.1	-2.3	-1.9	-0.9
Portugal	-7.0	-4.0	-3.6	-3.8	-4.6	-5.6
Romania	-4.4	-5.4	-6.3	-5.1	-5.7	-3.2
Slovenia	-8.3	-2.2	-2.3	-7.1	-12.8	-6.1
Slovakia	-1.4	-0.7	3.6	-5.3	4.7	-0.6
Finland	-3.5	0.7	-5.7	-2.6	-0.2	-1.9
Sweden	3.4	1.2	-7.4	-8.3	0.4	-1.5
Norway	-5.0	-11.1	-11.1	-1.5	-8.8	-20.0
Switzerland	-0.3	0.2	-2.5	:	:	:

* Calendar adjusted

: Data not available

Source dataset: [sts_inpr_m](#)

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

	09-22	10-22	11-22	12-22	01-23	02-23	03-23	04-23	05-23	06-23	07-23	08-23	09-23
Euro area	110.6	108.0	108.9	106.8	107.2	108.4	104.1	105.3	105.3	105.4	104.0	104.6	103.5
EU	113.6	111.0	111.8	110.6	110.5	111.7	107.9	108.7	108.7	108.8	107.5	108.1	107.1
Belgium	131.7	128.7	129.7	126.2	121.3	125.2	126.7	121.2	121.9	118.3	121.2	117.1	113.4
Bulgaria	125.3	122.3	123.0	122.7	119.6	118.8	116.2	112.9	114.6	115.0	113.7	114.6	111.5
Czechia	117.3	112.6	116.0	116.7	113.1	114.0	116.1	114.4	114.8	116.5	113.5	113.5	111.5
Denmark	134.3	128.7	131.3	148.9	135.9	141.5	142.1	142.2	140.8	149.4	136.4	136.9	138.4
Germany	96.4	95.2	96.3	94.3	95.7	97.5	95.4	95.4	95.3	94.2	93.0	93.4	91.9
Estonia	126.1	124.2	119.1	121.5	120.4	120.1	118.9	116.5	117.4	115.7	111.3	113.7	110.4
Ireland*	222.4	202.3	205.9	174.4	185.5	189.6	133.0	168.9	159.3	173.4	157.8	167.2	162.3
Greece	117.8	117.8	119.0	119.2	117.7	123.5	123.7	120.9	121.3	119.5	122.0	123.3	120.6
Spain	106.1	105.9	105.2	105.8	105.4	105.8	107.1	104.9	105.5	104.2	104.4	103.7	104.7
France	98.9	96.0	98.1	99.5	97.4	98.9	97.9	98.5	99.7	98.9	99.4	99.3	98.8
Croatia	111.3	110.5	109.0	109.1	110.0	110.4	111.3	108.0	112.3	114.3	110.9	108.5	113.2
Italy	104.5	103.3	103.1	104.3	103.6	103.5	102.9	100.8	102.5	103.0	102.1	102.4	102.4
Cyprus	130.7	129.9	133.1	132.3	131.7	133.6	130.5	133.3	134.0	133.2	133.9	134.2	:
Latvia	120.0	120.2	123.6	120.1	116.4	119.3	118.1	117.7	116.3	117.0	114.1	116.0	116.5
Lithuania	153.3	150.7	151.3	145.2	144.7	143.5	145.5	149.0	145.6	151.8	144.8	151.1	151.9
Luxembourg	96.5	93.0	93.7	91.0	88.5	93.9	90.9	89.1	88.2	88.0	88.4	89.5	87.0
Hungary	128.3	123.4	122.6	127.4	119.9	120.1	120.7	117.3	119.5	119.3	122.2	119.2	120.7
Malta	110.4	107.5	111.6	113.5	111.8	113.6	115.0	113.7	111.6	108.4	111.9	109.8	110.9
Netherlands	106.8	105.5	103.9	105.8	101.1	101.4	100.0	97.3	98.1	99.3	99.6	97.5	97.2
Austria	127.0	127.5	127.6	128.4	131.1	129.8	126.6	126.9	125.4	123.9	122.9	125.2	122.4
Poland	151.4	150.8	152.9	154.4	150.2	151.1	149.0	147.5	147.6	148.3	147.1	148.5	149.8
Portugal	98.9	97.1	100.6	103.9	101.5	99.6	99.5	93.5	96.0	95.8	96.6	96.2	93.3
Romania	108.1	107.6	106.2	104.5	106.9	107.0	107.1	106.2	104.2	102.2	102.9	102.9	103.6
Slovenia	131.5	124.0	130.7	128.7	130.0	127.2	129.8	120.0	129.7	130.7	120.2	118.5	123.4
Slovakia	110.8	109.8	108.7	108.7	107.9	109.9	112.2	111.0	113.5	112.3	109.6	114.5	112.5
Finland	120.0	117.1	115.9	119.6	119.5	116.4	119.6	116.9	119.1	115.6	115.9	117.7	117.5
Sweden	118.3	117.6	112.7	115.4	120.2	120.2	115.5	117.5	116.1	109.3	115.2	116.6	116.4
Norway	109.2	106.6	106.2	106.1	97.5	97.4	99.7	100.0	96.9	97.3	100.1	99.0	90.5
Switzerland	136.6	132.4	127.8	134.7	132.3	131.4	138.6	127.7	130.4	130.9	:	:	:

