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GLOBAL ECONOMICS

SCOTIABANK'S FORECAST TABLES

December 8, 2022

Contributors

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Outlook Evolving Largely as Expected

- There are few changes to the outlook relative to our last publication. Most of the changes reflect the fact that incoming data for industrialized countries has been somewhat more positive than expected in recent weeks, leading to minor upward revisions to 2022 forecasts. In some cases, growth dynamics imply that some of this strength has led to small increases to 2023 forecasts. The general narrative remains the same as earlier <u>articulated</u>, the global economy is expected to slow rapidly owing to the combined impacts of still-elevated commodity prices for commodity importers, the deterioration in purchasing power from higher inflation, the policy response to lower inflation, the challenges faced in China and of course remaining uncertainties from Russia's war on Ukraine.
- On the inflation front, recent data in Canada and the US suggest the expected slowing is underway, increasing confidence that central banks in those countries are near terminal rates. In Canada, the Bank of Canada is signalling a pause as it waits to assess the impact of its policy actions on inflation and growth. This is in line with our previous forecast, and we continue to expect that the BoC's next move will be a cut late in 2023 given the expected slowing in both inflation and growth. A similar dynamic is forecast for the US, though we continue to expect that the Fed will lift rates to 5% early next year before eventually beginning rate cuts late in 2023. A series of additional cuts are expected in 2024.

For more details on our forecast narrative, please refer to our October forecast.

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International													
	2010–19	2020	2021	2022f	2023f	2024f	2010–19	2020	2021	2022f	2023f	2024f	
	Real GDP						Consumer Prices						
		(ar	nnual %	change)				(annual	% change	, unless n	oted)		
World (based on purchasing power parity)	3.7	-3.0	6.4	3.1	2.1	2.6							
Canada	2.3	-5.1	5.0	3.6	0.8	1.5	1.6	0.7	3.4	6.8	4.1	1.9	
United States	2.3	-2.8	5.9	1.9	0.6	1.5	1.8	1.3	4.7	8.1	5.0	2.6	
Mexico	2.7	-8.2	4.8	2.8	0.8	1.9	4.0	3.4	5.7	8.0	6.3	4.2	
United Kingdom	2.0	-11.0	7.5	4.3	-0.9	1.2	2.2	0.9	2.6	9.0	6.9	3.0	
Eurozone	1.4	-6.2	5.5	3.3	-0.5	1.5	1.4	0.3	2.6	8.5	6.6	3.0	
Germany	2.0	-4.1	2.7	1.7	-0.9	1.6	1.4	0.4	3.2	8.8	7.5	3.2	
France	1.4	-7.9	7.2	2.5	-0.1	1.4	1.3	0.5	2.1	6.0	5.2	3.0	
China	7.7	2.3	8.1	3.2	4.4	4.5	2.7	0.2	0.9	2.2	2.2	1.9	
India	7.0	-7.1	8.7	6.8	6.1	6.8	6.8	4.6	5.5	6.9	5.1	4.4	
Japan	1.2	-4.7	1.7	1.7	1.6	1.3	0.6	-1.2	-0.2	2.0	1.4	1.0	
South Korea	3.3	-0.9	4.1	2.6	2.0	2.7	1.7	0.5	2.5	5.5	3.8	2.3	
Australia	2.6	-2.3	4.9	3.8	1.9	1.8	2.1	0.9	2.8	6.5	4.8	2.9	
Thailand	3.6	-6.1	1.5	2.8	3.7	3.6	1.5	-0.3	1.2	6.3	2.8	1.5	
Brazil*	1.4	-3.3	5.2	3.0	0.8	1.7	5.8	3.2	8.3	9.1	5.6	4.2	
Colombia	3.7	-7.0	11.0	8.0	2.0	3.0	3.7	2.5	3.5	10.1	8.9	4.6	
Peru	4.5	-11.0	13.6	2.8	2.4	2.2	2.8	1.8	4.0	7.8	6.4	3.3	
Chile	3.3	-6.0	12.0	2.7	-1.7	2.8	3.0	3.1	4.5	11.7	7.1	3.2	
Commodities													
(annual average)													
WTI Oil (USD/bbl)	74	39	68	98	94	75							
Brent Oil (USD/bbl)	82	43	70	104	100	80							
WCS - WTI Discount (USD/bbl)	-18	-12	-13	-17	-19	-16							
Nymex Natural Gas (USD/mmbtu)	3.39	2.02	3.84	6.69	5.00	4.25							
Copper (USD/lb)	3.10	2.80	4.23	3.95	3.50	4.00							
Zinc (USD/lb)	1.02	1.03	1.36	1.58	1.40	1.40							
Nickel (USD/lb)	7.00	6.25	8.37	11.21	9.25	9.00							
Iron Ore (USD/tonne)	101	109	160	120	90	90							
Metallurgical Coal (USD/tonne)	179	127	204	360	200	180							
Gold, (USD/oz)	1,342	1,771	1,799	1,826	1,800	1,600							
Silver, (USD/oz)	21.64	20.48	25.15	23.00	24.00	23.00							
Sources: Scotiabank Economics, Statistics Canada, BEA *Consumer Prices: average of quarterly y/y% change	A, BLS, IMF, Blo	omberg.											

