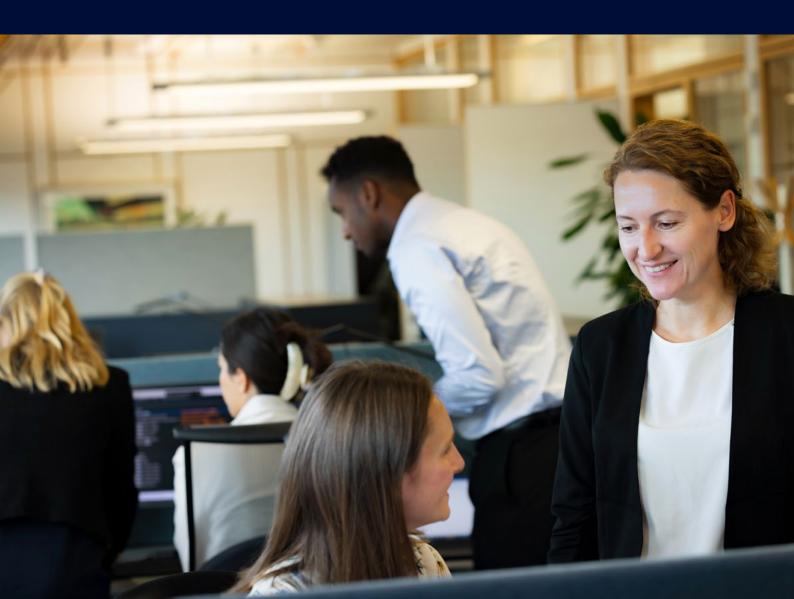


## Norges Bank Annual Report 2023



Norges Bank's mission is to promote economic stability and manage substantial assets on behalf of the Norwegian people





## 2023 Key figures

The policy rate was raised to

4.5%

in 2023

Annual consumer price inflation was

5.5%

in 2023

The countercyclical capital buffer rate was

2.5%

at year-end 2023

The market value of the Government Pension Fund Global was

NOK 15 765bn

at year-end 20231

The market value of the foreign exchange reserves was

NOK 690bn at year-end 2023

Norges Bank's total comprehensive income was

NOK 70bn at year-end 2023

In Norges Bank's settlement system, payments totalling on average

NOK 355bn were settled daily in 2023

Transfers to the Treasury totalled

NOK **17.6**bn for 2023

Norges Bank has

employees from 38 countries

Owner's capital amounted to NOK 15 757bn. The difference between owner's capital and the GPFG's market value consists of deferred tax and accrued management fees.

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## Foreword by the Governor



## Equipped for an uncertain future

Uncertainty and an ever-changing economic landscape require high standards for how we, as an organisation, perform our social mission. While our influence on the global economy is limited, what we can do is ensure that our organisation is as well prepared as possible to meet the changes that occur.

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Norges Bank performs important tasks on behalf of the nation. How successful we are is determined both by external factors and by how well-equipped we are, as an organisation, to respond to events.

The year 2023 was marked by continued high inflation and global monetary policy tightening. To restrain the rise in prices in Norway, Norges Bank raised the policy rate from 2.75% to 4.5% in the course of the year. Gains in equity and fixed income markets led to a sharp increase in the value of the Government Pension Fund Global (GPFG).

Much of what we do at Norges Bank is less visible than the policy rate or the value of the GPFG. Payments worth billions of NOK are settled daily in Norges Bank's settlement system, the very heart of the Norwegian payment system. Managing the GPFG also entails millions of transactions every year, and the infrastructure we use needs to function as intended. In recent years we have enhanced our organisation to ensure operational resilience. In the light of the geopolitical situation, we have stepped up contingency planning and increased our efforts to prevent and respond to cyber attacks.

We need to adapt to a changing economy and a changing world. We need to improve our models and analyses, gather new and better data and perform our tasks in new ways. This requires high standards for Norges Bank as an organisation and workplace. That is why it is important for us to attract and cultivate capable and motivated employees and foster a good working environment with the right to speak up and room for making mistakes.

I am proud of my colleagues who, with their strong engagement and talent, enable us to carry out Norges Bank's important social mission.

Oslo, 27 February 2024

de Wole Ban

Ida Wolden Bache

Governor



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### Norges Bank's Executive Board

The Executive Board comprises the Governor, the two Deputy Governors and six external board members, all appointed by the King in the Council of State. In addition, two board members are selected by and among employees to participate when administrative matters are on the agenda.

The Governor is Chair and the two Deputy Governors are First Deputy Chair and Second Deputy Chair of the Executive Board. The Executive Board has four preparatory and advisory committees, whose work strengthens and streamlines the Executive Board's discussions. For more information on the members of the Executive Board, see norges-bank.no



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#### Work of the Executive Board in 2023

The Executive Board held 13 meetings and discussed 218 items of business in 2023. Meetings also take place in the form of seminars for more in-depth presentations and discussions with the administration on the premises for important items on the Board's agenda. Approximately two thirds of the Board's time was spent on matters related to the management of the Government Pension Fund Global.

In addition, time is spent by the Executive Board's four subcommittees on preparing selected matters to be considered by the Executive Board. For more information on the Executive Board's subcommittees, see <a href="norges-bank.no">norges-bank.no</a>

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Executive Board meetings.

218
matters considered by the Executive Board.

TABLE 1 Work of the Executive Board 2019-20231

	2019	2020	2021	2022	2023
Number of Executive Board meetings	18	20	14	14	13
Number of Executive Board seminars	11	4	5	6	5
Number of matters considered by the Executive Board	242	222	228	212	218
Committee meetings  Audit Committee 5 7 11 7					
Remuneration Committee	4	5	7	6	6
					0
Ownership Committee	5	7	9	7	8

<sup>1</sup> Upon the establishment of the Monetary Policy and Financial Stability Committee in 2020, some of the Executive Board's areas of responsibility were transferred to the Committee



## Annual Report of the Executive Board for 2023

Norges Bank is Norway's central bank, and its main office is in Oslo. The Bank has executive and advisory authority in the area of monetary policy, manages Norway's foreign exchange reserves and the Government Pension Fund Global (GPFG), and is responsible for promoting robust payment systems and financial markets. In addition, the Bank has the sole right to issue Norwegian banknotes and coins.

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The year 2023 was marked by continued high inflation and rising policy rates internationally. The krone depreciated further in 2023, particularly in the period to summer. Prices surged for both imported goods and domestically produced goods and services. To dampen the rise in prices, the Monetary Policy and Financial Stability Committee raised Norges Bank's policy rate from 2.75% to 4.5% in the course of the year. See the Norges Bank's Monetary Policy and Financial Stability Committee for further information.

Problems at some US and Swiss banks led to substantial movements in global financial markets in spring 2023. The authorities in these two countries intervened to reduce the risk of contagion to other institutions and prevent a further escalation of the financial market turmoil. The impact on Norway's financial system was limited.

Global equity markets rose substantially through 2023, contributing to a sharp increase in the market value of the GPFG. Solid returns from GPFG fixed income investments also had a positive impact. In addition, the GPFG's market value rose owing to the krone depreciation and transfers to the GPFG. A fall in global real estate markets in isolation pulled down the GPFG's value. Developments in equity and fixed income markets and the krone depreciation also contributed to an increase in the value of Norges Bank's foreign exchange reserves.

At the start of 2023, a new strategy period for Norges Bank commenced (Strategy 25). For the GPFG, this strategy means continuing and developing the investment strategies further. The ambition is to exploit the GPFG's characteristics as a large and long-term investor to achieve the highest possible return in a responsible way. To ensure capacity, quality and robustness, Norges Bank Investment Management strengthened its organisation in the course of the year. The work to increase transparency continued, and the GPFG was named the world's most transparent fund in 2023.

For Central Banking, Strategy 25 will focus on important areas in the payment system. In 2023, work started on deciding the design of the next generation NOK settlement system. At the same time, the Bank's work on assessing whether to introduce a central bank digital currency continued. In line with Strategy 25, the Executive Board decided to establish a new and modern central banking data and analysis platform, the aim of which is to better facilitate the Bank's analysis work.



Staff meeting to present Strategy 25 with Governor Ida Wolden Bache and Executive Directors Alexander Behringer, Torbjørn Hægeland, Øystein Kruge and Ole Christian Bech-Moen.

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Work on climate and environmental issues are strategic focus areas for both the GPFG and Central Banking. Norges Bank Investment Management continued its work to align the activities of investee companies with the Paris Agreement. In Central Banking, in line with Strategy 25, work has been carried out to improve the Bank's understanding of the economic impacts of climate change and energy transition.

High priority was given to security and contingency preparedness in 2023, in particular cyber attack prevention and response. However, in light of the geopolitical situation, Norges Bank increased its focus on general contingency preparedness.

During 2023, some changes were made to Norges Bank's organisation. In March, the Executive Board approved separate HR and Communication departments in both Norges Bank Investment Management and Central Banking. The aim was to achieve clearer divisions of responsibility, a simpler organisation and more tailored support to the two operational areas.



The Executive Board thanks the employees for their significant contributions in 2023.



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The Executive Board is pleased with the organisation's performance and thanks the employees for their significant contributions in 2023. Norges Bank's most important resource is its staff, and work is carried out systematically to ensure job satisfaction, stimulating work and the expertise necessary to perform the Bank's mission. On an annual basis, the Bank conducts a comprehensive staff survey that also measures and assesses employee engagement, well-being and effectiveness. The survey is an important tool in the Bank's work to develop its employees, organisation and workplace. The Executive Board is satisfied with the results of the 2023 staff survey and assesses the working environment at the Bank as positive. See the section on Norges Bank's corporate social responsibility and sustainability for more information on the Bank's staff and how the Bank works to be an attractive and future-fit workplace.

#### **Government Pension Fund Global**

Norges Bank manages the GPFG on behalf of the Ministry of Finance. The objective of the Bank's investment management is to achieve the highest possible long-term return within the constraints laid down in the mandate from the Ministry of Finance.

The market value of the GPFG increased by NOK 3 336bn through 2023 and was NOK 15 765bn at the end of the year. The market value is affected by the return on investments, capital inflows and withdrawals by the government and exchange rate movements.

#### Return on the Government Pension Fund Global

In 2023, the return was equivalent to NOK 2 222bn¹. A weaker krone increased the market value of the GPFG by NOK 409bn, but this has no bearing on GPFG purchasing power in foreign currency. Net transfers from the Norwegian government were NOK 704bn after the payment of management fees.

NOK 15 765bn in market value of the fund at year-end 2023.

The GPFG's return reflects the return on the market value of the investment portfolio that does not include deferred tax. The portfolio result of NOK 2 214bn in the financial statements includes the impact of changes on the income statment in deferred tax.

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Measured in the GPFG's currency basket, the return for the year was 16.1% before management costs. Equities returned 21.3%. Stock markets were lifted by a surge in prices for technology stocks. A continued rise in central bank policy rates due to high inflation affected bond markets, but a drop in long yields towards the end of the year contributed to a return on fixed income investments of 6.1% in 2023.

Investments in unlisted real estate returned -12.4%, and unlisted renewable energy infrastructure 3.7%. The return on unlisted real estate was weak, both in absolute terms and relative to other asset classes. The return was pulled down by lower valuations as a result of higher real interest rates and decreased demand for office properties since the pandemic.

GPFG investments at the end of the year broke down into 70.9% equities, 27.1% fixed income, 1.9% unlisted real estate and 0.1% unlisted renewable energy infrastructure.

With such a large fund and an equity share of around 70%, we have to be prepared for considerable fluctuations in the GPFG's return and market value. Each year, Norges Bank publishes the results of both historical and hypothetical stress tests. The tests conducted at the end of 2023 include shocks such as an economic recession linked to high public and private debt, long-term geoeconomic conflict and repricing of the equity market. In these stress tests, the decrease in the value of the GPFG is estimated at around 30% over a period of up to five years.

The Executive Board considers the return on the GPFG over time to have been good. In the period between 1998 and 2023, the average annual return was 6.1%. The annual net real return, after deductions for inflation and management costs, was 3.8% in the same period.

#### Return relative to the benchmark index

The return achieved by Norges Bank is measured against the return on the GPFG's benchmark index. In 2023, GPFG return was 0.18 percentage point less than the return on the benchmark index.

6.1% average annual return on the fund in the period between

1998 and 2023.

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Norges Bank's investment strategies are grouped into three main categories: market exposure, security selection and fund allocation. These strategies are complementary and aim to take advantage of the GPFG's size and long investment horizon. Each strategy has evolved over time.

Under the strategy for market exposure, the GPFG is invested broadly in equities and bonds included in the benchmark index. The investments are made cost-effectively and with a view to contributing to the objective of the highest possible return. The strategy for security selection is based on fundamental analysis of companies, and Norges Bank uses both internal and external managers. Fund allocation consists of a number of strategies that aim to improve the GPFG's long-term risk and return characteristics. Investments in real estate and unlisted renewable energy infrastructure are part of the fund allocation strategy.

The results for both market exposure and security selection were good in 2023 and contributed positively to the GPFG's relative return. However, the results for fund allocation, especially investments in unlisted real estate, meant that the GPFG's overall return before costs was lower than the return on the benchmark index.

GPFG unlisted real estate investments are almost entirely in office, logistics and retail properties. Office properties account for around half of the portfolio, and investments in office and retail premises are concentrated in a small number of major cities. Higher real interest rates since the pandemic have resulted in weak returns on real estate in general, and especially in the part of the office market where the GPFG is invested. The rise in working from home following the pandemic has also reduced demand for office space. The GPFG's office properties returned -15.4% in 2023. The valuation of the office portfolio peaked in the first quarter of 2022 and has since been written down by 25.2%.

Unlisted real estate is not part of the benchmark index and is funded by investing less in equities and bonds. Substantial variations may occur between the return on real estate investments and their funding from year to year. The results must be assessed over time. The return on unlisted real estate investments in 2023 was considerably lower than the return on the equities and bonds sold to fund them. This meant that unlisted real estate made a contribution of -0.58 percentage point to the GPFG's relative return.



Nicolai Tangen, CEO of Norges Bank Investment Management (NBIM), and Governor Ida Wolden Bache hold a press seminar.

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Investments in listed real estate returned 16.6% in 2023. In isolation, this made a positive contribution to the GPFG's relative return of 0.11 percentage point. The value of these investments fluctuated widely during the year but surged in 2023 Q4 along with the rest of the equity market.

There was considerable variation in the results of the different investment strategies in 2023. The Executive Board considers it important for GPFG performance to be assessed as a whole and over time and is satisfied that the overall return over time has been higher than the return on the benchmark index, against which the return is measured.

Norges Bank has reported contributions to the relative return for the same three strategies in the period between 2013 and 2023. In this period, the average annual excess return before management costs was 0.29 percentage point. Market exposure and security selection made positive contributions to the relative return, while fund allocation made a negative contribution.

In the period between 1998 and 2023, the average annual return before management costs was 0.28 percentage point higher than the return on the benchmark index from the Ministry of Finance.

#### Risk

The objective of the highest possible return is to be achieved with acceptable risk. The risk in the GPFG is measured, analysed and followed up using a broad set of measures and different types of analysis. The management mandate requires Norges Bank to manage the GPFG with a view to ensuring that expected relative volatility (tracking error) does not exceed 1.25 percentage points. Expected relative volatility was 0.34 percentage point at the end of 2023, compared with 0.39 percentage point a year earlier.

Measured over the full period between 1998 and 2023, realised relative volatility was 0.64 percentage point.

#### Management costs

Management of the GPFG is to be cost-effective. Low costs are not an end in themselves, but cost-effective management supports the objective of the highest possible return after costs. In the period between 2013



In the period between 1998 and 2023, the fund's average annual return was 0.28 percentage point higher than in the benchmark index.

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and 2023, annual management costs averaged 0.05% of assets under management. In 2023, management costs amounted to NOK 6.6bn, or 0.05% of assets under management. The Executive Board is satisfied that management costs are low compared with other managers (see section on corporate governance for more information).

#### Responsible investment management and investment strategy

The mandate from the Ministry of Finance requires responsible investment to be an integral part of the management of the GPFG. A good long-term return depends on sustainable economic, environmental and social development. Norges Bank published expectations of companies on consumer interests during the year, as well as views on the responsible use of artificial intelligence.

Climate risk management is a priority for responsible investment, and in 2023, Norges Bank published sharpened expectations for how companies should manage climate risk and views on the use of voluntary carbon credits. A number of companies in the portfolio committed to net zero carbon emissions during the year.

It is hard to measure the effects of work on responsible investment. Provisional results from a research project in 2023 indicate that the Bank's publication of its voting decisions five days before shareholder meetings leads to increased support for the GPFG's position from other shareholders.

Norges Bank contributes to the development of the GPFG's overall investment strategy through its role as an advisor to the Ministry of Finance. In November, the Executive Board submitted its recommendation to the Ministry of Finance to permit parts of the GPFG to be invested in unlisted equities.

The work to promote responsible investment is described in Norges Bank's work on <u>corporate social responsibility and sustainability</u>.

For more information on the management of the GPFG, see the <u>Government Pension Fund Global Annual Report for 2023</u>.



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Climate risk management is a priority for responsible investment.

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#### Foreign exchange reserves

Norges Bank holds foreign exchange reserves for the purpose of crisis management. The foreign exchange reserves are to be sufficiently liquid to be available for use in foreign exchange market transactions or as part of the conduct of monetary policy or with a view to promoting financial stability and to meet Norges Bank's international commitments. The aim of the management of the foreign exchange reserves is the highest possible return within the applicable risk limits. The reserves are divided into an equity portfolio, a fixed income portfolio and a petroleum buffer portfolio.

NOK 690bn in foreign exchange reserves at end-2023.

#### Equity and fixed income portfolio

The market value of the total equity and fixed income portfolio was NOK 654.4bn at year-end 2023, which is NOK 72.0bn more than in 2022. At the end of 2023, the value of the equity portfolio was NOK 143.1bn, while the value of the fixed income portfolio was NOK 511.3bn.

In international currency terms, the return on the total equity and fixed income portfolio was NOK 49.5bn in 2023, or 8.2%. The return on the equity portfolio was NOK 30.5bn, equivalent to 25.0%, while the fixed income portfolio returned NOK 19.0bn, equivalent to 4.3%. In NOK terms, the return on the foreign exchange reserves was 12.7%, reflecting higher equity prices, current interest income and lower global interest rates. The krone depreciation further increased the return in NOK terms.

The foreign exchange reserves are managed close to benchmark indexes set by the Executive Board, and the return closely tracks global equity and bond market developments. In 2023, the return on the equity and fixed income portfolios was 0.01 percentage point and 0.03 percentage point higher than the return on the portfolios' benchmark indexes, respectively. At year-end 2023, expected relative volatility for the equity and fixed income portfolios was 0.05 and 0.02 percentage point, respectively, approximately unchanged through 2023. The foreign exchange reserves' risk associated with return for Norges Bank arises from market exposure and different currency compositions on both the asset and liability sides. See also the discussion of the balance sheet and financial statements below.



Capital markets seminar at Norges Bank hosted by Director Marie Norum Lerbak.

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Over the past ten years, the annual return on the equity and fixed income portfolio has been 10.4% and 1.0% in international currency terms, respectively. Overall, annual returns have been 3.5%. The Executive Board is of the opinion that returns have been solid over time.

#### Petroleum buffer portfolio

The purpose of the petroleum buffer portfolio is to provide for an appropriate management of the government's need for converting foreign currency and NOK and for any transfers to and from the GPFG. The portfolio normally fluctuates in value owing to the purchase and sale of currency in the market, the purchase of foreign exchange from the State's Direct Financial Interest (SDFI) and monthly transfers to and from the GPFG. As in recent years, high oil and gas prices have also led to large capital flows and substantial volatility in the petroleum buffer portfolio in 2023.

At the end of 2023, the market value of the petroleum buffer portfolio was NOK 35.4bn, which is NOK 7.8bn more than in 2022. The return on the portfolio was NOK 8.8bn, primarily owing to the krone depreciation. Net transfers amounted to NOK -3.1bn.

#### Responsible investment and investment strategy

The composition of the equity and fixed income portfolio is to be adapted to the aims of the foreign exchange reserves. The Executive Board has set management limits and principles to ensure that the reserves are invested to meet future liquidity needs. This framework for investment is assessed annually.

The equity portfolio is to be managed according to the same principles and strategies for responsible investment as the equity investments in the GPFG. Among other things, this means that the Bank's work with responsible investment must be based on a long-term objective whereby investee company operations are in line with the goals of the Paris Agreement.

The work to integrate responsible investment into the management of the foreign exchange reserves is described in the section on corporate social responsibility and sustainability.

For more information on the management of the foreign exchange reserves, see the report Management of Norges Bank's foreign exchange reserves.



In recent years, high oil and gas prices have led to large capital flows and substantial volatility in the petroleum buffer portfolio.

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#### Tasks performed as the government's bank

In addition to being Norway's central bank, Norges Bank is also the government's bank. As the government's bank, Norges Bank performs a number of tasks on behalf of the government, which includes government debt management and carrying out necessary foreign exchange transactions related to petroleum revenue spending.

#### NOK transactions on behalf of the government

The volume of foreign exchange transactions carried out by the Bank on behalf of the government has been high, and in 2023, the Bank purchased foreign exchange for NOK 329bn. The transactions in 2023 reflect the very high petroleum prices in 2022 because in the first half of the year, oil companies pay taxes on income earned in the preceding year.

Norges Bank is tasked with converting government revenues from petroleum activities on the Norwegian continental shelf so that the government receives the correct amount of NOK for spending via the central government budget and the correct amount of foreign exchange for saving in the GPFG. The transactions are a task carried out on behalf of the government, completely separate from monetary policy. The weak krone drew attention to the krone sales, which reflect oil companies' krone purchases. The companies' revenues are primarily in foreign currency and the companies must purchase NOK in order to pay taxes and duties to the government. A substantial share of these NOK revenues is used to cover the central government budget deficit. Norges Bank therefore only sells part of what the oil companies pay to the government.

#### Government debt

Norges Bank manages government debt on behalf of the Ministry of Finance. The borrowing requirement is primarily met through issuing long-term bonds. The government also borrows short-term by selling Treasury bills, which are debt instruments with a maturity of one year or less. The government borrows exclusively in NOK.

At the end of 2023, government debt totalled NOK 567bn, with NOK 517bn in government bonds, and NOK 50bn in Treasury bills.



NOK 567bn in government debt at year-end 2023.

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Through the year, bonds amounting to NOK 80bn were issued to the market. In February, a new 10-year bond was issued via syndication in the amount of NOK 22bn. This bond was reopened in the amount of NOK 10bn through a syndication in October. In addition, existing bonds were reopened for NOK 48bn on 22 auction days. On some of these auction days, two different bonds were auctioned.

The average yield for the bonds issued in 2023 was 3.52%, compared with 2.76% in 2022, reflecting the general rise in yields.

Treasury bills worth NOK 52bn were issued to the market at 18 auctions.

Owing to high volatility and uncertainty in fixed income markets in both Norway and other countries, Norges Bank permitted primary dealers to quote larger-than-normal yield spreads in the interdealer market for government bonds and Treasury bills. In autumn, Norges Bank reduced the permitted yield spread somewhat.

Government bond and Treasury bill issuance was carried out in line with the <u>Strategy and borrowing programme for 2023</u>.

#### The payment system

Norges Bank is tasked with promoting an efficient and secure payment system. Norges Bank is the ultimate settlement system for interbank payments in Norway and issues banknotes and coins. Norges Bank oversees the payment system and other financial infrastructure, contributes to contingency arrangements and is the supervisory authority for interbank systems. The financial infrastructure is considered to be secure and efficient. Operation has been stable, and payments can be made swiftly and at low cost.



Norges Bank's task is to promote an efficient and secure payment system.

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#### Norges Bank's settlement system

Payment settlement between banks and other financial sector undertakings with an account at Norges Bank takes place in Norges Bank's settlement system (NBO). Thus, most payments in NOK are ultimately settled in NBO. The operation of the settlement system was stable through 2023, with an average of NOK 355bn in payment transactions handled daily. At year-end 2023, banks' sight deposits and reserves on deposit with Norges Bank totalled NOK 38bn.

In line with <u>Strategy 25</u>, the decision has been made to begin the process of overhauling the settlement system. The process addresses substantial and sometimes wide-ranging issues including aspects such as secure and stable operation, availability, interoperability, liquidity management, monetary policy, national governance and control, and cost efficiency. A key question is whether the next generation settlement system will build on the current model, with a dedicated solution for Norges Bank, or whether participation in the Eurosystem cooperation on TARGET services is more appropriate.

A well-functioning solution for real-time payments is an important part of an efficient payment system. Instant payments are payment services that ensure that payees receive funds directly in their accounts seconds after the payment is initiated - 24 hours a day, seven days a week. Norges Bank is assessing whether to expand its role as settlement bank by providing financial infrastructure for real-time payments through participation in the Eurosystem's TARGET Instant Payment Settlement (TIPS) service. Norges Bank has initiated formal discussions with the European Central Bank on possible participation in TIPS.

#### Cash

Norges Bank has the role of wholesaler in cash distribution and supplies cash to banks from five central bank depots. Retail banks are retailers in cash distribution and provide customers with different cash services. In 2023, the supply of cash in circulation remained at approximately the same level as in previous years and largely reflected the same seasonal variations.



Director Anna Grinaker and Executive Director Torbjørn Hægeland open the seminar on IT and payment systems.

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Although cash usage is very low in a global context, cash plays an important role in the payment system. In addition to being central bank money, cash has characteristics that make it part of the contingency arrangements for electronic payment solutions and is important for those that do not have the skills or opportunity to use digital payment solutions.

For cash to be able to fulfil its functions, the public must have real opportunities to obtain and use cash. In recent years, several regulations have been introduced to increase cash availability by clarifying banks' obligation to offer their customers cash services. For some time, shops and service providers have increasingly turned down cash as a means of payment. In the Executive Board's view, it is important that consumers' right to pay cash is clear, and the proposed clarification in a bill from the Ministry of Justice and Public Security will be an important contribution in ensuring that cash remains easy to use. Norges Bank has repeated this view in its publications in 2023.

#### Central bank digital currency

The structural changes in the payment system raise questions about whether there is a need for Norges Bank to implement measures to ensure that NOK payments can continue to be made efficiently and securely in the future. Norges Bank and many other central banks are now exploring whether to introduce a central bank digital currency (CBDC).

Norges Bank started to explore CBDC in 2016, and in December 2023, Norges Bank published reports from Phase 4 of the exploration project. Phase 4 has consisted of experimental testing of technical solutions, analysis of scenarios for the payment system that would justify the issuance of a CBDC, evaluation of consequences for liquidity management and monetary policy and a review of the legislative changes necessary for an introduction of a CBDC in Norway. The exploration project will be continued in Phase 5 until the end of 2025. In addition to assessing a retail CBDC intended for the general public, the Bank will evaluate if new forms of interbank settlement in wholesale CBDC can facilitate innovation in tokenised bank deposits and other assets in tokenised form. The Bank will cooperate with other central banks and international organisations to gain knowledge and contribute to international standardisation and cooperation.



For cash to be able to fulfil all its functions. the public must have real opportunities to obtain and use cash.

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#### Cyber security and contingency planning

Cyber incidents are a potential threat to the financial system and financial stability. The cyber resilience of the financial sector needs to be strengthened. This requires extensive public-private cooperation. In collaboration with Finanstilsynet (Financial Supervisory Authority of Norway), Norges Bank has introduced cyber resilience testing according to Threat Intelligence-Based Ethical Red-teaming (TIBER), a framework from the European Central Bank. TIBER-NO is the Norwegian implementation of the framework that has also been adopted by the Nordic countries and many other countries in Europe. The first Norwegian test was conducted in 2023 and several other tests are currently being carried out. In addition, Norges Bank also participates in testing among Nordic countries. There is considerable interest in TIBER testing, and the Bank's experience so far has been that the framework is appropriate for improving cyber resilience.

Upon the recommendation of Norges Bank, the Ministry of Finance has laid down a mandate for a working group to assess the contingency arrangements in the payment system. The working group will assess the need for measures to increase the safety of electronic payments in different scenarios.

For more information on the payment system, see <u>Financial Infrastructure</u> Report 2023.

#### Corporate governance

Norges Bank's governance framework aims to be in line with best practice. The Executive Board follows up the Bank's operations through periodic reporting on the status of implementing strategy and objectives, resource use, financial and operational risk and compliance.

Norges Bank's use of resources is to be cost-efficient and prudent, with a cost level that is reasonable compared with that of peer organisations. The Executive Board followed up the budgeting process closely, and planning and the budget for 2024 were discussed at several Executive Board meetings in the latter half of 2023. A number of measures have been implemented to streamline operations, with some also contributing to taking advantage of synergies and economies of scale across the organisation.



Heads of security from 35 central banks at a meeting in Norges Bank.

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Benchmarking, ie external comparisons of the Bank's use of resources with that of other peer organisations, is used as a corporate governance tool. During 2023, two external cost comparisons were completed for the Bank's resource use. On behalf of the Ministry of Finance, CEM Benchmarking has compared the management costs of the GPFG with 270 other funds. The GPFG is the fund in the peer group with lowest costs measured as a share of assets under management. According to CEM, the costs are lower because Norges Bank's share of management carried out internally was higher and more cost efficient. In Central Banking, a comparison of resource use between the Nordic central banks was conducted. The survey shows that the Bank's use of resources is somewhat lower than that of other peer central banks. The results also show that resource use among a number of the Nordic central banks is increasing, particularly in payment system development.

The Executive Board follows up financial and operational risk and compliance through periodic status reports. Valuations, performance measurement, management and control of risk comply with internationally recognised standards and methods. See the notes to the financial statements. There were no material breaches of the limits for the management of the GPFG or the foreign exchange reserves in 2023, and operational risk exposure was within the Board's risk tolerance limit.

The Executive Board submits an annual risk assessment to Norges Bank's Supervisory Council based on reporting by the administration and Internal Audit. No material deficiencies in the risk management and control regime were identified in 2023 and the Executive Board assesses the control environment and control systems at Norges Bank as satisfactory.

