



N°380 JANUARY 2022

# MONTHLY BULLETIN

AGENCE FRANCE TRÉSOR IS TASKED WITH MANAGING THE GOVERNMENT DEBT AND CASH POSITIONS UNDER THE MOST SECURE CONDITIONS IN THE INTEREST OF THE TAXPAYER.

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News at Agence France Trésor

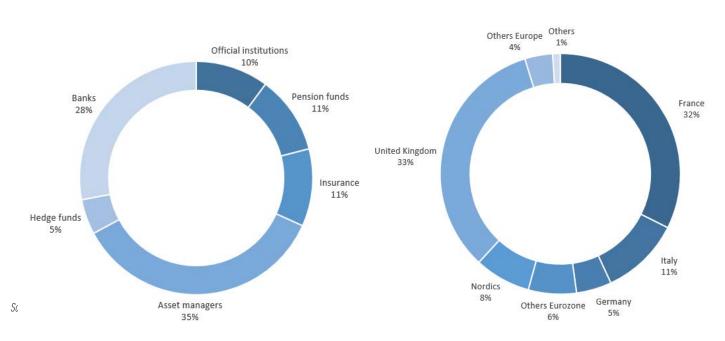
## LAUNCH OF THE NEW OAT€I 0.10% 25 JULY 2053 AT A RECORD REAL RATE OF ISSUE

As announced in the indicative State financing programme for 2022, on Tuesday the 25 January, AFT executed its first syndication of the year by launching the  $OAT \in IO.10\%$  25 July 2053. This operation thus renewed the longest point on the euro-denominated real yield curve, which had been occupied for six years by the  $OAT \in IO.10\%$  25 July 2047 launched on 28 September 2016 at a real rate of -0.262%.

The syndication met with investors' interest, resulting in a very strong total demand for this product category, reaching around €24bn, of which €3bn was served. The real yield at issue was set at -0.926%, which is the lowest real yield ever achieved by a syndicated launch of indexed OATs. The break-even inflation rate underlying this issue is 1.90%.

Close to 200 final investors took part in the transaction, which sets a record level for this type of syndication. Geographically, distribution is almost exclusively in Europe where the allocation reflects an order book from a very diversified and high-quality investor base, both geographically and in terms of counterparty types.

## Highly diverse allocation in terms of investor categories and geographical origins for the OAT0.10% 25 July 2053



The lead managers for this operation were BNP Paribas, Citi, Crédit Agricole CIB, J.PMorgan and Société Générale. All of the primary dealers were in the syndicate.

Each year, AFT issues around 10% of the State's financing program in the form of indexed bonds. This syndicated issue reaffirms France's status as an issuer of long term benchmark inflation-indexed bonds in the euro area. It is also further proof of investors' confidence in the French economy and France's creditworthiness.

## Economic news

## **GREENFLATION: THE IMPACT OF NET ZERO ON INFLATION**

By Yulia Zhestkova global economist and Daan Struyvenchief chief economist at Goldman Sachs

Energy supply challenges related to the climate transition, alongside the strength in energy demand, have contributed to higher inflation in both Europe and China. ECB President Lagarde pointed out recently that climate-related issues, including weaker-than-usual winds, have boosted gas prices as Europe had to resort to gas. China's decarbonisation policies also pushed Chinese coal prices to historic highs.

### **Modeling Net Zero**

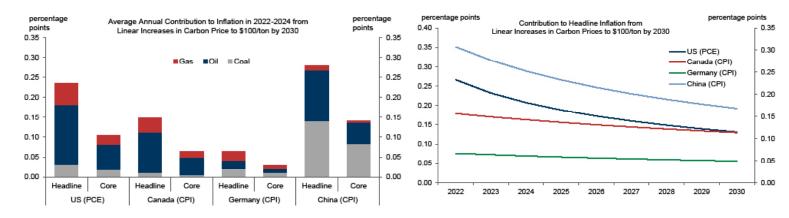
Based on expert estimates of what it will take to transition to carbon neutrality, we model the impact of the transition on inflation through the impact of a carbon tax path allowing to reach net zero in four large economies—the US, China, Germany, and Canada—in two steps.