*Consumer Prices: average of quarterly y/y% change

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North America															
	2010–19	2020	2021	2022f	2023f	2024f	2010–19	2020	2021	2022f	2023f	2024f			
	Canada								United S	states					
	(annual % change, unless noted)							(annual % change, unless noted)							
Real GDP	2.3	-5.1	5.0	3.6	0.8	1.5	2.3	-2.8	5.9	1.9	0.6	1.5			
Consumer spending	2.5	-6.1	5.0	4.7	1.3	1.7	2.2	-3.0	8.3	2.7	0.3	1.4			
Residential investment	2.5	5.0	14.9	-9.6	-7.4	8.7	4.5	7.2	10.7	-9.4	-10.7	3.3			
Business investment*	3.0	-9.8	4.2	7.4	-4.6	10.4	5.1	-4.9	6.4	3.6	0.4	0.9			
Government	1.1	1.9	5.5	1.2	1.4	1.6	0.1	2.6	0.6	-0.9	0.4	0.8			
Exports	3.6	-8.9	1.4	3.0	5.3	0.2	3.9	-13.2	6.1	8.3	3.3	2.6			
Imports	3.7	-9.3	7.8	7.6	-1.0	3.0	4.3	-9.0	14.1	8.3	-0.8	2.3			
Inventories, contribution to annual GDP growth	0.1	-1.8	1.0	2.2	-1.2	-0.7	0.2	-0.7	0.2	0.6	-0.4	0.1			
Nominal GDP	4.0	-4.5	13.6	11.4	3.4	3.2	4.0	-1.5	10.7	9.2	5.1	3.2			
GDP deflator	1.7	0.6	8.2	7.6	2.6	1.7	1.7	1.3	4.5	7.1	4.5	1.7			
Consumer price index (CPI)	1.6	0.7	3.4	6.8	4.1	1.9	1.8	1.3	4.7	8.1	5.0	2.6			
Core inflation rate**	1.7	1.9	2.7	4.7	3.2	2.0	1.6	1.3	3.5	5.0	3.5	2.5			
Pre-tax corporate profits	6.3	-1.4	35.8	12.7	-0.7	3.7	5.9	-5.9	22.6	7.2	3.7	1.6			
Employment	1.3	-5.1	4.8	3.6	0.9	1.3	1.2	-5.8	2.8	4.0	0.9	0.4			
Unemployment rate (%)	6.9	9.5	7.4	5.3	5.8	6.3	6.2	8.1	5.4	3.7	4.2	4.8			
Current account balance (CAD, USD bn)	-56.9	-47.6	-6.7	-9.9	16.7	-18.7	-407	-620	-846	-893	-727	-732			
Merchandise trade balance (CAD, USD bn)	-13.6	-40.3	4.7	29.8	65.0	44.6	-763	-914	-1090	-1170	-1054	-1087			
Federal budget balance (FY, CAD, USD bn) ***	-18.7	-327.7	-90.2	-36.4	-30.6	-25.4	-829	-3,132	-2,775	-1,036	-1,016	-1,134			
percent of GDP	-1.0	-14.8	-3.6	-1.3	-1.1	-0.9	-4.8	-14.9	-11.9	-4.1	-3.8	-4.1			
Housing starts (000s, mn)	201	218	271	258	202	194	1.31	1.40	1.61	1.56	1.37	1.41			
Motor vehicle sales (000s, mn)	1,816	1,566	1,668	1,532	1,698	1,864	15.7	14.5	14.9	13.8	15.4	16.8			
Industrial production	2.4	-8.2	4.5	3.9	1.0	1.6	1.7	-7.0	5.0	4.2	2.0	2.0			
			Mexi	со											
(annual % change)															
Real GDP	2.7	-8.2	4.8	2.8	0.8	1.9									
Consumer price index (year-end)	4.0	3.4	5.7	8.0	6.3	4.2									
Unemployment rate (%)	4.4	4.4	4.1	3.5	3.9	3.7									

