

INTERNATIONAL MONETARY FUND

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NORWAY

September 2022

2022 ARTICLE IV CONSULTATION—PRESS RELEASE; STAFF REPORT; AND STATEMENT BY THE EXECUTIVE DIRECTOR FOR NORWAY

Under Article IV of the IMF's Articles of Agreement, the IMF holds bilateral discussions with members, usually every year. In the context of the 2022 Article IV consultation with Norway, the following documents have been released and are included in this package:

- A Press Release summarizing the views of the Executive Board as expressed during its September 14, 2022, consideration of the staff report that concluded the Article IV consultation with Norway.
- The Staff Report prepared by a staff team of the IMF for the Executive Board's consideration on September 14, 2022, following discussions that ended on June 9, 2022, with the officials of Norway on economic developments and policies. Based on information available at the time of these discussions, the staff report was completed on August 29, 2022.
- An **Informational Annex** prepared by the IMF staff.
- A Statement by the Executive Director for Norway.

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IMF Executive Board Concludes 2022 Article IV Consultation with Norway

FOR IMMEDIATE RELEASE

Washington, DC – **September 19, 2022:** The Executive Board of the International Monetary Fund (IMF) concluded the Article IV consultation¹ with Norway on September 14, 2022.

Norway's economy continues to grow strongly. In 2021, real GDP grew 4.2 percent, supported by record high private consumption, as the high household savings accumulated during the pandemic unwound. Public spending continued to contribute to growth. Despite production constraints due to labor shortages and global supply disruptions, capacity utilization remained high. Activity remained buoyant in the first half of 2022, benefiting from higher energy prices.

Due to high growth and external developments, core inflation came under pressure, reaching levels significantly above the 2 percent target. Real wage growth remained moderately strong, although expectations going forward are fairly high on the back of historically low unemployment. House sales remained vibrant in 2021, price inflation continued to be moderate, while investment remained sluggish, not least due to higher interest rates and substantially higher construction costs.

Ample policy space provides room to mitigate adverse shocks from risks which are relatively balanced in the short-term. Mainland real GDP growth is expected to be somewhat below 4 percent in 2022 with the forecast being especially sensitive to energy prices developments. While household consumption could be affected by high global energy prices, compensatory electricity subsidies, together with the agreed wage increase, should help support real incomes and spending. The current account is projected to remain in a high surplus, with net exports contributing positively to growth. Indirect effects from the war in Ukraine, a potentially lower demand from Europe for non-energy exports, and continued supply bottlenecks weigh on the outlook.

Executive Board Assessment²

Executive Directors noted that Norway has rebounded strongly from the COVID-19 pandemic, benefitting from sound policies and solid economic fundamentals. While the outlook remains favorable, it is subject to uncertainties and risks, including from the spillovers from Russia's war in Ukraine and pandemic developments. Norway also faces significant long-term challenges related to the aging population, the transition away from oil, and climate change. In this context, Directors supported continued use of Norway's ample buffers to respond to

¹ Under Article IV of the IMF's Articles of Agreement, the IMF holds bilateral discussions with members, usually every year. A staff team visits the country, collects economic and financial information, and discusses with officials the country's economic developments and policies. On return to headquarters, the staff prepares a report, which forms the basis for discussion by the Executive Board.

² At the conclusion of the discussion, the Managing Director, as Chairman of the Board, summarizes the views of Executive Directors, and this summary is transmitted to the country's authorities. An explanation of any qualifiers used in summing up can be found here: http://www.IMF.org/external/np/sec/misc/qualifiers.htm.

shocks, but emphasized that over time policies should be reoriented towards addressing long-term structural challenges and promoting green and inclusive growth.

Directors noted that the fiscal stance remains appropriately accommodative but a return to a neutral fiscal stance should be targeted over the medium term. They called for better targeting energy subsidies toward lower income households. Directors encouraged the authorities to proactively address the expected strain on public finances driven by demographic trends and the transition away from oil, and a few Directors saw merit in staff's recommendation to adopt a medium-term expenditure framework guided by an operational rule. In parallel, reforms should aim at improving spending efficiency.

Directors noted that monetary policy should continue balancing overheating risks and financial stability considerations. They welcomed the Norges Bank's decision to quickly increase interest rates to respond to rising inflation pressures and encouraged continued flexibility in decision making and clear public communication.

Directors noted that the financial sector remains on sound footing. While acknowledging the improvements made to the macroprudential policy framework, they saw merit in considering additional measures, especially to address the high and interest sensitive housing related debt. Directors encouraged easing restrictions on the supply of new housing, altering regulations to boost construction efficiency, and gradually phasing out of mortgage interest deductibility. Expanding the regulatory toolkit for mitigating commercial real estate vulnerabilities should also be considered.

Directors noted that structural reforms will need to be wide-ranging, with a focus on raising non-oil productivity and boosting and diversifying labor force participation. They encouraged promoting upskilling, changing the sickness and disability benefit system, and giving more opportunities to immigrants. While commending the authorities for the progress with digitalization, Directors noted that closing remaining gaps will help further improve productivity. They welcomed Norway's commitment to an ambitious climate agenda and the efforts in helping to finance transition to renewable energy in developing countries.

Norway: Selected Economic and S	ocial In	<u>dica</u> tors	s, 2019-	-24		
	2019	2020	2021	2022	2023	2024
					proj.	
Real Economy						
Real GDP (change in percent) 1/	0.7	-0.7	3.9	3.6	2.6	2.2
Real mainland GDP (change in percent)	2.0	-2.3	4.1	3.7	2.1	2.0
Final Domestic demand	2.3	-3.6	3.4	4.6	2.3	2.1
Private consumption	1.1	-5.6 -6.6	4.9	5.8	2.3	2.1
Public consumption	1.3	1.8	3.8	1.6	1.3	1.7
Gross fixed capital formation	6.3	-3.6	0.0	5.7	3.7	2.6
Exports	4.7	-3.0 -8.2	5.4	3.7	3.1	2.0
·						
Imports	5.7	-12.1	3.0	7.0	3.6	2.2
Total Domestic demand (contribution to growth) 2/	1.2	-4.3	3.7	5.2	2.6	2.2
Net exports(contribution to growth)	-0.9	2.5	0.3	-1.5	-0.5	-0.2
Unemployment rate (percent of labor force)	3.7	4.6	4.4	3.9	3.8	3.7
Output gap (mainland economy, - implies output below potential)	0.2	-2.1	0.3	8.0	0.2	0.1
CPI (end of period)	1.4	1.4	5.3	4.7	3.5	2.5
Core Inflation (end of period)	1.8	3.1	1.8	3.4	3.3	2.8
Public finance						
Central government (fiscal accounts basis)						
Non-oil balance (percent of mainland GDP)	-7.4	-12.2	-11.3	-8.6	-8.4	-8.4
Structural non-oil balance (percent of mainland trend GDP) 3/	-7.3	-11.4	-10.8	-10.3	-9.4	-9.3
Fiscal impulse	-0.1	4.1	-0.6	-0.5	-0.9	-0.1
In percent of Pension Fund Global Capital 4/	-2.7	-3.6	-3.2	-2.9	-2.7	-2.6
General government (national accounts definition, percent of						
Overall balance	7.7	-3.2	11.5	27.8	23.1	20.3
Non-oil balance (percent of mainland GDP)	-8.0	-13.3	-9.4	-9.0	-8.7	-8.7
Net financial assets	392.4	423.0	456.8	425.3	425.9	429.3
of which: capital of Government Pension Fund Global (GPF-G)	329.2	358.5	377.7	352.2	357.0	363.5
Money and credit (end of period, 12-month percent change)						
Broad money, M2	4.2	12.1	10.4			
Domestic credit, C2	5.1	4.9	4.9	•••		
Domestic Credit, C2	3.1	4.5	4.5			•••
Interest rates (year average, in percent)						
Three-month interbank rate	1.6	0.4	0.8			
Ten-year government bond yield	1.5	8.0	1.1			
Balance of payments (percent of total GDP)						
Current account balance	2.9	1.1	15.0	19.4	14.5	11.3
Balance of goods and services	1.7	-0.9	15.5	24.0	17.1	13.9
Terms of trade (change in percent)	-8.0	-16.7	42.7	14.7	-8.1	-5.6
International reserves (end of period, in billions of US dollars)	65.0	73.6	83.0	83.0	83.0	83.0
Gross national saving	32.8	31.4	40.3	43.6	40.2	37.7
Gross domestic investment	29.9	30.3	25.3	24.2	25.6	26.4
Exchange rates (end of period)						
Bilateral rate (NOK/USD), end-of-period	8.8	9.4	8.6			
Nominal effective rate (2010=100)	81.7	76.2	80.5			
Real effective rate (2010=100)	83.7	78.2	83.1			
Memo:	33.1	. 0.2	55.1	•••	•••	•••
Nominal GDP (in Billions of US Dollars)	404.9	362.2	482.2	504.7	486.4	495.1

Sources: Norwegian Authorities; International Financial Statistics; United Nations Development Programme; and IMF staff calculations.

^{1/} Based on market prices which include "taxes on products, including VAT, less subsidies on products".

^{2/} Includes the contribution from the mainland GDP residual.

^{3/} Authorities' key fiscal policy variable; excludes oil-related revenue and expenditure, GPFG income, as well as cyclical effects. Non-oil GDP

^{4/} Over-the-cycle deficit target: 3 percent of Government Pension Fund Global.



INTERNATIONAL MONETARY FUND

NORWAY

STAFF REPORT FOR THE 2022 ARTICLE IV CONSULTATION

August 29, 2022

KEY ISSUES

The economy bounced back strongly from the first wave of Covid-19 pandemic, and the recovery is well entrenched in 2022. However, risks to the outlook are considerable, given the uncertainty over spillovers from the war in Ukraine, the intensity of the pandemic globally, and in Europe, in particular, and supply bottlenecks. Given the strong fundamentals, Norway is relatively shielded and there are both upside (higher energy prices and export volumes) and downside risks (lower demand from Europe for non-energy exports). The forecast is especially sensitive to where energy prices settle, whether energy supply to Europe will be disrupted, and Norway's capacity to increase gas supplies to Europe.

If risks materialize, fiscal policy should remain the main policy tool, given Norway's ample fiscal space. Otherwise, fiscal consolidation should target a return to a neutral stance in the medium-term. The challenges ahead relate to adverse demographics trends and the transition away from oil, which may put a strain on public finances if unaddressed. Further strengthening of the fiscal framework would help with fiscal adjustment over the next decades and mitigate the impact of large asset price fluctuations on fiscal policy, improving long-term sustainability. Reforms to improve the quality and cost efficiency of public services delivery will need to continue.

Monetary policy should continue to balance overheating risks and financial stability. Banks' exposure to commercial real estate (CRE) remains an important vulnerability, which has been manageable thus far, despite the slowdown during the pandemic and uncertainties regarding demand for workspace. Household debt is high and sensitive to interest rate increases, but high bank capital mitigates the risks to stability.

The new government's policy objectives are focused on instilling progressivity in the tax system, advancing green transition, encouraging full-time and permanent employment, and providing greater support for families and rural communities. While those are important goals, structural objectives should also include reforms that increase and diversify labor force participation, promote integration of foreign born, boost non-oil activity, and ensure timely restructuring and resource reallocation, and close remaining digitalization gaps to further improve productivity. Norway's leadership in addressing climate change challenges is very welcome.

Approved By P. Gerson (EUR) and G. Gray (SPR)

The Article IV Consultation discussions took place in Oslo during May 31–June 9, 2022. The staff team was comprised of E. Stavrev (head), S. Dell'Erba, A. Fotiou, and S. Vtyurina (all EUR). B. Slettvag (OED) joined the discussions. H. Jung and R. Srinivas (both EUR) provided administrative and data assistance. The mission met with Norges Bank Governor Ida Wolden Bache, other senior officials from the Ministry of Finance, Norges Bank, Ministry of Labor and Social Inclusion, Ministry of Petroleum and Energy, Finanstilsynet, and Statistics Norway. The mission also met with representatives of the banking sector, labor unions, real estate sector, and academics.

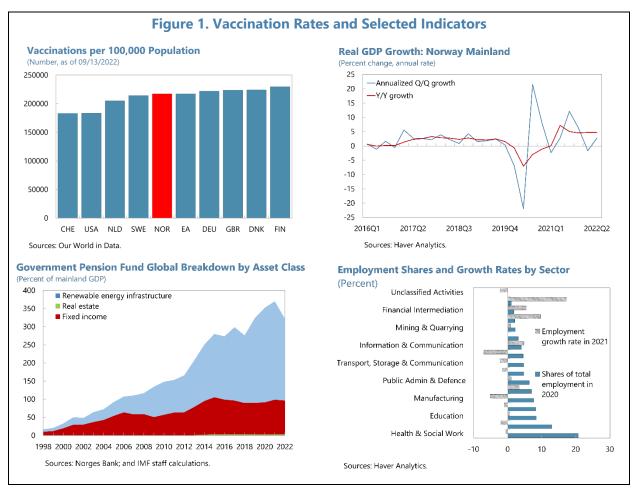
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CONTEXT

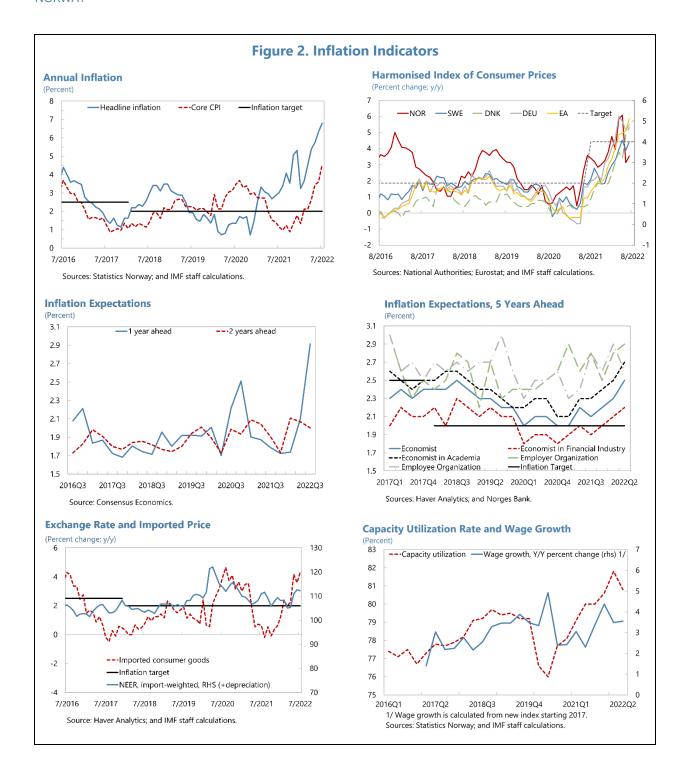
1. Norway's economy rebounded quickly after the initial Covid-19 virus wave. By mid-2021, the mainland real GDP (excluding off-shore oil and gas sector) exceeded its pre-pandemic level (Figure 1). Real GDP grew 4.1 percent in 2021, supported by record high private consumption. The effect of the war in Ukraine so far has been mild and the country has benefited heftily from higher oil prices, but potentially reduced European demand could affect non-oil exports and confidence going forward.