No directors' and officers' liability insurance has been provided for the members of the Executive Board or the chair of the Board, ie the Governor, in her role as general manager of Norges Bank. In practice, the Board members have limited liability risk, and the Bank self-insures any liability for damages on behalf of Board members or equivalent executive management positions. This is in line with practice in other Nordic central banks.



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#### Balance sheet and financial statements

#### **Balance sheet**

Norges Bank's balance sheet contains a number of items directly related to the Bank's mission. The balance sheet total at year-end 2023 was NOK 16 629bn, compared with NOK 13 200bn at year-end 2022.

In line with the management mandate for the GPFG, the Ministry of Finance has placed a portion of the government's assets in a separate account in Norges Bank (the GPFG krone account), presented as a liability to the Ministry of Finance. Norges Bank reinvests these funds, in its own name, and presents this as net value GPFG. The value of the GPFG krone account will always equal the value of the investment portfolio less accrued management fee and deferred tax. Norges Bank, in its role as asset manager, bears no financial risk associated with the management of the GPFG. At year-end 2023, the market value of GPFG investments was NOK 15 765bn, compared with NOK 12 429bn at year-end 2022. See the separate section above for more details on the management of the GPFG. Detailed financial reporting for the investment portfolio of the GPFG is presented in Note 20 to the financial statements. In addition, an annual report on the management of the GPFG is produced.

Excluding the GPFG, the foreign exchange reserves are Norges Bank's largest balance sheet asset. The foreign exchange reserves are primarily invested in equities, fixed income instruments and cash. Net foreign exchange reserves amounted to NOK 690bn at year-end 2023, compared with NOK 610bn at year-end 2022. See the separate section above for more details on the management of the foreign exchange reserves.

Under the government's consolidated account system, all government liquidity is collected daily in government accounts at Norges Bank. At year-end 2023, deposits amounted to NOK 282bn, compared with NOK 305bn at year-end 2022. Except for the GPFG krone account, this is the largest liability item on the balance sheet. However, this item fluctuates considerably through the year owing to substantial incoming and outgoing payments over the government's accounts and transfers to and withdrawals from the GPFG.

The balance sheet total was NOK 16 629bn at year-end 2023.

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Banknotes and coins in circulation are a liability item for Norges Bank. Norges Bank guarantees the value of this money. The amount of cash in circulation is driven by public demand. In recent years, lower demand for cash has reduced the amount in circulation. At year-end 2023, banknotes and coins in circulation amounted to NOK 40bn, unchanged compared with year-end 2022.

Deposits from banks, comprising sight deposits, reserve deposits and F-deposits, are managed by Norges Bank in accordance with its liquidity management policy. At 31 December 2023, these deposits amounted to NOK 58bn, compared with NOK 27bn at year-end 2022.

Norges Bank administers Norway's financial obligations and rights ensuing from participation in the International Monetary Fund (IMF). Norges Bank has therefore both claims on and liabilities to the IMF. At year-end 2023, Norway's net position with the IMF amounted to a claim of NOK 27bn, compared with NOK 23bn in 2022. See <a href="Note 14">Note 14</a> in the notes to the financial statements for more details on the relationship between Norges Bank and the IMF.

Norges Bank's equity at 31 December 2023 was NOK 322bn, compared with NOK 270bn at 31 December 2022. The Bank's equity consists of the Adjustment Fund and the Transfer Fund. At year-end 2023, the Adjustment Fund stood at NOK 286.7bn and the Transfer Fund at NOK 35.2bn, compared with NOK 253.3bn and NOK 16.2bn, respectively, at year-end 2022. Norges Bank's equity, excluding the GPFG krone account, was 36.9% of the balance sheet total, compared with 35.0% in 2022.

The Executive Board deems that the Bank's equity is sufficient to fulfil the Bank's purpose (cf Section 3-11, Sub-section 1, of the Central Bank Act). This balance sheet composition is normally expected to generate a positive return over time, excluding foreign currency effects, as returns on the Bank's investments in equities and fixed income instruments are expected to exceed the cost of the Bank's liabilities.

Norges Bank's assets are primarily invested in foreign currency, whereas its liabilities are primarily in NOK. Given the Bank's balance sheet composition, income will largely be affected by developments in global fixed income,

NOK 322bn in equity at year-end 2023.

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equity and foreign exchange markets. Considerable volatility in income should be expected from year to year. Future increases in the value of the GPFG will be affected by, among other things, transfers to/from the GPFG.

#### Income statement

#### Net income/-expense from financial instruments

Net income from financial instruments was NOK 40.9bn in 2023, compared with net expense of NOK 55.1bn in 2022. Equity investments posted a gain of NOK 30.5bn, while fixed income investments posted a gain of NOK 18.6bn, compared with losses of NOK 15.9bn and NOK 38.3bn, respectively, in 2022. Net income from financial instruments also includes a gain of NOK 30.3bn as a result of foreign currency effects. Foreign currency effects in 2022 resulted in a gain of NOK 45.5bn.

#### Government Pension Fund Global

The GPFG's total comprehensive income showed a profit of NOK 2 616.4bn, comprising a gain on the portfolio of NOK 2 623.0bn net of management costs of NOK 6.6bn. Equity investments posted a gain of NOK 2 031bn, while fixed income investments posted a gain of NOK 232bn. The gain on the portfolio also includes a gain of NOK 409bn owing to foreign currency effects. Norges Bank's total comprehensive income for 2022 showed a loss of NOK 1 000.5bn, comprising a loss on the portfolio of NOK 995.3bn and costs related to the management fee of NOK 5.2bn.

Total comprehensive income for 2023 was recognised against the GPFG krone account at 31 December 2023. The return on the portfolio, after management costs reimbursed to Norges Bank have been deducted, is transferred in its entirety to the krone account and thus does not affect Norges Bank's total comprehensive income or equity.

#### Other operating income

In accordance with the management mandate for the GPFG, Norges Bank is reimbursed for its expenses related to the management of the GPFG up to a limit. Norges Bank was reimbursed by the Ministry of Finance in the amount of NOK 6.6bn in 2023, compared with NOK 5.2bn in 2022. Norges Bank also earns income from other services provided to banks and rent from external tenants. Income from these activities totalled NOK 161m in 2023, compared with NOK 149m in 2022.



Discussions in an open office landscape.

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#### Operating expenses

Operating expenses amounted to NOK 8.0bn in 2023, compared with NOK 6.4bn in 2022. NOK 6.6bn of the operating expenses in 2023 is related to the management of the GPFG, compared with NOK 5.2bn in 2022. See Note 19 in the notes to the financial statements for more details on the management fee received by Norges Bank under the management mandate. The increase in expenses compared with 2022 is mainly related to external management of the GPFG, personnel expenses, foreign currency effects and IT services, systems and data. Higher fees to external managers primarily reflect high excess return from external management and the fact that a larger share of the GPFG is managed externally. Higher personnel expenses largely reflect a strengthening of the organisation in the form of more employees.

#### Total comprehensive income

Change in actuarial gains and losses showed a loss of NOK 35m in 2023, compared with a loss of NOK 504m in 2022. Norges Bank's total comprehensive income for 2023 showed a gain of NOK 70.0bn, compared with a loss of NOK 11.1bn in 2022.

#### Distribution of total comprehensive income

The distribution of total comprehensive income follows guidelines on the reserves and on the allocation of Norges Bank's profit, laid down by Royal Decree of 13 December 2019 pursuant to Section 3-11, Sub-section 2, of the Central Bank Act. Total comprehensive income shall be allocated to the Adjustment Fund until this fund has reached 40% of the Bank's net foreign exchange reserves. Any surplus is allocated to the Transfer Fund. A third of the Transfer Fund is transferred annually to the Treasury.

Norges Bank's net gain of NOK 70.0bn will be covered by a provision to the Adjustment Fund of NOK 33.4bn and a transfer to the Transfer Fund of NOK 36.6bn. A further NOK 17.6bn will be transferred from the Transfer Fund to the Treasury. The annual transfers and allocations for 2023 were made in accordance with the guidelines.

Net gain of Nok 70bn for 2023.

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Øystein Børsum

**Arne Hyttnes** 

Egil Herman Sjursen

Second Deputy Chair

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#### Norges Bank's Executive Board

Oslo, 8 February 2024

Ida Wolden Bache

Governor/

Chair of the Executive Board

Lan thelene Ullter +. The

Karen Helene Ulltveit-Moe

Hans Aasnæs

Mona Helen Sørensen

Mona Saren

Employee representative

Pål Longva

First Deputy Chair

.....

Knishive Rysada)

Kristine Ryssdal

**Nina Udnes Tronstad** 

Truls Oppedal

Employee representative

An account of sustainability has been prepared pursuant to Section 3-3c of the Accounting Act. The report is presented in a separate document in the *Annual Report*. The report on sustainability is an integral part of the Executive Board's report.



## Norges Bank's Monetary Policy and Financial Stability Committee

The Monetary Policy and Financial Stability
Committee is responsible for Norges Bank's role as
the executive and advisory monetary policy authority
and is also tasked with promoting financial stability.

The Monetary Policy and Financial Stability Committee comprises the Governor, the two Deputy Governors and two external members.

The external members are appointed by the King in the Council of State for terms of four years. The Governor chairs the Committee, and the

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two Deputy Governors are First and Second Deputy Chairs. For more information on the Committee's members, see norges-bank.no

The Committee had 22 meetings and discussed 76 items of business in 2023.

#### The Committee's work structure

The Monetary Policy and Financial Stability Committee normally holds eight scheduled meetings a year, where policy rate decisions are made. Four of the meetings coincide with the publication of the *Monetary Policy Report*. At the interim monetary policy meetings, where the *Monetary Policy Report* is not published, the Committee also sets the level of the countercyclical capital buffer.

The Committee's meeting schedule is primarily determined by the dates of the eight monetary policy meetings. In connection with the monetary policy meetings that coincide with the publication of the *Monetary Policy Report*, the Committee meets four times. In connection with the monetary policy meetings without a report, the Committee meets twice.

Bank staff prepare and present relevant analyses and projections that provide the basis for the Committee's discussions and advise the Committee on policy decisions. To ensure that the discussion basis is as far as possible the same for all the Committee members, all have access to the same information and analyses provided by Bank staff.

The Committee is committed to transparent and clear external communication and seeks consensus on its assessments and decisions through in-depth discussion. The "Monetary policy assessment", published in connection with policy rate decisions, and the "Assessment of the countercyclical capital buffer requirement", published in connection with the buffer decisions, reflect the view of the majority. Topics of particular concern to the members in the discussions are highlighted in the assessments. Members that disagree with the assessment of the majority may dissent, and dissenting views are published together with a brief written explanation in the minutes and in the assessments published at the same time as the rate decision. All of the Committee's decisions were unanimous in 2023. To underpin the Committee's form as a collegial committee, the Committee Chair, the Governor, normally speaks on behalf of the Committee. Other Committee members may issue statements by agreement with the Committee Chair.



The Monetary Policy and Financial Stability Committee normally holds eight scheduled meetings a year, where policy rate decisions are made.



# Annual Report of the Monetary Policy and Financial Stability Committee for 2023

The year 2023 was marked by continued high inflation and rising policy rates internationally. The krone depreciated further in 2023, particularly in the period to summer. Global inflation slowed considerably towards the end of the year. Lower energy prices curbed consumer price inflation in Norway as well, but it was still clearly above target. Higher-than-expected inflation and prospects that inflation would remain high for a longer period contributed to a faster and sharper rise in the policy rate than the Committee envisaged at the beginning of the year.

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After the policy rate had been reduced to 0% during the coronavirus pandemic, Norges Bank started raising the policy rate again in autumn 2021 as economic activity recovered. In spring 2022, inflation accelerated, and the policy rate was raised further to 2.75% in the course of the year. The policy rate rise continued in 2023, partly as a result of both higher-than-expected inflation and economic activity. Higher wage growth and a depreciation of the krone contributed to pushing up inflation in the projections. To bring inflation down to target, the policy rate was raised several times, to 4.5% by the end of 2023.

Overall, the financial stability outlook did not change materially in 2023. Norwegian banks are solid and well equipped to absorb higher losses while maintaining lending activity. Creditworthy households and firms had ample access to credit through 2023. Losses have been low, but there is still an elevated risk that debt- and property price-related vulnerabilities may amplify an economic downturn. As decided in March 2022, the countercyclical capital buffer for banks was raised from 2% to 2.5% on 31 March 2023.

4.5% policy rate at end-2023.

#### Monetary policy

#### International economy

In the wake of the pandemic, consumer price inflation rose markedly internationally. Freight rates and prices for energy, metals and agricultural products rose sharply. Russia's invasion of Ukraine further pushed up prices for energy and other commodities. In many countries, inflation had not reached such a high level for several decades.

Energy prices declined towards the end of 2022 and were significantly lower throughout 2023 than the previous year. Nevertheless, gas and electricity prices were still at a high level. Oil prices rose somewhat through summer and after the outbreak of the war between Israel and Hamas in October but fell again to close to USD 80 towards the end of the year, which was about the same level as a year earlier. In 2023, cross-border goods trade flowed more normally again, and freight rates dropped. Throughout the past year, consumer price inflation slowed, particularly through the second half of the year. Underlying inflation among trading partners also slowed.

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To reduce inflation, central banks internationally have raised policy rates considerably over the past two years. When inflation slowed through autumn, market policy rate expectations fell as well. Towards the end of 2023, central banks were expected to reduce policy rates in the course of spring 2024. Most central banks communicated that it would be necessary to maintain a tight stance for some time ahead to bring inflation down to target.

Economic activity among trading partners gained further momentum in 2023, but high inflation and higher policy rates contributed to slowing growth throughout the year. Unemployment remained low, and wage growth was high in a number of countries. Growth prospects improved somewhat through the year. In December, there were prospects that economic growth would pick up somewhat in the course of 2024.

Long-term interest rates rose sharply through 2022 and towards autumn 2023, to the highest levels in over a decade. Since then, rates edged down again and were close to the levels observed a year earlier at year-end. International stock indexes advanced through 2023.

Problems at some banks in the US and Switzerland led to large movements in global financial markets in spring 2023. The authorities in the two countries intervened to reduce the contagion effects on other institutions and prevent a further amplification of the market turbulence. The turbulence only had a limited impact on funding costs for Norwegian banks and other financial institutions.

#### Financial conditions in Norway

The krone depreciated further in 2023, particularly in the period to summer. The depreciation must be viewed in the context of the larger rate hikes abroad than in Norway and the low interest rate differential. Periods of heightened uncertainty in financial markets and a fall in oil prices probably also contributed to the depreciation. After the krone had depreciated through autumn, it appreciated again following the publication of the <a href="December 2023 Monetary Policy Report">December 2023 Monetary Policy Report</a>. This is probably attributable to the fact that the policy rate hike in December was not expected in the market and that policy rate expectations abroad had fallen.



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Household interest expenses have risen as a result of the policy rate increases. From the time the rise in policy rates began in autumn 2021 and up until the end of 2023, close to 90% of the increase in the policy rate has passed through to mortgage rates. The pass-through from the policy rate to deposit rates has been close to 60%.

As a result of higher interest rates, corporate funding from banks and in the bond market has also gradually become more expensive. Higher risk premiums in the bond market have also pushed up funding costs, particularly for commercial real estate. The benchmark index on the Oslo Stock Exchange was somewhat higher at the end of the year than one year earlier.

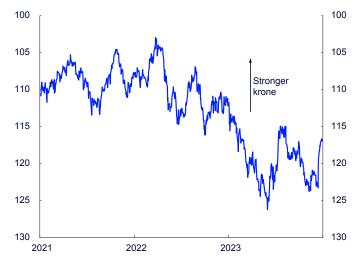
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The krone depreciated further in 2023, particularly in the period to summer.

### Norwegian economy

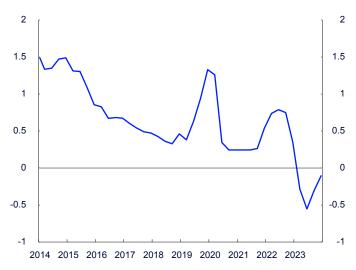
Activity in the Norwegian economy picked up rapidly after the pandemic and remained high through 2022. Savings made it possible for a large number of households to sustain consumption in spite of high inflation and higher interest rates. Unemployment fell to a low level, and the share of employment rose to the highest level in over 10 years.

**CHART 1** Krone exchange rate. Import-weighted exchange rate index (I-44). 1 January 2021 – 31 december 2023



SOURCE: Norges Bank

**CHART 2** Interest rate differential against Norway's trading partners. Three-month average. Percent 2014 Q1-2023 Q4



SOURCES: LSEG datastream and Norges Bank

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The Norwegian economy seems to have peaked towards the end of 2022. Into 2023, activity remained high, and the labour market was tight. Pressures in the economy gradually subsided, and through autumn it became increasingly evident that the Norwegian economy was cooling down. Growth was low and unemployment had edged up. According to Norges Bank's Regional Network, recruitment difficulties had eased. In November, enterprises as a whole expected a decline in activity in the next quarter.

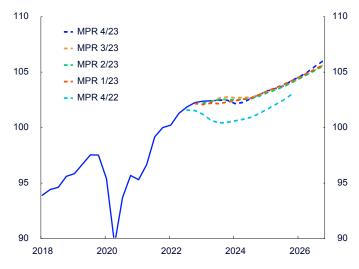
Economic activity was higher than envisaged at the beginning of the year. Household consumption and mainland business investment in particular were higher than expected. High inflation and higher interest expenses nevertheless contributed to a decline in household consumption in 2023. At the same time, housing investment fell considerably more than expected.

There were wide differences across industries, however. Oil service companies experienced strong growth owing to high petroleum investment. The depreciation of the krone improved profitability and resulted in increased activity for export-oriented enterprises. At the same time, lower household demand and weak new home sales contributed to a decline in retail trade and in the construction industry.

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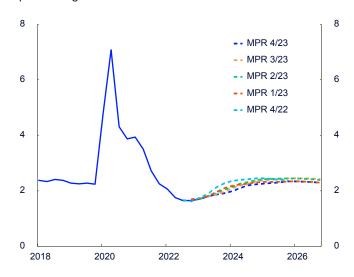
Pressures in the Norwegian economy gradually eased through 2023.

**CHART 3** GDP for mainland Norway. Projections at different times. Index. 2021 Q4 = 100. 2018 Q1-2026 Q4



SOURCES: Statistics Norway and Norges Bank

**CHART 4** Unemployment. Registered unemployed as a percentage of the labour force. 2018 Q1-2026 Q4



SOURCES: Norwegian Labour and Welfare Administration (NAV) and Norges Bank

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While sales of new homes slowed, activity held up better in the secondary housing market. The number of unsold homes rose to a high level, but resale house prices were higher than expected and were 0.5% higher in December than in the same month a year earlier.

The labour market held up better than expected in 2023. Employment continued to rise, and unemployment remained low at year-end. Wage growth rose further and was higher than projected earlier. According to Statistics Norway, annual wage growth was 5.3% in 2023, which is the highest in 15 years. The rise in wage growth reflects high inflation, solid profitability in some business sectors and continued labour market tightness. At year-end, there were prospects of high nominal wage growth in 2024 too, but probably somewhat lower than in 2023.

Consumer prices rose faster than expected through spring, and inflation was markedly above target throughout 2023. The rise in prices must be seen in conjunction with the considerable increase in business costs during recent years. Moreover, continued high demand made it possible to pass on much of the cost increases to selling prices. With rising wage growth and the krone depreciation, there were prospects that inflation would remain above target for some time. While in 2022 the sharpest price rises were primarily confined to energy, food and some other goods, rents and prices for other services increasingly contributed to the rise in prices through 2023.

Lower energy prices dampened the rise in the consumer price index (CPI) through the year. The annual rise in the CPI was 5.5% in 2023, which was slightly lower than the previous year. The consumer price index adjusted for tax changes and excluding energy products (CPI-ATE) rose by 6.2% in 2023, which is the highest annual increase since Statistics Norway began publishing the index in 2001. There was a sharp rise in prices for both imported goods and domestically produced goods and services.

High inflation has likely pushed up inflation expectations in recent years. Norges Bank's Expectations Survey shows that inflation expectations in the coming years have risen since mid-2021 but declined somewhat again towards the end of 2023. At year-end, long-term inflation expectations were still somewhat above the inflation target of 2%.



Governor Ida Wolden Bache at Arendalsuka, an annual week of events for leaders in politics and business, the media and the public held in the city of Arendal.

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Inflation was markedly above the target throughout 2023.

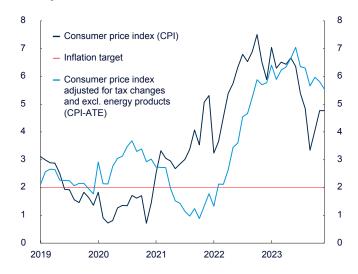
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### Monetary policy trade-offs

The operational target of monetary policy is annual consumer price inflation of close to 2% over time. Inflation targeting shall be forward-looking and flexible so that it can contribute to high and stable output and employment and to countering the build-up of financial imbalances.

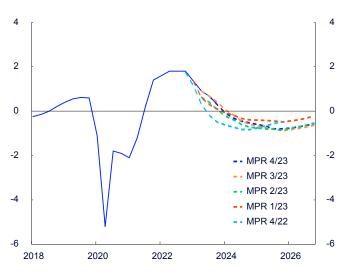
In its monetary policy assessments through 2023, the Committee emphasised that inflation was markedly above target. The inflation forecasts were revised upwards, and there were prospects that inflation would remain high for some time. Economic activity was still at a high level, and the labour market was tight. The depreciation of the krone contributed to boosting activity and increasing import prices, which made it more demanding to reduce inflation. The Committee gave weight to the need for higher policy rates to bring inflation down towards the target. The Committee's assessment was that if monetary policy was not tightened, prices and wages could continue to rise rapidly, and inflation could remain high for a long period. It could then be more costly to bring inflation down again at a later stage. The policy rate was raised both to a further extent and more rapidly than previously projected.

**CHART 5** Consumer prices. Twelve-month change. Percent. January 2019 – December 2023



SOURCE: Statistics Norway

**CHART 6** Estimated output gap. Percent. 2018 Q1–2026 Q4.



SOURCE: Norges Bank

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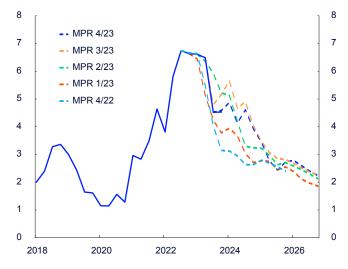
Consumer price inflation slowed after summer, but still remained markedly above target. At the same time, the Norwegian economy was cooling down. The Committee's assessment was that monetary policy was having a tightening effect on the economy and that the full effects of previous policy rate increases were yet to be seen. The Committee was concerned with the risk that a too tight stance could contribute to an abrupt slowdown in the Norwegian economy, with a risk of a rapid rise in unemployment. Weight was given to not increasing the policy rate more than needed in order to tackle high inflation. The policy rate was therefore raised more gradually towards the end of the year.

The forecasts in the <u>December 2023 Monetary Policy Report</u> indicated that the policy rate will lie around 4.5% until autumn 2024, before gradually moving down. Economic growth was projected to remain low in 2024, before picking up again. Unemployment was projected to edge up. There were prospects that inflation would recede and approach the target somewhat further out.



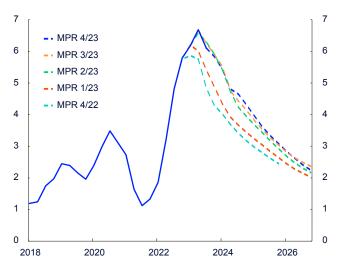
Deputy Governor Pål Longvar and Communications Director Torild Lid Uribarri held a press conference on 21 September

**CHART 7** Consumer price index (CPI). Projections at different times. Four-quarter change. Percent. 2018 Q1–2026 Q4.



SOURCES: Statistics Norway and Norges Bank

**CHART 8** CPI-ATE. Projections at different times. Four-quarter change. Percent. 2018 Q1 – 2026 Q4



SOURCES: Statistics Norway and Norges Bank

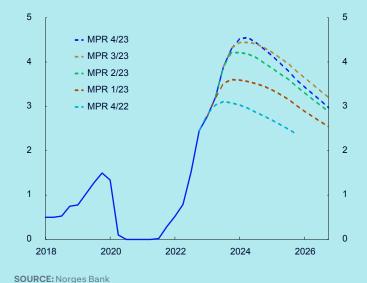
### Monetary policy through 2023

The policy rate forecast at the end of 2022 indicated a policy rate rise to around 3% at the beginning of 2023, then remaining at that level during the following year.

The policy rate path was revised upwards through 2023, particularly in the first half-year. As a result of higher-than-projected capacity utilisation and an upward revision of the inflation projection, the policy rate was raised from 2.75% to 3%, and the policy rate forecast was revised upwards at the March monetary policy meeting. The policy rate was raised further to 3.25% at the May meeting. In the period leading up to the June meeting, inflation had been appreciably higher than expected, while higher-than-projected wage growth and a weaker-than-projected krone were expected to push up inflation ahead. The policy rate was raised by 0.5 percentage point to 3.75%, and the policy rate path was revised up further. The Committee raised the policy rate further to 4% at its August meeting and to 4.25% at its September meeting. The prospect that inflation would remain high for somewhat longer than previously projected contributed to a slight upward revision of the policy rate path in September. The policy rate was kept unchanged at the November meeting.

In the period leading up to the December meeting, inflation had been lower than expected, but a weaker-than-projected krone pushed up the inflation forecast. At the December meeting, the policy rate was raised to 4.5%. In the near term, the policy rate path remained relatively unchanged, but was somewhat lower further ahead in the projection period.

**CHART 9** Policy rate Projections at different times. Percent. 2018 Q1 – 2026 Q4



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### Financial stability and the decision basis for the countercyclical capital buffer and systemic risk buffer

Since September 2021, Norges Bank has had decision-making responsibility for the countercyclical capital buffer and formalised advisory responsibility for banks' systemic risk buffer. The two buffer requirements account for a substantial portion of banks' total capital requirements. The Committee decides on the countercyclical capital buffer every quarter and advises on the systemic risk buffer at least every two years. The next time the Committee will issue advice will be in 2024.

The Committee's assessment in the semi-annual Financial Stability Report was that vulnerabilities in the Norwegian financial system remained relatively unchanged in 2023, but that there was a heightened risk that vulnerabilities could amplify a downturn in the Norwegian economy (see Financial Stability Report 2023 - H2). Many households are heavily indebted and property prices have risen considerably over many years. The buffer requirements ensure that Norwegian banks have satisfactory capital adequacy.

Over the past two years, household debt has grown less than income, and saving during the pandemic contributed to reducing household vulnerabilities. Many households have spent from their savings in the face of high inflation and higher interest rates.

House prices rose slightly in 2023. Turnover in secondary market was close to normal, but the number of unsold homes increased markedly. New home sales are at a low level. House price developments ahead are more uncertain than normal. The risk of a sharp fall in house prices is dampened by low residential construction and low unemployment.

Most households can service their debt in the face of higher policy rates and consumer prices, but indebted households are forced to spend a larger share of their income on interest expenses. A considerable number of households are compelled to reduce consumption. In the event of a sharp tightening of consumption, the result may be losses on corporate loans and an amplified economic downturn owing to tighter bank lending



At end-2023, the countercyclical capital buffer rate was 2.5%.

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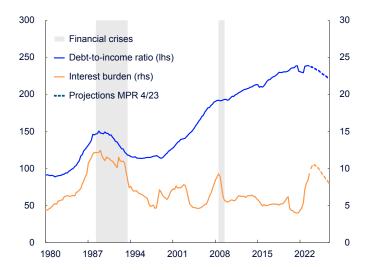
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standards. Losses are limited by banks' relatively low exposure to consumer-exposed industries. Owing to solid capital adequacy and high earnings, banks are well-equipped to absorb higher losses.

Banks' large commercial real estate (CRE) exposures are an important financial system vulnerability. During a long period, low policy rates contributed to a sharp rise in commercial real estate prices. Over the past year, prices have fallen, and price developments ahead are more uncertain than normal. CRE companies experience reduced profitability as a result of higher interest expenses, and lower CRE prices weaken their financial strength. This makes refinancing maturing loans more demanding. This may lead to fire sales of property and amplify a fall in property prices.

In spring 2023, problems at some banks in the US and Switzerland led to large movements in financial markets. Norwegian banks remained relatively unaffected, and creditworthy households and firms have had ample access to bank credit. In Norges Bank's quarterly lending surveys in 2023, banks as a whole reported approximately unchanged credit standards for households and firms through the year, but at the same time some tightening for CRE companies.

**CHART 10** Household debt ratio and interest burden. Debt as a share of disposable income and interest expenses as a share of after-tax income. Percent. 1980 Q1 – 2026 Q4.



SOURCES: Statistics Norway and Norges Bank

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The objective of the countercyclical capital buffer is to strengthen banks' resilience and prevent banks' credit standards from amplifying an economic downturn. In March 2022, the Committee decided to increase the countercyclical capital buffer rate from 2% to 2.5% with effect from 31 March 2023. The requirement has remained unchanged through 2023. The buffer helps ensure that banks are well equipped to absorb higher losses. The requirement for the systemic risk buffer is 4.5%. The requirement reflects the assessment of structural vulnerabilities such as high household debt, banks' high commercial real estate exposures and the fact that one bank's funding is another bank's liquidity reserves. Banks meet capital and liquidity requirements by a good margin, have solid profitability, and interest margins have increased since the policy rate rise began in 2021. Losses have been low. The interest margin is expected to decline and losses to increase somewhat, but profitability will likely continue to be high.