Sources: Scotiabank Economics, Statistics Canada, CMHC, BEA, BLS, Bloomberg. *For Canada it includes capital expenditures by businesses and non-profit institutions.

** US: core PCE deflator; Canada: average of 2 core measures published by the BoC. *** In order to align with US reporting, as of the August 2020 issue of Scotiabank's

Forecast Tables, Canadian Federal and Provincial Budget Balances for FY2020/21 are noted in calendar year 2020, FY2021/22 in calendar year 2021.

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	2021	2022					2023			2024				
Canada	Q4	Q1	Q2	Q3	Q4f	Q1f	Q2f	Q3f	Q4f	Q1f	Q2f	Q3f	Q4	
Real GDP (q/q ann. % change)	6.9	2.8	3.2	2.9	1.0	-0.2	-0.1	-0.1	1.5	1.6	2.2	2.2	2	
Real GDP (y/y % change)	3.9	3.2	4.7	3.9	2.5	1.7	0.9	0.2	0.3	0.7	1.3	1.8	2.	
Consumer prices (y/y % change)	4.7	5.8	7.5	7.2	6.8	5.3	4.2	3.8	2.9	2.3	1.8	1.7	1	
Average of new core CPIs (y/y % change)*	3.3	4.0	5.0	5.0	4.8	4.0	3.4	2.9	2.5	2.2	2.0	1.9	1	
CPIXFET (y/y % change)**	3.2	4.0	5.1	5.4	5.1	4.3	3.7	3.3	2.8	2.5	2.2	2.1	1.	
Unemployment Rate (%)	6.3	5.8	5.1	5.2	5.2	5.4	5.7	6.0	6.1	6.2	6.3	6.3	6	
United States														
Real GDP (q/q ann. % change)	7.0	-1.6	-0.6	2.9	1.2	-0.4	-0.3	1.0	1.2	1.6	1.8	2.0	2.	
Real GDP (y/y % change)	5.7	3.7	1.8	1.9	0.5	0.8	0.8	0.4	0.4	0.9	1.4	1.7	1.	
Consumer prices (y/y % change)	6.7	8.0	8.6	8.3	7.7	6.5	5.3	4.5	3.8	3.2	2.6	2.3	2.	
Total PCE deflator (y/y % change)	5.7	6.4	6.6	6.3	5.9	5.1	4.2	3.7	3.2	2.7	2.2	2.0	2.	
Core PCE deflator (y/y % change)	4.7	5.3	5.0	4.9	4.9	4.3	3.7	3.2	3.0	2.8	2.6	2.4	2	
Unemployment Rate (%)	4.2	3.8	3.6	3.6	3.7	3.9	4.1	4.3	4.5	4.6	4.7	4.8	4	