First, we estimate the impact of a carbon tax that rises linearly to \$100/ton (in 2021 dollars by 2030 on prices of oil, natural gas, and coal. This trajectory is very similar to the carbon price required to achieve net zero by 2050 in the Global Climate Change Analysis Model from the Network for Greening the Financial System (NGFS). Second, we estimate the impact of higher oil, natural gas, and coal prices on consumer price inflation based on the contribution of these commodities to consumer prices. We estimate the commodity contribution using the energy intensity of industries' input costs and industry output weights in final personal consumption from input-output tables. We again assume a full pass through of the carbon tax, in this case from commodity prices to consumer prices.

#### **Moderate Inflation Effects**

We make four findings. First, we estimate a boost from the carbon tax-driven transition to the average US headline PCE inflation rate in the first three years of the transition of nearly 25bp annually (See chart 1). Second, the estimated boost to average core PCE inflation excluding food and energy in the first three years is smaller at 10bp. Third, the annual boost to headline inflation is larger in China than in the US at 30bp due to its greater reliance on coal. The headline inflation boost is smaller in Canada (15bp), in part because it already has a carbon tax. The boost is the smallest in Germany (just above 5bp) because it also already has a carbon tax, it is relatively energy-efficient, and gas prices are already very high. Fourth, the positive impact on inflation decreases over time given our assumption of a linear increase in the carbon tax (See chart 2). In other words, the inflationary costs of decarbonisation are front loaded. The annual average boosts to consumer inflation over this decade are relatively moderate in the four economies, especially compared to the 2021 upside surprises in inflation. We estimate cumulative boosts to the 2030 price level of 0.5% in Germany, 1.2% in Canada, 1.7% in the US, and 2.0% in China.

<u>Chart 1:</u> <u>Chart 2:</u>



### Two-Sided Risks

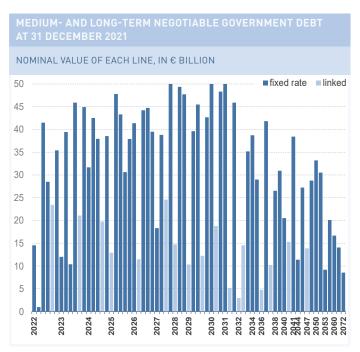
The risks around our estimates are two-sided.

Five factors could contribute to larger inflation effects from the transition than we estimate. First, other less cost-effective mechanisms disincentivizing fossil fuels could substitute for carbon pricing (which seems unlikely in the US for now, at least at the federal level), but at the cost of a somewhat larger inflation impact. Second, the inflation boost would be larger if the transition is delayed. Finally, the inflation boost may also be larger if wages or inflation expectations rise, if fiscal stimulus boosts aggregate demand, or if firm-level adjustment costs to new energy sources further boost inflation.

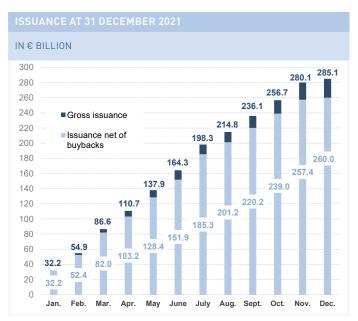
Two factors could contribute to smaller inflation effects. First, if central banks do not accommodate the carbon tax and consumers reduce their demand for other goods due to tighter financial conditions or the negative income effect, higher energy prices may be compensated by lower prices in other categories. Second, the inflation boost may be smaller if producers and consumers rapidly switch to green alternatives, for instance in response to green subsidies.