Norges Bank's Monetary Policy and Financial Stability Committee Oslo, 24 January 2024

Ida Wolden Bache

Ingold Alum

Governor/

Chair of the Executive Board

Pål Longva

First Deputy Chair

Øystein Børsum

Second Deputy Chair

Ingvild Almås

Steinar Holden

Sternar Wolden



# Corporate social responsibility and sustainability

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Sustainable development and a transition to net-zero emissions are important for society and the economy, and are of importance to us as a central bank and manager of the Government Pension Fund Global (GPFG), as well as an employer and workplace. Norges Bank has drawn up a <u>sustainability strategy</u>, which includes our objectives for our work on climate and the environment, society and social conditions, corporate governance, ethics and culture.

This section provides an overview of Norges Bank's work with key sustainability topics. Among other things, it discusses what the Bank does to ensure a sound working environment and promote diversity and gender equality and describes the Bank's work on climate risk and climate impact.

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### Sustainability strategy

Norges Bank's sustainability strategy is divided into three main areas with specified objectives for each area. The full strategy is published on Norges Bank's website.

### Climate and the environment

- Norges Bank is committed to working to reduce emissions from its own operations in line with the ambitions of the Paris Agreement.
- Norges Bank will be an active owner and a driving force for investee companies to achieve net zero emissions by 2050.
- Norges Bank will increase its understanding of the impact of climate change and energy transition.

### Society and social conditions

- Norges Bank will promote a culture of diversity, inclusion and equal opportunities.
- Norges Bank will promote professional development so that staff enjoy their work, are challenged and gain the skills necessary to meet new challenges.
- Norges Bank will promote human and workers' rights through responsible investment and in its procurement processes.

### Corporate governance, ethics and culture

- Norges Bank will enable its employees and partners to make sustainable choices.
- Norges Bank will report on its sustainability work in line with best practice.
- Norges Bank will support the development of standards for wellfunctioning markets, good corporate governance and responsible business practices



# Our employees

Norges Bank's employees are the Bank's most important resource. At the end of 2023, Norges Bank had 1 079 permanent employees. Of these, 654 were employed in Norges Bank Investment Management, 417 in Central Banking and 8 in the Office of the Supervisory Council.

Norges Bank is a global organisation with 25% of its employees at offices in London, New York and Singapore. In addition, the Bank has real estate offices in Paris, Luxembourg and Tokyo. Norges Bank has employees representing 38 different nationalities, 12 in Central Banking and 37 in Norges Bank Investment Management.

# Norges Bank employees

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38 nationalities

1079 permanent employees



654 Norges Bank Investment Management

417 Central Banking

8 Office of the Supervisory Council

Norges Bank also has real estate offices in Tokyo, Luxembourg and Paris with a total of 23 employees.

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### Attractive and future-fit workplace

Norges Bank promotes the well-being of all employees so that they are challenged and have the expertise to fulfil the Bank's mission. Norges Bank's employees are the Bank's most important resource, which is why the Bank must attract, develop and retain skilled and engaged employees. A sound and safe working environment must be standard for all the Bank's employees and others who work in the Bank. The Bank has facilitated a flexible working arrangement with the opportunity to work outside the office.

On an annual basis, the Bank conducts a comprehensive staff survey that also measures and assesses employee engagement, well-being and effectiveness. The survey is an important tool in the Bank's work to develop its employees, organisation and workplace. Survey results are discussed by the Executive Board, management groups and various working committees, and measures are implemented based on management and individual team discussions.

Compared with other organisations across the Norwegian labour market, Norges Bank has a higher average score in all comparable areas. The working environment is generally seen as supportive and appreciative. In 2023, the areas of work-life balance, autonomy and personal development opportunities have shown improvements.

To ensure sound employment relationships, active cooperation between management and employee representatives has been established through the Working Environment Committee and the Bank's safety representatives.

In the assessment of Norges Bank's operations, nothing was identified that would suggest a risk of, or grounds to assume the occurrence of, violations of either fundamental human rights or decent working conditions at the Bank.

<u>Pages 52 to 63</u> describe Norges Bank's work on equality and antidiscrimination, in accordance with Norway's activity duty and the duty to issue a statement.



Norges Bank's employees are the Bank's most important resource

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### Diversity and inclusion

The Executive Board has laid down HR principles at Norges Bank. These include work on equity, anti-discrimination, diversity and inclusion. Under the Bank's ethical rules there is zero tolerance for discrimination, harassment or bullying. Norges Bank sets clear requirements and expectations that employees must be treated with respect and strives to maintain a culture where it is viewed as positive to report wrongdoing and unacceptable conditions. The Bank's ambitions for the working environment are set in its work on strategy and action plans.

Norges Bank aims to be recognised as a leading institution in its fields of expertise and believes that increased diversity and inclusion are beneficial. Diversity adds perspectives, stimulates creativity and improves decision-making. The Bank seeks to safeguard diversity and inclusion in its processes to recruit, develop and retain employees and managers.



Diversity promotes creativity and better decisions.



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When recruiting, the Bank starts with the department's overall needs and discusses how the recruitment process can be designed to complement team diversity. Salary discussions, development and succession planning are seen in context to safeguard both equal rights and equal opportunities for promotion to senior and management roles.

Norges Bank's annual staff survey measures employee engagement and underlying factors such as leadership and collaborative culture. The 2023 survey showed that women and men experience equal opportunities for development in their roles.

The share of employees reporting bullying and harassment in the staff survey is low and, in some units, lower compared with 2022.

### Gender balance and distribution

Norges Bank is committed to the Women in Finance Charter and its ambition of increasing the share of women in financial institutions, particularly in management and specialist positions. This is done by setting specific targets, management accountability and systematic work in HR processes such as recruitment, advancement and succession planning. Through the development of various HR data, staff surveys, performance appraisals and HSE work, the Bank also works systematically to identify the risk of discrimination or other obstacles to gender equality.

At the end of 2023, 393 women and 686 men were employed in Norges Bank, ie a 36% share of women, which is an increase from 35% in 2022 and 34% in 2021. The share of women in Norges Bank Investment Management was 33% in 2023, an increase from 29% in 2022 and 27% in 2021. In Central Banking, the share of women was 42% in 2023, a reduction from 43% in 2022 and 44% in 2021. The relocation of employees from one operational area to another, in connection with reorganisation, largely explains the internal changes between 2022 and 2023.



Norges Bank has committed itself to the Women in Finance Charter, with the ambition of achieving an increased share of women in the financial sector.

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TABLE 2 Share of women and men by job category at Norges Bank's head office in Oslo

Job category	20	023	20	)22	2021		
	Share of men	Share of women	Share of men	Share of women	Share of men	Share of women	
Executive director	58%	42%	88%	12%	80%	20%	
Head of department	76%	24%	75%	25%	76%	24%	
Head of section	64%	36%	62%	38%	68%	32%	
Chief analyst <sup>1</sup>	100%	0%	100%	0%	-	-	
Special advisor	75%	25%	72%	28%	71%	29%	
Senior advisor	57%	43%	61%	39%	65%	35%	
Advisor	56%	44%	50%	50%	51%	49%	
Analyst <sup>1</sup>	51%	49%	65%	35%	-	-	
Consultant	56%	44%	56%	44%	47%	53%	
Support staff	0%	100%	0%	100%	0%	100%	

In 2022, the job categories analyst and chief analyst were established in the framework for job categories across Central Banking and Norges Bank Investment Management. Previously, these were included in the categories advisor and special advisor, which will therefore entail a change to the job category sample for 2022.

The gender balance within certain job categories reflects current labour market challenges. Fewer women than men apply for management positions and for positions in the financial and IT sector in general. At the end of 2023, the gender balance was in line with a target of at least 40% in most of the job categories below management level. Developments at management level are positive and in line with the target for Executive Directors. For other management and specialist categories, the target has not been reached.

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TABLE 3 Share of women in executive and specialist positions<sup>1</sup>

Library comm	20	)23	2022		
Job category	Share of men	Share of women	Share of men	Share of women	
Executives in Norges Bank overall	70%	30%	72%	28%	
Executives in Central Banking	67%	33%	67%	33%	
Executives in Norges Bank Investment Management	72%	28%	77%	23%	
Specialists in Norges Bank overall	77%	23%	76%	24%	
Specialists in Central Banking	73%	27%	69%	31%	
Specialists in Norges Bank Investment Management	80%	20%	80%	20%	

<sup>1</sup> Specialists include chief analysts and special advisors

Under <u>Strategy 25</u>, the Bank will continue to pursue and intensify its efforts to promote diversity and inclusion by also implementing further measures to improve gender balance. In its efforts to achieve the gender balance target of at least 40%, both overall in the Bank and among executives and specialists, Norges Bank works to highlight female employees in the Bank as role models in various arenas. In addition, women across the organisation are encouraged to apply for senior positions internally. In the period ahead, the Bank will make dedicated efforts to ensure that recruitment and promotion processes, development activities and succession plans provide candidates and employees with equal opportunities.

### Part-time and temporary employees

Most employees at Norges Bank are employed on full-time contracts. Involuntary part-time work is therefore not considered a challenge. The majority of temporary employment contracts at Norges Bank are related to research and some hourly paid work.

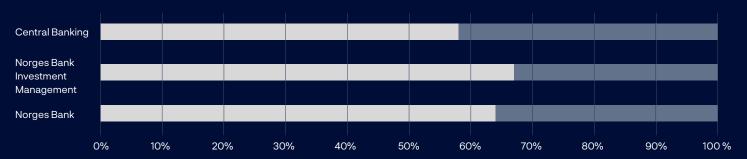
**Table 4** Share of temporary and part-time employees at Norges Bank's head office in Oslo

	Men	Women
Share of temporary employees	1.30%	1.20%
Share of part-time employees	0.30%	0.80%

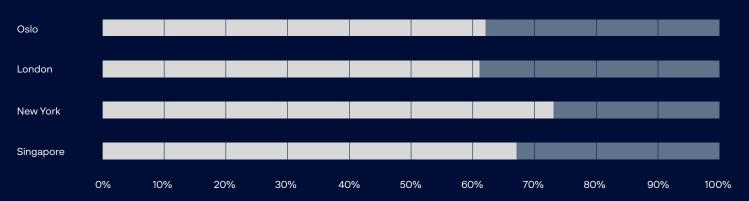
# Gender balance



### Gender balance per operational area

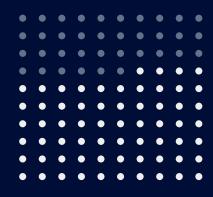


### Gender balance per office



Graduates in Norges Bank Investment Management

Student internships in Central Banking



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### Recruitment

Norges Bank works systematically to attract and recruit the best candidates from among the foremost national and international professionals. Variation in experience and perspectives is desirable, and to increase diversity in the organisation, the Bank recruits across nationality, gender, age, background, knowledge and skills.

Through Norges Bank's Knowledge Centre, corporate presentations and lectures at schools and universities, the Bank works to increase students' and pupils' knowledge of the Bank. Through the Norges Bank Teaching Initiative and NBIM Teach, Bank staff offer lectures on economics, finance and technology at universities. The Bank also organises an annual nationwide case competition for students. Both Central Banking and Norges Bank Investment Management offer part-time student internships. An important focus area in Norges Bank Investment Management to attract young talent is summer trainee positions for students and the graduate programme.

There has been a significant increase in the applicant pool in the period between 2022 and 2023, reflecting increased focus on recruitment efforts, more targeted recruitment communication and a looser labour market.

In Central Banking, the gender distribution among applicants in 2023 was 65% men and 35% women, with 56% men and 44% women employed. The corresponding figures for Norges Bank Investment Management were 66% men and 23% women among applicants (11% did not wish to disclose their gender), with 61% men and 39% women employed.

### Management and employee development

Expectations of Norges Bank's leadership role are clarified through the introduction of management principles. Managers must promote employees and build common culture through regular follow-up and targeted, inclusive and supportive management. The management principles are highlighted at management meetings and training sessions throughout the year.



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As a supplement to the management principles, Norges Bank Investment Management has launched employee expectations, thereby adopting a holistic approach to manager and employee interaction.

Offering managers and employees development opportunities is an important part of retaining motivated and engaged employees. The Bank has updated development processes to facilitate positive discussions on individual and team development.

The Bank regularly works on skills development. In 2023, the Bank, among other things, held courses on energy transition, dissemination and various forms of data analysis. Through access to an online course platform, employees gain access to thousands of courses from leading universities. Employees can also apply for residency and further training at other academic institutions.

Through temporary internships in other units, the Bank facilitates for employees to gain experience across operational areas and increase understanding across disciplines. Employees may also apply for residency at other central banks and other relevant institutions.

In 2023, Norges Bank Investment Management introduced a career framework with a professional development path. This means that all of Norges Bank has a career framework with a career ladder that describes responsibilities at various levels, so that steps to achieve career progression are clear.

The Bank works with succession planning to provide opportunities for internal candidates and to avoid vulnerabilities related to critical positions and expertise. In the period ahead, the Bank will ensure that development and succession planning are safeguarded holistically and strategically across departments, in order to safeguard diversity, development opportunities and gender balance in senior and management roles.

The Bank facilitates a gradual transition to retirement when desired.

Through the retiree consultant scheme, an experienced workforce can be retained and the Bank can help employees participate in working life even after the transition to retirement.



Special advisor Arne Kloster was the winner of the Norges Bank Blogg Award for his blog post "Hvordan skapes penger?" [How is money created?].

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### Salaries and salary differences

The Executive Board sets the framework for Norges Bank's remuneration schemes and monitors how they are put into practice. Salary levels are to be competitive, but not market-leading. Salary determination is individual and reflects the responsibilities of the position, competence, experience and achievements of the position holder.

The remuneration system in investment management follows, with necessary adjustments, the requirements of the regulation pursuant to the Act on Securities Funds in line with the mandate for the management of the GPFG laid down by the Ministry of Finance. The Remuneration Committee of the Executive Board contributes to thorough and independent consideration of matters relating to Norges Bank's remuneration schemes. In addition, Internal Audit at Norges Bank provides an independent opinion on compliance with the rules and guidelines for remuneration. A review in 2023 confirmed that the 2022 salary system had been practised in line with regulations. There have been no significant changes to the scheme in 2023.

See also Note 15 to the annual financial statements for further information on the payroll system and benefits to senior executives and governing bodies.

For the Bank as a whole, women's salary as a share of men's average fixed salary is 78%. At the Oslo office, this share is 86%. Broken down between Central Banking and Norges Bank Investment Management, the share is 86% and 88%, respectively. For all Norges Bank Investment Management employees, including the offices abroad, the share is 79%.

Tables 5-8 show the Bank's survey of wage differences, fixed salaries and remuneration paid at the head office in Oslo. Job categories are based on management levels in the Bank and the job structure for employees in the Bank's agreements. Total remuneration includes fixed salary, performance pay and paid overtime. All employees working on investment decisions are eligible for performance pay. Figures for fixed salaries and remuneration paid are rounded to the nearest NOK 1000.



Salary levels are to be competitive, but not market-leading.

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The tables highlight variation in the wage gap within some job categories. The Bank works systematically to ensure that remuneration is in line with the principle of equal pay for positions with an equal degree of responsibility and complexity, and regularly analyses salary and salary developments among employees to ensure fair wage practices. The analysis compares compensation for comparable roles, at the same level and the same location. Any deviations at the individual or group level are investigated further to ensure that gender-neutral criteria are applied.

Salary differences between women and men in Central Banking are most pronounced in lower job categories. The differences reflect the uneven gender distribution within different fields of expertise. In some areas of expertise where men dominate, salary levels are higher owing to market conditions. The substantial differences in remuneration paid reflect a preponderance of men in certain fields of expertise involving tasks that require more overtime.

In Norges Bank Investment Management, differences in salary between men and women reflect a preponderance of men in positions involving investment decisions. Positions with investment responsibility generally offer higher salaries in the market compared with positions at the same level in other fields of expertise.

For both operational areas, the preponderance of men in higher positions contributes to the difference between men and women in the figures for total pay. The Bank's work to improve gender balance among managers and specialists will contribute to reducing salary differences.

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TABLE 5 Fixed salaries by job category in Central Banking

Central Banking	Number of	employees	Median	fixed salary	Wage gap – women's pay as a percentage of men's pay	Average fixed salary		Wage gap – women's pay as a percentage of
	Men	Women	Men	Women		Men	Women	men's pay
Head of department	19	10	1628 000	1585 000	97%	1684000	1 615 000	96%
Head of section	17	9	1235 000	1251000	101%	1278 000	1319 000	103%
Special advisor	80	32	1247000	1228 000	98%	1277 000	1229 000	96%
Senior advisor	72	68	982 000	940 000	96%	997000	965 000	97%
Advisor	19	28	835 000	772 000	93%	813 000	785 000	97%
Analyst	8	9	635 000	626 000	99%	642 000	629 000	98%
Consultant	14	11	781000	710 000	91%	786 000	666 000	85%

TABLE 6 Total remuneration by job category in Central Banking

Central Banking	Number of employees		Median fixed salary		Wage gap – women's pay as a percentage of	Average fixed salary		Wage gap – women's pay as a percentage of
	Men	Women	Men	Women	men's pay	Men	Women	men's pay
Head of department	19	10	1633 000	1585 000	97%	1710 000	1 615 000	94%
Head of section	17	9	1235 000	1251000	101%	1290 000	1319 000	102%
Special advisor	80	32	1274 000	1303 000	102%	1307000	1293 000	99%
Senior advisor	72	68	1016000	970 000	95%	1033 000	994000	96%
Advisor	19	28	850 000	797 000	94%	888 000	799 000	90%
Analyst	8	9	655 000	640 000	98%	659 000	641000	97%
Consultant	14	11	863 000	713 000	83%	872 000	677 000	78%

### TABLE 7 Fixed salaries by job category in Norges Bank Investment Management

Norges Bank Investment Management	Number of employees Median fixed salary		Wage gap – women's pay as a percentage of		xed salary	Wage gap – women's pay as a percentage of		
Management	Men	Women	Men	Women	men's pay	Men	Women	men's pay
Head of section	25	15	1540 000	1540 000	100%	1614000	1560 000	97%
Special advisor	64	17	1383 000	1370 000	99%	1456000	1376 000	95%
Senior advisor	84	49	1055000	1050 000	100%	1077000	1090000	101%
Advisor	48	24	818 000	808 000	99%	837 000	807000	96%
Analyst	16	14	638 000	625 000	98%	642 000	640 000	100%

### TABLE 8 Total remuneration by job category in Norges Bank Investment Management

Norges Bank Investment Management	Number of	employees	Median	fixed salary	Wage gap – women's pay as a percentage of	S pay as Average fixed salary		Wage gap – women's pay as a percentage of
Management	Men	Women	Men	Women	men's pay	Men	Women	men's pay
Head of section	25	15	1700 000	1572 000	92%	1732 000	1608000	93%
Special advisor	64	17	1625000	1450 000	89%	1785 000	1504000	84%
Senior advisor	84	49	1108 000	1130 000	102%	1176 000	1137 000	97%
Advisor	48	24	838 000	818 000	98%	859 000	835 000	97%
Analyst	16	14	643 000	643 000	100%	645 000	647 000	100%

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For privacy reasons, there must be at least five of each gender per job category to be able to publish pay data. For certain job categories or for the offices abroad, it is therefore not possible to show the results of the survey.

### Health, safety and the environment

In the annual staff survey, incidents related to discrimination and undesirable behaviour are also identified. The survey covers both the physical and psychosocial working environment. Overall, the results of the survey show that our employees enjoy working at Norges Bank.

In 2023, Norges Bank continued its efforts to promote a positive psychosocial working environment. Several initiatives throughout the year have focused on how managers and employees ensure a positive working environment and the significance of psychological safety and communicative openness in the working environment.

Norges Bank works closely with the occupational health service and has continued to develop the Bank's systematic HSE work in 2023. In order to reduce the risk of musculoskeletal disorders, the occupational health service has contributed with ergonomic adaptation of the workplace in both the office and the home office. The Bank has good training facilities and has provided facilities to enable employees to cycle to work. In the ongoing work to upgrade the head office, emphasis is placed on improving the indoor climate.

The safety representative service, with safety representatives and chief safety representatives, does an important job of safeguarding employees' interests in working environment matters. They are consulted during the planning and follow-up of working environment measures. Management effectively cooperates with the safety representative service and the Working Environment Committee, with a strong mutual commitment to safeguarding the systematic HSE work.

Sickness absence in Norges Bank is stable at a low level and was 2.1% in 2023, down from 2.3% in 2022. The Inclusive Working Life Agreement (IA agreement) now covers all areas of the Norwegian labour market, and the Bank works systematically to prevent sickness absence. The practice of additional self-certification days for employees has been retained, in line with the intentions of the IA agreement.



Sickness absence at Norges Bank is stable at a low level.

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In 2023, 11 HSE-related incidents related directly to work in the Bank's office premises, courses or conference centre were reported. No injuries or accidents have been sufficiently severe to require reporting to the Labour Inspection Authority.

**TABLE 9** Parental leave<sup>1</sup> of head office employees in Oslo

	Men	Women
Average number of weeks of parental leave	7.8	15.4

Number of weeks taken out in the calendar year and not the number of weeks the employee has taken out in total.

Norges Bank offers fully paid gender-neutral parental leave of 16 weeks in addition to 10 weeks of maternity leave for employees at all the Bank's offices abroad.

### Cooperation with trade unions

The relationship between the Bank's management, the employees and their representatives is based on dialogue, trust and mutual respect. The Bank's management maintains close contact with the trade unions, for example in employee and personnel committees, in the Working Environment Committee and in regular contact meetings with trade union representatives at several levels in the Bank. The employees have two representatives on the Executive Board who are involved in dealing with administrative matters.

### Rules on ethics and personal trading

The Executive Board's ethical principles state that Norges Bank shall maintain high ethical standards, respect human rights, act in a socially responsible manner and comply with applicable laws and regulations. The rules cover, inter alia, employees' personal trading, handling of conflicts of interest, gifts and loyalty to the bank in general. In autumn 2023, the Executive Board updated the ethical principles that apply to all employees. The Governor of Norges Bank and the CEO of Norges Bank Investment Management regularly update supplementary rules adapted to the different tasks and risk of conflicts of interest in Norges Bank's two operational areas.



Norges Bank's management maintains close contact with the trade unions.

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The Ministry of Finance has adopted separate rules on impartiality for members of Norges Bank's Executive Board and members of the Monetary Policy and Financial Stability Committee. This impartiality policy was updated with effect from 1 April 2023. As a supplement, the Executive Board has adopted separate rules on conflicts of interest and restrictions on personal trading for the external members of these two bodies. These regulations were also updated in 2023.

Norges Bank has zero tolerance for all forms of corruption. A framework and programme to counteract corruption has been established, which includes management support, risk management, ethical rules, processing of whistleblower reports, procurement procedures, background checks of employees and suppliers, financial reporting and systematic training and controls. In 2023, special training was conducted in the handling of conflicts of interest and anti-corruption measures for all employees of Norges Bank Investment Management. There were no known incidents related to corruption in 2023.

Considerable emphasis is placed on training and raising awareness of the most important risk areas. Measures include introductory courses, one-on-one training, annual tests and confirmation from all employees that they have reviewed the ethical rules. Employees are obliged to report on various matters related to the ethical rules, and all reporting is continuously checked by the compliance functions.

The Executive Board has laid down principles for internal whistleblowing on misconduct at Norges Bank. There are whistleblowing routines where employees and employees of suppliers can report anonymously about unethical or illegal behaviour. All reports must be treated in a proper manner, in accordance with external and internal whistleblowing requirements, and without the risk of retaliation against the whistleblower. In 2023, three whistleblowing cases were reported.



# Responsible investment management of the Government Pension Fund Global

### Work on climate risk in the Government Pension Fund Global

Climate risk management is an integral part of the responsible investment management of the Government Pension Fund Global (GPFG). The 2025 Climate action plan describes the Bank's work on managing climate risk and the measures we plan to implement during the period 2022-2025. The purpose of this work is to improve market standards, including frameworks for climate reporting, increase the portfolio's resilience to climate risk, and implement a targeted active ownership.

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The core of this work is active ownership to drive investee companies towards net zero emissions by 2050, and for them to set credible targets and plans for reducing their direct and indirect greenhouse gas emissions (scopes 1, 2 and 3). By the end of 2023, 27% of the investee companies had set 2050 net zero targets based on recognised standards such as the Science Based Targets initiative (SBTi) or similar initiatives. If weighted according to emissions, such targets cover about 68% of the fund's investee companies' emissions (scopes 1 and 2).

The 2025 Climate action plan also aims for more disclosures on climate risk in the portfolio. The disclosures will be developed in line with leading international standards and are included in the GPFG's overall reporting on responsible investment. Among other things, a separate overview of climate risk is presented, which follows the recommendations of the Task Force on Climate-related Financial Disclosures (TCFD). Analyses and stress tests against various climate scenarios are presented, including a scenario consistent with global warming of 1.5 degrees Celsius. The methods for such analyses are still evolving and do not provide a basis for ranking direct financial outcomes of various climate scenarios. The stress tests nevertheless illustrate the potential effects of climate change on future risks and returns.

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### Indicators for measuring climate risk

In accordance with the Greenhouse Gas (GHG) Protocol, emission measures are divided into three scopes, depending on how closely related they are to the process or activity:

Scope 1 comprises all direct GHG emissions

Scope 2 comprises all indirect GHG emissions from purchased electricity

Scope 3 comprises other indirect emissions

### **Carbon intensity**

Carbon intensity is an indicator for calculating the GHG emission intensity of a process, activity, service rendered or a portfolio of financial assets. Carbon intensity is used by asset managers to express the carbon footprint of investment portfolios, as recommended by the Task Force on Climate-related Financial Disclosures (TCFD). In manufacturing, carbon intensity is expressed in tonnes of  ${\rm CO_2}$  equivalent per unit of output (kg, litre, kwh). In equity management, carbon intensity is used to understand the volume of emissions related to earnings of investee companies. Norges Bank reports annually on the carbon intensity of the GPFG's equity and corporate bond portfolio and the equity portfolio of the foreign exchange reserves, for scopes 1 and 2.

### **Financed GHG emissions**

Financed GHG emissions are an alternative indicator originating from the Partnership for Carbon Accounting Financials (PCAF) and their guidelines on how financial institutions should report carbon emissions across asset classes. Norges Bank Investment Management became a formal member of PCAF in 2023. Financed emissions are calculated by multiplying a company's total emissions by the investor's financed share of the company's value, including both equity capital and debt. Norges Bank reports annually on the financed emissions of the GPFG's equity and corporate bond portfolio and the equity portfolio of the foreign exchange reserves, for scopes 1, 2 and 3.

Norges Bank has measured and published the carbon footprint of investee companies in the equity portfolio and benchmark index since 2014, based on reported and modelled data for scope 1 and 2 emissions. This year we have also provided an estimate for the equity portfolio's financed scope 3 emissions. Although they are subject to uncertainty, carbon footprint analyses provide insight into the extent of greenhouse gas emissions of investee companies in which the GPFG is invested. The analysis can also

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provide insight into risks and opportunities across industries. There are still many companies that do not report their emission data or whose reporting still varies in frequency and quality. Large parts of the GPFG's carbon footprint have therefore been calculated using models.

Norges Bank's reporting of the GPFG's financed emissions is in line with guidance from PCAF. The GPFG's financed emissions for scopes 1 and 2, were 59 million tonnes of  $\mathrm{CO}_2$  equivalent in 2023, which is 12% lower than the corresponding figure for the benchmark index. The financed emissions for scope 3 are estimated at 61 million tonnes of  $\mathrm{CO}_2$  equivalent, which is 8% lower than the benchmark index. This is based on an estimation model that the Bank has reason to believe underestimates actual scope 3 emissions. The Bank has used a single source for reported and estimated emission data, as recommended by the PCAF.

Investee companies in the GPFG's equity portfolio emitted 104 tonnes of  $\rm CO_2$  equivalent per million USD in revenue, based on data reported or estimated in 2023. This is referred to as the equity portfolio's carbon intensity in 2023, 8% lower than that of the benchmark index, and 23% lower than in 2022. For corporate bonds, the portfolio's carbon intensity was 124 tonnes of  $\rm CO_2$  equivalent per million USD in revenue, which is 2% higher than the carbon intensity of the benchmark index, and 7% lower than in 2022. The change since 2022 partly reflects increases in the revenues of emission-intensive companies owing to energy and commodity price developments.

The Bank's understanding of the effects of climate change on the global economy and financial markets will develop in the future. At the same time, governments will introduce new regulations, new technological advances will be seen, consumer preferences will change, and companies will adapt their strategies accordingly. These developments will affect the GPFG's climate risk. Given the GPFG's mandate and investment strategy, the GPFG's climate risk will primarily depend on government measures that ensure an orderly and predictable climate transition, and on companies achieving their net zero targets.

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# Work on climate risk in real estate management in the Government Pension Fund Global

We consider climate change in our real estate investments. The Bank's real estate portfolio is exposed to both physical climate risk, such as extreme weather, gradually rising sea levels and flooding, and transition risk, such as a statutory reduction of energy consumption or lower demand for buildings with high emissions. A growing number of tenants are setting targets for net zero emissions for their own businesses, and therefore prefer energy efficient buildings powered by renewable energy sources. The 2025 Climate action plan sets targets for net zero emissions by 2050 for the real estate portfolio and reduced operational carbon emissions intensity (scopes 1 and 2) by 40% by 2030. In order to achieve these targets, the Bank will work to reduce emissions linked to the real estate portfolio and integrate climate risk assessments into investment processes.

The Bank measures progress towards the net zero target in the real estate portfolio using emission pathways consistent with global warming of 1.5 degrees Celsius for various real estate markets, developed by the Carbon Risk Real Estate Monitor (CRREM). By the end of 2022, 41% of the unlisted real estate portfolio by value was aligned with the CRREM decarbonisation pathway. The portfolio is also measured against the Global Real Estate Sustainability Benchmark (GRESB). In 2023, the real estate portfolio achieved a total point score of 83 out of 100. This is 7 percentage points higher than the score of comparable investment portfolios that report to GRESB.

Further information on the work on climate risk in the GPFG is presented in the report <u>Responsible investment Government Pension Fund Global</u> and the publication on climate risk on Norges Bank Investment Management website.