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2021Q4AmericasBank of Canada0.25US Federal Reserve (upper bound)0.25Bank of Mexico5.50Central Bank of Brazil9.25Bank of the Republic of Colombia3.00Central Reserve Bank of Peru2.50Central Bank of Chile4.00EuropeEuropean Central Bank MRO Rate0.00European Central Bank Deposit Rate-0.50Bank of England0.25Asia/OceaniaReserve Bank of Australia0.10Bank of Japan-0.10People's Bank of India4.00Bank of Korea1.00Bank of Thailand0.50Currencies and Interest RatesAmericasCanadian dollar (USDCAD)1.26Canadian dollar (CADUSD)0.79	Q1 0.50 0.50 6.50 11.75 5.00 4.00 7.00 0.00 -0.50 0.75 0.10 -0.10 3.70 4.00	2022 Q2 1.50 1.75 7.75 13.25 7.50 5.50 9.00 0.00 -0.50 1.25 0.85	2 Q3 3.25 3.25 9.25 13.75 10.00 6.75 10.75 1.25 0.75 2.25	Q4f 4.25 4.50 10.50 13.75 12.00 7.50 11.25 2.50	Q1f (%, end 4.25 5.00 10.75 13.50 12.50 7.50 11.00	2023 Q2f of period) 4.25 5.00 10.75 13.25 12.00 7.50 8.00	Q3f 4.25 5.00 10.75 12.50 11.00 7.50	Q4f 4.00 4.75 10.25 11.75 10.00 7.25	Q1f 3.50 4.25 9.75 10.50 9.00 7.00	2024 Q2f 3.00 3.75 9.25 9.50 8.50	4 Q3f 3.00 3.25 8.50 9.00 7.00	Q4f 3.00 3.00 7.50 8.50
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European Central Bank Deposit Rate-0.50Bank of England0.25Asia/Oceania0.10Reserve Bank of Australia0.10Bank of Japan-0.10People's Bank of China3.80Reserve Bank of India4.00Bank of Korea1.00Bank of Thailand0.50Currencies and Interest RatesAmericas1.26Canadian dollar (USDCAD)1.26Canadian dollar (CADUSD)0.79	-0.50 0.75 0.10 -0.10 3.70	-0.50 1.25	0.75									
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AmericasCanadian dollar (USDCAD)1.26Canadian dollar (CADUSD)0.79	4.00 1.25 0.50	-0.10 3.70 4.90 1.75 0.50	2.35 -0.10 3.65 5.90 2.50 1.00	3.10 0.00 4.30 6.25 3.25 1.30	3.45 0.00 4.30 6.40 3.50 1.60	3.55 0.00 4.30 6.45 3.55 1.75	3.55 0.00 4.30 6.40 3.50 1.85	3.50 0.00 4.30 6.30 3.35 1.85	3.30 0.00 4.25 6.15 3.25 1.90	3.15 0.00 4.25 6.10 3.00 1.85	3.00 0.00 4.10 6.05 2.75 1.80	2.85 0.00 4.00 6.00 2.50 1.75
Canadian dollar (USDCAD) 1.26 Canadian dollar (CADUSD) 0.79					<i>(</i>)	с : n			Í			
Canadian dollar (CADUSD) 0.79		4.20	4.20	4.25		f period)	400	100	1 1 2 7	4.07	4.05	4.95