INDICATIVE AUCTION	SCHEDULE								
		Short-term					Medium-term	Long-term	Index-linked
February 2022	auction date	7	14	21	28	1	17	3	17
	settlement date	9	16	23	2/03	1	21	7	21
March 2022	auction date	7	14	21	28	1	17	3	17
	settlement date	9	16	23	30	/	21	7	21

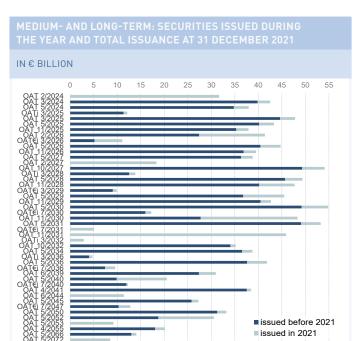
Source: Agence France Trésor



Source: Agence France Trésor



Source: Agence France Trésor



Source: Agence France Trésor

## MEDIUM- AND LONG-TERM: PROVISIONAL MATURITY SCHEDULE AT 31 DECEMBER 2021

## IN € BILLION

Month	Coupon	Redemption
Jan-22		
Feb-22		14.5
Mar-22	0.1	
Apr-22	10.5	42.4
May-22	8.9	28.5
Jun-22	0.6	
Jul-22	2.5	23.5
Aug-22		
Sep-22		
Oct-22	9.1	35.4
Nov-22	1.5	
Dec-22		

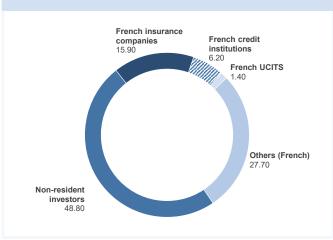
Source: Agence France Trésor



## AS A % OF NEGOTIABLE DEBT OUTSTANDING EXPRESSED IN MARKET VALUE 100 95 90 85 80 75 70 65 50 45 40 35 30 25 20 15 58.3 54.6 52.7 53.6 51.9 51.3 49.5 48.8 49.8 12/2017 12/2016 03/2021\* 06/2021\* 06/2020\* (\*) figures quarterly revised



## STRUCTURE IN % EXPRESSED IN MARKET VALUE



Source: Banque de France

(\*\*) figures annually revised
Source: Banque de France

#### **NEGOTIABLE GOVERNMENT DEBT AT 31 DECEMBER 2021**

## IN EUROS

Total medium- and long-term debt	1,989,742,254,0
Total stripping activity	58,572,980,5
Average maturity	9 years and 20 da
Total short-term debt	155,379,000,0
Average maturity	110 da
Total outstanding	2,145,121,254,0

Source: Agence France Trésor

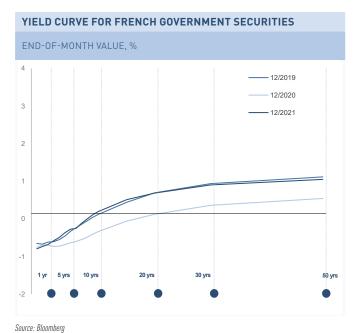
#### **NEGOTIABLE GOVERNMENT DEBT SINCE 2018 AT 31 DECEMBER 2021**

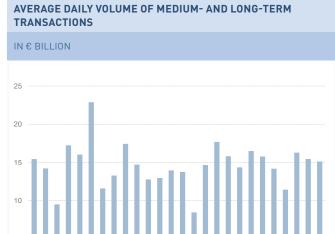
## IN € BILLION

	End <b>2018</b>	End <b>2019</b>	End <b>2020</b>	End Nov. <b>2021</b>	End Dec. 2021
Negotiable government debt outstanding	1,756	1,823	2,001	2,151	2,145
of which index-linked securities	220	226	220	235	236
Medium- and long-term	1,644	1,716	1,839	1,985	1,990
Short-term	113	107	162	166	155
Average maturity of the negotiable debt	-	-			•
	7 years	8 years	8 years	8 years	8 years
	336 days	63 days	73 days	160 days	153 days

Source: Agence France Trésor







Source: reporting by primary dealers in government securities, excluding flows arising from the Eurosystem public sector purchase programme