* 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)

	09-20	09-21	09-22	10-22	11-22	12-22	01-23	02-23	03-23	04-23	05-23	06-23	07-23	08-23	09-23
Euro area	103.9	110.9	117.9	116.6	116.9	100.1	105.8	105.7	110.3	104.4	103.6	108.4	104.6	86.7	109.8
EU	106.2	112.7	120.5	119.5	119.8	104.2	108.7	108.9	114.7	107.8	107.3	111.8	106.3	91.2	113.2
Belgium	115.4	135.9	137.6	136.8	131.4	123.5	118.2	121.6	136.8	117.3	120.1	125.6	113.8	107.6	118.4
Bulgaria	103.3	114.2	125.6	125.7	128.9	123.7	112.9	112.3	121.2	107.9	109.4	117.7	117.3	112.4	111.1
Czechia	115.4	110.9	121.1	119.8	126.6	108.7	109.0	110.5	126.0	113.7	116.9	123.2	101.4	104.0	115.0
Denmark	113.4	119.2	143.0	135.3	138.5	146.2	136.7	137.2	148.4	136.9	139.6	150.6	121.8	132.9	147.0
Germany	97.3	96.6	101.0	98.3	102.8	90.0	89.3	94.8	103.4	93.6	93.5	96.2	93.2	86.5	96.6
Estonia	123.3	141.1	130.4	132.9	123.7	116.2	115.6	113.7	126.8	116.7	122.6	116.2	99.8	111.7	114.1
Ireland	129.8	211.2	283.8	269.0	259.7	131.4	236.7	171.5	100.5	178.8	125.4	169.0	147.2	113.4	206.6
Greece	110.8	123.2	121.8	115.3	116.3	119.0	106.2	121.3	126.9	118.5	121.7	124.8	135.5	117.2	124.3
Spain	104.1	104.8	108.8	110.6	109.9	98.2	101.4	105.2	113.7	102.6	111.2	109.2	110.2	82.3	107.7
France	98.7	98.8	100.5	101.9	101.9	100.2	100.1	98.7	107.1	98.3	95.4	103.3	97.9	76.3	100.5
Croatia	107.8	110.7	113.2	117.7	111.9	105.2	100.0	107.4	118.8	107.8	114.8	116.8	117.3	94.6	115.0
Italy	105.7	111.1	110.4	112.0	107.9	91.6	97.6	106.1	113.8	99.8	110.0	107.2	112.4	69.2	108.2
Cyprus	138.3	139.6	137.8	132.1	130.9	131.0	121.6	126.9	128.8	128.8	136.8	141.2	156.7	119.5	:
Latvia	122.8	129.9	125.1	127.2	131.3	126.4	90.4	100.3	116.2	119.5	120.6	125.7	113.5	122.3	121.7
Lithuania	121.8	147.7	152.9	158.9	156.6	147.1	139.7	136.0	149.7	146.8	149.0	149.3	138.3	148.5	151.7
Luxembourg	96.4	97.9	99.0	98.3	95.8	84.4	86.4	92.2	100.6	90.7	87.9	89.9	87.4	77.7	89.4
Hungary	125.8	123.2	138.5	130.4	129.7	116.8	114.2	120.8	130.5	114.0	120.4	123.4	119.2	107.0	130.6
Malta	107.5	104.3	115.2	113.8	112.7	97.7	107.9	105.7	116.6	113.3	113.1	114.8	121.8	106.3	115.7
Netherlands	99.6	106.1	110.0	111.0	109.3	106.9	98.7	96.1	106.0	94.6	97.2	101.8	97.2	88.4	99.7
Austria	116.2	123.9	132.1	133.7	136.2	125.8	116.5	123.9	139.3	126.5	125.0	129.1	124.1	109.9	127.3
Poland	129.3	140.4	154.5	159.5	159.7	148.1	143.7	146.5	161.8	147.0	146.3	149.3	141.7	137.8	153.1
Portugal	105.8	101.0	100.9	98.4	103.0	94.5	102.6	99.1	103.2	92.6	100.5	98.9	101.0	81.7	95.2
Romania	112.9	108.7	109.5	112.1	111.5	98.3	102.9	102.9	113.6	102.2	109.1	103.3	103.7	93.3	106.0
Slovenia	128.1	135.3	136.8	129.7	136.4	117.0	125.3	122.9	144.7	117.2	135.9	138.3	119.8	99.7	128.5
Slovakia	117.4	110.1	110.9	114.5	119.6	101.4	104.7	110.8	123.8	105.1	116.4	120.2	94.6	107.6	110.2
Finland	110.8	118.0	123.8	121.3	118.7	133.5	115.0	108.7	127.6	117.3	119.5	115.7	99.8	112.4	121.5
Sweden	113.3	116.1	122.6	125.7	120.5	117.8	117.4	119.6	130.0	119.6	116.2	114.5	90.9	99.3	120.8
Norway	95.8	103.7	104.6	113.8	112.6	107.7	105.4	97.6	105.6	97.9	94.4	89.1	92.9	98.4	83.7
Switzerland	118.7	126.7	141.4	141.2	133.9	133.4	129.8	124.9	153.6	118.8	126.6	142.2	:	:	:

: Data not available

Source dataset: sts_inpr_m