2. Norway's strong commitment to good policies will need to be sustained to address the long-standing challenges. A new government, formed by the Labor and the Centre Parties, took office in October 2021 after an election campaign dominated by a debate over climate change and the future of Norway's oil and gas exploration. This coalition government is pursuing a multipronged agenda. The climate agenda is particularly ambitious, and Norway is a global leader in advocating a buy-in from the largest emitters. Long-standing challenges such as boosting labor force participation and integration of vulnerable groups, including through better skill matching, coping with a forecasted reduction in the offshore oil production over the next decades, while sharing the wealth with future generations, all require a comprehensive and focused approach.

RECENT DEVELOPMENTS

- 3. Historically high private consumption has been driving the recovery. Increased private consumption boosted demand in 2021. Along with lifting of the pandemic-related restrictions, economic activity and private investment increased. Mainland net exports had a positive contribution to growth due to high exports of goods and services, partly owing to solid growth in fish exports and foreign tourism in Norway. Public spending continued to contribute to growth, with the fiscal impulse being positive. Capacity utilization remained high, despite production constraints due to labor shortages and global supply disruptions. High frequency indicators suggest that activity remained buoyant in 2022:Q1, with especially rapid recovery in sectors most affected by containment measures which were removed in mid-February.
- 4. Prices have been rising and eventually core inflation came under pressure. By end-2021, core inflation still remained below the target of 2 percent, while headline inflation reached 5.3 percent, reflecting very high energy prices. In July 2022, core and headline inflation increased to 4.5 percent and 6.8 percent, respectively (Figure 2). In 2021, real wage growth remained moderately strong, and high labor demand has likely pushed up wage growth slightly towards the end of the year. House sales remained vibrant in 2021, price inflation continued to be moderate, while investment remained sluggish, not least due to higher interest rates and substantially higher construction costs. House prices spiked at the beginning of 2022 as a response to a new regulation, and the increase is expected to be transitory.
- **5. Higher wage expectations have been driven by tight labor market and rising consumer prices.** Unemployment declined gradually to 4.4 percent in 2021 (from 4.6 in 2020), while variations by sector persisted (Figure 1). In May 2022, registered unemployment was 1.7 percent, which is the lowest rate recorded since before the 2008 global financial crisis. The employment rate is now at its highest level in over a decade. The large number of job vacancies indicate strong labor demand, as migrant workers have only partially returned to Norway after the pandemic restrictions were lifted. In early April, a wage agreement among social partners (manufacturing) settled on a wage hike of 3.7 percent, broadly in line with 2022 inflation projection. Wage growth of 3.8 percent has been agreed on in most of the public sector. Nonetheless, the tight labor market may result in somewhat faster wage growth for this year.
- 6. Norway's external position was assessed to be broadly in line with fundamentals. The current account surplus surged from 1.1 percent in 2020 to 15 percent of total GDP in 2021 (compared to the pre-pandemic 10-year average of 9 percent), driven by high oil prices and primary income, which reflects lower outflows due to postponed dividend and interest payments. Staff assesses the current account gap in 2021 to be around 0.7 percent of total GDP, which is broadly in line with what is implied by fundamentals and desirable policies. The real effective exchange rate (REER) in 2021 was overvalued by 12 percent relative to the REER norm (Annex I).



OUTLOOK AND RISKS

- 7. Risks are relatively balanced in the short-term and ample policy space provides room to mitigate adverse shocks. Mainland real GDP growth is expected to be somewhat below 4 percent in 2022 and to continue to be driven primarily by strong domestic demand, especially private consumption. The forecast is especially sensitive to energy prices developments, whether Russian energy supply to Europe will be disrupted, and Norway's capacity to increase gas supplies to Europe. Norway's share of gas supply to Europe recently increased to 40 percent, as Russia's share declined to 25 percent, and a new pipeline is expected to become operational by end-2022. It is still unclear how much oil capacity can be expanded to increase exports to Europe in light of a partial EU ban on Russian oil, but high oil prices will continue to support oil investment and energy exports (in addition to already expanded export capacity). While household consumption could be affected by high global energy prices, compensatory electricity subsidies, together with the agreed wage increase, should help support real incomes and spending. The current account is projected to remain in a high surplus, with net exports contributing positively to growth. Indirect effects from the war in Ukraine, a potentially lower demand from Europe for non-energy exports, and continued supply bottlenecks weigh on the outlook (Annex II).
- 8. While prospects are generally favorable in the near term, maintaining high growth over the longer horizon remains a challenge. Given the accumulation of substantial savings, private consumption could continue to grow, albeit at a slower pace, affected by interest rate increases and measured increases in wages guided by industry agreements. Investment is expected to rebound, barring tail risks from the war, as spending commitments will need to be delivered on (e.g., green energy). In the long term, however, there are challenges. While Norway's very low operational costs would keep medium-term oil production stable, the longer-term future of oil production beyond its expected 2024 peak remains relatively uncertain. Also, there are impediments to stronger long-term growth stemming primarily from worsening demographics, highlighting the need to boost labor force participation and improve spending efficiency, while building larger buffers.

Authorities' Views

9. The authorities broadly shared staff's assessment. They expect strong mainland GDP growth to persist in the short term despite tighter global and domestic conditions and supply bottlenecks. They noted that the wage bargaining system has a disciplining role that makes a wage-inflation spiral less likely, however a tighter fiscal-monetary mix is necessary to mitigate overheating risks.

¹ Currently, there is potentially one new field with capacity higher than previously assumed.

POLICY DISCUSSIONS

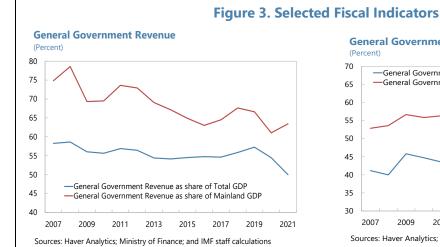
As economic recovery solidifies, and barring the short-term uncertainties, policies will need to focus on making the labor market more inclusive, improving educational opportunities, completing COP26 climate commitments, and ensuring intergenerational fairness through accumulating larger fiscal cushions. If downside risks materialize, fiscal and monetary policies should be flexibly adjusted (Annex II). Fiscal policies should aim at the reduction in the non-oil balance. Monetary policy has been responding timely to the changes in the cycle and safeguarding against financial risks and should continue to do so. Addressing the remaining 2020 FSAP recommendations would also help reduce vulnerabilities.

A. Fiscal Policies

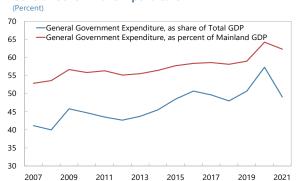
10. The fiscal stance in 2022 remains accommodative. In 2021, the fiscal outturn, netting out the pandemic-related stimulus, implies a positive fiscal impulse close to 1 percent of GDP. The original 2022 budget envisaged consolidation, however, in December 2021, new measures (0.6 percent of GDP) were announced to deal with the increase in electricity prices (Box 1). While the subsidy is largely covered by windfall profits of state-owned electricity companies, which export excess electricity, and does not compensate for the full amount of an increase in prices, in staff's view, it should be more targeted toward lower income households. In addition, in March, further measures were adopted related to the war in Ukraine (0.4 percent of GDP). Compensatory measures were also introduced to help finance the additional spending. Accordingly, the fiscal impulse

(measured by the change in the nonoil structural deficit net pandemic measures) remained accommodative (about 1.5 percent of mainland GDP). Given the pent-up private consumption as the high pandemic-related excess saving unwind, and the large positive terms of trade shock, staff argued that larger and faster fiscal consolidation would help prevent overheating of the economy.

	Bud	lget	Revised	Budget
NOK Billion	2021	2022	2021	2022
Non-oil Revenues	1156	1252	1190	1308
Non-oil Expenditures	1569	1552	1559	1611
of which Pandemic Support	93	28	93	28
Non-oil Deficit	-413	-300	-369	-303
Structural Non-Oil Deficit	-397	-322	-354	-352
% of Trend Mainland GDP				
Structural Non-Oil Deficit (net of Pandemic	-9.3	-8.6	-8.0	-9.5
Fiscal Impulse (net of Pandemic Support)	2.1	-0.6	1.0	1.5
Memo items				
Structural Non-Oil Deficit	-12.1	-9.5	-10.8	-10.3
Fiscal Impulse	0.6	-2.6	-0.6	-0.5

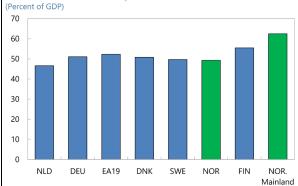


General Government Expenditure

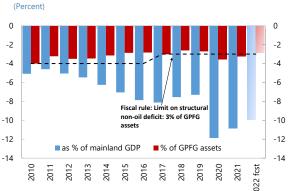


Sources: Haver Analytics; Ministry of Finance; and IMF staff calculations.

General Government Expenditure, 2021



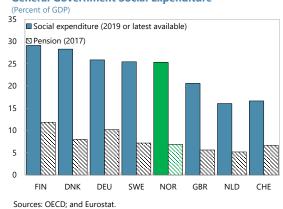
Structural Non-Oil Balance



Sources: Ministry of Finance, Norge Banks; and IMF staff calculations.

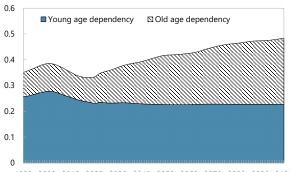
Sources: Haver Analytics; Eurostat; and IMF staff calculations.

General Government Social Expenditure



Dependency Ratio

(Persons aged 0-14 and 75+ per person aged 15-74)



1990 2000 2010 2020 2030 2040 2050 2060 2070 2080 2090 2100 Sources: Statistics Norway; and IMF staff calculations.

Box 1. Electricity Cost Support Packages

- Direct household subsidy will cover 80/90 percent of electricity bills that exceed 7 euro/cent per Kwh during January 2022-March 2023.
- Reductions in the electrical power tax.
- Increased housing assistance and student support.
- Compensation to municipalities for additional welfare assistance.
- Additional efficient energy-use initiatives under the auspices of Enova, a government enterprise responsible for promotion of environmentally friendly production and consumption of energy.
- 11. The new government continues to pursue the objectives of inclusive growth. On the revenue side, there are provisions for a net tax increase of 0.2 percent of mainland GDP, which is mostly a result of higher progressivity of income taxation and fairer wealth tax, and the revenue is passed on to low-income households and commuters. On the expenditure side, the budget includes provisions to reduce childcare costs for families, boost labor participation, while increasing allocations for public transport.
- 12. Expansion of green transition and technologies are also high on the agenda. The government has pledged to bring the tax on non-Emission Trading System (ETS) emissions to NOK 2,000 (USD 221) per ton of CO2 by 2030 to meet Norway's climate targets (Box 2). The 2022 budget increases the tax on non-ETS emissions by 28 percent, with offsetting tax cuts benefiting the groups more impacted by the increase. While granting of permits to explore new oil and gas fields will continue, the government plans to cut emissions from oil and gas production by 50 percent by 2030 and to net zero by 2050. The plan includes investment to develop CO2 capture and storage facilities in the North Sea.

Medium and Long-term Issues

- 13. The fiscal framework and strong fiscal management have created fiscal space and have helped ensure macroeconomic stability (Annex III). The fiscal rule has been applied conservatively over the years, and its flexibility has allowed the use of savings accumulated in the Government Pension Fund Global (GPFG) during times of crises. Over time, the increase in the value of the assets accumulated in the GPFG has led to a steady rise in government deficits as a share of mainland GDP, creating ample fiscal space in the budget (Figure 4).²
- **14. Over the long term the policy space is projected to decline.** Over the past decade, growth in transfers from the GPFG and tax revenues has exceeded growth in pension and aging related spending, creating policy space to finance additional initiatives to improve long-term growth prospects (MOF, 2022). However, projections for the coming decades show diminishing policy space, as GPFG transfers will decline with lower projected oil revenues inflows. While the overall revenue growth will be sufficient to cover the projected increase in aging and health care related spending, some adjustment might be needed in the longer term.

² In expectation of lower future returns on oil revenue investment, the rule was revised downwards to a 3 percent (expected return) of the GPFG's value in 2017.

Box 2. New Action Plan for Climate

In 2021, Norway launched a new action plan for climate adaptation and food security, building on the key principles of its 2030 Agenda. The action plan aims to support innovation and digitalization for increased climate-smart productivity within agriculture. The strategies for sustainable and climate-adapted food production comprises access to technology, improved farmer knowledge and access to necessary goods, reduced food waste, and preservation of biological diversity. In accordance with a key principle of the SDGs, the Norwegian plan aims to "leave no one behind" by prioritizing vulnerable and marginalized groups that are most affected by climate change. The plan emphasizes the need for policy coherence and cooperation between governments, multilateral organizations, the private sector, academic institutions, and civil society. It aims to strengthen coordination between Norway's International Climate and Forest Initiative (NICFI) and the action plan on sustainable food systems. In doing so, the government plans to fund research, technology, and innovation by actively involving Norwegian and international research communities.

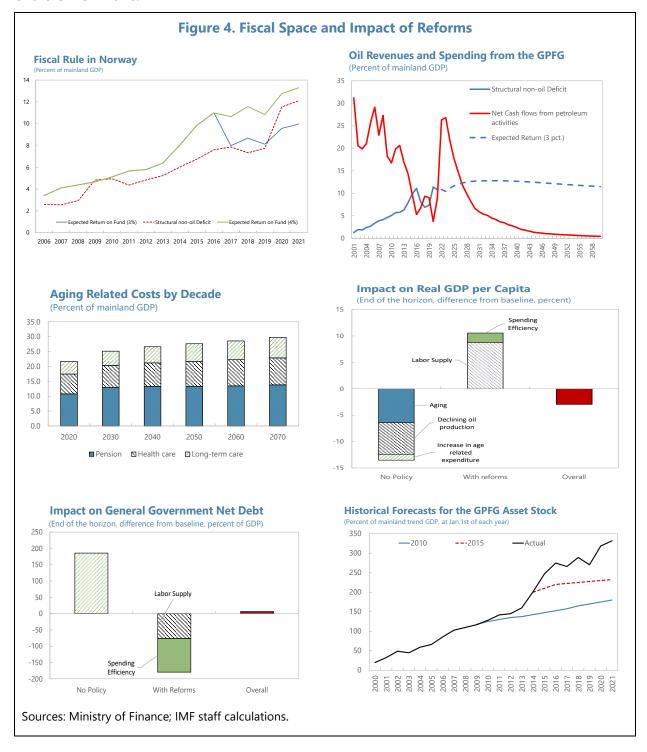
Norway remains a global leader in climate mitigation policy, especially in carbon pricing, but more effort is needed as gaps in the coverage of carbon taxation remain.¹ Current policies to achieve climate mitigation objectives through 2030 are centered on carbon taxation and other important initiatives such as research and development of carbon capture options. Norway aspires to become a low emission country by 2050, with net negative emissions when the uptake of carbon of Norwegian forests and other land is accounted for. According to data collected by Statistics Norway, the average price paid per ton of CO2-equivalents in 2020 was NOK 590 (about USD 70). This is well above the global average of USD 2 and now within the USD 50-100 range estimated by the IMF to be necessary to achieve the targets set out in the Paris Agreement.