11/19 00/120 00/220 00/220 00/220 00/220 00/220 11/220 01/221 01/220 01/221 01/220 01/221 01/221 01/221 01/221 01/221 01/221 01/221 01/221

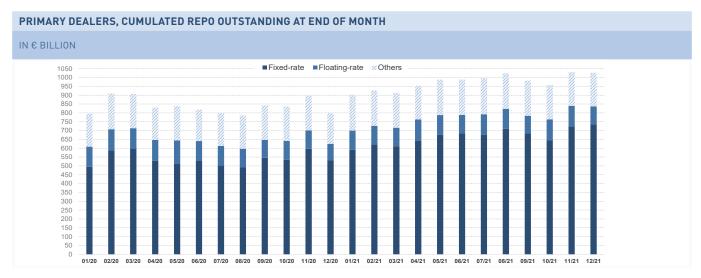
TOTAL STRIPPING AND RECONSTITUTION

IN 6 BILLION

5
4
66
60
3
Feconstitution
Stripping
Stripping
Strips outstanding (right-hand scale)

0

Source: Euroclear



Source: reporting by primary dealers in government securities



## **SHORT-TERM DEBT AT 30 DECEMBER 2021**

10111 0 1	** * **	0 ( ) 11 (6)
ISIN Code	Maturity	Outstanding(€)
FR0126893520	BTF 5 January 2022	9,811,000,000
FR0126893538	BTF 12 January 2022	5,589,000,000
FR0126893603	BTF 19 January 2022	6,550,000,000
FR0126461823	BTF 26 January 2022	7,193,000,000
FR0126893611	BTF 2 February 2022	6,903,000,000
FR0126893546	BTF 9 February 2022	7,771,000,000
FR0126893629	BTF 16 February 2022	6,898,000,000
FR0126461831	BTF 23 February 2022	7,126,000,000
FR0126893637	BTF 2 March 2022	5,293,000,000
FR0126893595	BTF 9 March 2022	8,201,000,000
FR0126893645	BTF 16 March 2022	2,348,000,000
FR0126461849	BTF 23 March 2022	8,522,000,000
FR0126893660	BTF 6 April 2022	8,215,000,000
FR0126750787	BTF 21 April 2022	8,328,000,000
FR0126893678	BTF 4 May 2022	5,786,000,000
FR0126750795	BTF 18 May 2022	9,057,000,000
FR0126750803	BTF 15 June 2022	6,988,000,000
FR0126893561	BTF 13 July 2022	6,455,000,000
FR0126893579	BTF 10 August 2022	6,390,000,000
FR0126893587	BTF 7 September 2022	7,122,000,000
FR0126893694	BTF 5 October 2022	6,551,000,000
FR0126893702	BTF 2 November 2022	6,031,000,000
FR0126893710	BTF 30 November 2022	2,251,000,000

## MEDIUM- AND LONG-TERM DEBT (MATURING 2022-2024) AT 31 DECEMBER 2021

ISIN Code	Bond	Outstanding(€)	Ind. Coeff.	Face value(€)	Stripped(€)	CAC*
	Maturity 2022	144,322,325,560				
FR0013398583	OAT 0.00% 25 February 2022	14,541,000,000			0	×
FR0000571044	OAT 8.25% 25 April 2022	960,939,990			0	
FR0011196856	OAT 3.00% 25 April 2022	41,478,000,000			118,509,300	
FR0013219177	OAT 0.00% 25 May 2022	28,502,000,000			0	×
FR0010899765	OAT€i 1.10% 25 July 2022	23,420,385,570 (1)	1.17969	19,853,000,000	0	
FR0011337880	OAT 2.25% 25 October 2022	35,420,000,000			0	
	Maturity 2023	173,788,600,703				
FR0013479102	OAT 0.00% 25 February 2023	12,027,000,000			0	×
FR0013283686	OAT 0.00% 25 March 2023	39,461,500,000			0	×
FR0000571085	OAT 8.50% 25 April 2023	10,395,695,903			5,331,365,200	
FR0011486067	OAT 1.75% 25 May 2023	45,891,000,000			0	×
FR0010585901	OATi 2.10% 25 July 2023	21,095,404,800 (1)	1.16885	18,048,000,000	0	
FR0010466938	OAT 4.25% 25 October 2023	44,918,000,000			451,985,000	
	Maturity 2024	170,488,477,680				
FR0014001N46	OAT 0.00% 25 February 2024	31,676,000,000			0	×
FR0013344751	OAT 0.00% 25 March 2024	42,533,000,000			0	×
FR0011619436	OAT 2.25% 25 May 2024	37,948,000,000			0	×
FR0011427848	OAT€i 0.25% 25 July 2024	19,795,477,680 (1)	1.10472	17,919,000,000	0	x
FR0011962398	OAT 1.75% 25 November 2024	38,536,000,000			42,000,000	x