Mexican peso (USDMXN) 20.53	1.25 0.80 19.87	1.29 0.78 20.12	1.38 0.72 20.14	1.35 0.74 19.72	1.35 0.74 20.42	1.35 0.74 20.54	1.30 0.77 20.79	1.30 0.77 20.57	1.27 0.79 20.74	1.27 0.79 20.85	1.25 0.80 21.38	1.25 0.80 21.45
Brazilian real (USDBRL)5.58Colombian peso (USDCOP)4,080Peruvian sol (USDPEN)4.00Chilean peso (USDCLP)852	4.74 3,771 3.68 786	5.26 4,155 3.83 918	5.42 4,609 3.98 969	5.29 4,847 3.95 900	5.38 4,880 3.99 900	5.41 4,958 3.95 880	5.49 5,026 3.90 870	5.38 5,026 3.95 850	5.47 5,026 3.90 800	5.39 5,026 3.95 780	5.31 5,026 3.90 770	5.23 5,026 3.95 750
Europe												
Euro (EURUSD)1.14UK pound (GBPUSD)1.35	1.11 1.31	1.05 1.22	0.98 1.12	1.05 1.20	1.05 1.20	1.05 1.20	1.10 1.25	1.10 1.25	1.10 1.25	1.10 1.25	1.12 1.28	1.12 1.28
Asia/Oceania												
Japanese yen (USDJPY)115Australian dollar (AUDUSD)0.73Chinese yuan (USDCNY)6.36Indian rupee (USDINR)74.3South Korean won (USDKRW)1,189Thai baht (USDTHB)33.4	122 0.75 6.34 75.8 1,212 33.3	136 0.69 6.70 79.0 1,299 35.3	145 0.64 7.12 81.3 1,431 37.7	135 0.67 7.20 82.2 1,400 37.0	135 0.67 7.15 82.0 1,380 36.2	135 0.67 7.14 82.0 1,350 35.5	130 0.69 7.05 82.0 1,330 35.0	130 0.69 6.90 80.0 1,330 34.5	130 0.70 6.80 79.0 1271 33.8	130 0.70 6.80 79.0 1271 33.8	125 0.72 6.70 78.0 1271 33.0	125 0.72 6.70 78.0 1271 33.0
Canada (Yields, %)												
3-month T-bill 0.19 2-year Canada 0.95 5-year Canada 1.26 10-year Canada 1.42 30-year Canada 1.68	0.73 2.29 2.41 2.40 2.38	2.31 3.15 3.11 3.22 3.13	3.78 3.79 3.33 3.17 3.09	4.15 3.80 3.00 2.75 2.75	4.15 3.65 3.15 2.85 2.90	4.15 3.40 3.20 3.00 3.15	4.10 3.25 3.30 3.25 3.35	3.65 3.10 3.35 3.45 3.55	3.20 3.00 3.25 3.45 3.60	2.90 2.90 3.20 3.50 3.65	2.90 2.90 3.15 3.50 3.65	2.90 2.90 3.15 3.55 3.70
United States (Yields, %)												
3-month T-bill 0.06 2-year Treasury 0.73 5-year Treasury 1.26 10-year Treasury 1.51 30-year Treasury 1.90	0.55 2.33 2.46 2.34	1.73 3.09 3.04 3.01 3.18	3.21 4.28 4.09 3.83 3.78	4.30 4.35 3.70 3.50 3.50	4.80 4.15 3.60 3.25 3.45	4.80 3.90 3.50 3.30 3.50	4.80 3.65 3.40 3.40 3.55	4.50 3.30 3.20 3.45	4.00 3.10 3.15 3.50	3.50 3.00 3.15 3.55	3.00 3.00 3.10 3.60	2.75 3.00 3.10 3.60