- **15.** Long-term challenges related to adverse demographics trends and the transition away from oil may put public finances under strain if unaddressed. As oil revenues are projected to decline beyond 2025, aging related spending pressure will intensify over time, though the rise in pensions will be more modest due to the impact of past reform. The fiscal framework has allowed accumulation of substantial assets and financing pressures are unlikely be an issue for several decades. However, as <u>past staff analysis</u> has shown, the intertemporal net worth of the public sector remains negative, reflecting the high cost of future ageing-related spending.
- 16. Staff has examined possible reforms that could reduce pressure on public finances in the long term. With unchanged policies, the real per capita GDP is expected to decline by almost 14 percent by 2070 (Figure 4). The decline is due to lower labor supply resulting in lower investment and accumulation of capital stock. Reforms that increase labor supply (including changes to sickness and disability benefit schemes) would improve the macroeconomic outlook. However, as discussed in the White Paper by the Ministry of Finance, they are not sufficient to address long-term fiscal sustainability, unless accompanied by reforms aimed at containing spending and improving its efficiency.³ Staff estimates show that a fiscal adjustment (of about 7 percent of GDP) over the next couple of decades can prevent the deterioration in the general government net debt. As the value of the GPFG can fluctuate significantly because of changes in oil and asset prices, resulting in both upside and downside risks due to market corrections, these fluctuations can affect the future conduct of fiscal policy. Consideration could be given to the adoption of an additional medium-term

¹ See <u>OECD Economic Surveys</u>.

³ See also Annex V (IMF, 2019) and IMF (2021).

fiscal anchor in the form of a medium-term expenditure framework (OECD, 2022) and/or expenditure rule that caps the growth of aggregate spending, to guide a more gradual phasing out of the GPFG inflows.

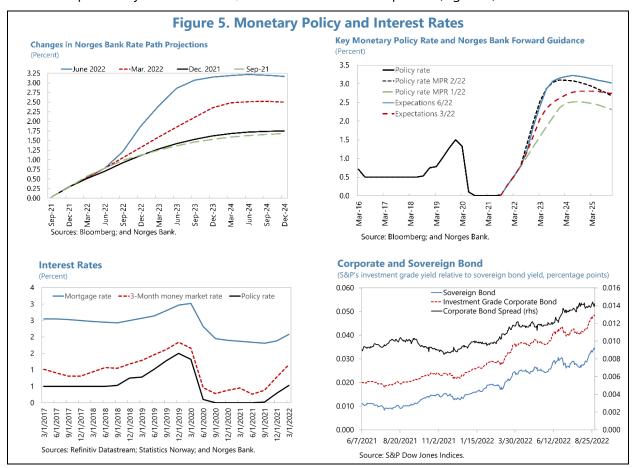


Authorities' Views

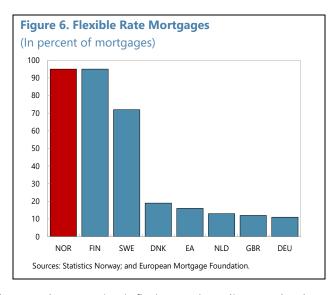
17. The authorities broadly agreed with staff's assessment of fiscal policies. Medium-term consolidation remains a primary objective. There is some concern related to the budget dependence on financing from the wealth fund, and the fiscal framework now exposes the economy mainly to asset price volatility, while commodity price volatility has gradually become a less dominant risk. While the Advisory Panel on Fiscal Policy Analysis, now with an expanded mandate to comment on long-term fiscal sustainability issues, has recommended changes to the fiscal framework to make the transfer from the fund more stable over time, discussions are at an initial stage on the options to improve its design.

B. Monetary Policy

18. As the Covid-19 shock receded, Norges Bank was one of the first advanced economy central banks to start increasing the policy rate. By end-March 2022, while inflation was below the target, Norges Bank increased the policy rate by 0.25 percent three times (to 0.75 percent) in response to increasing wage pressures and capacity utilization. Pressures continued into 2022 (higher-than-expected inflation, including for imported goods due to the krone depreciation), and the policy rate was further increased by 0.5 percentage points in June and August to 1.75 percent, faster than previously communicated, and further hikes are expected (Figure 5).



19. Given current price developments and outlook, staff assesses faster policy tightening as appropriate. Norges Bank conducts monetary policy under a flexible inflation targeting regime with the aim of stabilizing CPI inflation close to the 2 percent target over the medium term. The increased prospects for a more prolonged period of high inflation justify the faster pace of rate hikes compared to earlier this year. The high share of flexible rate mortgages (above 95 percent) with short lock-in periods would suggest that the hikes would amplify the intended effect (Figure 6). A Residential mortgage rates have



been increasing and are gradually expected to dampen house price inflation and credit growth. The uncertainly surrounding the projections supports continued flexibility in decision making accompanied by clear communication.

20. As other central banks in the region, Norges Bank has been exploring the use of digital currency and strengthening cyber resilience. Cash usage has fallen to only 4 percent of the payments, dubbing Norway as "the world's most cashless" country. Following years of research, Norges Bank has started testing various technical options for a central bank digital currency (CBDC). In April 2021, it announced that it would be conducting CBDC tests over the next two years upon recommendations from an internal working group. Given a predominantly digital payment system, risks to security are rising. To improve testing for and identify incidence of cyber-attacks in the bank operations and payment systems, Finanstilsynet and Norges Bank have recently drawn up a framework for testing cyber resilience, in accordance with the European framework for Threat Intelligence-Based Ethical Red-Teaming (TIBER-EU). An implementation guide for a Norwegian framework (TIBER-NO) has been developed and published, and critical functions will be tested as well as the entities responsible for them, have been identified. In addition, Norges Bank is working with the private sector, encouraging them to boost their cybersecurity capabilities.

Authorities' Views

21. Authorities broadly agreed with staff's assessment. Norges Bank was concerned with the risk of inflation moving higher than anticipated against the background of little spare capacity, sustained global inflationary pressures and a weaker krone. On the other hand, there is a risk that rapid tightening abroad would lead to an abrupt slowdown in growth, with global inflation pressures easing faster than assumed. The rise in interest rates in Norway may also cool down the housing market and curb household consumption to a greater extent than expected. Acceleration of rate hikes/a faster rate rise now will reduce the risk of inflation remaining high and the need for a sharper tightening of monetary policy further out.

⁴ Banks are required to stress test mortgage applications for higher rates.

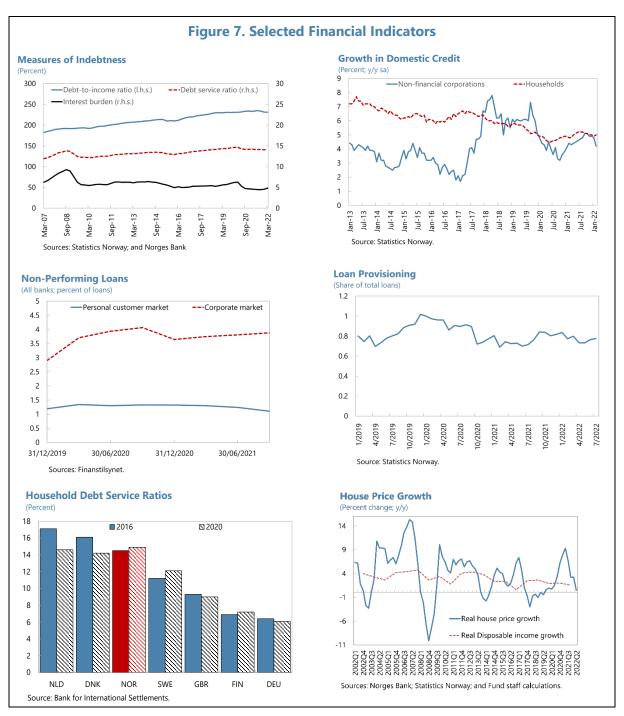
C. Financial Sector Policies

- 22. Norwegian banks have remained resilient, solvent, and profitable, not least due to a high level of digitalization. They have withstood well the Covid-19 pandemic shock, which was considerably milder than those examined during the 2020 FSAP. As expected, banks continued to meet capital requirements, in particular because of the very high capital buffers. While liquidity has been sufficient to address pressures during the fairly short-lived economic inactivity, tests do show that risks become more significant over longer horizons. With relatively high dependence on international wholesale funding banks remain vulnerable to turbulence in foreign markets. Banks kept up lending activity in 2021–22, with credit to households increasing, albeit at a moderate pace, notably due to the pre-pandemic prudential measures to limit excessive borrowing (Figure 7). Nonetheless, household debt-to-income ratio has been steadily growing and stood well above 200 percent in 2021. The mitigating factor was that the interest burden-to-income ratios fell to their lowest levels in 2020–21, providing a boost to disposable income.
- 23. Further improvements were made to the macroprudential policy framework, but some recommendations remain outstanding, especially with respect to housing (Annex IV). Following the introduction of the consumer credit regulation in 2019 and the establishment of credit registries, the volume of consumer credit declined, and there are now substantially fewer borrowers with very high consumer debt. Temporary relaxation of mortgage lending regulation that facilitated debt restructuring and home-equity withdrawals ended, and support measures to households were rolled back. Staff continues to recommend to permanently preserve tighter mortgage regulation limits for Oslo now that the recovery is sustained and given still high house price growth in the capital (Box 3). As emphasized during pervious consultations, other targeted measures, including easing restrictions on the supply of new housing, altering regulations to boost construction efficiency, and curbing demand through a gradual phasing out of mortgage interest deductibility should also be implemented. In September 2021, Norges Bank was granted decision-making responsibility for setting the countercyclical capital buffer (CCyB), which is set four times a year, and advisory responsibility for the systemic risk buffer, in line with the 2020 FSAP recommendation.⁵ Recommendation powers on other tools should also be granted (Annex IV).
- 24. Risks to financial stability appear to be broadly manageable. Overall risks are assessed to be at the same level as before the pandemic and lower than prior to the financial crisis in 2008. In a stress scenario, banks' losses increase significantly, driven, to a great extent, by the fall in residential and commercial property prices, but banks' loss-absorbing capacity is fundamentally sound. The current prudential toolkit to mitigate financial stability risks remains quite comprehensive to address the vulnerabilities and has adapted well to the challenges brought by the pandemic. The expiration of the pandemic-related relaxation of borrower-based requirements, monetary policy normalization, and the (planned) increases of the CCyB should help curb CRE price

⁵ CCyB was raised in two steps (0.5 percent each) in 2021 to 2 percent by end-2022 and will be 2.5 percent, effective March 2023.

⁶ Norges Bank, 2021.

growth going forward (half of banks' corporate assets comprise lending to CRE). Expanding the regulatory toolkit for mitigating CRE vulnerabilities, including sectoral capital tools, continues to be staff's long-standing recommendation (Norway's implementation of European Capital Requirements Directive in June 2022 would make expanding the tool possible). To better monitor risks through more comprehensive CRE data collection and dissemination, in line with staff advice, Norges Bank has recently changed the provider of rent statistics for prime office space, as its data are considered more representative of developments in prices in this segment.



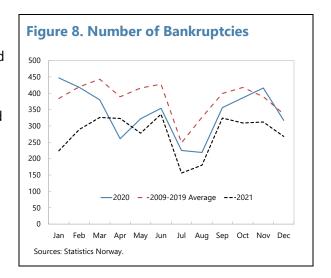
Box 3. Recent Regulation on Residential Mortgage and Consumer Loans

The regulation imposes restrictions on banks' lending practices and includes requirements on:

- The customer's debt-serving ability
- The customer's debt-to-income (DTI) ratio
- Mortgage size in relation to property value (loan-to-value ratio)
- Principal payments for all consumer loans and mortgages with a high LTV ratio

To ensure that banks can make customer-specific assessments, a certain share of banks' loans can exceed the regulation requirements. For mortgages, this flexibility quota is set to 8 percent of the lending volume each quarter in Oslo and 10 percent outside of Oslo. For consumer loans, the flexibility quota is 5 percent nationwide. The mortgage regulations timeframe has been extended to 4 years from 1.5 years. In end-2019, risk weight floors of 20 and 35 percent were introduced for mortgages and CRE lending, respectively.

25. Creditworthy businesses have ample access to bank credit and bankruptcies have been low. Growth in corporate lending has picked up since end-2020. NPLs have declined slightly among NFCs and, overall, are still quite low, while varying by sector. Loan provisioning has increased since mid-2021, but very marginally. Bankruptcies have followed the pattern of 2020, overall declining, most likely still due to continuation of some support measures (e.g., tax deferrals) (Figure 8). The loan guarantee schemes for affected businesses were re-introduced in January 2022 to cushion the effect of activity restrictions, but the take-up was not high.



- 26. The financial authorities continued to move forward with enhancing its AML/CFT framework, but challenges remain. It appears to have been difficult during the pandemic to increase the on-site inspections, and the costs of implementing the new AML law is said to be high for both regulators and banks, including costs of litigation between the banks and offboarded customers. The authorities have strengthened their risk-based approach to financial sector supervision and increased frequency of AML/CFT inspections of banks, including branches of foreign banks. A more active enforcement approach, including continuing application of penalties, is needed. In addition, Norway is looking to further buttress an already robust legal framework that has supported proactive enforcement against transnational corruption. In a positive step, Norway has volunteered for assessment with respect to transnational aspects of corruption (i.e., supply and facilitation), which shall be conducted as part of the country's next AIV consultation.
- **27. Norway is committed to making financial intermediation compatible with climate goals.** It has endorsed the EU's objectives of reorienting capital towards sustainable investment, managing financial risks stemming from climate change, and fostering transparency in financial and

economic activity. The Ministry of Finance has established a sustainable finance reference group to facilitate closer dialogue and information exchange between the shareholders. Norges Bank and Finanstilsynet participate in a network of central banks and supervisory bodies (Network for Greening the Financial System) which aims to contribute to the development of environment and climate risk management in the financial sector, and to mobilize mainstream finance to support the transition toward a sustainable economy. Norges Bank has conducted initial studies in estimating the impact of a higher carbon price together with effects of physical risks on banks (Annex V). Norwegian companies' sustainability and climate risk disclosures are expected to become more compatible with the EU regulation. Also, companies, as part of their corporate reporting, would disclose how they are affected by and manage climate risk, as well as the impact of their activities on climate and environment.

Authorities' Views

28. The authorities broadly concurred with staff's assessment. While there is a risk that a tightening cycle could lead to adverse impact on balance sheets, banks' strong capital buffers should provide adequate safeguards. In a scenario of pressures on households, a decline in consumption is more likely than outright defaults. The authorities consider the current extension of mortgage regulation limits as a step to protect the system, while other forms of interventions, like expanding housing supply, face both regulatory and supply chain bottlenecks.