<sup>(1)</sup> face value x indexation coefficient (face value if coefficient < 1)

<sup>\*</sup> Like all euro area bonds, the bonds issued after 1 March 2013 have collective action clauses [CACs], which means that they are not fungible with bonds issued prior to this date.



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## MEDIUM- AND LONG-TERM DEBT (MATURING IN 2025 AND BEYOND) AT 31 DECEMBER 2021

SIN Code	Bond	Outstanding(€)	Ind. Coeff.	Face value(€)	Stripped(€)	CAC*
	Maturity 2025	172,652,753,318				
FR0012558310	OATi 0.10% 1 March 2025	12,931,825,200 (1)	1.06540	12,138,000,000	0	×
FR0013415627	OAT 0.00% 25 March 2025	47,814,000,000			0	×
FR0012517027	OAT 0.50% 25 May 2025	43,331,000,000			0	×
FR0000571150	OAT 6.00% 25 October 2025	30,653,928,118			2,813,064,400	
FR0012938116	OAT 1.00% 25 November 2025	37,922,000,000			0	×
	Maturity 2026	181,356,826,550			-	
FR0013508470	OAT 0.00% 25 February 2026	41,396,000,000			0	×
FR0013519253	OAT€i 0.10% 1 March 2026	11,488,826,550 (1)	1.03643	11,085,000,000	0	×
FR0010916924			1.03043	11,003,000,000	0	^
	OAT 3.50% 25 April 2026	44,202,000,000				
FR0013131877	OAT 0.50% 25 May 2026	44,743,000,000			0	×
FR0013200813	OAT 0.25% 25 November 2026	39,527,000,000			0	×
	Maturity 2027	135,844,346,400				
FR0014003513	OAT 0.00% 25 February 2027	18,332,000,000			0	×
FR0013250560	OAT 1.00% 25 May 2027	38,814,000,000			0	×
FR0011008705	OAT€i 1.85% 25 July 2027	24,599,346,400 (1)	1.16254	21,160,000,000	0	
FR0011317783	OAT 2.75% 25 October 2027	54,099,000,000			61,743,600	
	Maturity 2028	111,857,545,897				
FR0013238268	OATi 0.10% 1 March 2028	14,729,148,240 (1)	1.06363	13,848,000,000	0	×
FR0000571226	OAT zero coupon 28 March 2028	31,397,657 (2)		46,232,603	_	
FR0013286192	OAT 0.75% 25 May 2028	49,380,000,000			0	×
FR0013341682	OAT 0.75% 25 November 2028	47,717,000,000			0	×
	Maturity 2029	150,408,175,768				
FR0013410552	OAT€i 0.10% 1 March 2029	10,359,090,930 (1)	1.04669	9,897,000,000	0	×
FR0000571218	OAT 5.50% 25 April 2029	39,618,880,458	1.04000	3,037,000,000	2,281,946,100	
	•					×
FR0013407236	OAT 0.50% 25 May 2029	45,491,000,000	4 00050	0.405.444.000	0	*
FR0000186413	OATi 3.40% 25 July 2029	12,239,204,380 (1)	1.33250	9,185,144,000	0	
FR0013451507	OAT 0.00% 25 November 2029	42,700,000,000			0	×
	Maturity 2030	121,957,012,960				
FR0011883966	OAT 2.50% 25 May 2030	54,855,000,000			0	×