Climate change is a key consideration for real estate investment.

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## Responsible investment management of the Government Pension Fund Global

The Executive Board has laid down principles for responsible investment management in Norges Bank. The principles are based on international principles and guidelines for sound corporate governance and responsible business conduct from the United Nations (UN) and the Organization for Economic Co-operation and Development (OECD). The objective for the management of the GPFG is to achieve the highest possible return with acceptable risk. Responsible investment supports the GPFG's objective in two ways. First, by promoting long-term value creation in investments. Second, by reducing the financial risk associated with environmental and social conditions in companies. Separate due diligence assessments are conducted, seeking to identify and manage investments with a risk of negative impact on people and the environment.

The GPFG's mission is to safeguard and develop financial assets for future generations. The management mandate states that work on responsible investment shall be integrated into the management of the GPFG. Long-term returns depend on sustainable growth, well-functioning and legitimate markets and sound corporate governance. Work on responsible investment can be divided into three main areas: the market, the portfolio and the companies.



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### Market

The GPFG is a global fund. It owns a small portion of over 8 800 listed companies in 72 countries and benefits from global solutions to address common challenges such as climate change. Norges Bank contributes to the development of relevant international standards, and is, for example, represented by the Vice-Chair of the International Sustainability Standards Board (ISSB)'s Investor Advisory Group (IIAG). In 2023, Norges Bank participated in 27 public consultations related to responsible investment. All consultation responses are published on Norges Bank Investment Management's website. The consultations addressed important issues such as corporate reporting, corporate governance and responsible business conduct.

Norges Bank supports selected initiatives in which several companies or investors join forces to find common standards for sustainable business. Such initiatives are particularly appropriate when several companies in one industry or value chain face the same challenge. Norges Bank currently participates in a number of different collaborations with investors, companies and civil society.

Norges Bank participates, within the scope of its management mandate, in initiatives that do not impose constraints on its voting or investment decisions, or primarily target political authorities. Norges Bank makes thorough assessments of cost, complexity and benefit before it launches or enters into an initiative.

Since 2008, Norges Bank has formulated clear expectations for how investee companies should address relevant sustainability challenges linked to their operations, and emphasised that their boards should establish appropriate strategies, control functions and reporting procedures. The expectations form the basis for dialogue with investee companies and the investee companies' work is measured against these expectations on an annual basis. In 2023, Norges Bank presented new expectations concerning investee companies' management of consumer interests. During the year, Norges Bank's expectations of how investee companies address challenges and opportunities related to climate change, biodiversity and ecosystem services, as well as tax and transparency, were updated. The Bank has also presented its positions on different corporate governance issues in order to enhance corporate governance and protect stakeholder interests.



In 2023, Norges Bank participated in 27 public consultations related to responsible investment.

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### **Portfolio**

Norges Bank assesses corporate governance and sustainability to gain a better understanding of risks and opportunities associated with investments. The GPFG monitors how the portfolio is exposed to risks and identifies industries and companies for further follow-up. To carry out these analyses, relevant, comparable and reliable data on environmental, social and governance issues must be available. Norges Bank therefore encourages investee companies to move from words to numbers in their reporting to provide a better understanding of financial opportunities and risks.

Norges Bank uses four main approaches to identify and manage risks associated with environmental, social and governance conditions in the portfolio. The first is quarterly pre-screening companies due to enter the GPFG's benchmark index for equities. The second is continuous monitoring of investee companies through daily analyses of news reports, as well as more in-depth thematic analyses of specific markets and sectors. The third approach involves conducting quarterly due diligence assessments on investee companies against Norges Bank's sustainability expectations. The fourth approach is thematic analysis of particular ESG topics.

When Norges Bank identifies companies with heightened ESG risk, further analysis is conducted to assess whether dialogue should be initiated with the company, whether Norges Bank's voting should be affected, or whether the company should be considered for a risk-based divestment. Relevant information is also shared with the Council on Ethics, an independent body established by the Ministry of Finance.

To limit the GPFG's exposure to unacceptable risk, Norges Bank can, within the limits of the mandate, divest from investee companies. This applies principally to activities that burden other companies and society as a whole with substantial costs, which are therefore deemed unsustainable in the long term. Risk-based divestments may be appropriate if it is considered that the investee company poses particularly high long-term financial risk if investments are not substantial and if active ownership is not considered to be a suitable instrument. Unlike ethical exclusion, risk-based divestments are made within the limits of the management mandate and are not based on independent advice from the Council on Ethics.

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In 2023, Norges Bank divested from 86 investee companies following risk assessments related to environmental, social and governance issues. The Bank has divested from a total of 526 investee companies since 2012. Since 2012, risk-based divestments have contributed positively to the cumulative return on equity management by 0.44 percentage point, or about 0.02 percentage point annually.

Norges Bank identifies investment opportunities by analysing, among other things, companies' governance, operations and environmental and social risks and opportunities. In emerging markets, the GPFG can also benefit from the knowledge of external managers with in-depth knowledge of the markets, industries and companies in which they are invested. This is particularly important as it can often be difficult to obtain relevant company data in emerging markets.

Up to 2% of the GPFG may also be invested in unlisted renewable energy infrastructure. In January, Norges Bank acquired a 49% ownership share of a 1.3 GW portfolio of wind and solar electricity production in Spain. The portfolio is a combination of operational and development projects. In March, the Bank acquired a 16.6% ownership share of a 960MW German offshore wind farm project. The project is under development and is expected to be operational by the end of 2025.



In 2023, Norges Bank divested from 86 companies following risk assessments related to environmental, social and governance issues.

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#### Companies

As a long-term investor, Norges Bank engages in regular dialogue with the largest companies. The dialogue is intended to contribute to good corporate governance and responsible business conduct. The size of the investments provides access to board members, senior executives and specialists in the companies. The Bank is interested in understanding how companies are governed and how they address essential sustainability issues. In addition to meetings, the Bank also has written contact with the companies. In 2023, a total of 3 298 meetings with 1358 investee companies were held. Of these meetings, governance-related topics were discussed at 1611 meetings with 805 companies. At 1589 meetings with 822 companies, different sustainability topics were discussed. Overall, ESG topics were discussed at 64% of the meetings with companies accounting for 62% of the value of the equity portfolio.

Norges Bank assesses companies' sustainability-related reporting on their governance structure, strategy, risk management and objectives based on its <u>public expectations</u> of companies and use of third-party data. Investee companies with weak or limited reporting, in high-risk sectors, are contacted and encouraged to improve their reporting in accordance with the expectation documents, including by using recognised reporting standards. In 2023, letters were sent to 88 investee companies regarding their reporting.

Voting is one of the most important tools Norges Bank has for safeguarding GPFG assets. At the end of 2023, the GPFG held a stake in 8 859 companies worldwide. In 2023, Norges Bank voted on 115 266 proposals at 11 468 shareholder meetings. This corresponds to 98% of the portfolio and 98% of shareholder meetings. Voting guidelines are publicly available.

Since 2021, Norges Bank has published its voting intentions five days before each shareholder meeting with a brief explanation each time Norges Bank votes against the board's recommendations. In 2023, Norges Bank expanded its transparency by publishing an explanation also when the Norges Bank votes, in line with the company's recommendation, against a shareholder proposal. The voting intentions are available on Norges Bank Investment Management's website. Users can search for

In 2023, Norges Bank voted on

115 266

proposals at 11 468 annual general meetings.

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individual companies or download the full dataset of the votes since 2013 and obtain access to daily updates on voting intentions five days before the shareholder meeting. In 2023, Norges Bank presented a separate, public voting review after the first half of the year. The summary provides information on trends and results from voting at investee companies' shareholder meetings.

The Ministry of Finance has issued guidelines for the observation and exclusion of companies from the GPFG, based on their products or conduct. The Council on Ethics and Norges Bank are responsible for following up these guidelines. Decisions concerning the observation and exclusion of companies from the GPFG are made by Norges Bank's Executive Board, based on recommendations from the Council on Ethics. By not investing in such companies, the GPFG's exposure to unacceptable risk is reduced. In 2023, Norges Bank announced the exclusion of six companies and placed another five under observation. In addition, Norges Bank revoked the exclusion of two companies, ended the observation of two and extended the observation of another. The Bank ended its active ownership under the guidelines in two cases and extended its active ownership in two cases. Since 2006, the equity benchmark index has returned 1.7 percentage points less than it would have done without any ethical exclusions. On an annualised basis, the return has been 0.03 percentage point lower.

Further information on responsible investment is provided in the report Responsible investment Government Pension Fund Global 2023.



# Work on climate and climate risk in Central Banking

Climate change and measures to mitigate its effects have an impact on the Norwegian and global economy. Thus, they also influence Norges Bank's core tasks.

Efforts to strengthen understanding of the effects of climate change and the energy transition are priority areas in Norges Bank's <u>Strategy 2025</u>. In 2023, the Bank worked actively to strengthen expertise and integrate climate and energy transition into the Bank's analyses. Norges Bank has ambitions to share new knowledge through its publications and conferences.

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Since 2018, Norges Bank has been a member of the Network for Greening the Financial System (NGFS), a network for central banks and supervisory authorities. The network facilitates sharing experiences and best practice, performing analyses and contributes to the development of environmental and climate risk management in the financial sector. Norges Bank cooperates with the NGFS and other institutions, such as the International Banking Research Network (IBRN), the Bank for International Settlements (BIS), the International Monetary Fund (IMF) and other central banks to increase expertise on the effects of climate-related changes. In 2023, the Bank strengthened its participation in projects organised by the NGFS.

#### Climate and monetary policy

Climate change and a transition to a low-carbon economy may have an impact on monetary policy assessments. Climate-related changes affect the economy through various channels. For example, extreme weather events such as drought and flooding affect global food prices. In addition, energy prices are weather-dependent and are also affected by the transition to renewable energy. Higher solar and wind power capacity may lead to more volatility in energy prices in the short term than historically observed.

In Norway, green manufacturing projects are boosting investment. At the same time, the transition to a low-carbon economy may increase uncertainty about future revenues and investment in the petroleum industry. In the longer term, the structure of the Norwegian economy will change.

Norges Bank analyses how various climate-related factors affect the Norwegian economy. The climate transition is essentially an energy transition. Norges Bank closely monitors developments in energy markets and is working to better integrate these markets into its analytical framework. In order to increase knowledge about the effects of climate-related changes, Norges Bank conducts annual surveys of the effects of climate change and the climate transition on enterprises in the Bank's Regional Network. Through the NGFS, Norges Bank contributes to analyses of how climate-related factors affect the macroeconomy in the near and medium term.



Climate-related changes pass through to the economy through a number of channels.

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#### Climate risk and financial stability

Norges Bank is responsible for promoting a robust financial system. Norges Bank decides on the level of the countercyclical capital buffer and provides advice on the macroprudential stance and on factors that may threaten financial stability. Climate transition affects banks' risk assessments through various channels, and the regulatory regime has been changed to take into account climate challenges. Financial institutions must ensure that they are well equipped to assess and manage climate-related transition risks. Norges Bank is working to incorporate climate risk into its analyses and include this risk in advice on macroprudential instruments where relevant.

Well-functioning financial markets are important for financing investments that can face climate change. Reliable information on climate risk is important, and climate scenarios are an instrument in the work to identify the consequences of climate change over time. Through the NGFS, Norges Bank has participated in the development of climate scenarios that are publicly available.

Climate stress tests are the most important tool used by central banks to understand the effect of climate change on the financial system. In 2024, Norges Bank plans to publish a climate stress test to assess how climate change affects risk in Norwegian banks and credit institutions.

#### Climate risk in the foreign exchange reserves

The Executive Board's decisions on principles for responsible investment and Norges Bank's sustainability strategy are part of the framework for the management of the foreign exchange reserves, including the management of climate-related issues and climate risk.

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The foreign exchange reserves consist of a fixed income portfolio and an equity portfolio. The fixed income portfolio is intended to ensure that the foreign exchange reserves are sufficiently liquid for contingency purposes and that Norges Bank is able to meet its international commitments. The fixed income portfolio therefore consists of cash and liquid government bonds. So far, climate-related issues have had little impact on the composition of the fixed income portfolio. Norges Bank closely monitors developments related to the assessment of government bonds against governments' climate impact.

The equity portfolio of the foreign exchange reserves is managed according to the same principles and strategies for responsible investment as the equity investments in the Government Pension Fund Global (GPFG). This means that the GPFG's climate action plan, including the ambition that investee companies achieve net zero emissions by 2050, also applies to the equity portfolio of the foreign exchange reserves.

In 2023, Norges Bank calculated the financed emissions for the foreign exchange reserves for the first time. The financed emissions (scopes 1 and 2) of the foreign exchange reserves, which are calculated based on the carbon emissions of companies in the equity portfolio weighted and summed up according to the Bank's share of their enterprise value including cash, amounted to 566 273 tonnes of  $\rm CO_2$  equivalent in 2023. The foreign exchange reserves' financed emissions for scope 3 amounted to 634 411 tonnes, based on an estimation model that Norges Bank has reason to believe underestimates real scope 3 emissions. Carbon intensity, expressed as tonnes of  $\rm CO_2$  equivalent for scopes 1 and 2 per million USD in revenue, was 89 tonnes in 2023, which is 30% lower than in 2022. This is primarily attributable to the rise in market values in the technology sector relative to more carbon-intensive sectors during 2023.



In 2023, Norges
Bank calculated the financial emissions of the foreign exchange reserves for the first time.

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## Responsible investment management in the foreign exchange reserves

Responsible investment and the management of climate-related issues in foreign exchange reserve management are set out in Norges Bank's principles for responsible investment and the Bank's sustainability strategy.

Norges Bank Investment Management exercises active ownership on behalf of the foreign exchange reserves' equity portfolio by formulating clear expectations of investee companies, voting at shareholder meetings and engaging in dialogue with selected companies.

Decisions on risk-based divestment from individual companies implemented for the GPFG's equity portfolio are also followed up in the equity portfolio of the foreign exchange reserves. In 2023, Norges Bank divested from a total of 41 companies in the foreign exchange reserves' equity portfolio. In addition, a total of nine companies were excluded from the foreign exchange reserves' benchmark index and 10 companies were put under observation based on ethical guidelines. The observation of one company ended in 2023.

Divestment from

41

companies in the foreign exchange reserves equity portfolio following risk assessments related to environmental, social and governance issues.

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### Climate impact of Norges Bank's operations

Norges Bank aims to reduce emissions from its own operations in line with the Paris Agreement, and the Bank works systematically on measures to reduce its own emissions. The Bank will ensure that its own emissions are measured, managed and reported in line with best practice.

Norges Bank calculates its carbon footprint for its own operations in accordance with the standard set by the Greenhouse Gas Protocol Initiative (GHG protocol) and the Eco-Lighthouse certification scheme. The Bank's carbon accounts include direct and indirect carbon emissions.

TABLE 10 Annual carbon accounts for Norges Bank' operations

GHG emissions, in tonnes of ${\rm CO}_2$ equivalent <sup>1</sup>		2019 <sup>2</sup>	2022	2023	Change 2022–2023	Change 2019–2023
Direct emissions (scope 1)	Fuel, combustion vehicles	20	16	14	-13%	-30%
	Diesel, backup generators	1	9	3	-67%	200%
	Refrigerants	-	-	11		
Total direct emissions (scope 1)		21	25	28	12%	33%
Indirect emissions (scope 2)	Electricity	745	646	712	10%	-4%
	District heating	4	3	5	67%	25%
Total indirect emissions, energy (scope 2)		749	649	717	10%	-4%
Indirect emissions, other (scope 3)	Air travel	8 378	5 175	7945	54%	-5%
	Hotel stays	450	156	178	14%	-60%
	Work-related travel by private car	11	11	9	-18%	-18%
	Waste	57	40	7	-83%	-88%
Total indirect emissions, other (scope 3)		8 8 9 6	5 382	8 139	51%	-9%
Total GHG emissions <sup>3</sup>		9 6 6 6	6 0 5 6	8884	47%	-8%

<sup>1</sup> Includes the gases: CO<sub>2</sub>, CH<sub>4</sub>, N<sub>2</sub>O, HFCs, PFCs, SF<sub>6</sub> and NF<sub>3</sub>. Norges Bank mainly uses the Department for Energy Security & Net Zero's (DESNZ, formerly DEFRA) emission factors

<sup>&</sup>lt;sup>2</sup> Norges Bank has selected 2019 as a reference year. This is the most recent year with normal activity and reliable underlying data.

<sup>3</sup> Norges Bank's carbon accounts include Norges Bank offices where the Bank has operational control in Oslo, London, New York and Singapore. The Shanghai office was included until it was decided to close the office.

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Greenhouse gas emissions totalled 8 884 tonnes of CO<sub>2</sub> equivalent at the end of 2023, a reduction of 9% compared with the reference year 2019. Data for 2022 are affected by the pandemic and are therefore not directly comparable. Air travel was the largest source of emissions, accounting for 89% of total emissions. In 2023, travel activity picked up following a decrease during the Covid-19 pandemic, but total emissions from air travel remained 5% lower than in the reference year 2019. Developments must be viewed in the light of a 15% increase in the number of employees since the reference year, as well as work to raise awareness of and ambitions to reduce greenhouse gas emissions from the Bank's own operations in line with the Bank's sustainability strategy.

Norges Bank is working to reduce emissions from energy consumption at its offices. At the Bank's head office, ventilation units and other technical installations have been replaced by more energy-efficient versions in recent years. Measures to reduce energy consumption related to lighting, ventilation and heating systems have been implemented. Climate-related work is key in the ongoing upgrade programme deployed at the head office, and equipment is being replaced with more energy-efficient alternatives. At offices abroad, where the Bank is a tenant, action has been taken to reduce energy consumption from lighting, and indoor temperatures have been adjusted.

Norges Bank's head office at Bankplassen 2, the course and conference venue Vindåsen and the Venastul resort are Eco-Lighthouse certified. This provides access to tools that support the Bank in measuring and improving environmental performance.

#### External data centres and cloud platforms

In 2023, Norges Bank also started collecting data related to emissions from the operation of data centres. The emissions include Norges Bank's percentage of emissions from suppliers of external data centres and cloud platforms. Norges Bank requires data centres to be constructed and operated in an eco-friendly manner to ensure efficient resource utilisation and the use of renewable sources. The emissions are not given in the carbon accounts as all desired data has yet to be obtained. Based on information from four of the five external providers, calculated emissions amounted to 76 tonnes of CO<sub>2</sub> equivalent in 2023.

89% of total emissions are from air travel.

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#### Responsible procurement

Norges Bank procured goods and services totalling approximately NOK 5.1bn in 2023.

Norges Bank is subject to public procurement regulations and is enjoined to set requirements for wage and working conditions pursuant to regulations on wage and working conditions in public contracts. Suppliers and any subcontractors must, upon request, be able to document compliance with wage and working conditions.

Norges Bank aims to have a responsible and sustainable supply chain and sets environmental requirements for procurements where relevant. In 2023, controls of wage and working conditions were carried out at 32 of the Bank's suppliers. Seven violations of wage and/or working conditions were detected for personnel working for Norges Bank. At Norges Bank's request, the suppliers confirmed that the conditions were rectified and that any outstanding wage claims will be met.

The public procurement Act includes a requirement that limits the number of tiers in the supply chain for procurements in sectors with a high incidence of work-related crime, such as construction and cleaning services. Norges Bank accepts no more than two tiers of subcontractors. All suppliers with access to the Bank's premises or systems are responsible for ensuring that personnel performing services or work for Norges Bank are aware of the ethical rules.



Norges Bank aims to have a responsible and sustainable supply chain.

### Limited assurance of sustainability indicators

Norges Bank has engaged EY to perform a limited assurance engagement on sustainability information in Norges Bank's *Annual Report* for 2023. See EY's report, *Independent accountant's assurance report*.

Norges Bank does not make ongoing reference to sustainability indicators in Norges Bank's *Annual Report* for 2023. The table below refers to the reporting standard and the indicator on which the information compiled is based. The reported information is for the period between 1 January 2023 and 31 December 2023. Information provided is attested by EY.

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Staff		
Wage and wage gap		
GRI 405: Diversity and equal opportunity 2016	405-2 Ratio of basic salary and remuneration of women to men	Wage gaps per job category, Tables 5 - 8.
Responsible investme	ent management of the Gover	rnment Pension Fund Global
Work on climate risk ir	the Government Pension Fu	nd Global
Climate-related	Financed emissions	Financed emissions - equity portfolio and bond portfolio: scopes 1 and 2: 59m tonnes CO <sub>2</sub> equivalent
disclosures <sup>1</sup>	Asset management	Financed emissions - equity portfolio and bond portfolio: scope 3: 61m tonnes CO <sub>2</sub> equivalent
GRI 305:	305-4 Greenhouse gas	Carbon intensity - equity portfolio - scopes 1 and 2: 104 tonnes CO <sub>2</sub> equivalent
Emissions 2016	(GHG) emissions intensity	Carbon intensity - bond portfolio - scopes 1 and 2: 124 tonnes CO <sub>2</sub> equivalent
Work on responsible i	nvestment management of th	ne Government Pension Fund Global
GRI 415: Public Policy 2016	415-1 Political contributions	Participation in number of public consultations related to responsible investment management: 27
T done i oney 2010	CONTINUENTS	(Norges Bank has made no political monetary contributions)
GRI-G4: Financial Services Sector Disclosures 2014	FS10 Percentage and number of companies held in the institution's portfolio with which the reporting organisation has interacted on environmental or social issues	Number of meetings held with companies: 3 298 meetings with 1 358 companies (15% of all companies) Number of matters where Norges Bank voted at shareholder meetings: 115 266 at 11 468 shareholder meetings
GRI G4:	FS11 Percentage of	Number of companies Norges Bank is divested from following

Description

Standard

Indicator

holdings subject to

screening

positive and negative

environmental or social

Financial Services

Sector Disclosures

2014

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risk assessments related to ESG issues: 86

Number of new companies placed under observation: 5

Number of excluded companies: 6

<sup>1</sup> The climate related disclosures indicator is based on IFRS S2 paragraph 29 (a) (vi) (2) and paragraph B61 Asset Management (a) regarding financed emissions.

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Standard	Indicator	Description		
Work on climate and climate risk in Central Banking				
Climate risk in the fore	ign exchange reserves			
Climate-related disclosures <sup>2</sup>	Financed emissions Asset management	Financed emissions - equity portfolio: scopes 1 and 2: 566 273 tonnes CO <sub>2</sub> equivalent  Financed emissions - equity portfolio: scope 3: 634 411 tonnes CO <sub>2</sub> equivalent		
GRI 305: Emissions 2016	305-4 Greenhouse gas (GHG) emissions intensity	Carbon intensity - equity portfolio - scopes 1 and 2: 89 tonnes CO <sub>2</sub> equivalent		
Responsible investme	nt management of foreign ex	cchange reserves		
GRI G4: Financial Services Sector Disclosures 2014	FS11 Percentage of holdings subject to positive and negative environmental or social screening	Number of companies in the foreign exchange reserves' equity portfolio Norges Bank has divested from following risk assessments related to ESG issues: 41  Number of companies excluded from the foreign exchange reserves' benchmark index: 9		
Sustainability in Norge	s Bank's operations			
Climate impact of Norg	ges Bank's operations			
	305-1 Direct (scope 1) GHG emissions	28 tonnes CO <sub>2</sub> equivalent		
GRI 305: Emissions 2016	305-2 Energy indirect (scope 2) GHG emissions	717 tonnes CO <sub>2</sub> equivalent		
	305-3 Other indirect (scope 3) GHG emissions	8 139 tonnes CO <sub>2</sub> equivalent		

(scope 3) GHG emissions

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<sup>&</sup>lt;sup>2</sup> The climate related disclosures indicator is based on IFRS S2 paragraph 29 (a) (vi) (2) and paragraph B61 Asset Management (a) regarding financed emissions.



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## Main points

**-11**bn

2022

Net income/-expense from fit before foreign exchange gair		Forei	gn exchange gains/-loss	ses
NOK 41bn	2023 2022		30bn 46bn	2023 2022
Profit/loss, Government Pens Global (GPFG)	ion Fund		/loss, GPFG withdrawn fo	
<sub>NOK</sub> 2616bn	2023	NOK	<b>-</b> 2 616bn	2023
<sub>NOK</sub> -1 001bn	2022	NOK	1001bn	2022
Other income		- of w	hich management fee, (	GPFG
<sub>иок</sub> <b>6.8</b> bn	2023	NOK	6.6bn	2023
<sub>пок</sub> <b>5.4</b> bn	2022	NOK	5.2bn	2022
Operating expenses		- of w	hich management costs	s, GPFG
<sub>Noк</sub> -8.0bn	2023	NOK	-6.6bn	2023
<sub>пок</sub> -6.4bn	2022	NOK	-5.2bn	2022
Total comprehensive income		Trans	fer to the Treasury	
<sub>иок</sub> 70bn	2023	NOK	18bn	2023

8bn

2022

NOK

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Resolution of the Supervisory Council on the financial statements for 2023

and its supervision of the Bank

The Supervisory Council's statements on the minutes of the meeting of the Executive Board



## **Income statement**

Amounts in NOK million	Note	2023	2022
Net income/-expense from financial instruments			
Net income/-expense from:			
-Equities	3,5	30 524	-15 916
-Bonds	3,5	18 564	-38 331
-Financial derivatives	5	119	-418
-Secured lending	9	1283	135
Interest income from deposits in banks	11	2963	1529
Interest income from lending to banks	12	905	595
Interest expense on deposits from banks and the Treasury	12	-14 869	-2 979
Interest income from the IMF	14	5 216	1494
Interest expense to the IMF	14	-4235	-1243
Tax expenses	3	-39	-2
Other financial income/-expenses		490	62
Net income/-expense from financial instruments before foreign exchange gains/-losses		40 921	-55 074
Foreign exchange gains/-losses	8	30 323	45 513
Net income/-expense from financial instruments		71244	-9 561
Other operating income			
Management fee, GPFG	19	6 632	5 2 2 6
Other operating income	17	161	149
Total other operating income		6794	5 374
Operating expenses			
Personnel expenses	15	-2 853	-2350
Other operating expenses	17	-4984	-3 895
Depreciation, amortisation and impairment losses	18	-135	-154
Total operating expenses		-7 971	-6399
Management of the Government Pension Fund Global (GPFG)			
Total comprehensive income, GPFG	20	2 616 385	-1000551
Withdrawn from/-transferred to the krone account of the GPFG	20	-2 616 385	1000 551
Profit/-loss for the period		70 067	-10 586
Statement of comprehensive income			
Profit/-loss for the period		70 067	-10 586
Change in actuarial gains/-losses	16	-35	-504
Total comprehensive income		70 031	-11 090

## **Balance sheet**

Amounts in NOK million	Note	31.12.2023	31.12.2022
Assets			
Financial assets			
Deposits in banks	11	20 792	32334
Securedlending	9,10	60 723	18 685
Cash collateral posted	9,10	-	6
Unsettled trades		2 020	917
Equities	4,7	140 488	106 843
Equities lent	4,7,9,10	2885	3 987
Bonds	4,6,7	504 680	462 853
Financial derivatives	6	3	15
Lending to banks	12	2803	15 895
Claims on the IMF	14	134 999	126 560
Other financial assets	19	671	529
Total financial assets		870 064	768 624
Non-financial assets			
Pensions	16	93	-
Non-financial assets	18	2 078	2 047
Total non-financial assets		2171	2 047
Net value, GPFG	20	15 756 719	12 429 334
Total assets		16 628 954	13 200 005

Amounts in NOK million	Note	31.12.2023	31.12.2022
Liabilities and equity			
Financial liabilities			
Secured borrowing	9,10	29	37
Unsettled trades	9,10	38 894	13 469
Financial derivatives		12	31
Deposits from banks	12	58 355	26 821
Deposits from the Treasury	12	281 816	304 606
Notes and coins in circulation	13	39 724	40 075
Liabilities to the IMF	14	107 979	103 378
Other financial liabilities		5149	3 919
Total financial liabilities		531958	492336
Other liabilities			
Pensions	16	-	170
Other liabilities	19	18 330	8 645
Total other liabilities		18 330	8 815
Deposits in krone account, GPFG	20	15 756 719	12 429 334
Total liabilities		16 307 007	12 930 485
Equity		321947	269 520
Total liabilities and equity		16 628 954	13 200 005

Oslo, 8 February 2024

Ida Wolden Bache

(Governor / Chair of the Executive Board)

Kristine Ryssdal

Nina Udnes Tronstad

Pål Longva

(First Deputy Chair)

Low Helene Welter +. Too Karen Helene Ulltveit-Moe

Hans Aasnæs

Mora Sarenan Mona Helen Sørensen (Employee representative) Øystein Børsum

(Second Deputy Chair)

Egil Herman Sjursen

Truls Oppedal (Employee representative)

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## Statement of cash flows

Amounts in NOK million, inflows (+)/outflows (-)	Note	2023	2022
Operating activities			
Receipts of dividend from equities		2 676	2 2 4 4
Receipts of interest from bonds		6 439	4 598
Net receipts of interest and fee from secured lending and borrowing		1273	189
Receipts of dividend, interest and fee from holdings of equities and bonds		10 388	7 031
Net cash flow from purchase and sale of equities		-2460	-2366
Net cash flow from purchase and sale of bonds		-6 781	-3 053
Net cash flow financial derivatives		1151	1 317
Net cash flow related to deposits in banks		3 209	850
Net cash flow secured lending and borrowing		-18 944	1582
Net cash flow related to other expenses, other assets and other liabilities		-23 698	-10 692
Net cash flow related to other financial assets and other financial liabilities		45 698	32 677
Net cash flow to/-from the Treasury		687 314	1 050 176
Inflow from the Norwegian government to the GPFG	19	-710 104	-1 089 712
Withdrawals by the Norwegian government from the GPFG	19	-	-
Management fee received from the GPFG	19	6 526	4964
Net cash flow from operating activities		-7701	-7 226
Investing activities			
Net cash flow related to non-financial assets and liabilities	18	-146	-128
Net cash flow from investing activities		-146	-128
Financing activities			
Cash flow from the Transfer Fund to the Treasury	19	-8094	-11108
Net cash flow from financing activities		-8 094	-11 108
Net change in cash			
Deposits in banks at 1 January	11	32 334	49 628
Net increase/-decrease of cash in the period		-15 941	-18 462
Net foreign exchange gains and losses on cash		4399	1168
Deposits in banks at 31 December	11	20792	32334

#### **Accounting policy**

The statement of cash flows has been prepared in accordance with the direct method. Major classes of gross payments are presented separately, with the exception of specific transactions primarily arising from the purchase and sale of financial instruments, which are shown net.