D. Structural Policies

- 29. Barring short-term risks, policies should be reoriented towards addressing longstanding structural challenges that impede the growth potential (Annex VI). Staff recommend taking more decisive steps in the following areas:
- Encourage timely restructuring and resource reallocation: While bankruptcies have not increased, the insolvency regime should continue to be improved, given that structural shifts such as digital and green transitions are likely to force some businesses to restructure or close. To ensure a smooth reallocation of resources, adjustments could be made to the current framework that tends to over-penalize failing businesses. Efficiency improvements are already underway through further digitalization, introducing provisions to rapidly freeze assets and collect information from banks, and utilizing the automated process using public registries. The time to discharge (i.e., the number of years a bankrupt entity must wait until they are discharged from pre-bankruptcy indebtedness) should be reduced (OECD, 2021). In addition, there is merit in enhancing the tools for insolvency prevention and setting up special procedures for SMEs. On the regulatory side, staff's long-standing recommendation is to relax land-use restrictions which could facilitate more productive utilization (FSAP, 2020).

- Reduce participation in the social benefit system: ⁷ The pandemic exacerbated the situation, with an increasing number of young beneficiaries in the system being at risk of remaining out of the labor force over a long term. Previous recommendations remain relevant: (i) tighten eligibility criteria and certification procedures; (ii) enhance education and retraining programs for beneficiaries, especially for those with more limited employment opportunities; and (iii) reduce benefit levels, which are high compared to peer countries. While there has been more spending on retraining programs, this does not appear to have produced a meaningful decline in the benefit program participants, though efforts may have been complicated by the pandemic.
- Further diversify the labor force and its skills: Given the structure of the Norwegian economy, labor force participation requires advanced technical skills. To enable as many people as possible to join the labor force, investment is necessary from an early age. The authorities' key priorities include preventing youth from dropping out of upper secondary education and enabling adults to engage in lifelong learning. The employment rate has been weak for core labor market groups. Compared to other European countries, the employment rate for men during their most economically active years (25–54) was below the OECD average in 2019. It is also a cause of concern that completion rates in vocational upper secondary education programs are at the bottom of the OECD group. In order to facilitate longer working life, it is important to ensure that youth complete and progress more swiftly through their education and into the labor force. While progress has been limited, there are continuous efforts by social partners to increase the number of apprenticeship spaces. Hopefully, the new Integration Act that came into force in January 2021 will produce encouraging results in incorporating immigrants into the labor market.
- Close remaining digitalization gaps: Norway remains one of the highly digitalized countries in Europe, but a few gaps persist. The 1000Mbos fixed broadband take-up by the households have gone up to almost 50 percent against the EU's 34 percent. The fast broadband and very high-capacity coverage have also increased sizably. Recently there have been more graduates in ICT and specialists entering the workforce. A survey of business leaders indicates that the need to replace old technology with new was one of the three most important factors that influence company's investment decisions (Nordea, 2021). Businesses have increased e-Invoicing to 65 percent. However, the e-Commerce turnover as percentage of SME turnover has declined from 22 percent to 14 percent in 2020, possibly affected by the pandemic. The share of enterprises providing ICT training has also declined, and so has the share of females employed in the sector. Norway ranks below the EU average (51 vs 78 percent of maximum score) in the Open data category which indicates the public's access to data and its ability to contribute to improvements in providing public service.

⁷ Among OECD countries, Norway has the largest proportion of the population on health-related benefits and underperforms other countries when including people with functional impairments in the labor force. Functional impairments do not necessarily mean a reduced fitness for work (Ministry of Finance, 2021).

30. At COP-26 Norway has restated commitment to its already ambitious climate agenda. It plans to double its climate financing to more than USD 1.6 billion by 2026, thus contributing significantly to reaching the USD 100 billion overall target set in Paris by developed countries. As part of its contribution, it will, as a minimum, triple its financing for adaptation. Norway's plans to engage with development partners to help finance their transition to renewable energy and launch a new Climate Investment Initiative to fund renewable energy in developing countries is welcome. This will support investments that can help phase out coal and other fossil sources and develop and export new technology that can be of use beyond its borders. The government believes that research and innovation are key to becoming a low-emission society (The Long-Term Plan for Research and Higher Education 2019–28). Norway is well-positioned to take a lead in developing ocean-based solutions such as offshore wind; green shipping; carbon capture, utilisation, and storage; hydrogen, and electric mobility. One of GPFG's long-term objectives is net-zero emissions from the companies it invests in. Norway is at the forefront of vehicle electrification, and it is now assumed that about half of the passenger cars will be at zero emissions by 2030 (Climate plan, 2021–30). In this respect, recalibrating the tax incentives in a way that would incentivize the replacement of the most polluting conventional cars by electric vehicles in a revenue-neutral way could significantly improve their environmental benefits and cost effectiveness.

Authorities' Views

31. The authorities generally agreed with assessment of structural issues. The most pressing matter remains supporting the youth, low-income, and foreign-born through effective education and training programs to facilitate their entry into the labor force. Dampening the inflow into the sickness benefit scheme and the disability scheme is also urgent, as Norway has a higher number on such benefits than most other countries. Labor force participation has increased, and they view the tight labor market and record high number of vacancies as an opportunity for the discouraged workers to enter the labor force. The shortage of migrant labor, in particular in the services and construction sectors, which was initially due to limits in entry requirements is a concern. However, the authorities note that the inflow of migrant labor has recently picked up, but not to the same levels as before the pandemic. On climate policies, the authorities agreed that they are broadly on track, but given recent developments in the energy sector, an acceleration in the implementation of the measures may be needed even if Norway is among the lowest emitters.

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32. Due to strong fundamentals, Norway exited the pandemic with nearly no scarring, and risks are balanced in the short term. Ample policy space provides room to mitigate adverse shocks. Growth prospects are favorable, but there are challenges ahead in dealing with long-term issues, including demographics, inclusion, and climate change. The outlook is subject to risks, mostly coming from adverse external conditions. The authorities should continue to remain vigilant and

⁸ Data remains adequate for surveillance (see Informational Annex).

adjust flexibly to the changing environment. Norway's external position is assessed to be broadly in line with fundamentals.

- 33. Fiscal management has been strong and accommodative within the fiscal rules, but over the medium term a return to a neutral fiscal stance should be targeted. The 2022 budget aims at a reduction in deficit. However, a tighter fiscal policy is needed to counter the risks of overheating. Expansion of green transition and technologies is welcome. Norway is in a strong position to be able to provide support to households to compensate for high electricity prices, but this should be targeted rather than across-the-board.
- 34. The challenges ahead relate to adverse demographics trends and the transition away from oil, which, if unaddressed, may put a serious strain on public finances. To contain spending going forward, further strengthening their fiscal framework could be considered by complementing it with a medium-term expenditure framework guided by an operational rule. Reforms that increase labor supply (including changes to sickness and disability benefit scheme) could improve the macroeconomic outlook, but more is needed to improve long-term fiscal sustainability. Also, it would be key to promote improvements in the quality and cost efficiency of public services delivery.
- Monetary policy should continue to balance overheating risks and financial stability. The policy rate has been raised in a timely manner to address the risks, and high uncertainty surrounding the outlook calls for continued flexibility in decision making accompanied by clear communication. Providing the Norges Bank with new policy setting powers on CCyB are a welcome addition to its regulatory toolkit. Norway's advances in testing the CBDC are in line with global trends.
- 36. Risks to financial stability appear to be broadly manageable. A sharp tightening of global financial conditions will put pressure on balance sheets. However, the banking system is well capitalized and should withstand the potential shock, despite the high level of household debt and exposure to commercial real estate. It is commendable that steps continued to be taken to improve data collection, but more could be done to broaden the toolkit for mitigating CRE vulnerabilities. While house price growth moderated and will probably recede more in light of interest rate increases, efforts should still continue to alleviate the constraints on the supply of new housing. Also, consideration should be given to a gradual phase out of mortgage interest deductibility. While bankruptcies have been low, there is room to enhance the framework to facilitate the exit for businesses, especially SMEs. The application of the new AML/CFT law is welcome, including increased frequency and coverage of inspections. To mitigate cybersecurity risks, the authorities are rightly testing critical infrastructure and are working with the private sector, encouraging them to boost cyber security capabilities.
- **37**. Longer-term structural policy agenda should be wide-ranging. Structural reforms should more strongly focus on boosting and diversifying labor force participation, including among vulnerable groups, raising non-oil productivity, including by reducing school dropouts, upskilling, and changing the sickness and disability benefit system. It would be important to implement the

provisions under the new Integration Act to give more opportunities to immigrants. Closing remaining digitalization gaps will help further improve productivity.

- **38. Norway is actively promoting climate adaptation and mitigations strategies, including globally.** Plans to support innovation and digitalization for increased climate-smart productivity within agriculture, strengthen the ability of low-income countries to adapt to climate change, as well as manage climate-related risks, fund research, technology, and innovation by actively involving Norwegian and international research communities are welcome. Current efforts to achieve climate mitigation objectives through 2030 are appropriately centered on carbon taxation and other important initiatives such as research and development of carbon capture options. Norway also endorsed the EU's objectives of reorienting financial capital towards sustainable investment, managing financial risks stemming from climate change, and fostering transparency in financial and economic activity.
- 39. It is proposed that the next Article IV consultation with Norway be held on the standard 12-month cycle.

Table 1. Norway: Selected Economic and Social Indicators, 2019–24

Population (2021): 5.4 million Per capita GDP (2021): US\$ 89,041.6 Main products and exports: Oil, natural gas, fish (primarily salmon) Quota (3754.7 mil. SDR/0.78 percent of total) Literacy: 100 percent

					ojection	
	2019	2020	2021	2022	2023	2024
Real economy						
Real GDP (change in percent)1/	0.7	-0.7	3.9	3.6	2.6	2.2
Real mainland GDP (change in percent)	2.0	-2.3	4.1	3.7	2.1	2.0
Final Domestic demand	2.3	-3.6	3.4	4.6	2.3	2.1
Private consumption	1.1	-6.6	4.9	5.8	2.3	2.0
Public consumption	1.3	1.8	3.8	1.6	1.3	1.7
Gross fixed capital formation	6.3	-3.6	0.0	5.7	3.7	2.6
Exports	4.7	-8.2	5.4	3.6	3.1	2.4
Imports	5.7	-12.1	3.0	7.0	3.6	2.2
Total Domestic demand (contribution to growth) 2/	1.2	-4.3	3.7	5.2	2.6	2.2
Net exports(contribution to growth)	-0.9	2.5	0.3	-1.5	-0.5	-0.2
Unemployment rate (percent of labor force)	3.7	4.6	4.4	3.9	3.8	3.7
Output gap (mainland economy, - implies output below potential)	0.2	-2.1	0.3	0.8	0.2	0.1
CPI (end of period)	1.4	1.4	5.3	4.7	3.5	2.5
Core Inflation (end of period)	1.8	3.1	1.8	3.4	3.3	2.8
Public finance						
Central government (fiscal accounts basis)						
Non-oil balance (percent of mainland GDP)	-7.4	-12.2	-11.3	-8.6	-8.4	-8.4
Structural non-oil balance (percent of mainland trend GDP) 3/	-7.3	-11.4	-10.8	-10.3	-9.4	-9.3
Fiscal impulse	-0.1	4.1	-0.6	-0.5	-0.9	-0.1
in percent of Pension Fund Global Capital 4/	-2.7	-3.6	-3.2	-2.9	-2.7	-2.6
General government (national accounts definition, percent of mainland GDP)					
Overall balance	7.7	-3.2	11.5	27.8	23.1	20.3
Non-oil balance (percent of mainland GDP)	-8.0	-13.3	-9.4	-9.0	-8.7	-8.7
Net financial assets of which: capital of Government Pension Fund Global (GPF-G)	392.4 329.2	423.0 358.5	456.8 377.7	425.3 352.2		429.3 363.5
Money and credit (end of period, 12-month percent change)						
Broad money, M2	4.2	12.1	10.4			
Domestic credit, C2	5.1	4.9	4.9			
Interest rates (year average, in percent)						
Three-month interbank rate	1.6	0.4	0.8			
Ten-year government bond yield	1.5	8.0	1.1			
Balance of payments (percent of total GDP)						
Current account balance	2.9	1.1	15.0	19.4	14.5	11.3
Balance of goods and services	1.7	-0.9	15.5	24.0	17.1	13.9
Terms of trade (change in percent)	-8.0	-16.7	42.7	14.7	-8.1	-5.6
International reserves (end of period, in billions of US dollars)	65.0	73.6	83.0	83.0	83.0	83.0
Gross national saving	32.8	31.4	40.3	43.6	40.2	37.7
Gross domestic investment	29.9	30.3	25.3	24.2	25.6	26.4
Exchange rates (end of period)						
Bilateral rate (NOK/USD), end-of-period	8.8	9.4	8.6			
Nominal effective rate (2010=100)	81.7	76.2	80.5			
Real effective rate (2010=100)	83.7	78.2	83.1			
Memo: Nominal GDP (in Billions of US Dollars)	404.9	362.2	482.2	504.7	486.4	⊿ 95 1
Sources: Narwagian Authorities: International Financial Statistics: United Natio	+U4.3	JUZ.Z	704.4	304.7		→ ୬ ୬

Sources: Norwegian Authorities; International Financial Statistics; United Nations Development Programme; and IMF staff calculations.

^{1/} Based on market prices which include "taxes on products, including VAT, less subsidies on products".

^{2/} Includes the contribution from the mainland GDP residual.

^{3/} Authorities' key fiscal policy variable; excludes oil-related revenue and expenditure, GPFG income, as well as cyclical effects. Non-oil GDP trend estimated by MOF.

^{4/} Over-the-cycle deficit target: 3 percent of Government Pension Fund Global.