FR0011982776	OAT€i 0.70% 25 July 2030	18,792,012,960 (1)	1.09053	17,232,000,000	0	×
FR0013516549	OAT 0.00% 25 November 2030	48,310,000,000			0	×
	Maturity 2031	104,354,238,040				
FR0012993103	OAT 1.50% 25 May 2031	53,267,000,000			58,900,000	×
FR0014001N38	OAT€i 0.10% 25 July 2031	5,191,238,040 (1)	1.03804	5,001,000,000	0	×
FR0014002WK3	OAT 0.00% 25 November 2031	45,896,000,000			0	×
	Maturity in 2032 and beyond	522,711,951,150				
FR0014003N51	OATi 0.10% 1 March 2032	2,950,184,640 (1)	1.02224	2,886,000,000	0	×
FR0000188799	OAT€i 3.15% 25 July 2032	14,542,652,800 (1)	1.34455	10,816,000,000	0	
FR0000187635	OAT 5.75% 25 October 2032	35,192,322,600		. 0,0 . 0,000,000	10,590,157,400	
FR0013313582	OAT 1.25% 25 May 2034	38,746,000,000			0	×
	•				3,321,737,000	^
FR0010070060	OAT 4.75% 25 April 2035	29,004,000,000	4.04004	4 740 000 000		
FR0013524014	OATI 0.10% 1 March 2036	4,800,950,100 (1)	1.01931	4,710,000,000	0	×
FR0013154044	OAT 1.25% 25 May 2036	41,823,000,000			100,000	×
FR0013327491	OAT€i 0.10% 25 July 2036	10,239,567,990 (1)	1.06963	9,573,000,000	0	×
FR0010371401	OAT 4.00% 25 October 2038	26,534,000,000			4,659,641,400	
FR0013234333	OAT 1.75% 25 June 2039	30,941,000,000			0	×
FR0013515806	OAT 0.50% 25 May 2040	20,536,000,000			0	×
FR0010447367	OAT€i 1.80% 25 July 2040	15,294,494,400 (1)	1.24548	12,280,000,000	0	
FR0010773192	OAT 4.50% 25 April 2041	38,446,000,000			5,469,099,000	
FR0014002JM6	OAT 0.50% 25 June 2044	11,402,000,000			0	×
FR0011461037	OAT 3.25% 25 May 2045	27,260,000,000			706,510,000	×
FR0013209871	OAT€i 0.10% 25 July 2047	13,891,778,620 (1)	1.08538	12,799,000,000	0	×
FR0013257524	OAT 2.00% 25 May 2048	28,759,000,000	1.00000	12,100,000,000	586,300,000	×
FR0013404969	OAT 0.75% 25 May 2050	33,195,000,000			191,900,000	×
FR0013480613	OAT 0.75% 25 May 2052	30,529,000,000			678,100,000	×
FR0014004J31	OAT 0.75% 25 May 2053	9,199,000,000			10,000,000	×
FR0010171975	OAT 4.00% 25 April 2055	20,118,000,000			11,124,918,000	
FR0010870956	OAT 4.00% 25 April 2060	16,696,000,000			8,833,404,100	
					4 044 000 000	
FR0013154028	OAT 1.75% 25 May 2066	14,075,000,000			1,211,200,000	×

(1) Face value x indexation coefficient (face value if coefficient < 1)

(2) Revised on 28 March 2021; not open to subscription

\* Like all euro area bonds, the bonds issued after 1 March 2013 have collective action clauses (CACs), which means that they are not fungible with bonds issued prior to this date.