Transfers between the GPFG and the Norwegian government are classified as a financing activity in the statement of cash flows in the GPFG's financial statements. In Norges Bank's financial statements, transfers are classified as operating activities, since Norges Bank is the manager of the GPFG.

## Statement of changes in equity

Amounts in NOK million	Adjustment Fund	Transfer Fund	Total equity
1 January 2022	266 488	22 216	288 704
Total comprehensive income	-13 155	2 0 6 5	-11 090
31 December 2022 before transfer to the Treasury	253 333	24 281	277 614
Transferred to the Treasury	-	-8 094	-8 094
31 December 2022	253 333	16 187	269 520
1 January 2023	253 333	16 187	269 520
Total comprehensive income	33 406	36 625	70 031
31 December 2023 before transfer to the Treasury	286 739	52 812	339 551
Transferred to the Treasury	-	-17 604	-17 604
31 December 2023	286739	35 208	321947

#### **Accounting policy**

Norges Bank's equity comprises an Adjustment Fund and a Transfer Fund. The Adjustment Fund comprises the Bank's restricted equity, and the Transfer Fund comprises the basis for transfers to the Treasury. Norges Bank's capital is governed by the Guidelines for provisions and allocations of Norges Bank's profit or loss laid down on 13 December 2019, pursuant to section 3-11, sub-section 2, of the Central Bank Act.

# **Notes**Financial reporting

### Note 1 General information

#### 1. Introduction

Norges Bank is Norway's central bank. The Bank is a separate legal entity and is owned by the State. The Bank's main office is at Bankplassen 2, Oslo, Norway.

Norges Bank shall promote economic stability and manage substantial assets on behalf of the nation. The Bank conducts monetary policy, monitors financial stability, promotes robust and efficient payment systems and financial markets and manages Norway's foreign exchange reserves.

Norges Bank manages the Government Pension Fund Global (GPFG) on behalf of the Ministry of Finance in accordance with section 3, second paragraph, of the Government Pension Fund Act and the management mandate for the GPFG issued by the Ministry of Finance.

The GPFG shall support government saving to finance future expenditure and underpin long-term considerations relating to the use of Norway's petroleum revenues. The Norwegian Parliament has established the legal framework in the Government Pension Fund Act, and the Ministry of Finance has formal responsibility for the fund's management. The Executive Board of Norges Bank has delegated day-to-day management of the GPFG to Norges Bank Investment Management (NBIM).

The Ministry of Finance has placed funds for investment in the GPFG in the form of a Norwegian krone deposit with Norges Bank (the krone account). Norges Bank manages the krone account in its own name by investing the funds in an investment portfolio consisting of equities, bonds, real estate and infrastructure for renewable energy. The GPFG is invested in its entirety outside of Norway.

Transfers are made to and from the krone account in accordance with the management mandate. When the Norwegian State's petroleum revenue exceeds the use of petroleum revenue in the fiscal budget, deposits will be made into the krone account. In the opposite situation, withdrawals will be made. Transfers to and from the krone account lead to a corresponding change in *Owner's capital* in the GPFG..

For further information about the management mandate for the GPFG, Norges Bank's governance structure and risk management see <u>note 20.9 Investment risk</u>. For further information about transactions between Norges Bank and the GPFG, see <u>note 19 Related parties</u>.

Norges Bank is not exposed to financial risk from its management of the GPFG. The return on the portfolio, less the management fee to Norges Bank, is transferred in its entirety to the krone account and does not affect total comprehensive income or equity in Norges Bank. The investment portfolio under management is equal to the amount on deposit in the krone account at the time in question, less the accrued management fee and deferred tax. This is presented on a separate line as an asset in Norges Bank's balance sheet, and the krone account is presented as a liability in the same amount to the Ministry of Finance.

#### 2. Approval of the financial statements

The annual financial statements of Norges Bank for 2023 were approved by the Executive Board on 8 February 2024 and approved by the Supervisory Council on 22 February 2024. The annual financial reporting for the GPFG is an excerpt of Norges Bank's financial reporting and is included in Norges Bank's annual financial statements as note 20.

## Note 2 Accounting policies

This note describes accounting policies, significant estimates and accounting judgements that are relevant to the financial statements as a whole. Additional accounting policies, significant estimates and accounting judgements are included in the respective statements and notes.

#### Significant estimates and critical accounting judgements

The preparation of the financial statements involves the use of uncertain estimates and assumptions relating to future events that affect the reported amounts for assets, liabilities, income and expenses. Estimates are based on historical experience and reflect management's expectations about future events. Actual outcomes may deviate from estimates. The preparation of the financial statements also involves the use of judgement when applying accounting policies, which may have a significant impact on the financial statements.

In cases where there are particularly uncertain estimates or accounting judgements, this is described in the respective notes.

#### 1. Basis of preparation

Pursuant to section 4-3 of the Central Bank Act, the annual financial statements of Norges Bank have been prepared in accordance with the Accounting Act and Regulation on the financial reporting for Norges Bank (the Regulation), laid down by the Ministry of Finance.

The Regulation entails that the financial reporting of the GPFG is prepared in accordance with IFRS Accounting Standards as adopted by the EU, subject to the additions and exemptions specified in the Accounting Act and the Regulation. It sets forth that the return on the investment portfolio and the return assigned to the krone account of the GPFG shall be presented on separate lines in the income statement, the net value of the GPFG and the deposits in the krone account of the GPFG shall be presented on separate lines in the balance sheet, inflows to and withdrawals from the krone account of the GPFG shall be presented on separate lines in the statement of cash flows and the annual financial reporting of the GPFG shall be presented in a separate note in Norges Bank's annual financial statements, see <a href="note 20 Government Pension Fund Global (GPFG)">note 20 Government Pension Fund Global (GPFG)</a>. In addition, subsidiaries that are included in the consolidation for the preparation of consolidated financial reporting for the investment portfolio are excluded from the consolidation in Norges Bank's annual financial statements. See also section 4.2 Subsidiaries below for the consolidation of certain subsidiaries in the GPFG

The financial statements are presented in a manner that is most relevant to an understanding of the Bank's financial performance.

The rules on global minimum taxation (Pillar 2) are expected to be implemented with effect from 2024. The current assessment is that Norges Bank will be exempt from the scope. Therefore, no change in tax expense is expected as a result of the implementation.

The annual financial statements are prepared with a closing date of 31 December, and are presented in Norwegian kroner (NOK), and unless otherwise stated, rounded to the nearest million. Rounding differences may occur.

Norges Bank's annual financial statements are prepared under a going concern basis.

## 2. Changes in accounting policies, including new and amended standards and interpretations, in the period Accounting policies applied are consistent with the policies applied in the previous accounting year. There are no new or amended IFRS standards and interpretations that have become effective for the accounting year beginning on

1 January 2023 that have had any material effect on the Bank's financial statements.

#### 3. New and amended standards and interpretations effective from 2024 or later

Issued IFRS standards, changes in existing standards and interpretations issued with effective dates from 2024 or later are expected to be immaterial or not applicable for the Bank's financial reporting at the time of implementation.

#### 4. Accounting policies for the financial statements as a whole

#### 4.1 Financial assets and liabilities

Recognition and derecognition

Financial assets and liabilities are recognised in the balance sheet upon becoming a party to the instrument's contractual provisions.

Financial assets are derecognised when the contractual rights to the cash flows expire, or when the financial assets and substantially all the risks and rewards of ownership are transferred. See <u>note 9 Secured lending and borrowing</u> and <u>note 20.13 Secured lending and borrowing</u> for details on transferred assets that are not derecognised.

Financial liabilities are derecognised when the obligation is extinguished, i.e. when the obligation specified in the contract is discharged, cancelled or expires.

Purchase or sale of a financial asset where the contractual terms require settlement in accordance with normal market conditions, is recognised on the trade date.

#### Classification and measurement

Financial assets are classified based on the business model used for managing the assets and their contractual cash flow characteristics.

The investment portfolio of the GPFG is managed in accordance with the management mandate issued by the Ministry of Finance, the investment mandate issued by the Executive Board of Norges Bank and investment strategies issued by the management of Norges Bank Investment Management. These mandates and strategies, including the risk management strategies, entail that financial assets are managed and evaluated on a fair value basis. The financial assets in the GPFG are therefore measured at fair value through profit or loss, except for *Management fee receivable*, which is not part of the investment portfolio. *Management fee receivable* is measured at amortised cost.

The foreign exchange reserves are managed in accordance with the principles issued by the Executive Board and are managed and their performance evaluated on a fair value basis. Other financial assets are measured at amortised cost.

Financial liabilities are measured at amortised cost, except for financial liabilities designated as at fair value through profit or loss. This applies to financial liabilities in the foreign exchange reserves that are managed and their performance evaluated on a fair value basis. For the GPFG, financial liabilities, except for *Management fee payable* and *Deferred tax*, are integrated into the investment portfolio that is managed and evaluated on a fair value basis, and are therefore designated at fair value through profit or loss. *Management fee payable* is measured at amortised cost.

Financial derivatives are measured at fair value through profit or loss.

For further specification of the classification of financial instruments, see <u>note 6 Measurement</u> and <u>table 6.2 Classification</u> of financial instruments.

#### **Impairment**

For financial assets classified as measured at amortised cost, an allowance for expected credit losses is recognised. Expected credit losses are estimated per loan and are based on the loan's exposure at default, probability of default and loss given default. The recognised amount comprises expected credit losses within the 12 months after the reporting date. In the event of a substantial increase in credit risk since initial recognition, an expected loss allowance is recognised over the expected life of the asset.

#### 4.2 Subsidiaries

Investments in real estate and infrastructure for renewable energy are made through subsidiaries of Norges Bank, which are exclusively established as part of the management of the fund. Subsidiaries are controlled by the GPFG and are included in the financial reporting for the GPFG in accordance with section 3-4 of the Regulation. Control over an entity exists when the GPFG is exposed to or has rights to variable returns from its involvement in the entity and is able to influence those returns through its power over the entity. For further information, see <a href="note: 20.16 Interests in other entities">nother entities</a>.

The GPFG is an investment entity in accordance with IFRS 10 Consolidated financial statements. IFRS 10 defines an investment entity and introduces a mandatory exemption from consolidation for investment entities.

#### Subsidiaries measured at fair value through profit or loss

Subsidiaries that invest in real estate or infrastructure for renewable energy through ownership interests in other entities, are investment entities. These subsidiaries are measured at fair value through profit and loss in accordance with the principles for financial assets, as described in section 4.1 Financial assets and liabilities above. Subsidiaries that invest in real estate are presented in the balance sheet of the GPFG as *Unlisted real* estate. Subsidiaries that invest in infrastructure for renewable energy are presented in the balance sheet of the GPFG as *Unlisted infrastructure*. See <a href="note 20.6 Unlisted renewable-energy">note 20.6 Unlisted renewable-energy</a> infrastructure for supplementing policies.

#### Consolidated subsidiaries

Subsidiaries that perform investment-related services, and which are not investment entities themselves, are consolidated. Consolidated subsidiaries do not own, neither directly nor indirectly, investments in real estate or infrastructure for renewable energy.

#### **Accounting judgement**

The GPFG is an investment entity based on the following:

- a) It obtains funds from the Norwegian government, a related party and its sole owner, and delivers professional investment services, being the management of the fund, to the Norwegian government,
- b) It commits to the Norwegian government that its business purpose is to invest solely for capital appreciation and investment income,
- c) It measures and evaluates returns for all its investments exclusively on a fair value basis.

The GPFG does not have an explicit strategy that defines a specific time for the realisation of each investment, but the investments are assessed continuously, and purchase and sale assessments are made. After an overall assessment, it has been concluded that the GPFG meets the criteria in the definition of an investment entity.

## **Note 3** Income/expense from equities and bonds

#### **Accounting policy**

*Dividends* are recognised when the dividends are formally approved by the shareholders' meeting or comparable responsible party.

Interest income is recognised when the interest is accrued. Interest expense is recognised as incurred. The measurement of interest income and expense is based on contractual terms.

Realised gain/-loss primarily represents amounts realised when assets or liabilities have been derecognised. Average acquisition cost is assigned at derecognition. Realised gain/-loss includes transaction costs, which are expensed as incurred. Transaction costs are defined as all costs directly attributable to the completed transaction. For investments in equities and bonds, these normally include commission fees and stamp duties.

Unrealised gain/-loss represents changes in fair value for the period for the related balance sheet line item that are not attributable to the aforementioned categories.

**Table 3.1** Income/-expense from equities

Amounts in NOK million	2023	2022
Dividends	2743	2 299
Realised gain/-loss	1288	1115
Unrealised gain/-loss	26 493	-19 330
Income/-expense from equities before foreign exchange gains/-losses	30 524	-15 916

 Table 3.2
 Income/-expense from bonds

Amounts in NOK million	2023	2022
Interest	7 510	4 914
Realised gain/-loss	-6749	-2604
Unrealised gain/-loss	17 803	-40 641
Income/-expense from bonds before foreign exchange gains/-losses	18 564	-38 331

#### Tax expense

Norges Bank is exempt from income tax on its operations in Norway but is liable to taxes in some other jurisdictions. Tax expense comprises income tax that will not be refunded under local tax rules or tax treaties to Norges Bank. This pertains primarily to withholding tax on dividends related to the foreign exchange reserves' equity investments.

#### **Accounting policy**

Withholding tax, after deduction of refunded amounts, is recognised at the same time as the related dividend. Refundable withholding tax is recognised in the balance sheet as a receivable under *Other* assets.

Tax expense for 2023 was NOK 39 million, compared with NOK 2 million in 2022.

Japan and Germany are the markets with the highest tax expense in 2023, amounting to NOK 10.5 million and NOK 10.8 million, respectively. Norway's tax treaties with these countries entail a tax rate of 15 percent. Tax expense in other respects refers to smaller amounts divided among several other jurisdictions.

Accounting policies for taxation are further detailed in note 20.10 Tax.

## Note 4 Holdings of equities and bonds

#### **Accounting policy**

Investments in equities and bonds are measured at fair value through profit or loss. Earned dividends and interest are presented in the balance sheet on the same line as the underlying financial instrument. All equity investments, except for equities in the BIS, are in the foreign exchange reserve. The balance sheet line *Equities lent* also constitute a part of the foreign exchange reserves and are presented in the balance sheet separately. For further information on financial instruments lent, see <a href="mailto:note">note 9 Secured lending and borrowing</a>.

For further information on measurement, see <u>note 6 Measurement</u>.

Changes in fair value for the period are recognised in the income statement and specified in <u>note 3 Income/expense</u> from equities and bonds.

Table 4.1 Equities

Amounts in NOK million 31.12	.2023	31.12.2022
Equity investments in the foreign exchange reserves	43 142	110 613
Equities in the BIS	231	217
Total equity investments 14	13 373	110 830
Of which presented in the balance sheet on the line Equities 14	0488	106 843
Of which presented in the balance sheet on the line Equities lent <sup>1</sup>	2885	3 987

<sup>&</sup>lt;sup>1</sup> Equities lent is exclusively related to equity investments in the foreign exchange reserves.

Table 4.2 Bonds

	31.12.2023		31.12.2022		
Amounts in NOK million	Nominal value <sup>1</sup>	Fair value	Nominal value <sup>1</sup>	Fair value	
Bonds	524135	504680	498 837	462 853	
Total bonds	524 135	504 680	498 837	462 853	
Of which presented in the balance sheet on the line Bonds lent	-	-	-	-	

<sup>1</sup> Nominal values have been translated into NOK at the closing rate at the balance sheet date. The nominal value comprises the face value of the instrument or principal.

Bonds in Norges Bank's balance sheet are in their entirety associated with management of the foreign exchange reserves. Norges Bank issues government debt and enters into financial contracts in the area of government debt management in the name of the Ministry of Finance. Transactions related to government debt management are recognised in the government accounts and not in Norges Bank's income statement or balance sheet.

#### Bank for International Settlements (BIS)

The Bank for International Settlements (BIS) acts as a bank for central banks, and its mission is to serve central banks in their pursuit of monetary policy and financial stability by fostering international cooperation in those areas.

The BIS is a limited liability company owned by central banks. Norges Bank has 8 000 voting shares (with a face value of SDR 5 000) in the BIS, in addition to 564 non-voting shares (with a face value of SDR 5 000), for a total of 8 564 shares. Norges Bank's share of the total shares in the BIS was equal to 1.5 percent at year-end 2023, the same as at year-end 2022.

When the shares were issued, the BIS required payment of only 25 percent of the share capital, with the remaining 75 percent committed capital not recognised in the balance sheet. The committed capital was NOK 438 million at year-end 2023, compared with NOK 422 million at year-end 2022.

Dividends from the BIS are distributed annually. Dividends received from the BIS was NOK 35 million in 2023, compared with NOK 31 million in 2022.

## Note 5 Foreign exchange reserves

The foreign exchange reserves are to be available for use in foreign exchange market transactions or as part of the conduct of monetary policy, with a view to promoting financial stability and to meet Norges Bank's international commitments. The foreign exchange reserves are divided into a fixed income portfolio, an equity portfolio and a petroleum buffer portfolio. See further discussion in note 7 Investment risk.

The petroleum buffer portfolio is intended to receive the government's cash flow from petroleum activities in foreign currency and any transfers to and from the GPFG. The purpose of the portfolio is to provide for an appropriate management of the government's need for converting foreign currency and NOK.

See note 8 Currency for a specification of the foreign exchange reserves' currency breakdown.

Tables 5.1 and 5.2 show income statements and balance sheets, respectively, for the foreign exchange reserves by portfolio. Since the foreign exchange reserves are presented as they are operationally managed by Norges Bank, there may be minor differences between this presentation and presentation under the IMF definition of foreign exchange reserves.

 Table 5.1
 Foreign exchange reserves by portfolio, income statement

		Portfolios		2023
Amounts in NOK million	Equities	Fixed Income	Petroleum buffer	Total foreign exchange reserves
Income statement				
Net income/-expenses from:				
- Equities	30 474	-	-	30 474
- Bonds	-	18 565	-1	18 564
- Financial derivatives	15	104	-	119
- Secured lending	25	180	1078	1283
Interest income from deposits in banks	2	169	2785	2956
Tax expense	-39	-	-	-39
Other financial income/-expenses	-15	-	-	-15
Net income/-expense from financial instruments before foreign exchange gains/-losses	30 462	19 018	3 862	53 342
Foreign exchange gains/-losses	2 222	22 354	4986	29 562
Net income/-expense from financial instruments	32 684	41 372	8 848	82 904

		Portfolios		2022
Amounts in NOK million	Equities	Fixed Income	Petroleum buffer	Total foreign exchange reserves
Income statement				
Net income/-expenses from:				
- Equities	-15 963	-	-	-15 963
- Bonds	-	-38 331	-1	-38 331
- Financial derivatives	-1	-417	-	-418
- Secured lending	22	29	83	135
Interest income from deposits in banks	-	34	1494	1528
Tax expense	-2	-	-	-2
Other financial income/-expenses	-3	-	-	-3
Net income/-expense from financial instruments before foreign exchange gains/-losses	-15 947	-38 684	1577	-53 054
Foreign exchange gains/-losses	4 4 3 6	35 423	4 462	44 321
Net income/-expense from financial instruments	-11 511	-3 261	6 0 3 9	-8733

 Table 5.2
 Foreign exchange reserves by portfolio, balance sheet

		Portfolios	31.12.2023	
Amounts in NOK million	Equities	Fixed Income	Petroleum buffer	Total foreign exchange reserves
Balance sheet				
Financial assets				
Deposits in banks	29	6 993	13 551	20 573
Securedlending	29	7 170	53 524	60 723
Cash collateral posted	-	-	-	-
Unsettledtrades	16	2004	-	2 0 2 0
Equities	140 256	-	-	140 256
Equities lent	2 885	-	-	2885
Bonds	-	504680	-	504 680
Financial derivatives	-	3	-	3
Other financial assets	98	-	-	98
Total financial assets	143 313	520 850	67 075	731238
Financial liabilities				
Secured borrowing	29	-	-	29
Unsettled trades	-	9 574	29 320	38 894
Financial derivatives	-	3	9	12
Other financial liabilities	155	-	2 3 6 5	2 520
Total financial liabilities	184	9 577	31694	41 455
Net foreign exchange reserves	143 129	511 273	35 381	689783

		Portfolios		31.12.2022
Amounts in NOK million	Equities	Fixed Income	Petroleum buffer	Total foreign exchange reserves
Balancesheet				
Financial assets				
Deposits in banks	-5	10 999	21 115	32109
Secured lending	50	3 916	14 719	18 685
Cash collateral posted	-	6	-	6
Unsettled trades	2	915	-	917
Equities	106 626	-	-	106 626
Equities lent	3 987	-	-	3 987
Bonds	-	462 853	-	462 853
Financial derivatives	2	13	-	15
Other financial assets	122	-	-	122
Total financial assets	110 784	478 702	35 834	625 320
Financial liabilities				
Secured borrowing	37	-	-	37
Unsettled trades	-	6740	6729	13 469
Financial derivatives	-	16	15	31
Other financial liabilities	302	-	1468	1770
Total financial liabilities	339	6756	8 212	15 307
Net foreign exchange reserves	110 445	471946	27 622	610 013

### Note 6 Measurement

#### **Accounting policy**

All assets and liabilities presented in the balance sheet as Equities, Bonds, Financial derivatives, Secured lending and borrowing, Deposits in banks and Cash collateral posted are measured at fair value through profit or loss.

Fair value, as defined by IFRS 13 Fair Value Measurement, is the price that would be received to sell an asset or paid to transfer a liability in an orderly transaction between market participants at the measurement date.

#### Introduction

Fair value for the vast majority of assets and liabilities is based on quoted market prices or observable market data. If the market is not active, fair value is established by using standard valuation techniques. Estimating fair value may be complex and require the use of judgement, in particular when observable inputs are not available. The valuation risk is addressed by the control environment at Norges Bank, which is responsible for fair value measurement.

#### The fair value hierarchy

All securities in the foreign exchange reserves are measured at fair value. The securities have been classified in the fair value hierarchy presented in <u>table 6.1 Foreign exchange reserves' investments by level of valuation uncertainty</u>. The classification is determined by the observability of the market inputs used in the fairvalue measurement:

- Level 1 comprises assets that are valued based on unadjusted quoted prices in active markets. An active market is
  a market in which transactions take place with sufficient frequency and volume to provide pricing information on an
  ongoing basis.
- Assets and liabilities classified as Level 2 are valued using models with inputs that are either directly or indirectly
  observable. Inputs are considered observable when they are based on market data reflecting actual events or
  transactions.
- Assets classified as Level 3 are valued using models with significant use of unobservable inputs. Inputs are considered unobservable when market data are not available and the input is developed using the best information available about the assumptions that market participants would use when pricing the asset.

An overview of models and valuation techniques with their respective observable and unobservable inputs, categorised by type of instrument, is described in this note.

#### Significant estimate

Classification in the fair value hierarchy is based on fixed criteria, of which some of the criteria may require the use of judgement.

**Table 6.1** Foreign exchange reserves' investments by level of valuation uncertainty

	Lev	el1	Lev	Level 2 Level 3 T		Level 3		tal
Amounts in NOK million	31.12.2023	31.12.2022	31.12.2023	31.12.2022	31.12.2023	31.12.2022	31.12.2023	31.12.2022
Equities	142 482	110 154	658	456	2	3	143 142	110 613
Bonds	492180	451 318	12 500	11 535	-	-	504680	462 853
Financial derivatives (assets)	3	15	-	-	-	-	3	15
Financial derivatives (liabilities)	-12	-31	-	-	-	-	-12	-31
Other <sup>1</sup>	-	-	41 970	36 563	-	-	41 970	36 563
Total	634 653	561456	55 128	48 554	2	3	689 783	610 013
Total (percent)	92.0%	92.0%	8.0%	8.0%	0.0%	0.0%	100%	100%

Other comprises other assets and liabilities limited to money market instruments, including reverse repurchase agreements, deposits in banks, short-term borrowing, unsettled trades and other assets and liabilities.

At year-end 2023, the valuation uncertainty for the foreign exchange reserves was generally unchanged compared with year-end 2022. The majority of foreign exchange reserves are associated with low valuation risk and are classified as Level 1. At year-end 2023, 99.5 percent of equity holdings and 97.5 percent of bond holdings are classified as Level 1, and valuation is thus based on quoted market prices.

#### **Accounting policy**

Transfers between levels in the fair value hierarchy are deemed to take place at the beginning of the reporting period.

#### Movements between levels in the hierarchy

There have been no substantial movements between levels in the fair value hierarchy.

#### Valuation techniques

Norges Bank has defined hierarchies for which price sources are to be used for valuation. Holdings that are included in the benchmark indices are normally valued in accordance with the index providers' prices, while the remaining holdings of equities and bonds are valued almost exclusively using prices from other reputable external price providers. For equities and derivatives traded in active markets (Level 1), the close price is used. For bonds traded in active markets, the bid price is generally used.

The next section sets out the valuation techniques used for equities and bonds classified as Level 2 in the fair value hierarchy.

#### Equities (Level 2)

Equities that are valued based on models with observable inputs provided by vendors are classified as Level 2 in the fair value hierarchy. These holdings are not traded in active markets and include listed shares in companies where trading has been suspended. The valuation models take into account various observable market inputs, such as the price of comparable equity quotes, last traded price and volume.

#### Bonds (Level 2)

Bonds classified as Level 2 are valued based on observable market inputs from comparable issues, in addition to direct indicative or binding quotes. These holdings usually consist of less liquid bonds than those classified as Level 1, i.e. where there is not an activity volume for binding trades and a low activity volume for indicative price quotes at the measurement date.

#### **Control environment**

The control environment for fair value measurement is organised around a formalised and documented valuation policy and guidelines, which are supported by work and control procedures. The portfolios managed by Norges Bank Markets contain only liquid government securities, where valuation risk is very low. Any questions are discussed by a separate management committee.

The valuation environment has been adapted in accordance with market standards and established practices for valuation. This is implemented in practice in the form of daily valuation of all holdings. These processes are scalable to market changes and are based on internal and external data solutions.

All holdings and investments are generally valued by external, independent price providers. They have been chosen on the basis of analyses performed by the Norges Bank units responsible for valuation.

Price providers are monitored on an ongoing basis through regular discussions, controls and price challenges for individual securities. For a large portion of holdings, prices from independent price providers are based on quoted market prices. For holdings that are not sufficiently liquid for valuation to be based on quoted prices, widely accepted models are used. Observable inputs are used where possible, but in some cases, owing to illiquid markets, unobservable inputs are used.

The valuation process is subject on a daily basis to numerous controls by the valuation departments. Controls are based on defined thresholds and sensitivities, which are monitored and adjusted in accordance with prevailing market conditions. At each month-end, more extensive controls are performed to ensure valuation in accordance with fair value.

In NBIM, valuation memos and reports are prepared at each quarter-end, documenting the results of the controls performed and the most important sources of uncertainties in the valuations.

The NBIM investment meeting, which includes NBIM's leader group, is held every quarter prior to the publication of the financial reporting. The committee reviews the documentation, discusses major pricing issues and approves the valuation.

#### Other investments

Norges Bank holds equity investments in the BIS and Swift, which are not part of the foreign exchange reserves. These are investments undertaken by Norges Bank in its role as Norway's central bank and to preserve Norway's international obligations in this area. The obligations involve long-term commitments that do not have economic gain as an objective and are not, by their nature, financial investments. This is primarily related to shares in the Bank for International Settlements (BIS) which are valued at NOK 231 million and would have been allocated to Level 3 in the fair value hierarchy. Valuation is uncertain owing to a lack of activity in the market. These shares are valued using models that use a substantial degree of non- observable inputs. See note 4 Holdings of equities and bonds for further information on equities in the BIS.

#### Classification of financial instruments

Financial assets are classified in three measurement categories: fair value through profit or loss (designated or mandatory), fair value through other comprehensive income (OCI) and amortised cost. The measurement category is determined at initial recognition of the asset.

Financial liabilities shall generally be measured at amortised cost, except for financial liabilities in the foreign exchange reserves and financial derivatives, which are measured at fair value through profit or loss.

The carrying amount of financial assets and liabilities measured at amortised cost is considered a reasonable estimate of fair value, thus comparable fair value amounts have not been calculated.