Table 2. Norway: Medium-Term Indicators, 2020–27

					Proje	ections		
	2020	2021	2022	2023	2024	2025	2026	2027
Real GDP (change in percent)	-0.7	3.9	3.6	2.6	2.2	1.6	1.3	1.3
Real mainland GDP	-2.3	4.1	3.7	2.1	2.0	1.8	1.8	1.8
Real Domestic Demand (change in percent)	-4.5	3.0	4.6	2.3	2.2	1.9	1.5	1.6
Public consumption	1.8	3.8	1.6	1.3	1.7	1.7	1.7	1.7
Private consumption	-6.6	4.9	5.8	2.3	2.0	2.0	2.0	2.0
Gross fixed investment	-5.6	-0.9	4.3	3.2	3.1	2.3	0.9	0.9
Trade balance of goods and services (contribution to growth)	3.7	1.0	-0.6	0.3	0.2	-0.2	-0.2	-0.2
Exports of goods and services	-1.2	4.7	3.7	3.9	2.3	1.3	1.4	1.5
Mainland good exports	-2.5	6.7	1.2	2.8	2.4	2.4	2.4	2.4
Imports of goods and services	-11.9	2.3	6.4	3.4	2.2	2.2	2.2	2.3
Potential GDP (change in percent)	1.6	1.4	3.2	3.1	2.4	1.7	1.3	1.3
Potential mainland GDP	-0.1	1.6	3.2	2.7	2.1	1.9	1.8	1.8
Output gap (percent of potential mainland GDP)	-2.1	0.3	8.0	0.2	0.1	0.0	0.0	0.0
Labor Market (percent)								
Employment	-0.5	2.4	1.5	1.1	0.9	8.0	0.8	0.5
Unemployment rate LFS	4.6	4.4	3.9	3.8	3.7	3.7	3.7	3.7
Prices								
GDP deflator	-3.6	16.9	12.8	-1.9	0.1	0.5	0.6	8.0
Consumer prices (eop)	1.4	5.3	4.7	3.5	2.5	2.5	2.0	2.0
Core inflation (eop)	3.1	1.8	3.4	3.3	2.8	2.5	2.0	2.0
Fiscal Indicators (percent of mainland GDP)								
Central government non-oil balance	-12.2	-11.3	-8.6	-8.4	-8.4	-8.5	-8.5	-8.6
General government fiscal balance	-2.9	12.2	28.8	24.1	21.2	18.6	16.9	15.3
of which: overall revenue	62.7	74.6	89.5	84.6	81.7	79.1	77.4	75.8
of which: overall expenditure	65.6	62.4	60.7	60.5	60.5	60.5	60.5	60.5
External Sector								
Current account balance (percent of mainland GDP)	1.2	19.0	26.5	18.9	14.3	11.5	9.3	7.6
Current account balance (percent of GDP)	1.1	15.0	19.4	14.5	11.3	9.3	7.6	6.3
Balance of goods and services (percent of mainland GDP)	-0.9	15.5	24.0	17.1	13.9	11.2	9.2	7.4
Mainland balance of goods	-12.2	-11.2	-18.0	-17.7	-17.1	-16.6	-16.4	-16.1
Crude Oil Price	41.8	69.4	99.9	83.5	77.8	74.1	71.8	70.3

Sources: Norwegian Authorities; and IMF staff calculations.

Table 3. Norway: External Indicators, 2019–27 Projections 2019 2020 2021 2022 2023 2024 2025 2026 2027 Current account balance (percent of GDP) 2.9 1.1 15.0 19.4 14.5 11.3 9.3 7.6 6.3 Balance of goods and services 1.5 -0.8 12.3 17.6 13.2 11.0 9.0 7.5 6.2 Balance of goods 3.2 -0.9 11.7 16.2 13.2 11.5 10.0 8.9 7.9 Balance of services -1.7 0.0 0.5 1.4 0.0 -0.6 -1.0 -1.3 -1.7 41.8 40.2 38.7 Exports 36.3 32.2 41.6 46.8 43.6 39.4 Goods 25.5 22.6 33.0 36.9 34.4 33.0 31.6 30.9 30.2 of which oil and natural gas 13.0 10.3 20.8 29.7 27.0 25.3 23.6 22.5 21.5 Services 10.7 9.6 8.5 9.9 9.2 8.8 8.6 8.5 8.5 34.8 33.1 29.3 29.3 30.4 30.9 31.2 31.9 Imports 32.5 Goods 22.4 23.5 21.3 20.7 21.2 21.4 21.6 22.0 22.3 Services 12.4 9.6 8.0 8.6 9.2 9.4 9.6 9.9 10.1 Balance on income 1.4 2.0 2.7 1.8 1.4 0.3 0.3 0.1 0.1 Capital account balance (percent of GDP) 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 Financial account balance (excluding change in reserves) (percent of GDP) -0.9 -1.3 12.2 19.4 14.5 11.3 9.2 7.6 6.3 Net direct investment -2.2 -1.9 2.1 -0.1 -0.5 -0.5 -0.5 -0.5 -0.5 2.0 1.4 4.7 4.7 4.7 4.7 Net portfolio investment 8.5 5.7 4.7 -0.6 -0.8 Net other investment 1.7 13.8 10.3 7.0 5.0 3.4 2.0 Net errors and omissions (percent of GDP) 3.8 1.2 1.7 0.0 0.0 0.0 0.0 0.0 0.0 Change in reserves (percent of GDP) 0.0 1.1 2.1 0.0 0.0 0.0 0.0 0.0 0.0 Stock of net foreign assets (IIP) (percent of GDP) 245.7 285.2 283.1 9.2 8.4 9.7 Direct investment, net Portolio investment, net 242.0 282.7 274.8 Other investment, net -22.1 -24.7 -19.4 Official reserves, assets 16.5 18.8 18.0 329.2 Government Pension Fund Global (percent of mainland GDP) 358.5 377.7

Sources: Statistics Norway, Ministry of Finance, and IMF staff calculations.

Revenue

Oil Related Revenue

Social Security

Interest

Expenditure

Interest

Overall Balance

Non-Oil Balance

Central Government

Non-oil Related Revenue

Oil Related Expenditure

Non-oil Expenditure

Social Security

Table 4. Norway: General Government Accounts, 2019–27 (NOK, and percent of mainland GDP) Projections 2019 2020 2021 2022 2023 2024 2025 2026 2027 General Government Percent of Mainland GDP Revenue 67.6 62.7 74.6 89.5 84.6 81.7 79.1 77.4 75.8 Oil Related Revenue 15.6 10.4 21.6 37.8 32.7 29.9 27.3 25.6 24.0 Non-oil Related Revenue 52.0 52.3 53.0 51.7 51.8 51.8 51.8 51.8 51.8 Social Security 12.5 12.7 12.4 12.2 12.2 12.2 12.2 12.2 12.2 3.3 3.0 2.2 3.0 Interest 2.8 Expenditure 60.0 65.6 62.4 60.7 60.5 60.5 60.5 60.5 60.5 Oil Related Expenditure 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 Non-oil Expenditure 60.0 65.6 62.4 60.7 60.5 60.5 60.5 60.5 60.5 Social Security 17.1 19.1 18.3 17.8 17.7 17.7 17.7 17.7 17.7 8.0 0.8 0.6 1.7 1.4 1.2 Interest 1.4 1.7 1.5 Overall Balance 7.7 -2.9 28.8 24.1 18.6 16.9 15.3 12.2 21.2 Non-Oil Balance -8.0 -13.3 -9.4 -9.0 -8.7 -8.7 -8.7 -8.7 -8.7 General Government Bil. NOK

2071.7

478.8

1592.9

382.9

99.7

1837.1

0.0

1837.1

524.2

25.2

234.6

-244.2

1908.3

316.4

1591.9

387.3

92.6

1996.5

0.0

1996.5

579.7

23.1

-88.2

-404.6

-3.6

2437.6

706.4

1731.3

406.8

71.8

2039.4

0.0

2039.4

596.9

18.8

398.2

-308.1

-3.2

3171.4

1339.6

1831.8

430.4

106.5

2150.0

0.0

2150.0

629.2

48.2

1021.4

-318.2

-2.9

3172.0

1228.3

1943.7

456.7

107.2

2269.4

0.0

2269.4

664.2 62.1

902.6

-325.7

-2.7

3208.4

1173.3

2035.0

478.1

109.7

2376.1

0.0

2376.1

695.4

66.1

832.3

-341.0

-2.6

3241.1

1118.6

2122.5

498.7

112.0

2478.2

0.0

2478.2

725.3

62.2

762.9

-355.7

-2.5

3291.4

1088.2

2203.2

517.7

114.1

2572.4

0.0

2572.4

752.9

57.8

719.0

-369.2

-2.4

3346.5

1059.6

2286.9

537.3

116.5

2670.2

0.0

2670.2

781.5

53.1

676.4

-383.2

-2.3

Structural Non-Oil Balance as % of GPFG -2.7
Sources: Norwegian Authorities: and IMF staff calculations.

(Percent)								
	2014	2015	2016	2017	2018	2019	2020	2021
Capital Adequacy								
Regulatory Capital to Risk-Weighted Assets	16.5	18.9	22.1	22.0	22.3	24.2	24.8	24.
Regulatory Tier 1 Capital to Risk-Weighted Assets	14.5	16.7	19.7	19.4	19.6	21.4	22.0	21.
Total Capital to Total Assets	8.6	9.8	10.6	10.6	11.3	11.3	11.2	10.
Asset Quality and Exposure								
Non-performing Loans to Total Gross Loans	1.1	1.1	1.2	1.0	0.7	0.8	0.7	0.
Non-performing Loans Net of Provisions to Capital	6.7	5.4	4.9	2.5	0.1	0.7	0.3	0.0
Earnings and Profitability								
Return on Assets	1.1	1.1	1.2	1.3	1.3	1.6	1.1	1.
Return on Equity	13.0	11.2	11.7	12.0	11.9	14.0	9.9	12.
Non-interest Expenses to Gross Income, percent	65.0	69.2	62.5	47.2	46.3	42.1	44.0	45.
Liquidity								
Liquid Assets to Total Assets (Liquid Asset Ratio)	6.3	5.1	10.0	8.8	8.2	10.0	9.8	14.
Liquid Assets to Short Term Liabilities	15.1	10.0	19.5	16.9	15.8	20.0	18.9	26.
Memorandum Items								
Change in Housing Price Index (in percent, year average)	2.7	6.1	7.0	5.0	1.4	2.5	3.9	10.
Total Household Debt (in percent of GDP)	93.5	100.1	106.4	106.2	104.0	108.9	120.1	107.
Total Household Debt (in percent of disposable income)	225.7	222.1	231.8	236.5	242.5	243.4	246.0	247.
Gross Debt of Non-financial Corporations (in percent of GDP)	131.6	145.5	160.2	138.1	131.6	146.3	161.7	0.

Annex I. External Sector Assessment

Overall Assessment: The external position of Norway in 2021 was broadly in line with what is implied by medium-term fundamentals and desirable policies, based on both the current account and REER assessments. Norway has sizable external buffers with a NIIP of more than 3.5 times mainland GDP.

Potential Policy Responses: External buffers provide significant time to address competitiveness issues as Norway gradually shifts away from its offshore activities. Fiscal and structural policies should aim to foster productivity growth, higher labor market participation, and wage moderation to enhance non-oil sector competitiveness. There is scope for greener and growth-enhancing private and public investments to facilitate structural transformation of the economy.

Foreign Assets and Liabilities: Position and Trajectory

Background. Norway's net international investment and reserve position remain strong. NIIP reached 359 percent of mainland GDP at end-2021, increasing from 320 percent in 2020. The general government is the main external creditor with net external assets of 358 percent of mainland GDP, notably the Government Pension Fund Global (GPFG), with assets under management reaching 3.6 times mainland GDP by end-2021. The financial sector remains the largest net external debtor given reliance on wholesale funding, at over 30 percent of GDP. International reserves have remained stable at a comfortable 22.8 percent of mainland GDP.

Assessment. The NIIP position is expected to remain strong and stable due to the sound management of GPFG's assets. Negative revaluation risks are mitigated by asset diversification.

2021 (percent	NIIP: 359	Gross Assets: 635	Res. Assets: 22.8	Gross Liab.: 274	Gross External Debt: 157
mainland GDP)					

Current Account

Background. Driven by large oil exports, the CA has been persistently strong, averaging 5 percent of total GDP over 2015–20. Mainland trade balance on the other hand remains dominated by imports, averaging near -11 percent of mainland GDP over 2015–20, despite the positive real growth of non-oil exports (near 1 percent average) over the same period. In 2021, primarily due to the negative impact of Covid-19 pandemic on imports of tourism and travel services, net real mainland exports grew by 41.6 percent; the total nominal trade balance increased to 12.3 percent of mainland GDP, compared to -0.8 percent in 2020. Overall, the current account increased to 15 percent of total GDP due to a large rebound in oil prices, helped also by an increase in the primary income balance. This increase reflects lower flows abroad due to postponed dividend and interest payments. It remains uncertain how persistent the impact of pandemic and the war will be, particularly on the tourism and oil balances. Staff's current assessment is that the larger share of these dynamics is only temporary, and a return to lower oil prices and resumption of travel activities is likely to bring the trade balance closer to its historical pattern.

Assessment. The current account is assessed to be broadly in line with what is implied by fundamentals and desirable policies. The cyclically adjusted 2021 CA per EBA calculations was 14.1 percent of GDP, while the EBA regression-estimated norm is 15.1 percent of GDP, suggesting a gap of -1 percent. After correcting for short-term pandemic effects (see technical note below1), the estimated gap becomes -2.5 percent. However, staff assesses that estimation of the EBA norm in Norway is prone to a significant bias due to Norway-specific characteristics (see technical note).² The estimated bias exceeds 3.1 percent of GDP, bringing the overall CA gap to 0.66 percent.

Norway: Model Estimates for 2021 (in percent of GDP)							
	CA model	REER model	ES model				
CA-Actual	15						
Cyclical Contributions (from model)	1.2						
Additional temporary/statistical factors							
Adjusted CA	14.1						
Adjusted CA Norm	15.1						
CA gap	-1	-3.6	-7.3				
o/w Policy gap	-0.4						
Staff Gap 1/	0.66						
Adjustors	1.66						
Elasticity	0.3						
REER Gap 2/	3.4	12	24.3				
1/ Includes Covid-19 and measurement bias	adjustors						
2/ Calculated using the inverse elasticity on the	ne CA gap, with	out including any	adjustors.				

Real Exchange Rate

Background. The krone floats freely against other currencies. Norges Bank has not intervened in FX markets since 1999, with a brief exception in March 2020, owing to extraordinary market turbulence spurred by the pandemic. The central bank has indicated that it remains ready to intervene if the exchange rate deviates substantially from fundamentals. At the end of 2021, Norges Bank reserves were at 22.8 percent of mainland GDP.

Assessment. Reserves are ample even considering the exposure of banks to wholesale funding and risks of regional macro-financial shocks (imports are less than 35 percent of total GDP and there is no GG short-term financing risk thanks to the large pension fund).³ Further, Norges Bank has expanded swap agreements with the Fed and Nordic central banks to bolster market confidence.

Capital and Financial Accounts: Flows and Policy Measures

Background. Flows, both outgoing and incoming, mainly span Nordic and EU countries. With banks' heavy reliance on wholesale funding—accounting for about half of total banks' funding—and about half of wholesale funding from foreign sources, banks are vulnerable to turbulence in foreign financial markets.

Assessment. Financial account vulnerability is low, but the banking sector's reliance on external wholesale funding remains a source of vulnerability. The increase of duration in part of the funding structure is a positive development.

FX Intervention and Reserves Level

Background. The krone floats freely against other currencies. Norges Bank has not intervened in FX markets since 1999, with a brief exception in March 2020, owing to extraordinary market turbulence spurred by the pandemic. The central bank has indicated that it remains ready to intervene if the exchange rate deviates substantially from fundamentals. At the end of 2021, Norges Bank reserves were at 22.8 percent of mainland GDP.