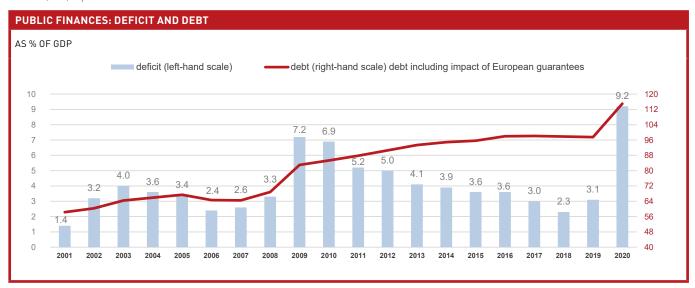


MOST RECENT ECONOMIC INDICAT	ORS	
Industrial output, year-on-year	-0.2%	Nov. 2021
Household consumption*, year-on-year	-5.9%	Dec. 2021
Unemployment rate (ILO)	8.1%	Q3-2021
Consumer prices, year-on-year		
all items	2.8%	Dec. 2021
all items excluding tobacco	2.8%	Dec. 2021
Trade balance, fob-fob, sa (€bn)	-€9.7bn	Nov. 2021
	-€7.7bn	Oct. 2021
Current account balance, sa (€bn)	-€3.6bn	Nov. 2021
" "	-€2.5bn	Oct. 2021
10-year constant maturity rate (TEC10)	0.32%	31 Jan. 2022
3-month interest rate (Euribor)	-0.55%	31 Jan. 2022
EUR / USD	1.12	31 Jan. 2022
EUR / JPY	129.03	31 Jan. 2022

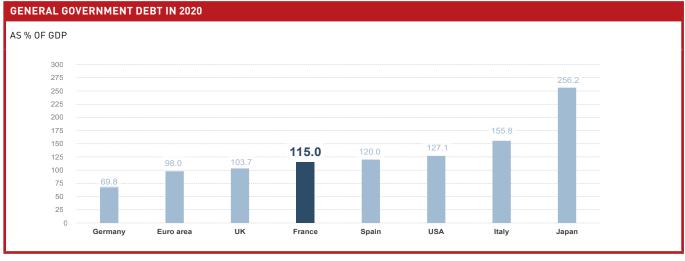
			end	of November	level
	2019	2020	2019	2020	2021
General budget balance	-96.91	-172.68	-109.72	-171.38	-175.1
Revenue	301.07	282.69	256.39	238.95	272.13
Expenditure	397.98	455.37	366.11	410.33	447.26
Balance of special Treasury accounts	4.06	-5.42	-4.21	-5.46	-5.89
General budget outturn	-92.69	-178.10	-113.93	-176.85	-181.02

Source: Ministry of the Economy, Finance and the Recovery

Sources: Insee, Minefi, Banque de France



Source: Insee



Sources: Eurostat, IMF, Insee



 $<sup>^*\,\</sup>textit{manufactured products}$ 

FEBRUARY 2022

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Industrial production:
December index

8

Balance of payments in December

8

Foreign trade by value in December

15

Net international reserves in January

18

Consumer prices: January index (final) 23

Monthly business survey (goodsproducing industries) in February

23

Consumer confidence survey: February survey 23

Inflation (HICP): January index 25

Quarterly national accounts: final results Q4-2021 25

Industrial producer and import price: January index 25

Consumer prices: February index (preliminary results) 25

Household consumption expenditure on goods in January

MARCH 2022

Industrial production: January index

14

Balance of payments in January

14

Foreign trade by value in January

15

Net international reserves in February

15

Consumer prices: Fabruaryindex (final) 17

Inflation (HICP): February index

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Monthly business survey (goodsproducing industries) in March 29

Consumer confidence survey:

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Consumer prices: March index (preliminary results) 31

Household consumption expenditure on goods in February 31

Industrial producer and import price: February index 31

Debt of the general government according to Maastricht - Q1 2022

Sources: Insee, Eurostat

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