 Table 6.2
 Classification of financial instruments

	Fair value througl		31.12.2023	
Amounts in NOK million	Designated	Mandatory	Amortised cost	Total
Financial assets				_
Deposits in banks	-	20 573	219	20 792
Secured lending	-	60723	-	60 723
Cash collateral posted	-	-	-	-
Unsettled trades	-	2020	-	2 020
Equities	231	140 256	-	140 488
Equities lent	-	2885	-	2 885
Bonds	-	504 680	-	504 680
Financial derivatives	-	3	-	3
Lending to banks	-	-	2803	2803
Claims on the IMF	-	-	134 999	134 999
Other financial assets	-	98	573	671
Total financial assets	231	731238	138 594	870 064
Financial liabilities				
Short-term borrowing	-	-	-	
Secured borrowing	29	-	-	29
Unsettled trades	38 894	-	-	38 894
Financial derivatives	-	12	-	12
Deposits from banks	-	-	58 355	58 355
Deposits from the Treasury	-	-	281 816	281 816
Notes and coins in circulation	-	-	39724	39724
Liabilities to the IMF	-	-	107 979	107 979
Other financial liabilities	2 520	-	2 629	5149
Total financial liabilities	41443	12	490 503	531958

	Fair value through	profit or loss		31.12.2022	
Amounts in NOK million	Designated	Mandatory	Amortised cost	Total	
Financial assets					
Deposits in banks	-	32110	224	32334	
Secured lending	-	18 685	-	18 685	
Cash collateral posted	-	6	-	6	
Unsettled trades	-	917	-	917	
Equities	217	106 626	-	106 843	
Equities lent	-	3 987	-	3 987	
Bonds	-	462 853	-	462 853	
Financial derivatives	-	15	-	15	
Lending to banks	-	-	15 895	15 895	
Claims on the IMF	-	-	126 560	126 560	
Other financial assets	-	121	408	529	
Total financial assets	217	625 320	143 087	768 624	
Financial liabilities					
Short-term borrowing				-	
Secured borrowing	37	-	-	37	
Unsettled trades	13 469	-	-	13 469	
Financial derivatives	-	31	-	31	
Deposits from banks	-	-	26 821	26 821	
Deposits from the Treasury	-	-	304606	304606	
Notes and coins in circulation	-	-	40 075	40 075	
Liabilities to the IMF	-	-	103 378	103 378	
Other financial liabilities	1770	-	2149	3 919	
Total financial liabilities	15 276	31	477 029	492336	

## Note 7 Investment risk

The aim of the management of the foreign exchange reserves is to attain the highest possible return within established guidelines and risk limits. Investment risk is mitigated by managing and controlling the investment management risks to which Norges Bank is exposed. In addition, a well-defined division of roles and responsibilities has been established for the risk management process.

#### Organisation

The Executive Board has the overarching responsibility for risk management at Norges Bank and has established principles for risk management in Central Banking Operations, including financial risk. The Executive Board also lays down the overarching principles for the management of Norges Bank's foreign exchange reserves, including strategic asset allocation, benchmark indexes, investment universe and overarching risk measures.

The Risk and Investment Committee is a preparatory and advisory body to strengthen and improve the Executive Board's work related to investment strategy and risk limits for the foreign exchange reserves.

The Governor is responsible for the management of the foreign exchange reserves. The Governor has operationalised the Executive Board's principles in guidelines issued for the management for the equity portfolio, fixed income portfolio and petroleum buffer portfolio. Operational responsibility for management has been delegated to NBIM and Norges Bank Markets, respectively, with supplemental guidelines.

The division of roles and responsibilities in the risk management system is organised along three lines of defence. The first line of defence comprises the operational risk management and control activities that are performed by the operating units. The second line of defence comprises the central risk management and compliance functions, which are tasked with advising and supporting the operating units. Their task is to challenge the assessments of the first line of defence and ensure that the first line of defence performs adequate controls. The third line of defence is the internal audit function. Internal audit is placed under the Executive Board, independently of the administration, and shall assess whether risk management and compliance function as required.

#### **Framework**

The composition of the foreign exchange reserves and associated risk depends primarily on the strategic equity allocation and the portfolios' benchmark indexes, which are both defined by the Executive Board. The strategic equity allocation of the total equity and fixed income portfolio is 20 percent.

The benchmark index for the equity portfolio is a tax-adjusted version of the FTSE ALL World Developed Market Index, limited to euro area countries, the US, the UK, Japan, Canada, Australia, Switzerland, Sweden and Denmark. The equity portfolio may be invested in cash deposits and equities listed on a regulated and recognised exchange.

The benchmark index for the fixed income portfolio is a market-weighted index of all nominal government bonds with a residual maturity of between one month and 10 years issued by France, Germany, Japan, China, the UK and the US. The fixed income portfolio may be invested in cash deposits, Treasury bills and government bonds issued by the countries in the benchmark index.

No benchmark index has been set for the petroleum buffer portfolio. The purpose of the portfolio is to provide for an appropriate management of the government's need for converting foreign currency and NOK and for any transfers to and from the GPFG. The petroleum buffer portfolio is invested in short-term fixed income instruments.

Through management of the foreign exchange reserves, Norges Bank is exposed to various types of financial risk, including market risk, credit risk and counterparty risk. For the management of the foreign exchange reserves, risk management is defined as the management of these risks. The units with operational responsibility for management have the responsibility for managing risk in accordance with current principles and guidelines.

#### Risk management process

Norges Bank employs several measurement methodologies, processes and systems to control investment risk. Robust and widely accepted risk management systems and processes are complemented by internally developed measurement methods and processes.

#### Market risk

Market risk is defined as the risk of loss or a change in the market value of the portfolio, or parts of the portfolio, as a result of changes in the equity, fixed income or foreign exchange market, including changes in credit premiums.

Continuous monitoring, measurement and assessment of market risk are performed along multiple dimensions. Combining different and complementary risk measures provides a better insight into the portfolios' risk profile. Norges Bank measures both absolute and relative risk for the investments in the portfolios.

## Allocation by geography and industry

The foreign exchange reserves primarily contain investments in sovereign bonds and listed companies. In accordance with the investment management framework, the investments are allocated to several countries and currencies. The following tables show investments broken down by geography and industry.

Table 7.1 Foreign exchange reserves' allocation by asset class and region/sovereign issuer

			č				
		31.12.2	2023	31.12.2022			
Amounts in NOK million		Market value in percent	Market value	Market value in percent	Market value		
Equity portfolio							
Equities	Americas	72%	103 563	71%	78 185		
	Europe	18%	25 883	19%	21005		
	Asia and Oceania	10%	13 683	10%	11 255		
Total equity portfolio		100%	143 129	100%	110 445		
Fixed income portfolio							
Bonds	US	49%	253 090	49%	233 101		
	France	18%	92 647	18%	85 726		
	Germany	15%	77 684	15%	70 521		
	UK	7%	35794	7%	32 443		
	Japan	7%	35 227	7%	31708		
	China	2%	10 238	2%	9354		
Total bonds		98%	504 680	98%	462 853		
Deposits		2%	6 5 9 3	2%	9 093		
Total fixed income portfolio		100%	511 273	100%	471946		
Petroleum buffer portfolio							
Deposits	Americas	10%	3700	57%	15 835		
	Europe	90%	31 681	43%	11 787		
Total petroleum buffer portfolio		100%	35 381	100%	27 622		
Total foreign exchange reserves	s	100%	689783	100%	610 013		

**Table 7.2** Equity portfolio by industry

		31.12.2023		31.12.2022
Amounts in NOK million	Market value	Share	Market value	Share
Technology	38 389	27%	22 377	20%
Consumer discretionary	21 211	15%	15 374	14%
Financials	19 541	14%	16 167	15%
Industrials	18 625	13%	14 751	13%
Health care	17 747	12%	16 532	15%
Consumer goods	7689	5%	7366	7%
Energy	4892	3%	4 827	4%
Basic materials	4 5 6 0	3%	3888	4%
Real estate	3 558	2%	2968	3%
Telecommunications	3 495	2%	3 172	3%
Utilities	3 313	2%	3 097	3%
Other <sup>1</sup>	110	0%	-74	0%
Total equity portfolio	143 129	100%	110 445	100%
Of which presented in the balance sheet on the line Equities	140 244		106 458	
Of which presented in the balance sheet on the line Equities lent	2 885		3 987	

 $<sup>^{1}\,\,</sup>$  Includes other asset and liability items in the equity portfolio

**Table 7.3** Foreign exchange reserves' 10 largest holdings of equities

			31.12.2023
Amounts in NOK million	Sector	Market value	Share <sup>1</sup>
Apple Inc	Technology	7107	5.0%
Microsoft Corp	Technology	7 0 0 7	4.9%
AlphabetInc	Technology	3846	2.7%
Amazon.com Inc	Consumer discretionary	3 426	2.4%
NVIDIA Corp	Technology	2945	2.1%
Meta Platforms Inc	Technology	1961	1.4%
TeslaInc	Consumer discretionary	1716	1.2%
Berkshire Hathaway Inc	Financials	1625	1.1%
Eli Lilly & Co	Health care	1234	0.9%
JPMorgan Chase & Co	Financials	1229	0.9%
Total		32 097	22.4%

			31.12.2022
Amounts in NOK million	Sector	Market value	Share <sup>1</sup>
Apple Inc	Technology	4593	4.2%
Microsoft Corp	Technology	4220	3.8%
AlphabetInc	Technology	2366	2.1%
Amazon.com Inc	Consumer discretionary	1759	1.6%
Berkshire Hathaway Inc	Financials	1317	1.2%
UnitedHealth Group Inc	Health care	1168	1.1%
Johnson & Johnson	Health care	1093	1.0%
Exxon Mobil Corp	Energy	1066	1.0%
JPMorgan Chase & Co	Financials	924	0.8%
Procter & Gamble Co	Consumer goods	842	0.8%
Total		19 349	17.5%

<sup>&</sup>lt;sup>1</sup> Percentage of the total equity portfolio.

## Foreign exchange rate risk

Foreign exchange rate risk is the risk that the value of financial instruments will change owing to movements in foreign exchange rates. Norges Bank has, primarily through the foreign exchange reserves, invested in securities issued and traded in currencies other than NOK. Consequently, the value of these investments is exposed to foreign exchange rate risk. See <a href="note8">note 8</a> Currency for further information on the exchange rates used and the currency distribution in the foreign exchange reserves.

#### Interest rate risk

A substantial portion of the foreign exchange reserves is invested in sovereign bonds issued by the US, Germany, France, the UK, Japan and China. The value of fixed income instruments is affected by changes in interest rates in these countries. The investments' interest rate sensitivity is measured by modified duration. At year-end 2023, modified duration was 3.54 percent for the fixed income portfolio. In isolation, this means that a 1 percent fall in yields corresponds to a 3.54 percent rise in bond prices. By comparison, modified duration at year-end 2022 was 3.59.

#### Volatility and correlation risk

Norges Bank uses models to quantify the risk of value changes associated with the foreign exchange reserves. This is measured by the standard deviation of the return and is usually referred to as volatility. Expected volatility is defined as one standard deviation. Absolute volatility provides an estimate of how much the portfolio value can be expected to change in the course of a year, given the current portfolio composition. Relative volatility (tracking error) provides an indication of how much the portfolio is expected to fluctuate compared with its benchmark index. In accordance with the Executive Board's principles for management of the foreign exchange reserves, the maximum expected relative volatility is set at 50 basis points for the equity and fixed income portfolios, respectively. This implies that that the relative return on the portfolios is expected to lie within the range of ±50 basis points in two out of three years.

The risk models make it possible to estimate the risk in a portfolio across asset classes, markets, currencies, securities and instruments. Risk is then expressed as a single numerical value, which takes into account the correlation between risk factors. The models use historical relationships, which provide reliable forecast in markets that are not experiencing substantial changes in volatility and correlation. Estimates will be less reliable in periods marked by significant market movements. Regular testing of the models is performed to validate the model's ability to estimate risk. Reported risk measures are annualised.

**Table 7.4** Portfolio risk, Expected volatility

Expected volatility								
	31.12.2023	Min 2023	Max 2023	Avg. 2023	31.12.2022	Min 2022	Max 2022	Avg. 2022
Equity portfolio	14.0%	12.7%	16.0%	13.8%	15.2%	14.6%	15.5%	15.1%
Fixed income portfolio	10.7%	9.0%	14.6%	11.6%	14.6%	10.3%	15.0%	13.3%

Expected relative volatility, basis points									
	31.12.2023	Min 2023	Max 2023	Avg. 2023	31.12.2022	Min 2022	Max 2022	Avg. 2022	
Equity portfolio	5	5	10	7	6	4	9	6	
Fixed income portfolio	2	1	3	2	3	2	4	2	

At year-end 2023, expected absolute volatility was measured at 14.0 percent for the equity portfolio and 10.7 percent for the fixed income portfolio. This means that value fluctuations on the order of NOK 20 billion and NOK 55 billion, respectively, can be expected in two out of three years. In these cases, the calculation of expected value fluctuations excludes expected returns. At year-end 2022, the corresponding expected value fluctuations were NOK 17 billion and NOK 69 billion, respectively. At year-end 2023, expected relative volatility for the equity and fixed income portfolios was 5 and 2 basis points, respectively, compared with 6 and 3 basis points, respectively, at year-end 2022.

#### Credit risk

Credit risk is defined as the risk of loss due to an issuer being unable to meet its payment obligations.

The fixed income portfolio comprises only sovereign bonds issued by the US, Germany, France, the UK, Japan and China, all rated investment grade by external credit rating agencies. The credit risk of bond investments in the foreign exchange reserve is therefore regarded as low.

**Table 7.5** Bonds specified by sovereign issuer and credit rating

		31.12.2	31.12.2023		022
Amounts in NOK million	Credit rating	Market value	Share	Market value	Share
Germany	AAA	77 684	15%	70 521	15%
US	AA+	253 090	50%	233 101	50%
France	AA	92 647	18%	85726	19%
UK	AA-	35794	7%	32 443	7%
Japan	A+	10 238	2%	9 354	2%
China	A+	35 227	7%	31708	7%
Total bonds		504 680	100%	462853	100%

#### Counterparty risk

Counterparty risk is defined as the risk of loss due to a counterparty default on its obligations. Counterparty risk includes the risk associated with counterparty insolvency, settlement risk and custodial risk. Counterparty risk is primarily related to securities lending, reverse repurchase agreement, unsecured bank deposits, foreign exchange contracts and futures.

In the management of the foreign exchange reserves a large number of counterparties are used to limit concentration. To reduce counterparty exposure, requirements have been set for the credit quality of counterparties. Norges Bank's counterparties usually have credit rating from several independent credit rating agencies. An internal credit evaluation can only be used as the basis for counterparty approval in instances when the counterparty risk is considered very low. Credit ratings of Norges Bank's counterparties are monitored and complemented by alternative credit risk indicators.

Counterparty risk is also reduced by setting exposure limits for individual counterparties. Netting agreements are in place for trades in securities lending, currency contracts and reverse repurchase agreements, and there are collateral requirements for counterparty net positions with a positive market value. Minimum requirements have also been set relating to the credit quality, time to maturity and concentration of the collateral. Netting and collateral agreements are entered into for all counterparties approved for these types of trades. For securities lending transactions, a premium is added to the market value to reflect the position's volatility, and these positions are also adjusted for netting and actual collateral received and posted when determining net exposure. See <a href="note 10 Collateral and offsetting">note 10 Collateral and offsetting</a> for further information.

At year-end 2023, counterparty risk is regarded as low. Collateral has been posted in excess of the exposure in the open reverse repurchase agreements, and unsecured bank deposits almost exclusively comprise deposits with the Federal Reserve (US dollar) or with other central banks.

**Table 7.6** Counterparties<sup>1</sup> by credit rating

	1	Non brokers	Brokers		
	31.12.2023	31.12.2022	31.12.2023	31.12.2022	
AAA	3	3	-	-	
AA	23	24	23	17	
A	56	57	36	38	
BBB	9	12	18	15	
BB	2	2	12	11	
В	-	-	5	4	
Total	93	98	94	85	

<sup>1</sup> Counterparties in the category "Brokers" are defined as equity and bond brokers and futures brokers. Counterparties in other transactions are classified as "non brokers". In cases where a counterparty is used for trading securities and for other transactions, the same counterparty will be included in both categories. As counterparties are counted per legal entity, several counterparties may be included per corporate group. Counterparties that are central banks are not included in the table.

#### Leverage

Leverage may be used to ensure effective management of the investments in the equity portfolio, but not with the aim of increasing the economic exposure to risky assets. Leverage is the difference between total net exposure and the market value of the portfolio. Leverage in the portfolio was 0.09 percent at year-end 2023, compared with 0.11 percent at year-end 2022.

#### Sale of securities that Norges Bank does not own ("short sale")

The sale of securities that Norges Bank does not own is not permitted in the management of the foreign exchange reserves.

#### Liquidity risk

Liquidity risk is the risk of being unable to meet financial obligations at the agreed time. As a central bank, Norges Bank is not exposed to this type of liquidity risk in local currency. There is little or no liquidity risk associated with the Bank's liabilities, which are primarily in NOK. The majority of assets are held in foreign currency and are highly liquid financial instruments. They may be realised at short notice without a substantial change in value, and the liquidity risk associated with them is therefore regarded as low. Assets in foreign currency are regarded as sufficient for meeting foreign currency obligations.

#### Climate risk

Climate risk is defined as the risk related to future physical climate changes and changes related to the transition to a low-carbon society.

The Executive Board has decided that the equity portfolio in the foreign exchange reserves shall be managed according to the same principles and strategies for responsible management as the equity investments in the GPFG. Among other things, it means that the Bank's work with responsible management is based on a long-term goal that the companies in the investment portfolio align their operations with the goals of the Paris Agreement. The fixed income portfolio in the foreign exchange reserves consists exclusively of government bonds, and climate related issues will have little effect on the composition of the bond portfolio.

### Other risk

#### Credit risk associated with lending to banks

Credit and counterparty risk associated with F-loans and intraday/overnight loans (D-loans) is managed by requiring collateral for such loans, in the form of securities pledged to Norges Bank. The total lending facility for banks is determined by collateral pledged to Norges Bank, F-deposits and deposits with the Scandinavian Cash Pool.

Norges Bank stipulates more detailed terms for pledging securities and fund units as collateral for loans in Norges Bank pursuant to section 6 of the Regulation on the Access of Banks to Borrowing and Deposit Facilities in Norges Bank etc. The current guidelines have been issued in <a href="Norges Bank's Circular No.5/2022">Norges Bank's Circular No.5/2022</a> from November 2022. See <a href="note12 Loans and deposits">note12 Loans and deposits for more information.

The rules for pledging collateral are intended to limit Norges Bank's risk associated with lending to banks and facilitate appropriate levels of bank borrowing. Risk is limited, since only high-quality securities are eligible and since the loan value is lower than the market value of the collateral (haircut).

#### Loans to the IMF

The Kingdom of Norway is a member of the IMF. Norges Bank shall, in accordance with the Central Bank Act, manage the country's rights and obligations as a member of the IMF. This includes making currency available for IMF lending. Norges Bank considers the risk related to IMF loans to be low. See <a href="note14">note14</a> International Monetary Fund (IMF) for further information.

#### Expected credit losses

Financial assets measured at amortised cost are allocated on the reporting date to Stages 1, 2 or 3.

On initial recognition, assets are allocated to Stage 1. Stage 1 requires an estimation of a 12-month expected credit loss. The expected loss in Stage 1 reflects the entire loss on an asset weighted by the probability that the loss will occur in the next 12 months. On each reporting date, an assessment shall be made of whether the credit risk of an asset has increased significantly since initial recognition. If this is the case, the exposure must be moved to Stages 2 or 3. Stages 2 and 3 require estimation of an expected credit loss over the entire life of the exposure.

**Table 7.7** Expected credit loss for financial assets measured at amortised cost

	31.12.	31.12.2022		
Amounts in NOK million	Carrying amount	Expected credit loss	Carrying amount	Expected credit loss
Loans to and net claims on the IMF	27 020	-	23 182	-
Lending to banks	2803	-	15 895	-
Other	405	-	237	-
Total	30 228	-	39 314	-

No loss provisions have been made for expected credit losses at year-end 2023 and 2022.

## Note 8 Currency

### Critical accounting judgement

The management of Norges Bank has concluded that the Bank's functional currency is the Norwegian krone (NOK), since this is the dominant currency in the Bank's underlying activities.

#### **Accounting policy**

Foreign currency transactions are recognised in the financial statements using the exchange rate prevailing on the transaction date. Assets and liabilities in foreign currencies are translated into NOK using the exchange rate at the balance sheet date. The foreign exchange element, which is linked to realised and unrealised gains and losses on assets and liabilities, is disaggregated in the income statement and presented on a separate line, *Foreign exchange gain/-loss*.

#### **Accounting policy**

Gains and losses on financial instruments are due to changes in the price of the instrument (security element) and changes in foreign exchange rates (foreign exchange element). These are presented on separate lines in the income statement. The method for allocating total gains and losses in NOK to a security element and a foreign exchange element is described below.

#### Foreign exchange element

Unrealised gains or losses due to changes in foreign exchange rates are calculated based on the original cost of the holding in local currency and the change in the foreign exchange rate from the time of purchase until the balance sheet date. If the holding has been purchased in a previous period, gains and losses recognised in the income statement in previous periods are deducted to arrive at the gain or loss for the current period. For realised gains or losses, the foreign exchange rate on the date of sale is used for calculating realised gains or losses.

#### Security element

Unrealised gains or losses from changes in the security price are calculated based on the change in the instrument's price from the purchase date to the balance sheet date and the closing exchange rate at the balance sheet date. If the holding was acquired in a previous period, gains and losses recognised in the income statement in previous periods are deducted to arrive at the gain or loss from security.

 Table 8.1
 Foreign exchange reserves by currency

						31.12.2023
Amounts in NOK million	USD	EUR	GBP	JPY	Other	Total
Financial assets						
Deposits in banks	10 099	8 422	668	1378	6	20 573
Securedlending	34781	10 403	15 539	-	-	60 723
Cash collateral posted	-	-	-	-	-	-
Unsettled trades	-	1070	372	505	73	2 020
Equities	100 174	13 237	5 3 5 8	8 484	13 003	140 256
Equities lent	394	205	11	2038	237	2885
Bonds	253 090	170 331	35794	35 227	10 238	504 680
Financial derivatives	3	-	-	-	-	3
Other financial assets	2	46	-	-	50	98
Total financial assets	398 543	203 714	57 742	47 632	23 607	731238
Financial liabilities						
Secured borrowing	29	-	-	-	-	29
Unsettled trades	22 065	8 050	8 074	473	233	38 895
Financial derivatives	3	9	-	-	-	12
Other financial liabilities	2 317	96	20	11	75	2 519
Total financial liabilities	24 414	8 155	8 094	484	308	41 455
Net foreign exchange reserves	374 129	195 559	49 648	47148	23 299	689783

31.12.							
Amounts in NOK million	USD	EUR	GBP	JPY	Other	Total	
Financial assets							
Deposits in banks	18 840	10 005	648	2318	298	32109	
Securedlending	6 4 4 3	7738	4503	-	-	18 685	
Cash collateral posted	6	-	-	-	-	6	
Unsettled trades	-	245	-	672	-	917	
Equities	74 647	10 511	4 072	6 693	10 703	106 626	
Equities lent	1076	407	333	1744	427	3 987	
Bonds	233 101	156 248	32 443	31708	9354	462 853	
Financial derivatives	1	-1	0	11	3	15	
Other financial assets	1	78	0	0	42	122	
Total financial assets	334 115	185 232	41999	43 146	20 827	625 320	
Financial liabilities							
Secured borrowing	37	-	-	-	-	37	
Unsettledtrades	3 014	7593	2 612	250	-	13 469	
Financial derivatives	11	17	4	-	-	31	
Other financial liabilities	1503	44	22	-	201	1770	
Total financial liabilities	4 564	7 653	2 638	250	201	15 307	
Net foreign exchange reserves	329 551	177 579	39 361	42 896	20 626	610 013	

Total comprehensive income is affected by exchange rate movements. A 1 percent depreciation of NOK against all currency crosses will result in a positive impact on the income statement of around NOK 7 billion, and a corresponding negative impact on the income statement from a 1 percent appreciation of NOK.

Table 8.2Exchange rates

	31.12.2023	31.12.2022	Change <sup>1</sup>
US dollar	10.16	9.85	3.1%
Euro	11.22	10.51	6.7%
British pound	12.95	11.85	9.3%
Japanese yen	0.07	0.07	-3.5%
Special Drawing Rights (SDR) <sup>2</sup>	13.65	13.15	3.8%

<sup>&</sup>lt;sup>1</sup> Percentage change in the exchange rate.

 $<sup>^2</sup>$   $\,$  See  $\underline{\text{note 14 International Monetary Fund (IMF)}}$  for further description

# Note 9 Secured lending and borrowing

Secured lending and borrowing comprises transactions in which securities or cash is transferred or received secured by other securities or cash. Transactions are carried out under various agreements such as securities lending agreements and reverse repurchase agreements.

#### **Accounting policy**

#### Income and expense from secured lending and borrowing transactions

Income and expenses from secured lending and borrowing transactions primarily comprise interest and net fees, which are recognised on a straight-line basis over the term of the agreement. This is presented in the income statement as *Income/-expense* from secured lending and *Income/-expense* from secured borrowing, respectively.

**Table 9.1** Income/expense from secured lending and borrowing

Amounts in NOK million	2023	2022
Income/-expense from secured lending	1283	135
Income/-expense from secured borrowing	-	-
Net income/-expense from secured lending and borrowing	1283	135

The purpose of secured lending and borrowing is to generate additional income from securities and cash holdings as a part of liquidity management and contributes to efficient market pricing. The share of securities lent shall not exceed 20 percent of the equity portfolio's market value. Lending is governed by demand for the equities in the portfolio and market pricing. All lending is secured by sufficient collateral received.

#### **Accounting policy**

#### Transferred financial assets

Securities lent to counterparties in connection with secured lending and borrowing are not derecognised when the agreement is entered into, as the derecognition criteria are not met. As the counterparty has the right to sell or pledge the security, the security is considered transferred. Transferred securities are presented on a separate line in the balance sheet, as *Equities lent*. During the lending period, the accounting for the underlying securities is in accordance with accounting policies for the relevant securities.

#### Secured lending

Cash collateral posted to counterparties is derecognised. A corresponding receivable reflecting the cash amount that will be returned is recognised in the balance sheet as an asset, *Secured lending*. This asset is measured at fair value.

#### Secured borrowing

Cash collateral received is recognised as *Deposits in banks* together with a corresponding liability, *Secured borrowing*. This liability is measured at fair value.

#### Collateral received in the form of securities

Collateral received in the form of securities, where Norges Bank has the right to sell or pledge the security, is not recognised in the balance sheet, unless reinvested.

 Table 9.2
 Lending associated with securities financing transactions

Amounts in NOK million	31.12.2023	31.12.2022
Secured lending	60723	18 685
Of which unsettled trades (liability)	32906	9 845
Secured lending excluding unsettled trades	27 817	8 840
Associated collateral in the form of securities (off-balance sheet)		
Equities received as collateral	-	-
Bonds received as collateral	29 562	9 216
Total security collateral received related to lending	29 562	9 216

 Table 9.3
 Transferred financial assets and secured borrowing

Amounts in NOK million	31.12.2023	31.12.2022
Transferred financial assets		
Equities lent	2885	3 987
Total transferred financial assets	2885	3987
Associated cash collateral, recognised as liability		
Secured borrowing	29	37
Of which unsettled trades (assets)	-	-
Secured borrowing excluding unsettled trades	29	37
Associated collateral in the form of securities (off-balance sheet)		
Equities received as collateral	1922	2685
Bonds received as collateral	1170	1628
Total security collateral received related to transferred financial assets	3 0 9 2	4 313

Cash collateral received is reinvested in its entirety. No securities received as collateral were reinvested at year-end 2023 or 2022. Therefore, these securities are not recognised in the balance sheet.

# Note 10 Collateral and offsetting

## **Accounting policy**

#### Cash collateral, derivative transactions

Cash collateral posted in connection with derivative transactions is derecognised. A corresponding receivable reflecting the cash amount that will be returned is recognised in the balance sheet as Cash collateral posted. Cash collateral received in connection with derivative transactions is recognised as Deposits in banks together with a corresponding liability, Cash collateral received. Both Cash collateral posted and Cash collateral received are measured at fair value.

#### Offsetting

Financial assets and liabilities are offset and presented net in the balance sheet when there is a legally enforceable right to offset and an intention to settle on a net basis or realise the asset and settle the liability as a whole.

#### Collateral

The balance sheet lines Cash collateral posted and Cash collateral received are exclusively associated with derivative transactions. In connection with secured lending and borrowing transactions, collateral will be posted or received in the form of securities or cash, see <a href="note-9">note-9</a> Secured lending and borrowing for further information.

### Offsetting

For various counterparties and transaction types, cash collateral will be both posted to and received from the same counterparty. Therefore, received cash collateral can be netted against posted cash collateral and vice-versa, as shown in table 10.1 Assets and liabilities subject to netting agreements. The table shows an overview of financial assets and liabilities, the effects of legally enforceable netting agreements and related collateral to reduce credit risk. The column Amount in the balance sheet subject to netting shows the carrying amounts of financial assets and liabilities that are subject to legally enforceable netting agreements. These amounts are adjusted for effects of potential netting of recognised financial assets and liabilities, together with posted or received cash collateral, with the same counterparty. The remaining net exposure is presented in the column Amount after netting and collateral.

In the event of counterparty default, a collective settlement between Norges Bank and the bankruptcy estate could be performed for certain groups of instruments, irrespective of whether the instruments belong to the GPFG or Norges Bank's foreign exchange reserves. Such cross nettings will be settled between these portfolios, but are therefore not adjusted for in this table.

**Table 10.1** Assets and liabilities subject to netting agreements

							31.12.2023
			Amounts subject to enforceable netting agreements				nents
Amounts in NOK million	Gross amonunt as recognised in the balance sheet	Amount in the balance sheet not subject to enforceable netting agreements	Amount in the balance sheet subject to netting	Amount related to same counter- party	Cash collateral (recog- nised)	Security collateral (not recog- nised)	Amount after netting and collateral
Assets							
Securedlending	60 723	32906	27 817	-	-	27 817	-
Financial derivatives	3	3	-	-	-		-
Total	60726	32 909	27 817	-	-	27 817	-
Liabilities							
Secured borrowing	29	-	29	-	-	29	-
Financial derivatives	12	12	-	-	-		-
Total	41	12	29	-	-	29	-

							31.12.2022
			Amoun	Amounts subject to enforceable netting agreements			nents
Amounts in NOK million	Gross amonunt as recognised in the balance sheet	Amount in the balance sheet not subject to enforceable netting agreements	Amount in the balance sheet subject to netting	Amount related to same counter- party	Cash collateral (recog- nised)	Security collateral (not recog- nised)	Amount after netting and collateral
Assets							
Secured lending	18 685	9 8 4 5	8 8 4 0	-	-	8 8 4 0	-
Financial derivatives	15	15	-	-	-	-	-
Total	18 700	9860	8 840	-	-	8 840	-
Liabilities							
Secured borrowing	37	-	37	-	-	37	-
Financial derivatives	31	31	-	-	-	-	-
Total	68	31	37	-	-	37	-

## Note 11 Deposits in banks

## **Accounting policy**

Deposits in banks are primarily measured at fair value through profit or loss since they are associated with the management of the foreign exchange reserves. Deposits working accounts are not associated with the management of the foreign exchange reserves and are measured at amortised cost.