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SCOTIABANK'S FORECAST TABLES

December 8, 2022

The Provinces											
					(annual %	change exc	ept where n	oted)			
Real GDP	CA	NL	PE	NS	NB	QC	ON	мв	SK	AB	BC
2010–19	2.3	1.1	2.1	1.2	0.7	1.9	2.3	2.2	2.3	2.6	2.9
2020	-5.1	-4.6	-1.6	-3.5	-2.7	-5.0	-4.7	-4.4	-4.8	-8.0	-3.0
2021	5.0	0.6	7.9	6.2	5.9	6.0	5.2	1.8	-0.9	4.8	6.1
2022f	3.6	0.5	2.6	2.4	2.2	3.6	3.5	3.6	5.2	4.7	2.6
2023f	0.8	1.0	1.2	0.7	0.6	0.6	0.5	0.6	1.8	1.6	0.5
2024f	1.5	1.2	1.4	1.2	1.0	1.2	1.6	1.1	1.3	1.7	1.5
Nominal GDP											
2010–19	4.0	3.7	4.2	3.0	2.8	3.9	3.6	3.9	3.5	3.7	4.5
2020	-4.5	-10.0	1.4	0.0	-1.6	-2.5	-2.9	-1.3	-7.6	-15.7	-0.7
2021	13.6	17.7	14.3	10.9	13.8	11.8	10.3	8.4	13.1	26.2	14.2
2022f	11.4	11.9	7.0	6.6	5.5	10.3	10.1	9.1	20.0	19.8	7.3
2023f	3.4	2.0	4.2	3.4	3.1	3.8	3.6	3.6	2.9	2.5	3.4
2024f	3.2	0.7	2.4	2.3	1.9	3.8	4.1	2.8	0.7	1.0	3.8
Employment											
2010–19	1.3	0.6	1.5	0.3	0.0	1.2	1.4	0.7	0.8	1.2	2.0
2020	-5.1	-5.7	-3.2	-4.7	-2.6	-4.8	-4.8	-3.3	-4.7	-6.6	-6.5
2021	4.8	2.8	3.6	5.4	2.5	4.1	4.9	3.3	2.5	5.1	6.7
2022f	3.6	3.6	3.5	3.3	3.2	3.2	3.8	3.2	3.3	4.4	3.2
2023f	0.9	1.2	0.8	0.9	0.9	0.8	0.9	0.8	1.1	1.3	0.6
2024f	1.3	1.6	1.3	1.3	1.3	1.2	1.2	1.3	1.6	1.6	1.2
Unemployment Rate (%)											
2010–19	6.9	13.3	10.6	8.7	9.3	7.1	7.0	5.5	6.4	6.2	6.1
2020	9.5	14.1	10.4	9.8	10.0	8.9	9.6	7.6	10.2	11.4	8.8
2021	7.4	12.9	9.2	8.4	9.0	6.1	8.0	6.3	8.1	8.7	6.3
2022f	5.3	10.9	7.4	6.6	7.2	4.3	5.7	4.6	4.7	5.8	4.7
2023f	5.8	11.0	7.9	7.1	7.7	4.9	6.2	5.2	5.0	5.9	5.5
2024f	6.3	11.2	8.4	7.6	8.1	5.4	6.7	5.7	5.2	6.1	6.1
Total CPI, annual average											
2010-19	1.6	2.0	1.6	1.7	1.8	1.5	1.9	1.8	1.8	1.7	1.6
2020	0.6	0.2	0.0	0.3	0.2	0.8	0.6	0.5	0.6	1.1	0.8
2021	3.4	3.7	5.1	4.1	3.8	3.8	3.5	3.2	2.6	3.2	2.8
2022f	6.8	6.4	8.8	7.4	7.3	6.7	6.9	7.7	6.5	6.4	6.8
2023f	4.1	4.4	5.6	4.7	4.5	4.3	4.1	4.2	3.7	3.5	4.0
2024f	1.9	2.1	2.5	2.2	2.1	2.0	1.9	1.9	1.7	1.6	1.9
Housing Starts (units, 000s)											
2010–19	201	2.2	0.8	4.2	2.7	44	70	6.6	6.0	31	34
2020	218	0.8	1.2	4.9	3.5	54	81	7.3	3.1	24	38
2021	271	1.0	1.3	6.3	3.8	68	100	8.0	4.2	32	48
2022f	258	1.8	1.2	5.6	4.3	63	89	7.8	4.5	36	45
2023f	202	1.1	0.9	4.5	3.1	50	72	6.0	3.3	26	35
2024f	194	0.7	1.0	4.4	2.9	48	72	6.1	2.9	22	34
Motor Vehicle Sales (units, 000s)											
2010–19	1,816	33	7	52	42	441	738	56	54	239	199
2020	1,566	27	7	40	35	378	653	47	42	184	179
2021	1,668	29	8	45	38	404	665	49	43	196	199
2022f	1,532	25	7	35	34	366	628	42	40	182	178
2023f	1,698	27	7	40	37	404	696 765	46	44	204	195 215
2024f	1,864	29	8	45	40	443	765	51	48	222	215
Budget Balances, (CAD mn)	20.000	A 447	22	-	10		0.070	-	240	40.450	222
2019*	-39,392	1,117	22	2	49	32	-8,672	5	-319	-12,152	-322
2020	-327,729	-1,492	-6	-342	409	-7,539	-16,404	-2,124	-1,127	-16,962	-5,468
2021	-90,200	-272	-27	351	488	-294	2,051	-704	-1,468	3,944	1,306
2022f	-36,400	479	-93	-506	774	-1,656 1 277	-12,900	-548	1,094	12,294	5,732
2023f	-30,600	-309	-52	-419	21	-1,277	-8,100	-440	-384	5,615	-4,128
* NL budget balance in 2019 is net of one-time				C							

Sources: Scotiabank Economics, Statistics Canada, CMHC, Budget documents; Quebec budget balance figures are after Generations Fund and before Stabilization Reserve transfers.

December 8, 2022

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