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- 1\ Particularly mainly due to travel (i.e., Norwegians unable to travel abroad) and other covid-related factors; the corresponding adjustments to the norm are estimated at -1.44 percent.
- 2\ There are several sources of bias: (i) the large size and particular composition of Norway's foreign assets (tilted towards portfolio equity) makes the country's CA balance particularly prone to the portfolio equity retained earnings bias, which is estimated to be around 3.1 percent of GDP for Norway. In addition, estimated IIP valuation changes averaged around 8.8 percent of GDP over the 2015–20 period, which inflate the amount of dividend yields estimated as part of the CA norm and lead to a sizable overstatement of the CA norm; (ii) productivity of the non-oil sector is lower than implied by average productivity; and (iii) oil affects the norm considerably, but the adequacy of the econometric specification is doubtful.
- 3\ Standard reserves adequacy metrics are not adequate for the case of Norway given its large pension fund which is mostly invested in foreign markets and is fully diversified away from oil markets.

Annex II. Risk Assessment Matrix¹

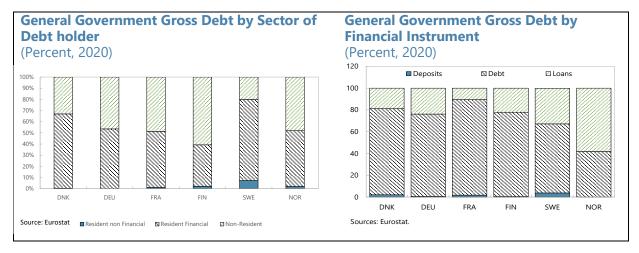
Source of Risks and Relative Likelihood (High, medium, or low)	Impact if Risk is Realized (High, medium, or low)	Policy Response
	Global	
Medium Outbreaks of lethal and highly contagious Covid-19 variant. Rapidly increasing hospitalizations and deaths due to low vaccine protection or vaccine-resistant variants force more social distancing and/or new lockdowns. This results in extended supply chain disruptions and a reassessment of growth prospects, triggering capital outflows, financial tightening, currency depreciations, and debt distress in some EMDEs.	Low The recovery is delayed with scarring effects amplifying vulnerabilities in the private sector. More layoffs lead to a considerable increase in unemployment and labor market hysteresis, which will weigh on productivity growth. Firms' liquidity problems translate into insolvencies while highly leveraged corporates may experience significant stress, leading to higher credit spreads, potential downgrades, inability to refinance debt, and defaults. Banks' asset quality deteriorates, resulting in capital shortfalls, thus impairing the lending channel with further adverse implications to growth. Attendant supplyside disruptions would weigh on domestic industrial activity.	Reassure that adequate support to the broader economy and the health system. Given ample fiscal space and the possibility for better targeting, the policy mix should rely primarily on fiscal policy – aiming to support households and businesses to overcome liquidity needs and limit scarring, while encouraging necessary reallocation of resources. Norway's fiscal risks remain fundamentally low due to the world's largest SWF, low government debt levels (around 40 percent of GDP), and AAA sovereign rating.
Medium/Low De-anchoring of inflation expectations in the U.S. and/or advanced European economies. Worsening supply-demand imbalances, higher commodity prices (in part due to war in Ukraine), and higher nominal wage growth lead to persistently higher inflation and/or inflation expectations, prompting central banks to tighten policies faster than anticipated. The resulting sharp tightening of global financial conditions and spiking risk premia lead to lower global demand, currency depreciations, asset market selloffs, bankruptcies, sovereign defaults, and contagion across EMDEs.	Low Norges Bank already started monetary policy normalization. Bank capital adequacy is high. A need for additional tightening may have some adverse spillovers to corporate and household sectors through higher debt service and reduced demand.	Stand ready to implement further policy support. Maintain flow of credit by making sure financial policies are adequately targeted and effectively deployed. The guaranteed scheme for bank loans to businesses could be extended as needed. Norway's extremely large SWF, low government debt levels, and AAA rating suggest limited fiscal risks in response to a rise in global risk premia.

¹ The Risk Assessment Matrix (RAM) shows events that could materially alter the baseline path. The relative likelihood is the staff's subjective assessment of the risks surrounding the baseline ("low" is meant to indicate a probability below 10 percent, "medium" a probability between 10 and 30 percent, and "high" a probability between 30 and 50 percent). The RAM reflects staff views on the source of risks and overall level of concern as of the time of discussions with the authorities. Nonmutually exclusive risks may interact and materialize jointly. The conjunctural shocks and scenario highlight risks that may materialize over a shorter horizon (between 12 to 18 months) given the current baseline. Structural risks are those that are likely to remain salient over a longer horizon.

Source of Risks and Relative Likelihood	Impact if Risk is Realized	Policy Response
High, medium, or low) High Russia's invasion of Ukraine leads to escalation of sanctions and other disruptions. Sanctions on Russia are broadened in line with the EU to include oil, gas, and food sectors. Russia is disconnected almost completely from the global financial system and large parts of the trading system. This, combined with Russian countersanctions and secondary sanctions on countries and companies that continue business with Russia, leads to even higher commodity prices, refugee migration, tighter financial conditions, and other adverse spillovers, which particularly affect LICs and commodity-importing EMs.	(High, medium, or low) Medium/Low Norway is one of the largest oil producers so it will benefit from oil price increases. Higher disruptions would dampen exports and investment and weaken growth.	Provide monetary and fiscal support as needed.
High Geopolitical tensions and deglobalization. Intensified geopolitical tensions, security risks, conflicts, and wars cause economic and political disruptions, fragmentation of the international monetary system, production reshoring, a decline in global trade, and lower investor confidence.	Medium Higher disruptions and barriers to trade would dampen exports and investment and weaken growth.	Provide monetary and fiscal support, implement labor market reforms, and enhance bankruptcy regime to facilitate sectoral reallocation of labor and capital.
High Rising and volatile food and energy prices. Commodity prices are volatile and trend up amid supply constraints, war in Ukraine, export restrictions, and currency depreciations. This leads to short-run disruptions in the green transition, bouts of price and real sector volatility, food insecurity, social unrest, and acute food and energy crises (especially in EMDEs with lack of fiscal space).	Low Norway is one of the largest oil producers so it will benefit from oil price increases. It can offset higher domestic energy prices with the revenue windfalls.	Continue to save windfall revenue and provide targeted support to the most vulnerable households.
Cyberthreats. Cyberattacks on critical physical or digital infrastructure (including digital currency platforms) trigger financial instability or widespread disruptions in socio-economic activities.	Medium Norway is one of the most digitalized economies, cyberattacks could significantly impair the functioning of the financial system and economy, in general.	As per FSAP recommendations, make processes for cybersecurity risk supervision and oversight more structured and comprehensive. Establish incident reporting and crisis management frameworks for systemic cyber incidents (Annex IV).
	Domestic	
Medium Significant property price decline in Norway due to structural changes. Price declines could possibly affect commercial property markets and/or residential property.	Medium: Investment and collateral values for lending could be undermined by sizable falls in commercial property prices. Loan quality impacted, primarily of firms serving domestic market. Lending could be curtailed if doubts about the quality of covered bonds rise elevating bank funding costs. Given the banks' high exposure to CRE, NPLs could increase significantly.	Monitor recent developments through better data collections and supervise banks commercial real estate lending closely; consider broadening the toolkit for mitigating CRE vulnerabilities. In the event, provide funding support to banks.

Annex III. Public Debt Sustainability Assessment

1. Summary: Public debt sustainability risks remain low due to the high net worth of government (reflecting a large sovereign wealth fund and a low stock of gross public debt). The debt-to GDP ratio in 2021 stood at 43.2, declining from 46 percent of GDP in 2020. In terms of the debt structure, about half of the debt is held by non-residents, and about 40 percent is in the form of debt securities.



- **2. Baseline scenario:** Recovery continues in the short-term, and then real GDP growth subsides and converges to potential growth over the medium-term. In terms of fiscal policy, a more conservative adherence to the fiscal rule is assumed over the medium-term. Public debt is projected to decline this year and stabilize over the coming years, at about 37 percent of GDP by 2027, returning to pre-pandemic levels. Oil revenues inflows are expected to remain elevated during the projection period, reducing gross financing needs.
- **3. Stress tests:** Adverse growth, interest-rate, financing-needs shocks, and combined shocks affect debt trajectories only in levels, but debt as percent of GDP will keep declining, or at worst stabilize, despite the shocks.

Annex III. Figure 1. Norway: Public Sector Debt Sustainability Analysis—Baseline Scenario

(In percent of GDP unless otherwise indicated)

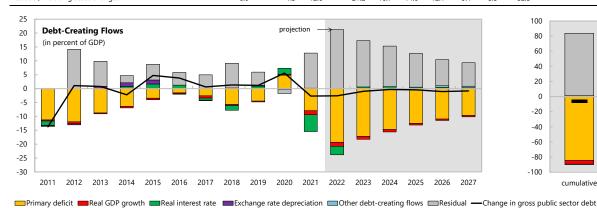
Debt, Economic and Market Indicators 1/

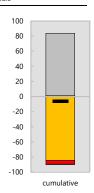
	Actual			Projections				As of July 01, 2022				
	2011-2019 2/	2020	2021	2022	2023	2024	2025	2026	2027	Sovereign	Spreads	
Nominal gross public debt	34.0	45.9	43.2	40.6	39.6	39.3	38.9	37.8	37.0	EMBIG (bp) 3/	166
Public gross financing needs	-5.1	12.6	0.4	-19.4	-14.8	-12.7	-10.3	-9.0	-7.9	5Y CDS (b)	o)	13
Real GDP growth (in percent)	1.5	-0.7	3.9	3.6	2.6	2.2	1.6	1.3	1.3	Ratings	Foreign	Local
Inflation (GDP deflator, in percent)	2.1	-3.6	16.9	8.8	-0.1	-0.3	0.2	0.6	0.9	Moody's	Aaa	Aaa
Nominal GDP growth (in percent)	3.7	-4.3	21.4	12.8	2.4	1.9	1.8	1.8	2.3	S&Ps	AAA	AAA
Effective interest rate (in percent) 4/	2.5	1.6	1.5	1.2	1.4	1.5	1.6	1.7	1.8	Fitch	AAA	AAA

Note

Contribution to Changes in Public Debt

	A	Actual			Projections						
	2011-2019	2020	2021	2022	2023	2024	2025	2026	2027	cumulative	debt-stabilizing
Change in gross public sector debt	-0.3	5.6	-2.7	-2.6	-1.0	-0.3	-0.4	-1.1	-0.8	-6.2	primary
Identified debt-creating flows	-6.3	7.1	-15.3	-23.8	-17.7	-14.9	-12.6	-10.4	-9.3	-88.7	balance 9/
Primary deficit	-6.2	4.9	-7.9	-19.4	-17.2	-14.7	-12.5	-11.0	-9.7	-84.5	0.4
Primary (noninterest) revenue and grants	52.4	51.8	55.6	63.9	63.1	61.9	60.8	60.2	59.6	369.5	
Primary (noninterest) expenditure	46.2	56.6	47.6	44.5	45.9	47.1	48.3	49.2	49.9	284.9	
Automatic debt dynamics 5/	-0.1	2.2	-7.4	-4.4	-0.4	-0.2	-0.1	-0.1	-0.2	-5.3	
Interest rate/growth differential 6/	-0.4	2.5	-7.5	-4.4	-0.4	-0.2	-0.1	-0.1	-0.2	-5.3	
Of which: real interest rate	0.1	2.2	-6.1	-3.0	0.6	0.7	0.5	0.4	0.3	-0.5	
Of which: real GDP growth	-0.5	0.3	-1.5	-1.4	-1.0	-0.9	-0.6	-0.5	-0.5	-4.9	
Exchange rate depreciation 7/	0.4	-0.2	0.2								
Other identified debt-creating flows	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	1.2	
Drawdown of Deposits (negative)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	1.2	
Contingent liabilities	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Other	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Residual, including asset changes 8/	6.0	-1.5	12.6	21.2	16.7	14.6	12.1	9.4	8.5	82.5	





Source: IMF staff calculations.

- 1/ Public sector is defined as general government.
- 3/ Long-term bond spread over German bonds.
- 4/ Defined as interest payments divided by debt stock (excluding guarantees) at the end of previous year.
- $5/\ \ Derived\ as\ [(r-\pi(1+g)-g+ae(1+r)]/(1+g+\pi+g\pi))\ times\ previous\ period\ debt\ ratio,\ with\ r=interest\ rate;\ \pi=growth\ rate\ of\ GDP\ deflator;\ g=real\ GDP\ growth\ rate;\ rate\ ra$
- a = share of foreign-currency denominated debt; and e = nominal exchange rate depreciation (measured by increase in local currency value of U.S. dollar).
- 6/ The real interest rate contribution is derived from the numerator in footnote 5 as $r \pi$ (1+g) and the real growth contribution as -g. 7/ The exchange rate contribution is derived from the numerator in footnote 5 as ae(1+r).
- 8/ Includes asset changes and interest revenues (if any). For projections, includes exchange rate changes during the projection period.
- 9/ Assumes that key variables (real GDP growth, real interest rate, and other identified debt-creating flows) remain at the level of the last projection year.

Annex III. Figure 2. Norway: Public Debt Sustainability Analysis —Composition of Public **Debt and Alternative Scenarios Composition of Public Debt** By Maturity By Currency (in percent of GDP) (in percent of GDP) 50 50 ■ Medium and long-term Local currency-denominated 45 45 ■ Short-term Foreign currency-denominated 40 40 35 35 30 30 25 25 20 20 projection projection ->> 15 15 10 10 5 5 0 0 2011 2013 2015 2017 2019 2021 2023 2025 2027 2013 2015 2021 2023 2027 **Alternative Scenarios** ····· Historical Baseline Constant Primary Balance **Gross Nominal Public Debt Public Gross Financing Needs** (in percent of GDP) (in percent of GDP) 90 30 80 20 70 60 10 50 0 40 30 -10 20 -20 10 projection \longrightarrow projection 0 -30 2027 2020 2021 2022 2023 2024 2025 2026 2020 2021 2024 2025 2026 2027 **Underlying Assumptions** (in percent) **Baseline Scenario** 2022 2023 2024 2025 2026 2027 Historical Scenario 2024 2027 Real GDP growth Real GDP growth 1.6 Inflation -0.3 0.9 0.9 8.8 Inflation -0.3 Primary Balance 19.4 17.2 14.7 12.5 11.0 9.7 Primary Balance 19.4 4.8 4.8 4.8 4.8 4.8 Effective interest rate 1.2 1.4 1.5 1.6 1.7 1.8 Effective interest rate 1.2 1.5 1.6 1.8 1.9 **Constant Primary Balance Scenario** Real GDP growth 1.3 3.6 2.2 1.6 1.3 Inflation 8.8 -0.3 0.2 0.6 0.9 Primary Balance 19.4 19.4 19.4 19.4 19.4 Effective interest rate 1.2 1.5 1.7 1.7 Source: IMF staff calculations.