Accrued interest on deposits at year-end are included in this balance sheet line.

Norges Bank's deposits in banks are primarily associated with the management of the foreign exchange reserves. Different types of deposits are used for this purpose, and the aim of foreign currency deposits is to attain the highest possible return, at the same time as the funds remain liquid for contingency purposes.

Table 11.1 Deposits in banks

Amounts in NOK million	31.12.2023	31.12.2022
Nostro foreign banks	15 924	23 527
Time deposits foreign banks	4 321	8 372
Margin deposits futures	330	214
Fixed-rate deposits BIS	-	-
Deposits working accounts	217	221
Total deposits in banks	20 792	32334

**Table 11.2** Interest income from deposits in banks

Amounts in NOK million	2023	2022
Interest income on nostro foreign banks	371	24
Interest income on time deposits foreign banks	2 574	1502
Interest income on margin deposits futures	8	2
Interest income on fixed-rate deposits BIS	8	-
Interest income on deposits working accounts	2	1
Total interest income from deposits in banks	2963	1529

## Nostro foreign banks

Nostro foreign banks comprise foreign currency deposits in foreign banks, central banks and the BIS. Nostro account overdrafts are normally to be avoided, and any overdrafts shall be covered immediately.

#### Time deposits foreign banks

Time deposits foreign banks are short-term deposits with the BIS or other approved central banks at an agreed interest rate. Deposits are primarily in euro and US dollar.

#### Margin deposits futures

Margin deposits futures consist of liquidity placed with the Bank's futures broker.

## Fixed-rate deposits BIS

Norges Bank may place deposit at the BIS at an agreed fixed interest rate with a maximum term of three months. Fixed-rate deposits are primarily in euro.

## Deposits working account

Deposits working account primarily include deposits in foreign accounts used for operations (payroll and invoice management) by NBIM's foreign offices.

# Note 12 Loans and deposits

## **Accounting policy**

At initial recognition, loans to banks are recognised in the balance sheet at fair value. There are no establishment fees or other directly attributable transaction costs. Subsequent measurement is at amortised cost, where the effective interest is recognised under the line *Interest income from lending to banks* in the income statement. If there is an indication that an impairment loss has been incurred, the amount of the loss is measured as the difference between the carrying amount and the present value of estimated future cash flows. The carrying amount of the engagement is reduced, and the amount of the loss for the period is recognised in profit or loss.

At initial recognition, Deposits from banks and Deposits from the Treasury are recognised in the balance sheet at fair value. Subsequent measurement is at amortised cost, where the effective interest is recognised under the line Interest expense on deposits from banks and the Treasury in the income statement.

## Table 12.1 Lending to banks

Amounts in NOK million	31.12.2023	31.12.2022
Fixed-rate loans to banks	2803	15 895
Total lending to banks	2803	15 895

## **Table 12.2** Deposits from banks

Amounts in NOK million	31.12.2023	31.12.2022
Sight and reserve deposits from banks	37 955	26 353
Fixed-rate deposits from banks	20 007	-
Other deposits	393	468
Deposits from banks	58 355	26 821

## **Table 12.3** Deposits from the Treasury

Amounts in NOK million	31.12.2023	31.12.2022
Deposits from the Treasury	281 816	304606
Deposits from the Treasury	281 816	304 606

## **Table 12.4** Interest income from lending to banks

Amounts in NOK million	2023	2022
Interest income on D-loans to banks	-	-
Interest income on Fixed-rate loans to banks	905	595
Total interest income from lending to banks	905	595

#### Interest terms for loans to banks

Fixed-rate loans (F-loans) are the instrument primarily used to supply liquidity to the banking system. They are issued to banks at a fixed or floating rate and specified maturity against collateral in the form of securities. The maturity on F-loans is determined by Norges Bank and varies depending on the projection of structural liquidity. Average maturity on floating rate F-loans to banks was 3.6 days in 2023 and 3.8 days in 2022. Average maturity on fixed rate F-loans to banks was 3.3 days in 2023, compared with 1.0 day in 2022.

The interest rates on F-loans are normally determined by multi-price auctions. In a multi-price auction banks submit bids for a desired amount and interest rate. Norges Bank decides the aggregate amount of the allotment. The banks' interest rate bids are ranked in descending order. Banks that place bids within the aggregate amount will be awarded in the amount and at the interest rate submitted. The interest rate is normally close to the policy rate.

D-loans may be intraday or overnight. Intraday D-loans improve the efficiency of payment settlement, as banks can obtain cover for their positions. These loans are interest-free and are normally repaid by the end of the day. If the loan extends overnight, it becomes an interest-bearing D-loan, with an interest rate 1 percentage point above the policy rate.

**Table 12.5** Interest expense on deposits from banks and the Treasury

Amounts in NOK million	2023	2022
Interest expense on sight and reserve deposits from banks	-1218	-421
Interest expense on fixed-rate deposits from banks	-296	-109
Interest expense on depots operated by banks	-19	-7
Interest expense on deposits from the Treasury	-13 336	-2442
Total interest expense on deposits from banks and the Treasury	-14 869	-2 979

#### Interest terms for deposits from banks

Sight deposits: Banks can deposit unlimited reserves in Norges Bank via the standing deposit facility. The interest rate on deposits less than or equal to a bank's quota is equal to the policy rate (sight deposit rate). Sight deposits in excess of this quota, referred to as reserve deposits, are remunerated at a lower rate, the reserve rate. The reserve rate is 1 percentage point lower than the policy rate.

Fixed-rate deposits: Norges Bank reduces the quantity of reserves in the banking system by providing banks with fixed-rate deposits (F-deposits). As in the case of F-loans, the interest rate is normally determined by multi-price auction. The maturity on F-deposits is determined by Norges Bank and varies depending on the projection of structural liquidity. Norges Bank can offer F-deposits at a floating rate, i.e. the interest rate on the F-deposits depends on the benchmark rate in the money market. Average maturity on F-deposits was 2.4 days in 2023 and 2.1 days in 2022.

#### Interest terms for deposits from the Treasury

Interest terms for deposits from the government are set in a special agreement between Norges Bank and the Ministry of Finance. The interest rate on the government's account is calculated on the basis of yields on foreign short-term government securities, weighted by the investments in the foreign exchange reserves.

**Table 12.6** Interest rate (p.a.) on Treasury deposits

	2023	2022
First quarter	3.00%	0.00%
Second quarter	3.75%	0.00%
Third quarter	4.00%	0.50%
Fourth quarter	4.25%	1.75%

## Note 13 Notes and coins

## **Accounting policy**

Notes and coins in circulation are recognised in the balance sheet at face value when they are put into circulation and derecognised when they are withdrawn from. Notes and coins are put into circulation at the time they are removed from a central bank depot and transferred to private banks. Likewise, they are removed from circulation when they are returned to a central bank depot.

Norges Bank is obliged to redeem withdrawn notes and coins at face value. At the date of withdrawal of notes and coins, a provision equal to an amount, which is deemed unlikely to be redeemed, is made. Changes in the provision are recognised in profit or loss as Other financial income/-expenses.

Expenses for the production of notes and coins are recognised in profit or loss as incurred in Other operating expenses.

**Table 13.1** Notes and coins in circulation

Amounts in NOK million	31.12.2023	31.12.2022
Denomination		
50-krone	1045	1044
100-krone	1992	2 026
200-krone	5 531	5779
500-krone	19 621	19 436
1000-krone	7 821	7 526
Total notes	36 010	35 811
Total coins	4 214	4264
Total notes and coins	40 224	40 075
Provision of withdrawn notes from Series VII	-500	-
Notes and coins in circulation	39724	40 075

At year-end 2023, notes and coins in circulation amounted to NOK 39.7 billion, compared with NOK 40.1 billion at year-end 2022. Of notes and coins in circulation at 31 December 2022, NOK 5 652 million comprised withdrawn notes. This pertains to all denominations in Series VII, which were withdrawn in 2018, 2019 and 2020. Norges Bank is still obliged to redeem these notes at face value.

In 2023, NOK 500 million was recognised as income due to a change of provision related to the withdrawal of Series VII notes from circulation. In 2022, NOK 69 million was recognised as income related to withdrawn notes and coins. This is due to a correction of an insufficient amount recognised as income from a previous banknote series.

In 2023, withdrawn notes and coins were redeemed in the amount of NOK 7.1 million, compared with NOK 7.2 million in 2022.

# Note 14 International Monetary Fund (IMF)

## **Accounting policy**

#### Reserve tranche position

The reserve tranche position comprises Norges Bank's allocated IMF quota less the IMF's krone deposit with Norges Bank. The outstanding balance with the IMF is recognised gross in the balance sheet, under *Claims on the IMF* and *Liabilities to the IMF*, respectively. The IMF quota and the krone liability to the IMF are measured at amortised cost.

#### Allocated Special Drawing Rights (SDRs)

Norges Bank's holdings of SDRs are recognised as an asset in the balance sheet, under *Claims on the IMF*. The equivalent value of SDR allocations by the IMF shows Norges Bank's total allocations of SDRs and is recognised as a liability, under *Liabilities to the IMF*. Norges Bank's holdings of SDRs and the equivalent value of SDRs are measured at amortised cost.

## Loans to the IMF and international commitments under the auspices of the IMF

Loans and international commitments are recognised in the balance sheet at fair value at initial recognition, under *Claims on the IMF.* Subsequent measurement is at amortised cost.

Pursuant to section 3-10, sub-section 1, of the Central Bank Act, Norges Bank shall administer Norway's financial rights and obligations ensuing from participation in the International Monetary Fund (IMF).

Norway helps to finance the IMF through Norway's IMF quota subscription and various lending agreements with the IMF. The current lending agreements are: the multilateral lending programme New Arrangements to Borrow (NAB), bilateral borrowing agreements with the IMF and agreements to finance the Poverty Reduction and Growth Trust (PRGT).

**Table 14.1** Claims on and liabilities to the IMF

					31.12.2023
Amounts in NOK million	Loan resource commitments <sup>1</sup>	Amounts drawn on commitments	Subscription <sup>2</sup>	SDRs	Total amount recognised
Financial assets					
IMF subscription (quota)	-	-	51 599	-	51599
Holdings of Special Drawing Rights (SDRs)	-	-	-	75 176	75 176
Loans to the IMF - NAB	53 688	55	-	-	55
Loans to the IMF - Bilateral borrowing agreement	35 283	-	-	-	-
Loans to the IMF - PRGT	15 697	8 169	-	-	8169
Claims on the IMF	-	8 2 2 4	51 599	75 176	134 999
Financial liabilities					
Krone liability to the IMF	-	-	37 035	-	37 035
Equivalent value of SDR allocations	-	-	-	70 944	70 944
Liabilities to the IMF	-	-	37 035	70 944	107 979
Net positions with the IMF	-	8 2 2 4	14 564	4 2 3 2	27 020

					31.12.2022
Amounts in NOK million	Loan resource commitments <sup>1</sup>	Amounts drawn on commitments	Subscription <sup>2</sup>	SDRs	Total amount recognised
Financial assets					
IMF subscription (quota)	-	-	49 609	-	49 609
Holdings of Special Drawing Rights (SDRs)	-	-	-	72 328	72 328
Loans to the IMF - NAB	51736	248	-	-	248
Loans to the IMF - Bilateral borrowing agreement	34 001	-	-	-	-
Loans to the IMF - PRGT	15 126	4375	-	-	4 3 7 5
Claims on the IMF	-	4 623	49 609	72 328	126 560
Financial liabilities					
Krone liability to the IMF	-	-	35 173	-	35 173
Equivalent value of SDR allocations	-	-	-	68 205	68 205
Liabilities to the IMF	-	-	35 173	68 205	103 378
Net positions with the IMF	-	4 623	14 436	4123	23182

<sup>1</sup> Commitments giving the IMF a borrowing facility with Norges Bank up to an agreed amount. Only the portion drawn is recognised in the balance sheet.

All rights in and commitments to the IMF are denominated in SDRs. The value of the SDR is calculated on the basis of a currency basket comprising the US dollar, euro, Chinese renminbi, Japanese yen and British pound. The currency weights are adjusted each year in accordance with changes in bilateral foreign exchange rates.

## Norway's IMF quota subscription

The IMF is owned and directed by member countries and functions like a credit union in which each member country pays in a subscription, also called its quota. These subscriptions are the IMF's basic source of funding for loans. The amount of the subscription reflects the member country's relative position in the global economy. The quota determines a member country's voting power in IMF decisions, the member's financial contribution to the IMF, the amount of financing the member can access in the event of balance of payments problems and the amount of SDRs the member receives when SDRs are allocated.

Norway's quota is unchanged from year-end 2022. Converted to Norwegian kroner, the quota was NOK 51 599 million as at 31 December 2023, compared with NOK 49 609 million as at 31 December 2022.

<sup>&</sup>lt;sup>2</sup> The net subscription refers to the reserve tranche position and is Norway's quota less Norway's krone liability to the IMF. If necessary, Norges Bank may draw from the IMF an amount equal to Norway's reserve tranche position.

### Holdings and equivalent value of Special Drawing Rights (SDRs)

The IMF has created an international reserve asset called the Special Drawing Rights (SDR). SDRs are periodically allocated to IMF member countries, most recently in 2021. Equivalent value of SDR allocations shows the amount of SDRs Norway has been allocated since the scheme was established. Holdings of SDRs may be used to pay in quota increases, for other transactions with the IMF or for purchase or sale of SDRs from or to other IMF members. However, SDRs cannot be used for direct purchases of goods and services.

Norges Bank's SDR allocation is unchanged from year-end 2022. Converted to Norwegian kroner, a total of NOK 70 944 million had been allocated to Norway as at 31 December 2023, compared with NOK 68 205 million at year-end 2022.

Norges Bank's holdings of SDRs have been deposited with the IMF and amounted to NOK 75 176 million as at 31 December 2023, compared with NOK 72 328 million at year-end 2022.

#### Norges Bank's loans to the IMF

#### New Arrangements to Borrow (NAB)

The New Arrangements to Borrow (NAB) programme is used for loans if the IMF has a need for funds in excess of subscriptions from member countries.

Norges Bank's total resource commitments under the NAB were unchanged from year-end 2022. Converted to Norwegian kroner, total resource commitments were NOK 53 688 million as at 31 December 2023, compared with NOK 51 736 million at year-end 2022.

Norges Bank's loans to the IMF under the NAB as at 31 December 2023 totalled NOK 55 million, compared with NOK 248 million at year-end 2022.

#### Bilateral borrowing agreement

In 2020, the IMF and Norges Bank concluded a bilateral borrowing agreement. The agreement is part of a broader international effort to ensure the IMF sufficient resources to meet the borrowing requirements of member countries in times of crisis. Under the agreement, the IMF is provided with a borrowing facility in the form of a drawing arrangement on Norges Bank. In 2023, the original agreements from 2020 was extended by one year. The agreement is now valid until 31 December 2024.

This borrowing agreement has for the time being not been drawn on. Converted to Norwegian kroner, the borrowing agreement was NOK 35 283 million as at 31 December 2023, compared with NOK 34 001 million at year-end 2022.

#### Poverty Reduction and Growth Trust (PRGT)

Norway participates in the financing of the IMF's subsidised lending programme for low-income countries under four agreements. Norway signed such agreements with the IMF in 2010, 2016, 2020 and 2022.

Norges Bank's borrowing agreement to the PRGT lending programme is unchanged from year-end 2022. Converted to Norwegian kroner, the borrowing agreement was NOK 15 697 million as at 31 December 2023, compared with NOK 15 126 million at year-end 2022.

Norges Bank's loans to the PRGT totalled NOK 8 169 million as at 31 December 2023, compared with NOK 4 375 million at year-end 2022.

### The IMF's deposits with Norges Bank

The IMF has deposited its entire NOK holdings with Norges Bank, referred to as the Krone liability to the IMF. However, the value of these deposits is adjusted so that the IMF bears no risk associated with exchange rate movements between the krone and the SDR.

As at 31 December 2023, krone deposits from the IMF totalled NOK 37 035 million, compared with NOK 35 173 million at year-end 2022.

#### Net interest income on claims on and liabilities to the IMF

**Table 14.2** Net interest income, claims on/liabilities to the IMF

				2023
Amounts in NOK million	Amount drawn on loan resource commitments	Subscription	SDRs	Total
Interest income from the IMF	286	1988	2942	5 216
Interest expenses to the IMF	-	-1437	-2798	-4 235

				2022
Amounts in NOK million	Amount drawn on loan resource commitments	Subscription	SDRs	Total
Interest income from the IMF	57	582	855	1494
Interest expenses to the IMF	-	-424	-819	-1243

#### SDR interest rate

The SDR interest rate forms the basis for interest income and expense related to member countries' relationship with the IMF. The rate is calculated and published every week by the IMF. It is based on a weighted average of the three-month sovereign yields in countries/currency areas included in the SDR basket (USD/EUR/CNY/JPY/GBP). The interest rate has a floor of 5 basis points.

#### Interest on the IMF quota subscription and interest on the krone liability to the IMF

Interest on the reserve tranche position is calculated by the IMF. Interest is calculated net by the IMF but presented gross in Norges Bank's financial statements as interest income and interest expenses associated with the quota subscription. Interest is calculated monthly and netted quarterly. The interest rate is based on the IMF's SDR, with the deductions and additions resulting from the IMF's Burden Sharing mechanism. Under the Burden Sharing mechanism, the SDR interest rate is adjusted to compensate for any future revenue losses.

#### Interest on Special Drawing Rights and interest on equivalent value of SDR allocations

Norges Bank earns interest income on its holdings of SDRs and is charged for interest expenses on the equivalent value of SDR allocations. Interest is calculated monthly and netted quarterly. The interest rate is the current SDR interest rate at any given time.

#### Interest on IMF lending programmes

Interest is calculated monthly and netted quarterly. The interest rate is the current SDR interest rate at any given time.

## Note 15 Personnel expenses

## **Accounting policy**

Pay comprises all types of remuneration to the Bank's own employees and is expensed as earned. Ordinary pay may be either a fixed salary or hourly wages and is earned and disbursed on an ongoing basis. Holiday pay is earned on the basis of ordinary pay and is normally disbursed during the holiday months of the subsequent year. Performance-based pay is earned and calculated on the basis of various performance targets and is disbursed in subsequent years.

Payroll tax is calculated and expensed for all pay-related expenses and normally paid in arrears every other month. Pensions are earned under separate rules, see note 16 Pension for further information.

#### Salary system

Norges Bank's Executive Board sets the limits for the Bank's salary and remuneration schemes and monitors how they are put into practice. Pay levels are to be competitive, but not market-leading. Salaries are set individually and reflect the position's responsibilities and the employee's skills, experience and achievements. Total remuneration paid includes fixed salary, performance-based pay and overtime payments.

Norges Bank employs external consultants to perform annual comparisons of salary levels with other employers. The Executive Board has a Remuneration Committee comprising three of the external members and one employee representative. The Committee contributes to thorough and independent discussion of matters pertaining to the salary and remuneration schemes.

The Executive Board sets salary bands for the CEO of NBIM, executive managers and employees in Central Banking Operations (CBO) whose salary is determined by the Governor. The Governor determines, within band set, the annual salary adjustment based on the managers' performance in the previous year.

Norges Bank's Executive Board lays down the principles for NBIM's salary system. The Executive Board sets further salary bands for the employees in NBIM who are part of the NBIM's leader group. The leader group receives only a fixed salary. The CEO of NBIM determines, within band set, the annual salary adjustment based on the managers' performance in the previous year.

#### Performance-based pay NBIM

In addition to a fixed salary, employees of NBIM whose work directly involves investment decisions, and certain other NBIM employees, may be entitled to performance-based pay. Performance-based pay is calculated on the basis of the performance of the GPFG, group and individual measured against agreed qualitative and quantitative targets. Qualitative targets may include aspects of environmental, social and governance (ESG) performance. Results are measured over a period of at least two years.

Performance-based pay may not normally exceed 100 percent of fixed salary. For a limited number of employees at international offices, the cap may be up to 200 percent of fixed salary. Employees receiving performance-based pay earned on average 60 percent of the total limit for 2023, based on performance over several years. Expected annual accrued performance-based pay is 60 percent of the total limit.

Accrued performance-based pay is paid over several years. Half is paid the year after it is accrued, while half is held back and paid over the following three years. The amount held back is adjusted for the return on the GPFG.

Performance-based pay totalling NOK 300 million was paid to 225 employees in 2023. In the same period, a total of NOK 11 million of performance-based pay was paid to employees at our subsidiaries.

At year-end 2023, the overall limit for performance-based pay was NOK 533 million. The subsidiaries had an overall limit of NOK 23 million.

In line with the management mandate from the Ministry of Finance, the remuneration system complies with the requirements of the regulations issued under the Norwegian Securities Funds Act with necessary adjustments. The Executive Board's Remuneration Committee shall contribute to thorough and independent discussion of matters pertaining to the remuneration scheme in Norges Bank. In addition, Norges Bank's Internal Audit conducts an independent review of compliance with rules and guidelines for remuneration. The review in 2023 confirmed that the implementation of the remuneration scheme for 2022 was in compliance with the rules. There were no significant changes to the remuneration system in 2023.

## Performance-based pay Central Banking

Central Banking employees whose work directly involves investment decisions for the foreign exchange reserves may be entitled to performance-based pay. This scheme is a supplement to the ordinary salary system. Performance-based pay is calculated on the basis of performance measured against set targets for the management of the foreign exchange reserves. Accrued performance-based pay is paid over several years. Maximum accrued performance-based pay may not exceed the fixed salary. 60 percent of the calculated performance-based pay is paid the year after it is accrued, and the other 40 percent is held back and paid over the following three years.

Performance-based pay totalling NOK 3 million was paid to 11 employees in 2023. At year-end 2023, the overall limit for performance-based pay was NOK 13.8 million.

#### Personnel expenses

**Table 15.1** Personnel expenses

Amounts in NOK million	2023	2022
Salary and fees	2003	1678
Employer's social security contributions	278	204
Pension expense, see <u>note 16 Pension</u>	241	187
Other personnel expenses	331	281
Personnel expenses	2853	2350

#### Number of employees / full-time equivalent (FTE)

**Table 15.2** Number of employees/FTEs

	31.12.2023	31.12.2022
Number of employees	1079	1007
Number of FTEs	1059	999

## Benefits to governing bodies

## **Supervisory Council**

Total remuneration paid in 2023 was NOK 1 211 462. Of this amount, fixed remuneration was NOK 960 000. Remuneration rates for 2023 were set by the Storting as from 1 January 2022 (cf Recommendation 40 S (2021-2022)). The remaining NOK 250 862 is other remuneration for attending meetings, including for lost earnings. Total remuneration paid in 2022 was NOK 1 072 000.

With regard to remuneration to the director of the Office of the Supervisory Council and other expenses, see the Supervisory Council's report to the Storting for 2023.

 Table 15.3
 Remuneration to the Supervisory Council and the Permanent Committee

			2023
Amounts in NOK	Total remuneration per member	Supervisory Council	The Permanent Committee
Chair	175 400	70 200	105 200
Deputy chair	117 000	46 800	70 200
Three members of the Permanent Committee	105 400	35 200	70 200
10 members of the Supervisory Council	35200	35 200	-

			2022
Amounts in NOK	Total remuneration per member	Supervisory Council	The Permanent Committee
Chair	175 400	70 200	105 200
Deputy chair	117 000	46 800	70 200
Three members of the Permanent Committee	105 400	35 200	70 200
10 members of the Supervisory Council	35200	35 200	-

#### Executive Board - external members

Service on the Executive Board is remunerated at fixed annual rates. Remuneration to members and alternates of the Executive Board is determined by the Ministry of Finance. Total remuneration to members and alternates of the Executive Board and its committees was NOK 2 963 900 in 2023, compared with NOK 2 817 100 in 2022.

**Table 15.4** Remuneration to the Executive Board

Amounts in NOK 20						2023
Name	Total remuneration	Executive Board	Audit Committee	Remuneration Committee	Ownership Committee	Risk and Investment Committee
Karen Helene Ulltveit-Moe	508300	387600	90 600	30100		
Kristine Ryssdal	471 650	387600		30100	53 950	
Arne Hyttnes	493 550	387600	75 850	30100		
Hans Aasnæs	486500	387600				98 900
Nina Udnes Tronstad	517 400	387600	75 850		53 950	
Egil Herman Sjursen	486500	387600				98 900

Amounts in NOK 200						
Name	Total remuneration	Executive Board	Audit Committee	Remuneration Committee	Ownership Committee	Risk and Investment Committee
Karen Helene Ulltveit-Moe <sup>1</sup>	510 350	368 400	86100	16 683		39167
Kristine Ryssdal	448 300	368 400		28 600	51300	
Arne Hyttnes	469100	368 400	72100	28 600		
Hans Aasnæs	462 400	368 400				94 000
Nina Udnes Tronstad <sup>2</sup>	482342	368 400	72100	11 917	29 925	
Egil Herman Sjursen <sup>3</sup>	444 608	368 400			21375	54 833

<sup>1</sup> Member in the period 1 January 2022 to 30 May 2022 in the Risk and Investment Committee and 1 June 2022 to 31 December 2022 in the Remuneration Committee.

<sup>&</sup>lt;sup>2</sup> Member in the period 1 January 2022 to 30 May 2022 in the Remuneration Committee and 1 June 2022 to 31 December 2022 in the Ownership Committee.

<sup>3</sup> Member in the period 1 January 2022 to 30 May 2022 in the Ownership Committee and 1 June 2022 to 31 December 2022 in the Risk and Investment Committee.

#### Monetary Policy and Financial Stability Committee – external members

Service on the Monetary Policy and Financial Stability Committee is remunerated at fixed annual rates as set by the Ministry of Finance. Total remuneration to the external members of the committee was NOK 708 600 in 2023, compared with NOK 673 600 in 2022.

Table 15.5 Remuneration to the Monetary Policy and Financial Stability Committee

Amounts in NOK		
Name	2023	2022
Ingvild Almâs	354300	336 800
Jeanette Fjære-Lindkjenn	354300	336 800

#### Benefits to senior executives

Senior executives are entitled to the same retirement benefits and have the same borrowing rights as Norges Bank's other employees. Pension benefits earned for the year are equal to the individual executive's accrued service cost for the year. Pension plans are discussed in <u>note 16 Pension</u>, and loans to employees are discussed in a separate section in this note.

Senior executives do not earn performance-based pay or other variable remuneration.

Value of other benefits shows the tax value of benefits-in-kind and primarily comprise coverage of electronic communication, personal insurance and some travel expenses.

#### Governor and Deputy Governors

The salaries of the Governor and Deputy Governors of Norges Bank are determined by the Ministry of Finance. In addition, they have a free telephone, free newspaper subscription and insurance covered by their employer.

A six-month quarantine period applies to the Governor and Deputy Governors after stepping down or the end of their terms of office. The Ministry of Finance may grant an exemption from this quarantine period. As long as the quarantine period is in force, the Governor and Deputy Governor are entitled to maintain a normal salary and other remuneration.

 Table 15.6
 Remuneration to the Norges Bank Executive Management Team

Amounts in NOK 202					
Position	Name	Gross salary	Value of other benefits	Pension benefits earned	Employee loan
Governor	lda Wolden Bache	2 523 686	11 503	387154	-
Deputy Governor	Øystein Børsum	2 234 720	17 469	399 086	-
Deputy Governor	Pål Longva	2 0 9 2 4 6 5	11 775	440 892	-
Chief Executive Officer - NBIM	Nicolai Tangen	7141040	18 472	382 856	-
Deputy Chief Executive Officer - NBIM / Chief of Staff	Trond Grande	5 199 029	9156	409 556	-
Executive Director, Norges Bank Administration	Alexander Behringer <sup>1</sup>	2 047 602	10 900	365 953	-
Executive Director, General Secretariat	Ingrid Solberg <sup>1</sup>	1876 341	18 052	343 189	-

<sup>&</sup>lt;sup>1</sup> Held the position of Acting Executive Director during all of 2023

Amounts in NOK 2022						
Position	Name	Gross salary	Value of other benefits	Pension benefits earned	Employeeloan	
Governor	Ida Wolden Bache <sup>1</sup>	2 012 823	10 10 6	355 675	-	
Deputy Governor	Øystein Børsum	2 019 671	10 249	439 433	-	
Deputy Governor	Pål Longva <sup>2</sup>	735 217	4 203	150 991	-	
Chief Executive Officer - NBIM	Nicolai Tangen	6 872 066	11 012	411 431	-	
Deputy Chief Executive Officer - NBIM / Chief of Staff	Trond Grande	4930080	9 610	447 975	-	
Executive Director, General Secretariat	Birger Vikøren	1955109	9 653	356 586	-	
Former senior executives						
Governor	Øystein Olsen³	987 606	30 613	49 038	-	
Deputy Governor	Ida Wolden Bache <sup>1</sup>	352 666	1420	71135	-	
Executive Director, Norges Bank Administration	Jane Kristin Aamodt Haugland <sup>4</sup>	1805351	9 018	380 444	-	

Began in the position as Governor on 2 March 2022. Resigned from the position as Deputy Governor on 1 March 2022. Remuneration shown from-/up until the date the appointment/resignation of the respective positions became effective.

<sup>&</sup>lt;sup>2</sup> Began in the position as Deputy Governor on 29 August 2022. Remuneration shown from the date the appointment became effective.

 $<sup>^{3} \ \ \</sup>text{Resigned from this position on 28 February 2022. Remuneration shown up until the date the resignation became effective.}$ 

<sup>4</sup> Resigned from this position on 1 November 2022. Remuneration shown up until the date the resignation became effective.