Annex IV. Status of 2020 FSAP Recommendations

Recommendations and Authority Responsible for Implementation	Time ¹	Status
Systemic Risk Oversight and Macroprudential Policy		
Develop and publish a macroprudential policy strategy. (MoF, Norges Bank, FSA)	ST	The authorities have expanded on key aspects of macroprudential policy in the Ministry's annual Financial Markets Reports.
Use existing triparty meetings more effectively to discuss risks and policy actions needed to address them. (MoF, Norges Bank, FSA)	I	The authorities have implemented some adjustments to facilitate candid and targeted exchanges on risks, and to better align the meeting schedule with planned policy decisions.
Give Norges Bank recommendation powers over macroprudential policy tools that can be relaxed under stress, with a comply-or-explain mechanism. (MoF)	I	The Government in September 2021 tasked Norges Bank to advise the MoF on the systemic risk buffer rate at least every other year.
Make key household sector measures permanent features of the framework. (MoF)	ST	While the mortgage regulation still requires renewal, it has now been implemented for 4 years, up from 1.5 years previously.
Consider broadening the toolkit for mitigating CRE vulnerabilities, including sectoral capital tools. (MoF)	MT	The MoF in December 2020 adopted a temporary floor for average risk weights for CRE exposures at 35 percent. With the implementation of the European Capital Requirements Directive (CRD5) framework in Norway in June 2022, it is now possible to implement sectoral systemic risk buffers, i.e. for CRE exposures. The MoF has not at this time assessed the need for sectoral systemic risk buffers.
Banking and Insurance Supervision		
Strengthen the FSA's prudential powers, operational independence, and budgetary autonomy. (MoF)	ST	The Government in September 2021 tasked a Commission to propose a new law replacing the existing Financial Supervision Act. The Commission shall discuss topics such as the FSAs organization, tasks, and tools. The Commission shall discuss the constitutional and administrative legal framework for the FSA, including the relationship between the Ministry and the FSA. The Commission may consider whether the Ministry's access to instruction in certain areas should be cut off or limited. The Commission is asked to consider in particular whether, in light of EEA-law, restrictions should be placed on the Ministry's access to instruction in certain areas. The Commission shall assess whether there are differences between supervisory tasks and the preparation and administration of regulations.
Expand review of banks' risks in supervisory activities to strengthen oversight over systemic foreign bank branches and domestic medium and small sized banks. (FSA)	ST	Finanstilsynet has strengthen internal guidelines for monitoring and supervising foreign branches and subsidiaries, and the supervisory teams responsible for foreign branches have been provided additional resources. Finanstilsynet has developed a new automatic tool which provides a risk dashboard for each institution on a quarterly basis, facilitating risk-based supervision of medium and small sized banks.

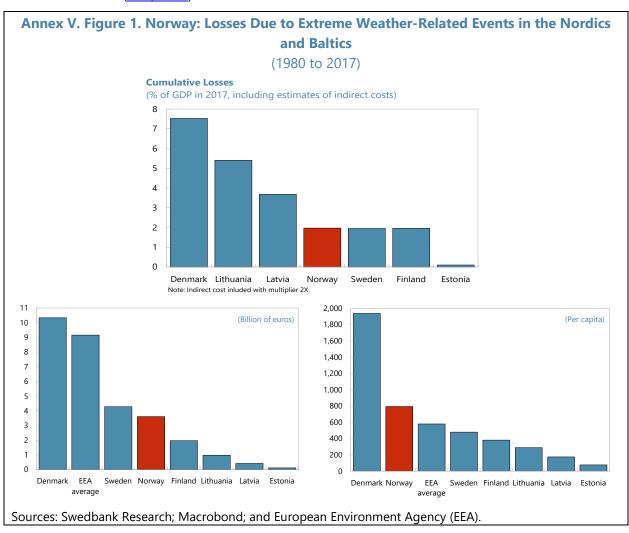
Recommendations and Authority Responsible for Implementation	Time	Status
Further enhance the oversight of banks' IRB models, in view of the implementation of CRD IV. (FSA)	I	Finanstilsynet has published a circular clarifying supervisory practice and expectations regarding IRB models and is following up on the circular.
Intensify oversight of banks' risk management of real estate loans and funding/liquidity conditions. (FSA)	ST	The FSA has improved the supervisory framework and will continue to intensify supervisory activities related to bank's risk management of real estate loans. The FSA has introduced new supervisory modules based on EBA Guidelines for loan origination and monitoring (EBA/GL/202/06) and supervisory experience. The guidelines from EBA aim to ensure that institutions have robust and prudent standards for credit risk taking, management and monitoring, and the update of the FSA's credit risk module in December 2021 has enhanced the supervisory toolbox for on sight inspections related to risk management of real estate loans. Further, the FSA has strengthened the requirements to the bank's reporting of exposures to non-financial firms ("ENG database"), i.e., more granular segmentation of CRE exposures in the largest banks. A thematic inspection of risk related CRE exposures, specifically loans secured by office premises, will be arranged in a selection of banks in second half of 2022. With regards to requirements for valuation of immovable properties the FSA published a Circular in September 2021 (Circular 5/2021), mainly focusing on valuation of residential mortgages.
Strengthen risk-monitoring of individual insurers. (FSA)	ST	A project has been established to further develop the Early Warning Risk Dashboard.
Complement EIOPA efforts with Norway- specific in-house stress tests of the whole insurance sector. (FSA)	MT	An EIOPA stress test was conducted in 2021. Finanstilsynet will consider if this stress test can be modified and applied to a larger share of the Norwegian market.
Cybersecurity Supervision		
Make processes for cybersecurity risk supervision and oversight more structured and comprehensive. (FSA, Norges Bank)	I	Finanstilsynet will consider how to strengthen the approach for cybersecurity risk supervision, and also consider if it is appropriate to provide further guidance on IT/ cybersecurity risk. Finanstilsynets work is still ongoing. Norges Bank is also in the process of establishing a more structured process for oversight and supervision. Important elements are annual risk-based planning, more active use of reports from third parties and self-assessments from FMIs. The introduction of the TIBER framework in Norway will contribute to the oversight of cyber risk in the payment system.

Recommendations and Authority Responsible for Implementation	Time	Status				
Establish incident reporting and crisis management frameworks for systemic cyber incidents. (FSA, Norges Bank)	ST	Norges Bank and Finanstilsynet have updated routines for reporting of incidents from FMIs to The Financial Infrastructure Crisis Preparedness Committee (BFI) in 2020. Finanstilsynet works closely with Nordic Financial CERT (NFCERT) on cyberattacks/incidents with "open line" and monthly status meetings. Finanstilsynet and BFI are looking to further enhance incident reporting and crisis management by leveraging the EBA Guidelines, the European Commission's Digital Operational Resilience Act, and the ESRB's work on systemic cyber risk. Finanstilsynet is revising the incident reporting framework, based on the revised EBA Guidelines. The crisis management handling by Finanstilsynet and BFI has been improved.				
Anti-Money Laundering / Countering Fin	ancing of T	Ferrorism (AML / CFT) Supervision				
Enhance AML/CFT supervision by increasing the frequency of targeted and thematic inspections and improving the risk-based approach and tools for AML/CFT risk assessments. (FSA)	ı	Full scope on-site inspections dedicated to AML/CFT, and off-site inspections are increasing. The risk-based approach has been adjusted and the risk classification model has been further developed.				
Ensure appropriate use of sanctions, including monetary penalties, for AML/CFT violations. (FSA)	I	The sanctioning power has been used as appropriate in cases of serious breaches. Several banks have been sanctioned (three banks were sanctioned in 2019, and one in 2020), and three cases are ongoing.				
Financial Crisis Management and Safety I	Nets					
Make the new resolution tools operational and strengthen the crisis preparedness framework. (FSA, MoF)	ST	Finanstilsynet is continuously working to enhance the crisis preparedness framework. In 2021 a new project, focused on developing a bail-in playbook, will be initiated. Finanstilsynet has initiated a new project, focused on preparing banks for deliverables required by the EBA guidelines on resolvability. This includes for banks to develop bail-in playbooks.				
Ensure BGF's integration into the broader resolution framework. (BGF, FSA).	ST	Discussions on draft MoUs between Norges Bank and BGF and Finanstilsynet are ongoing. Certain clarifications are being sought from the MoF. BGF also took part in a crisis simulation exercise together with Norges Bank, MoF and Finanstilsynet in April 2021.				
Systemic Liquidity						
Monitor banks' collateral eligible for central bank liquidity. (Norges Bank)	ST	Both Norges Bank and Finanstilsynet have access to databases containing information on banks' assets. Through our system for collateral management, detailed information is available on pledged securities, while information on other securities can be found in Finanstilsynet's Liquidity Reporting (ILAP). Norges Bank follows up potential mortgages by examining the liquidity in the Norwegian bond market both through a semi-annual survey and through issue and price data from commercial databases that are updated daily. Information about foreign mortgages is retrieved through general market insight, including information from Norges Bank's own management of foreign exchange reserves. Norges Bank is also establishing a model for analysis of cash flows in the banks.				

Recommendations and Authority Responsible for Implementation	Time	Status
Develop, test, and implement a mechanism for acceptance of mortgage loan collateral for emergency liquidity support to solvent banks. (Norges Bank)	ST	Norges Bank has initiated a project with the larger Norwegian Banks and Finance Norway to implement such a mechanism. The mechanism is currently being tested with five of the larger banks.
Financial Stability Analysis		
Upgrade data collection for risk monitoring to include more granular data on bank lending (including for commercial real estate), group mappings, and liquidity positions of foreign branches. (FSA, Norges Bank)	ST	More data on banks' CRE exposures will now be included in Finanstilsynet's enquire on banks' exposures to non-financial firms ("ENGA database"). In addition, Norges Bank will from 2021 on, subscribe to a novel private sector database that combines several sources of information, i.e., with help from algorithms, resulting in a by far more comprehensive data set on CRE for all Norwegian regions than has been available so far. Norges Bank has also started to exploit payment remarks data for quantitative analysis of credit risk on loans to non-financial companies. Finanstilsynet has developed new sector specific bankruptcy models (10 sectors), which as a by-product has expanded non-financial company coverage.
Improve collection and analysis of derivatives exposure data and analyze banks' margin arrangements. (FSA, Norges Bank)	ST	Norges Bank and Finanstilsynet are working on making more data on agents' derivatives contracts accessible and usable (EMIR data) and are collaborating to develop analysis and dashboards suitable for monitoring. Norges Bank is analyzing the effects of margining agreements; see Norges Bank Staff Memo 2/2021 for part of the analysis. Finanstilsynet has analyzed banks and insurance companies' derivatives exposures using EMIR-data.
I Immediate (within 1 year); ST Short term (1–3	3 years); MT	Medium Term (3–5 years)

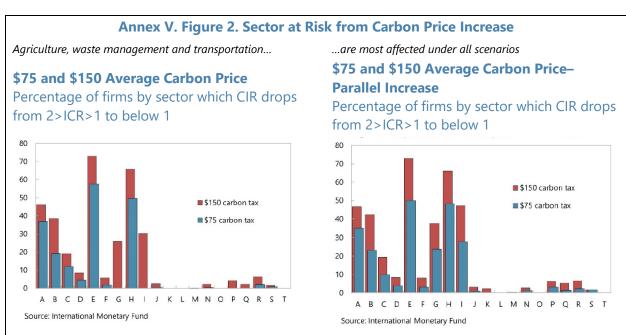
Annex V. Climate Adaptation and Mitigation: Assessing Risks to Banks

1. Thus far, the Nordic economies have been relatively spared from extreme weather events, but this is changing (Figure 1). The economic costs are expected to increase as climate change intensifies, affecting more parts of the planet, as the direct global costs of extreme weather events are constantly rising (Swedbank, 2021). Therefore, the negative impact of extreme weather on economic growth could be much larger in the future. Some of the effects of sudden extreme weather events can be mitigated by active adaptation. If risk mitigation is effective, the economic impact of these phenomena is likely to be reasonably small. The network for Greening the Financial System estimates that around 4 percent of global GDP will be lost in an "orderly transformation" to climate change by the end of the century (NGFS, 2020). However, if adaptation measures fail, the NGFS estimates that the impact from physical risk could increase to 25 percent of GDP by 2100; the ECB expects that the losses could be even bigger, as not all sources of physical risk are included in the NGFS scenario (ECB, 2021).



- 2. Banks are exposed to continuing changes in climate and increases in carbon taxes through their clients' balance sheets. The passthrough is not as clear, however, as climate-related events and risks are uncertain, and may be subject to non-linearities (BIS, 2021). Physical risks have been categorized into acute and chronic events, and while some aspects of those risks can be predictable, there is increasing uncertainty as to the location, frequency, and severity of these events. For transition risks, there is uncertainty as to the future pathways that changes in policies, technology innovation and shifts in consumer sentiment contribute to shaping. To size climate-related financial risks, banks and regulators require plausible ranges of scenarios to assess the potential impacts of both physical and transition risk drivers on their exposures. These scenarios will need to be combined with sufficiently granular data that capture the climate sensitivity of their exposures and are subject to an appropriate methodology.
- 3. Thus far, there is scarce research and data that explore how climate risk drivers feed into transmission channels and banks' financial risks. Existing analysis is yet to fully translate changes in climate-related variables into changes in banks' credit, market, liquidity or operational risk exposures or bank balance sheet losses. Instead, current research focuses on how specific climate risk drivers can impact specific sectors, individual markets, or top-down assessments of the macro economy as a whole.
- Given the above caveats, a few studies to gauge the costs of both transitional and physical risks for Norwegian banks suggest that risks are manageable so far. As a part of 2020 FSAP exercise, stress testing was performed to estimate potential effects of transition to a low carbon economy. Two calibrations were tested (average of USD 75 and USD 150 per ton CO2equivalent) to estimate the impact on banks and companies, and, in particular, the oil sector. While the analysis relies on some strong assumptions and simplifications, it offers some valuable insights into climate-related transition risks—a relatively new and underdeveloped area in the field of financial stability analysis. Firstly, a domestic increase in carbon prices could result in inability to service debt for firms with higher emissions, especially when profits are low compared to interest expenses. Under all scenarios, the sectors most at risk are agriculture, forestry, and fishing; water supply, sewerage, waste management and remediation activities; as well as transportation and storage (Figure 2). Banks' debt at risk from an increase in carbon prices is small on average, but can be significant when lending is concentrated to sectors at high risk. Secondly, a global increase in carbon prices could reduce oil sector revenues which would imply a significant increase in banks' loan losses. With carbon prices rising to USD 150, results suggest an increase in loan losses of 0.9 percentage points. Lastly, the analysis suggests that climate policy to curb the oil sector's total output could reduce valuations of oil producers, implying portfolio effects for Norwegian households and asset managers.
- 5. Expanding the analysis, Norges Bank's analysis suggests that banks that actively consider climate change risk assessments should be able to contain balance sheet risks. While being mindful of the caveats to such analysis, as the full overview of the consequences of climate changes is difficult to form, Norges Bank estimated the effects on banks' relative exposures to an emission price increase from today's level to NOK 2,000 (USD 221). It also examined the use of

energy labeling of commercial property and showed how banks' property collateral could be affected by changes in storm surges and flooding. On aggregate, the banks have moderate loans to emission-intensive industries, but are exposed to some industries with high emissions, especially shipping. The banks have sizeable loan exposures to commercial property. It appears that there was a need to reduce energy consumption for these properties. For certain banks, a portion of current collateral values in commercial property could lie in the risk zones in the event of a rise in sea level or flooding. Overall, forward-looking banks that actively consider climate change risk assessments should have ample scope to reduce current balance sheet risks.



Note: A = Agriculture, forestry and fishing; B = Mining and Quarrying; C = Manufacturing; D = Electricity, gas, steam and air conditioning supply; E = Water supply, sewerage, waste management and remediation activities; F = Construction; G = Wholesale and retail trade, reparit of motor vehicles and motorcycles; H = Transportation and storage; I = Accommodation and food service activities; J = Information and communication; K = Financial and insurance activities; L= Real estate activities; M = Professional, scientific and technical activities; N = Administrative and support service activities; O = Public administration and defence, compulsory social security; P = Education; Q = Human health and social work activities; R = Arts, entertainment and recreation; S = Other service activities; T = Activities of households as employers; undifferentiated goods- and services-producting activities of households for own use.

Annex VI. Authorities' Responses to Past IMF Article IV **Consultation Recommendations**

Fund Policy Advice	Authorities' Actions
Fiscal Policy	
Unwind temporary measures, simplify the VAT system	The temporary rate cuts introduced during the crisis have been unwound. Some of the concessionary rates of VAT have been raised, thus narrowing the differences in rates across goods and services. However, Norway's standard ('ordinary') VAT rate of 25 percent is among the highest in the OECD, and multiple reduced rates and exemptions add complexity. There is room to simplify and broaden the system considerably, which is longstanding recommendation.
Triple the carbon tax (with offsetting tax cuts to make the plan revenue neutral and to mitigate the social impact of the higher carbon tax).	The tax increase has been announced. The compensating measures to households such as lower fuel taxation as a means of alleviating the cost of travel by petrol and diesel vehicles, however, seems to move incentives in the wrong direction as they are not targeted to most vulnerable and retard the replacement of the most polluting cars.
Consider an expenditure review with the aim of improving the cost-effectiveness of government spending.	The business R&D and innovation support was recently the subject of a public spending review (2020-21), and the incoming government has signaled a new review.
Financial Stability	
Consider tightening mortgage regulations in line with FSA recommendations. Make mortgage regulations permanent to contain risky mortgages.	No progress.
Step up effort to collect and disseminate CRE data for better monitoring of risks.	Some progress.
Structural Reforms	
Reforms of sickness and disability schemes are needed to sustain high labor participation amid growing demographic pressures.	No progress. The Employment Commission evaluating (among other issues) the sickness and disability system delivered a second (and final) report in 2021. Only some proposals are aligned with long-standing staff recommendations.
Relaxing restrictions on land-use.	No progress.
Facilitating technological change, including a more developed open government data ecosystem.	Some progress.



INTERNATIONAL MONETARY FUND

NORWAY

August 29 , 2022

STAFF REPORT FOR THE 2022 ARTICLE IV CONSULTATION—INFORMATIONAL ANNEX

STATISTICAL ISSUES _____

Prepared By

European Department (in consultation with other departments)

3

CONTENTS

FUND RELATIONS	2

FUND RELATIONS

(As of July 31, 2022)

Membership Status: Joined: December 27, 1945; Article VIII

General Resources Account:	SDR Million	Percent of Quota
Quota	3,754.70	100.00
Fund holdings of currency	2,688.67	71.61
Reserve tranche position	1,066.04	28.39
Lending to the Fund		
New Arrangements to Borrow	26.31	

SDR Department:	SDR Million	Percent of Allocation
Net cumulative allocation	5,161.78	100.00
Holdings	5,355.39	103.75

Outstanding Purchases and Loans: None

Latest Financial Arrangements: None

Projected Payments to the Fund

(SDR Million; based on existing use of resources and present holdings of SDRs):

			Forthco	coming	
	2023	2024	2025	2026	
Principal					
Charges/Interest	0.07	0.07	0.07	0.07	
Total	0.07	0.07	0.07	0.07	

Exchange Arrangements: The *de jure* and *de facto* exchange rate arrangements in Norway are classified as freely floating. Norway accepted the obligations under the Article VIII and maintains an exchange system free of multiple currency practices and restrictions on the making of payments and transfers for current international transactions other than restrictions notified to the Fund in accordance with Decision No. 144 (52/51).

Article IV Consultation: 12-month cycle.

Financial Sector Assessment Program (FSAP) Participation: 2020.

STATISTICAL ISSUES

I. Assessment of Data Adequacy for Surveillance

General. Data provision is adequate for surveillance. Data is generally of high quality, timely, and comprehensive.

Monetary and Financial Statistics. Monetary statistics compiled by the authorities are consistent with the methodology of the *2016 Monetary and Financial Statistics Manual and Compilation Guide.* Norway reports regular and good-quality monetary statistics for publication in IFS, although there is room for improving the timeliness of the data on other financial corporations. Norway reports data on several series and indicators in the Financial Access Survey (FAS), including two indicators of the United Nations Sustainable Development Goals.

Financial Sector Surveillance. Norway reports Financial Soundness Indicators (FSIs) to the Fund, which are published on the IMF's FSI website. All core FSIs for deposit takers are reported on a quarterly basis. Only one of the encouraged FSIs for deposit takers is reported but many of the encouraged FSIs for other sectors are provided.

II. Data Standards and Quality

Subscriber to the *IMF's Special Data*Dissemination Standard (SDDS) since 1996. Uses

SDDS flexibility option on the timeliness of the general government operations-financing. SDSS metadata is posted on the Dissemination Standards Bulletin Board (DSBB).

Data ROSC (*Report on the Observance of Standards and Codes*) completed in 2003 is publicly available.

Norway: Table of Common Indicators Required for Surveillance							
		(As of	June 30, 2		Т	T	
	Date of latest	Date	Frequency	Frequency of		Memo	ltems: ⁸
	observation (For all dates in table, please use format dd/mm/yy)	received	of Data ⁷	Reporting ⁷	Publication ⁷	Data Quality – Methodological soundness ⁹	Data Quality – Accuracy and reliability ¹⁰
Exchange Rates	30/06/22	30/06/2 2	D	D	D		
International Reserve Assets and Reserve Liabilities of the Monetary Authorities ¹	05/22	06/22	М	М	М		
Reserve/Base Money	05/22	06/22	М	М	М		
Broad Money	05/22	06/22	М	М	М	O, O, O, LO	0, 0, 0, 0, 0
Central Bank Balance Sheet	0/22	06/22	М	М	М		
Consolidated Balance Sheet of the Banking System	04/22	06/22	М	М	М		
Interest Rates ²	05/22	06/22	М	М	М		
Consumer Price Index	05/22	06/22	М	М	М	0, 0, 0, 0	0, 0, 0, 0, 0
Revenue, Expenditure, Balance and Composition of Financing ³ – General Government ⁴	2021	2022	А	А	А	LO, LNO, O, O	LO, O, O, O, LO
Revenue, Expenditure, Balance and Composition of Financing ³ –Central Government	04/22	05/22	М	М	М		
Stocks of Central Government and Central Government-Guaranteed Debt ⁵	Q1 2022	04/22	Q	Q	Q		
External Current Account Balance	Q1 2022	06/22	Q	Q	Q		
Exports and Imports of Goods and Services	Q1 2022	06/22	Q	Q	Q	O, O, O, O	LO, O, O, O, LO
GDP/GNP	M4 2022	06/22	М	М	М	0, 0, 0, 0	O, O, O, O, LO
Gross External Debt	Q1 2022	04/22	Q	Q	Q		
International Investment Position ⁶	Q1 2022	04/22	Q	Q	Q		

¹ Any reserve assets that are pledged or otherwise encumbered should be specified separately. Also, data should comprise short-term liabilities linked to a foreign currency but settled by other means as well as the notional values of financial derivatives to pay and to receive foreign currency, including those linked to a foreign currency but settled by other means.

² Both market-based and officially determined, including discount rates, money market rates, rates on treasury bills, notes and bonds.

³ Foreign, domestic bank, and domestic nonbank financing.

⁴The general government consists of the central government (budgetary funds, extra budgetary funds, and social security funds) and state and local governments.

⁵ Including currency and maturity composition.

⁶ Includes external gross financial asset and liability positions vis-à-vis nonresidents.

⁷ Daily (D); weekly (W); monthly (M); quarterly (Q); annually (A); irregular (I); and not available (NA).

⁸ These columns should only be included for countries for which Data ROSC (or a Substantive Update) has been published.

⁹ This reflects the assessment provided in the data ROSC or the Substantive Update (published on July 15, 2003, and based on the findings of the mission that took place during November 11–26, 2002) for the dataset corresponding to the variable in each row. The assessment indicates whether international standards concerning concepts and definitions, scope, classification/sectorization, and basis for recording are fully observed (O); largely observed (LO); largely not observed (LNO); not observed (NO); and not available (NA).

¹⁰ Same as footnote 7, except referring to international standards concerning (respectively) source data, assessment of source data, statistical techniques, assessment and validation of intermediate data and statistical outputs, and revision studies.

Statement by Mika Pösö, Executive Director for Norway and Bjornar Slettvag, Advisor to the Executive Director September 14, 2022

On behalf of the Norwegian authorities, we would like to thank staff for candid discussions and an insightful report on the Norwegian economy. We attach great importance to IMF's assessments. These reports help us gain an outside perspective and challenge the authorities to identify shortcomings and evaluate economic policies.

Economic growth is strong and employment increasing

The Norwegian economy is in a marked cyclical upturn. Economic growth is strong, and registered unemployment has not been at lower levels for decades. Many businesses across the country report that growth prospects are good, and that labor shortages constrain production. At the same time, inflation rates are the highest since the 1980s, and core inflation has not been higher since recordings began in 2001. Wage growth is picking up. There are clear indications of overheating in the economy, and there is substantial risk of enduring high inflation.

Growth in the mainland economy (excluding petroleum production and shipping) has been strong since containment measures were removed in February. The Ministry of Finance forecasts growth in the mainland economy to outpace trend both this and next year, and unemployment is expected to remain low.

Norway is a reliable energy provider. With the current situation in Europe, gas production has been increased substantially since last year. The increase partly comes from a shift in production mix from oil to gas in fields where that is possible and partly from shortening the maintenance shutdowns. Gas production is at its maximum, and it will take years to develop new fields. Still, in the medium to long term, the challenge of managing a smooth transition to a less oil-dependent growth model remains.

Fiscal consolidation is needed

To counteract negative economic impacts from the pandemic, fiscal spending increased significantly in 2020 and 2021. The original budget for 2022 outlined a normalization of spending, towards pre-pandemic levels. Since then, extraordinary measures have been approved to address the increase in electricity prices, the omicronwave and measures related to Russia's war in Ukraine. In the revised budget, the Government proposed significant cutbacks to reduce the non-oil deficit in 2022. The current economic situation, with a high positive output gap and high inflation, calls for fiscal restraint to avoid overheating an of the economy. Spending should normalize to prepandemic levels to be better prepared for future economic shocks, a possible decline in the oil fund (Government Pension Fund Global), and fiscal challenges from an aging population

The Norwegian fiscal framework is designed to ensure a sustainable management of resource revenues from the petroleum sector. At the same time, the fiscal framework provides flexibility to handle temporary setbacks in the economy and fluctuations in the oil price and the value of the oil fund. All petroleum revenues are transferred into the fund, and, over time, spending is guided by the expected real return of the fund, estimated at 3 percent.

Norwegian authorities would emphasize that there are no plans to alter the fiscal rule. The fiscal guideline has served Norway well for more than 20 years. To handle the risk of a fall in the fund value, the transfer from the fund to the budget has been budgeted significantly below the 3-percent guideline, to have sufficient room for maneuver if the downside risk for the fund materialises.

The staff report recommends expanding the fiscal framework with a medium-term expenditure framework. The authorities are not convinced of the value added in this proposal. There are already guidelines for both the tax level and the budget deficit, and an additional guideline on expenditures may result in an overdetermined system.

The Central Bank will carefully watch inflation pressures going forward

Norges Bank started to increase the monetary policy rate from 0 percent in the second half of 2021, as a normalising economy suggested a gradual normalisation of the policy rate.

In June 2022, Norges Bank's Monetary Policy and Financial Stability Committee decided to increase the policy rate by 0,5 percentage point to 1.25 percent, and the forecast implied a further rise to around 3 percent by summer 2023.

In August 2022, the Committee decided to raise the policy rate further to 1.75 percent, and its assessment was that a markedly higher policy rate is needed to ease the pressures in the Norwegian economy and to bring inflation down towards the target. The Committee was concerned with the large degree of uncertainty surrounding the outlook. There is a risk that little spare capacity in the Norwegian economy and persistent global price pressures will lead to a further acceleration in inflation. On the other hand, the rise in interest rates may cool down the housing market and curb household consumption faster than currently envisaged. There is also a risk of a sharper slowdown in global growth. As pointed out in the report, household debt in Norway is high, and with a large proportion of mortgages with floating interest rate, households are sensitive to interest rate increases.

Risks to financial stability appear to be manageable.

The Government has a broad policy approach to address housing market issues. The mortgage regulation includes caps on the loan-to-value ratio and debt-to-income ratio. The regulation expires at the end of 2024, with an evaluation this fall. The Ministry of Finance has asked the Financial Supervisory Authority to evaluate the regulation and its effects, and to give advice on the need for changes in the regulation, including whether the scope should be extended to include other types of loans. The authorities take note that staff recommends to permanently preserve tighter mortgage regulation limits for Oslo, ease restrictions on the supply of new housing, alter regulations to boost construction efficiency, and curb demand through a gradual phasing out of mortgage interest deductibility.

We agree with staff that banks' exposure to commercial real estate (CRE) remains an important vulnerability. The current prudential toolkit to mitigate financial stability risks remains quite comprehensive to address the vulnerabilities and has adapted well to the challenges brought by the pandemic. High bank capital ratios mitigate the risks to stability.

Ensuring a sustainable development in public finances will require several measures

As described by staff, Norway will soon face fiscal challenges due to an ageing population and lower revenues from oil and gas production. The authorities' two main strategies for ensuring sufficient room for spending on welfare going forward, without increasing the level of taxation, is to expand labor force participation and to improve value for money in the public sector.

The Norwegian employment rate has increased significantly after the pandemic and is now at its highest level in ten years. Still, many remain outside the labor force. This poses concerns, as high employment is a prerequisite for a sustainable welfare state.

Norway has carried through a major pension reform based on a broad political consensus to expand labor participation among elderly workers. The reform has recently been evaluated by a public commission which has concluded that it seems to work as planned, alleviating costs and improving incentives to work. The commission has proposed to link all formal pension age-limits to longevity, to improve the sustainability of the pension system, both economically and socially.

An efficient public sector is crucial to handle future ageing costs. Several initiatives have been taken to improve efficiency and service delivery. Spending reviews have been introduced as a tool to achieve more efficient resource use and more effective policy instruments. Further efforts will aim to modernize public organizations and identify obsolete spending items.