## Benefits to senior executives in Norges Bank's Central Banking Operations

 Table 15.7
 Remuneration to senior executives in Norges Bank's Central Banking Operations

Amounts in NOK					2023
Position	Name	Gross salary	Value of other benefits	Pension benefits earned	Employee loan
Executive Director, Financial Stability	Torbjørn Hægeland	2 241 047	24840	360 956	-
Executive Director, Monetary Policy	Ole Christian Bech-Moen	2 240 330	12 611	336 373	-
Executive Director, Markets	Gaute Langeland <sup>1</sup>	1496 579	6 440	244 284	-
Executive Director, ICT	Øystein Kruge	2 039 220	9156	418 109	-

<sup>&</sup>lt;sup>1</sup> Began in this position on 1 May 2023. Remuneration shown from the date the appointment became effective.

Amounts in NOK 202						
Position	Name	Gross salary	Value of other benefits	Pension benefits earned	Employee loan	
Executive Director, Financial Stability	Torbjørn Hægeland	2 129 677	16100	382 825	-	
Executive Director, Monetary Policy	Ole Christian Bech-Moen	2 129 677	9204	358 953	-	
Executive Director, ICT	Øystein Kruge <sup>1</sup>	151 966	710	50 298	-	
Former senior executives						
Executive Director, Markets and ICT	Olav Andreas Bø²	1098323	4992	209 407	-	

 $<sup>^{1} \</sup>quad \text{Began in this position on 1 December 2022. Remuneration shown from the date the appointment became effective.}$ 

<sup>&</sup>lt;sup>2</sup> Resigned from this position on 1 July 2022. Remuneration shown up until the date the resignation became effective.

## Remuneration to senior executives in Norges Bank Investment Management

A quarantine period of six months applies to the CEO of NBIM after stepping down or the end of his term of office. Moreover, he has contractually waived his rights to employment protection in exchange for severance pay. Severance pay shall be paid for six months in the event of dismissal by Norges Bank and for three months in the event of resignation. Any income from a new employer will be deducted from this compensation.

Table 15.8 Remuneration to senior executives in Norges Bank Investment Management

Amounts in NOK 2						2023
Position	Name	Gross salary	Gross performance pay	Value of other benefits	Pension benefits earned	Employee loan
Chief Human Resources Officer	Ada Magenæs Aass <sup>1</sup>	1711965	-	7 2 6 1	274 828	-
Co-Chief Investment Officer Equities	Daniel Balthasar <sup>2</sup>	12 030 505	3 585 764	172 149	1203 051	-
Chief Technology and Operating Officer	Birgitte Bryne	3 964 247	-	16 555	437723	-
Co-Chief Investment Officer Equities	Pedro Furtado Reis²	12 030 505	3 475 348	168 777	1203 051	-
Deputy Chief Executive Officer & Chief of Staff	Trond Grande	5199029	-	9 156	409 556	-
Chief Real Assets Officer	Mie Caroline Holstad	3 380 174	-	12 341	346309	-
Chief Risk Officer	Dag Huse	4842036	-	9 156	668 627	-
Chief Governance and Compliance Officer	Carine Smith Ihenacho	5 800 948	-	155 701	580 095	-
Co-Chief Investment Officer Asset Strategies	Malin Norberg <sup>1,2</sup>	3135222	-	15 849	253 896	1162102
Co-Chief Investment Officer Asset Strategies	Geir Øivind Nygård	4732467	-	16 091	319 435	-
Chief of Communications and External Relations	Marthe Skaar <sup>1</sup>	1467748	-	15 077	262 270	-
Chief Executive Officer	Nicolai Tangen	7141 040	-	18 472	382 856	-

 $<sup>^{1} \;\; \</sup>text{Began in their positions on 1 April 2023. Remuneration shown from the date the appointment became effective.}$ 

Members of the leader group in Norges Bank Investment Management only receive a fixed salary. Some members of the leader group who previously had a performance-based salary no longer have this scheme, but will in the coming years be paid the withheld performance salary. The amounts stated in the table are performance salaries paid in the financial year, but earned and recognized in the income statement in previous periods.

Amounts in NOK					2022	
Position	Name	Gross salary	Gross performance pay	Value of other benefits	Pension benefits earned	Employee loan
Co-Chief Investment Officer Equities	Daniel Balthasar <sup>1,4</sup>	5 224 435	-	76 181	522 444	-
Chief Technology and Operating Officer	Birgitte Bryne	3700102	-	11 451	481639	-
Co-Chief Investment Officer Equities	Pedro Furtado Reis <sup>1,4</sup>	5 224 435	-	74 777	522 444	-
Deputy Chief Executive Officer & Chief of Staff	Trond Grande	4930080	-	9 610	447 975	-
Chief Real Assets Officer	Mie Caroline Holstad	3 204 829	-	13 720	375 668	-
Chief Risk Officer	Dag Huse	4 650 270	-	8 520	733 944	-
Chief Governance and Compliance Officer	Carine Smith Ihenacho	4863553	-	107773	486 355	-
Chief Real Assets Strategies Officer	Geir Øivind Nygård	4 545 620	-	11 527	348 028	-
Chief Executive Officer	Nicolai Tangen	6 872 066	-	11 012	411 431	-
Former senior executives						
Chief Technology Officer	Age Bakker <sup>2</sup>	937 500	-	2594	125 429	-
Chief Equities Officer	Petter Johnsen <sup>3</sup>	4 871 388	-	112 708	487139	-

<sup>&</sup>lt;sup>1</sup> Began in this position on 1 July 2022. Remuneration shown from the date the appointment became effective.

#### Loans to employees

The Bank's loan scheme for its employees comprises residential mortgages and consumer loans. Mortgages are provided in accordance with guidelines from the Supervisory Council within 80 percent of the lowest amount of the purchase price and documented market value, limited to NOK 3 867 000 and a maximum term of 30 years. Consumer loans are limited to a maximum of four times the employee's monthly salary, though not exceeding NOK 350 000. The loan schemes apply to all permanent employees in a minimum half-time position with an employment contract in Norway. The interest rate is linked to the norm rate for loans on favourable terms from an employer. The Ministry of Finance sets the norm rate six times a year. The norm rate as at December 2023 was 4.5 percent. Total loans to employees as at 31 December 2023 were NOK 405 million, compared with NOK 237 million as at 31 December 2022.

<sup>&</sup>lt;sup>2</sup> Resigned from this position on 1 April 2022. Remuneration shown up until the resignation became effective.

<sup>&</sup>lt;sup>3</sup> Resigned from this position on 1 July 2022. Remuneration shown up until the resignation became effective.

<sup>4</sup> Members of the leader group in Norges Bank Investment Management only receive a fixed salary. Some members of the leader group who previously had a performance-based salary no longer have this scheme, but will in the coming years be paid the withheld performance salary. The amounts stated in the table are performance salaries paid in the financial year, but earned and recognized in the income statement in previous periods.

## Note 16 Pension

#### **Accounting policy**

Accounting treatment of pension and other benefit obligations is in accordance with IAS 19 *Employee Benefits*. Calculations for fund-based plans through Norges Bank's pension fund are based on actuarial assumptions regarding life expectancy, expected wage growth and adjustment of the National Insurance basic amount (G), among others. The net benefit obligation is the difference between the present value of the benefit obligation and the fair value of plan assets.

Plan assets are measured at fair value. Benefit obligations and plan assets are measured on the balance sheet date. Employers' National Insurance contributions are included. Pension expense is calculated on the basis of a straight-line attribution of benefit over the period of service and consists of the current service cost, less the return on plan assets. Recognised pension expense is presented in its entirety under the line Personnel expenses. Changes in actuarial gains and losses are presented under the line Change in actuarial gains/-losses in total comprehensive income.

Norges Bank has funded and unfunded pension and other benefit obligations. All significant funded and unfunded plans are included in the Bank's actuarial settlement. Norges Bank has a pension plan where the benefits are in line with the Norwegian Public Service Pension Fund and other comparable public sector pension plans. Pension benefits are subject to a life expectancy adjustment and are coordinated with benefits from the National Insurance scheme.

Norges Bank's funded pension benefit obligations are covered by Norges Bank's own pension fund, which is organised as a separate legal entity. Service credit for retirement benefits is generally earned for each year the employee is working up until age 70. Employees contribute 2 percent of their gross annual salary into the pension fund. Norges Bank's contributions are covered by cash payments or the premium fund.

**Table 16.1** Number of pension plan members (funded plan)

	31.12.2023	31.12.2022
Members drawing retirement benefits	931	924
Active members (including all those affected by restructuring)	867	801
Members who have left the Bank with vested rights	1237	1180
Total number of pension plan members	3 035	2905

#### Norges Bank's benefit obligation

Norges Bank has funded pension plans associated with membership of Norges Bank's pension fund. In addition, the Bank has unfunded plans funded out of current income. These are special and allocated pensions, the unfunded portions of pensions for employees with salaries higher than 12 G earned after 1 January 2007, contractual early retirement pensions calculated on the basis of an expected 15 percent take-up rate and early retirement pension and redundancy pay agreements related to restructuring. The benefit obligation related to restructuring is the present value of all agreements, including agreements with disbursements in 2023 or later.

## Significant estimate

Measurement of the present value of Norges Bank's pension benefit obligation requires determination of a number of economic and demographic assumptions. Changes in these assumptions may affect the pension expense and the pension benefit obligation recognised in the balance sheet. Norges Bank follows Norwegian Accounting Standards Board (NASB) guidelines in determining the economic assumptions. The guideline assumptions are assessed against actual conditions at Norges Bank before a decision is made to apply them.

 Table 16.2
 Economic and demographic assumptions

	31.12.2023	31.12.2022
Discount rate	3.10%	3.00%
Interest rate on assets	3.10%	3.00%
Rate of compensation increase	3.50%	3.50%
Rate of pension increase	2.80%	2.60%
Increase in social security base amount (G)	3.25%	3.25%
Expected annual attrition	5% up to age 50, then 1%	2% up to age 50, then 0
Payroll tax/social security tax	14.10%	14.10%
Mortality table	K2013BE	K2013BE
Disability table	KU	KU

 Table 16.3
 Net liability recognised in the balance sheet

Amounts in NOK million	31.12.2023	31.12.2022
Change in defined benefit obligation (DBO) incl. payroll tax		
DBO at beginning of year	5700	5 697
Service cost	229	187
Interest cost	168	107
Payroll tax on employer contribution	-65	-27
Benefits paid	-158	-154
Remeasurement loss/-gain	300	-110
DBO at year-end	6174	5700
Change in plan assets		
Fair value of assets at beginning of year	5 531	5 991
Interestincome	157	107
Employer contribution incl. payroll tax	529	220
Payroll tax on employer contribution	-65	-27
Benefits paid	-149	-146
Remeasurement (loss) gain	265	-614
Fair value of assets at year-end	6 2 6 7	5 531
Pension scheme not recognised in the actuarial calculation	-	1
Net amount recognised in the balance sheet	-93	170

 Table 16.4
 Specification of funded and unfunded plans

	31.12.2023					
Amounts in NOK million	Funded plan	Unfunded plans	Total	Funded plan	Unfunded plans	Total
Accrued benefit obligations	5 944	230	6 174	5 474	227	5 701
Plan assets	-6 267	-	-6 267	-5 531	-	-5 531
Net benefit obligation/-net plan assets	-323	230	-93	-57	227	170

 Table 16.5
 Allocation of plan assets for funded plan

Amounts in NOK million	31.12.2023	31.12.2022
Bonds	2588	2 533
Equities	3 008	2 2 5 8
Real estate fund	671	740
Total	6 2 6 7	5 531

## Pension expense for employees in Norway

Pension expense includes current service cost, interest expense and expected return on plan assets.

The change in the unfunded plans is included in the overall pension expense.

Expenses relating to employees associated with NBIM are covered in their entirety by the management fee and amounted to NOK 113.8 million in 2023 and NOK 90.6 million in 2022.

Table 16.6Pension expense (incl. payroll tax)

Amounts in NOK million	2023	2022
Service cost incl. interest	229	187
Administration cost	7	5
Service cost and cost of benefit changes	236	192
Net interest cost/-income	5	-6
Net periodic pension cost	241	187
Other comprehensive income (OCI) in the period		
Remeasurement loss/-gain - change in discount rate	-115	-1125
Remeasurement loss/-gain - change in other economic assumptions	154	798
Remeasurement loss/-gain - change in other demographic assumptions	-14	-
Remeasurement loss/-gain - experience adjustments, DBO	275	216
Remeasurement loss/-gain - experience adjustments, assets	-306	574
Investment management cost	41	40
OCI losses/-gains in the period	35	504

### Sensitivity analysis

The sensitivity analysis has been prepared in the light of possible changes in the assumptions discount rate and wage growth, which are expected to have the most pronounced effect on the pension obligation. The other actuarial assumptions are kept unchanged in the sensitivity analysis.

**Table 16.7** Sensitivity analysis

				31.12.2023
	Discountrate	General compensation increase	ABO pensioners / DBO other <sup>1</sup>	Change (2)
Assumptions at 31 December 2023	3.50%	3.10%	6174	
Discount rate + 0.5 percentage point	3.60%	3.50%	5 624	-8.91%
Discount rate - 0.5 percentage point	2.60%	3.50%	6 813	10.35%
General compensation increase + 0.5 percentage point	4.00%	4.00%	6403	3.71%
General compensation increase - 0.5 percentage point	3.00%	3.00%	5968	-3.34%

<sup>&</sup>lt;sup>1</sup> Amounts in NOK million.

### Pension plans for locally employed staff of foreign offices

Locally employed staff at Norges Bank's offices in London, New York and Singapore have a defined-contribution pension plan in accordance with local provisions in addition to what has been established by the authorities. The plans are managed externally, within rules determined by Norges Bank.

Recognised expenses for the plans were NOK 51.5 million in 2023, compared with NOK 39.8 million in 2022, and are presented under the line *Other personnel expenses* in <u>table 15.1 Personnel expenses</u>.

<sup>&</sup>lt;sup>2</sup> Prosentvis endring i pensjonsforpliktelsen.

# **Note 17** Other operating expenses and other operating income

### Other operating expenses

**Table 17.1** Other operating expenses

Amounts in NOK million	2023	2022
Custody costs	509	498
IT services, systems, data and information	1139	948
Research, consulting and legal fees	356	339
Other costs	431	429
Total other operating expenses excl. external managers	2 435	2 215
Base fees to external managers	1205	963
Performance-based fees to external managers	1343	717
Total fees to external managers	2549	1680
Total other operating expenses	4984	3 895
Depreciation, amortisation and impairment losses	135	154
Personnel expenses	2853	2 3 5 0
Total operating expenses	7 971	6399
Of which costs for Norges Bank's primary tasks	1339	1173
Of which covered by mangement fee, GPFG	6 632	5 226

Norges Bank allocates costs to the primary tasks Monetary Policy, Financial Stability, Management of the foreign exchange reserves, Banknotes and coins, Settlement services for banks, Government debt management and The Treasury single account system. In addition, costs are allocated to the management of the Government Pension Fund Global.

See <u>note 20.12 Management costs</u> for specification and further information regarding costs covered by management fee, GPFG.

**Table 17.2** Fees, external auditor

	Norges Bai		S	Subsidiaries
Amounts in NOK thousands, inclusive VAT	2023	2022	2023	2022
Statutory audit	13 310	13 111	11 536	8 953
Other assurance services	1523	1286	306	-52
Taxadvice	1325	2153	-	-
Other services	-	-	-	-
Total fees, external auditor	16158	16 551	11 842	8 901

### Statutory audit

Statutory audit consists of audit fees of Central Banking Operations and the GPFG. Norges Bank's external auditor is Ernst & Young AS (EY). EY began as elected auditor for the audit of the financial year 2022.

Former external auditor Deloitte AS (Deloitte) resigned after the end of their engagement, at the end of the audit of the financial year 2021. In 2022, the fees for Norges Bank to EY and Deloitte were NOK 9.5 million and NOK 3.6 million, respectively.

Norges Bank has established subsidiaries which invest exclusively as part of Norges Bank's management of the investment portfolio of the GPFG. The subsidiaries have separate engagement agreements with their external auditors and are not bound by the agreement between Norges Bank and EY.

#### Other assurance services

The external auditor assists the Supervisory Council in several of their supervisory reviews. The fees for this work are agreed separately and are presented as *Other assurance services*.

### Tax advice

Services provided to Norges Bank in 2023 relate exclusively to services provided by EY. This is mainly related to services for NBIM

### Other operating income

### **Accounting policy**

Other operating income is recognised at the time a service is rendered. The transaction price is agreed annually and primarily contains fixed elements.

**Table 17.3** Other operating income

Amounts in NOK million	2023	2022
Services, banks	122	108
Services, government (see <u>note 19 Related parties</u> )	1	-
Rent (see <u>note 19 Related parties</u> )	31	33
Other income	7	7
Total other operating income	161	149

### Services for banks

Norges Bank performs settlement services for banks through Norges Bank's settlement system (NBO). To promote efficient and robust settlement of payments in Norges Bank, expenses for account maintenance and settlement services are covered by the annual fees for NBO. The assumption is that revenues will cover two-thirds of the overall cost of implementing and operating the settlement system. A third of expenses is attributable to central banking functions and covered by Norges Bank.

### Note 18 Non-financial assets

### **Accounting policy**

Non-current assets are recognised at cost, less accumulated straight-line depreciation over their expected useful life.

Gold comprises gold coins and gold bars that are part of the Bank's historical collections. The holdings were recognised at estimated cost in accordance with fair value on the date the gold was reclassified from international reserves to non-current assets. In the event the metallic value of gold rises, the holdings of gold are not revalued.

The collection of art and numismatic objects such as medals, banknotes and coins is recognised at estimated cost on the basis of the most recent appraisal.

### Impairment testing

An impairment test is performed if there is an indication that an asset is impaired. If the carrying amount exceeds fair value, the carrying amount will be reduced to fair value.

Table 18.1 Non-financial assets

Amounts in NOK million	31.12.2023	31.12.2022
Non-current assets	1492	1481
Gold	291	291
Art and numismatic collections	91	90
Other assets	204	185
Non-financial assets	2078	2 047

Table 18.2Non-current assets

						2023
	Intangible assets	Propert	y, plant and equ	ipment		
Amounts in NOK million	Software	Buildings	Land	Other	Plant under construction	Total
Cost at 1 Jan.	676	3 434	60	258	48	4 476
+ Additions for the year	7	99	-	12	26	144
- Disposals for the year	-10	-11	-	-102	-	-123
-/+ Adjustments for the year	-	-	-	-	-	-
Cost at 31 Dec.	673	3 522	60	168	74	4 497
- Accumulated depreciation and impairment at 1 Jan.	-629	-2129	-	-237	-	-2995
+ Disposals depreciation for the year	10	11	-	102	-	123
- Depreciation for the year	-23	-105	-	-7	-	-135
- Impairment for the year	-	-	-	-	-	-
Depreciation and impairment at 31 Dec.	-641	-2 223	-	-142	-	-3 007
Carrying amount at 31 Dec.	32	1299	60	26	74	1491
Depreciation schedule, no. of years	3-6	5–75	none	4–10	none	

						2022
Intangible assets		Property, plant and equipment				
Amounts in NOK million	Software	Buildings	Land	Other	Plant under construction	Total
Cost at 1 Jan.	677	3 333	60	261	38	4370
+ Additions for the year	9	100	-	9	10	128
- Disposals for the year	-10	-	-	-11	-	-21
-/+ Adjustments for the year	-	-	-	-	-	-
Cost at 31 Dec.	676	3 434	60	258	48	4 476
- Accumulated depreciation and impairment at 1 Jan.	-610	-2 014	-	-237	-	-2862
+ Disposals depreciation for the year	10	-	-	7	-	17
- Depreciation for the year	-29	-115	-	-8	-	-151
- Impairment for the year	-	-	-	-	-	-
Depreciation and impairment at 31 Dec.	-629	-2129	-	-237	-	-2 995
Carrying amount at 31 Dec.	47	1305	60	21	48	1481
Depreciation schedule, no. of years	3-6	5-75	none	4–10	none	

### Bankplassen 4

In 1986, Bankplassen 4 was transferred from Norges Bank to the government by the then Norwegian Directorate of Public Construction and Property, now Statsbygg. The transfer agreement pertains to ownership rights to the building and a ground lease, limited to the plot the building occupies. Norges Bank does not receive rent for the right of use. The term of the lease is 80 years, with the option of 10-year extensions. If the lease is not renewed, the building reverts to Norges Bank free of charge. The building is fully depreciated and its carrying amount at 31 December 2023 is NOK 0.

# Note 19 Related parties

### **Accounting policy**

Norges Bank is owned by the Norwegian government and under IAS 24 Related Party Disclosures is exempt from the disclosure requirements pertaining to related party transactions and outstanding balances, including commitments, with the Norwegian government. This includes transactions with other entities that are related parties because the Norwegian government has control of, joint control of, or significant influence over both Norges Bank and the other entities.

Norges Bank, including the GPFG, is a separate legal entity that is wholly owned by the government through the Ministry of Finance. See <a href="note1">note1 General information</a> for information regarding the relationship between the Ministry of Finance, Norges Bank and the GPFG. All transactions are carried out in its own name and on market terms.

For information regarding transactions with governing bodies and senior executives of Norges Bank, see <u>note 15</u> Personnel expenses.

### The management of the GPFG

Norges Bank is not exposed to financial risk from its management of the GPFG.

The Ministry of Finance has placed funds for asset management by the GPFG as a krone deposit in a special account with Norges Bank (the krone account). The krone deposit is subsequently placed with Norges Bank Investment Management for investment management.

### Inflow to/-withdrawal from the Ministry of Finance's krone account

Transfers are made to and from the krone account in accordance with the management mandate.

Inflow to/-withdrawal from the krone account are carried out by monthly transfers between the GPFG and Norges Bank. In 2023, net inflow amount to the krone account was NOK 711 billion, compared with net inflow amount of NOK 1090 billion in 2022.

Of the transferred amount, 5 percent is held back to the month after, in order to adjust the transferred currency amount to the amount in NOK instructed by the Ministry of Finance. Unsettled transfers between the GPFG and Norges Bank are presented in the balance sheet as a net balance between the two reporting entities, on the balance sheet line *Other financial liabilities*. Unsettled transfers were NOK 2 365 million at year-end 2023, compared with NOK 1 468 million at year-end 2022

### Management fee

### **Accounting policy**

The management fee for management of the GPFG accrues during the financial year and is presented in the income statement as *Management fee*, *GPFG*. Unsettled management fee at year-end is measured at amortised cost.

Norges Bank's total operating expenses related to the management of the GPFG are reimbursed by the Ministry of Finance as principal. The management fee corresponds to actual costs incurred by Norges Bank, excluding administration fees invoiced separately to Norges Bank's subsidiaries in Norway and including performance-based fees to external managers. The management fee was NOK 6 632 million in 2023 and NOK 5 226 million in 2022.

The management fee is withdrawn from the krone account during the year based on forecasts. The difference between the total amount withdrawn and the actual management fee for the year is presented either on the balance sheet line Other financial assets or Other financial liabilities and is settled the following year.

In 2023, Norges Bank received a payment of NOK 6.5 billion withdrawn from the krone account, compared with NOK 5.0 billion in 2022. At year-end 2023, Norges Bank's liability to the GPFG totalled NOK 168 million to the GPFG, compared with NOK 274 million at year-end 2022.

See note 20.12 Management costs for further information.

### Transactions between Norges Bank and the GPFG

Internal trades in the form of money market lending or borrowing between the GPFG and Norges Bank's equity portfolio are presented in the balance sheet as a net balance between the portfolios, either on the balance sheet line Other financial assets or Other financial liabilities. For Norges Bank, net balance between the portfolios amounted to a liability of NOK 59 million at year-end 2023, compared with NOK 302 million at year-end 2022.

Associated income and expense items are presented net in the income statement as *Other financial income/expense*. All transactions are carried out at market prices.

### Transactions between Norges Bank and wholly owned subsidiaries

As part of the management of the GPFG's investments in real estate and infrastructure for renewable energy, Norwegian subsidiaries have been established that are wholly owned by Norges Bank. For an overview of the companies that own and manage the investments, as well as consolidated subsidiaries, see <a href="note 20.16">note 20.16</a> Interests in other entities. For further information regarding transactions with subsidiaries, see <a href="note 20.6">note 20.6</a> Unlisted real estate and <a href="note 20.7">note 20.7</a> Unlisted renewable energy infrastructure.

### Other transactions with the government

Pursuant to section 3-7 of the Central Bank Act, Norges Bank provides services in connection with government borrowing and government debt management and the central government's group account. Under the new Central Bank Act in force from 1 January 2020, Norges Bank's costs related to these tasks are no longer covered by the Ministry of Finance.

Pursuant to point 5 of the Guidelines for provisions and allocations of Norges Bank's profit or loss, "In connection with the closing of the books each year, an amount equal to one third of the capital in the Transfer Fund shall be transferred to the Treasury." This transfer amounted to NOK 17.6 billion for 2023 and NOK 8.1 billion for 2022. On the basis of the prepared financial statements, the transfer takes place in the following year, but the amount due appears under the balance sheet item *Other liabilities* in the balance sheet at 31 December.

### Other related party transactions

Norges Bank has transactions with other government agencies and bodies. These transactions are primarily related to leasing of buildings and amounted to NOK 32 million in 2023 and NOK 34 million in 2022.

# Note 20 Government Pension Fund Global (GPFG)

## Income statement

Amounts in NOK million	Note	2023	2022
Profit/loss on the portfolio before foreign exchange gain/loss			
Income/expense from:			
- Equities	4	2 030 561	-1201835
- Bonds	4	231769	-453 128
- Unlisted real estate	6	-47 389	-2 213
- Unlisted infrastructure	7	-257	897
- Financial derivatives	4	15 752	23 926
- Secured lending	13	9 922	4845
- Secured borrowing	13	-13 278	-4792
Tax expense	10	-13 555	-4 850
Interest income/expense		49	-22
Other income/expense		4	-4
Profit/loss on the portfolio before foreign exchange gain/loss		2 213 577	-1 637 176
Foreign exchange gain/loss	11	409 441	641850
Profit/loss on the portfolio		2 623 018	-995 326
Management fee	12	-6 632	-5 226
Profit/loss and total comprehensive income		2 616 385	-1000551

# **Balance sheet**

Amounts in NOK million	Note	31.12.2023	31.12.2022
Assets			
Deposits in banks		8 584	12 061
Secured lending	13,14	728 559	462 982
Cash collateral posted	14	19 361	21601
Unsettled trades		33 812	11 428
Equities	5	10 577 325	8 138 602
Equities lent	5,13	493 949	451799
Bonds	5	3 563 613	2 9 6 8 2 7 2
Bondslent	5,13	1 0 0 6 7 1 1	886 555
Financial derivatives	5,14	19 192	20 498
Unlisted real estate	6	300 541	329732
Unlisted infrastructure	7	17 593	14 489
Withholding tax receivable	10	10 522	8 937
Other assets	17	2752	2 017
Management fee receivable		168	274
Total assets		16 782 681	13 329 248
Liabilities and owner's capital			
Secured borrowing	13,14	911 548	796 082
Cash collateral received	14	28754	14 801
Unsettled trades		44 247	44 329
Financial derivatives	5,14	33 055	40 159
Deferredtax	10	8 246	4488
Other liabilities	17	112	56
Total liabilities		1025 962	899 915
Owner's capital		15 756 719	12 429 334
Total liabilities and owner's capital		16 782 681	13 329 248

### Statement of cash flows

### **Accounting policy**

The statement of cash flows is prepared in accordance with the direct method. Major classes of gross cash receipts and payments are presented separately, with the exception of specific transactions that are presented on a net basis, primarily relating to the purchase and sale of financial instruments. Cash flows related to the fund's investment activities are presented as operating activities, since they represent the income-generating activities of the fund. Inflows and withdrawals between the GPFG and the Norwegian government are financing activities. These transfers have been settled in the period. Accrued inflows/withdrawals are shown in the statement of changes in owner's capital.

Amounts in NOK million, receipt (+) / payment (-)	2023	2022
Operating activities		
Receipts of dividend from equities	234173	190 235
Receipts of interest from bonds	90 644	55724
Receipts of interest and dividend from unlisted real estate 6	6 861	6156
Receipts of interest and dividend from unlisted infrastructure 7	752	162
Net receipts of interest and fee from secured lending and borrowing	-3730	1521
Receipts of dividend, interest and fee from holdings of equities, bonds, unlisted real estate and unlisted infrastructure	328 700	253 797
Net cash flow from purchase and sale of equities	-436 867	-719 766
Net cash flow from purchase and sale of bonds	-412160	-702 877
Net cash flow to/from investments in unlisted real estate 6	-6742	-3 930
Net cash flow to/from investments in unlisted infrastructure 7	-3 256	1143
Net cash flow financial derivatives	2 219	52 485
Net cash flow cash collateral related to derivative transactions	16 030	-16 013
Net cash flow secured lending and borrowing	-184 578	52 860
Net payment of taxes 10	-11 173	-11 058
Net cash flow related to interest on deposits in banks and bank overdraft	428	30
Net cash flow related to other income/expense, other assets and other liabilities	947	478
Management fee paid to Norges Bank <sup>1</sup>	-6 526	-4964
Net cash inflow/outflow from operating activities	-712 977	-1 097 816
Financing activities		
Inflow from the Norwegian government	710 104	1 0 8 9 7 1 2
Withdrawal by the Norwegian government	-	-
Net cash inflow/outflow from financing activities	710 104	1089712
Net change deposits in banks		
Deposits in banks at 1 January	12 061	18 450
Net increase/decrease of cash in the period	-2 873	-8104
Net foreign exchange gain/loss on cash	-604	1715
Deposits in banks at end of period	8 584	12 061

<sup>1</sup> Management fee in the statement of cash flows consists of transfers to/from the krone account in connection with the settlement of management costs incurred in Norges Bank.

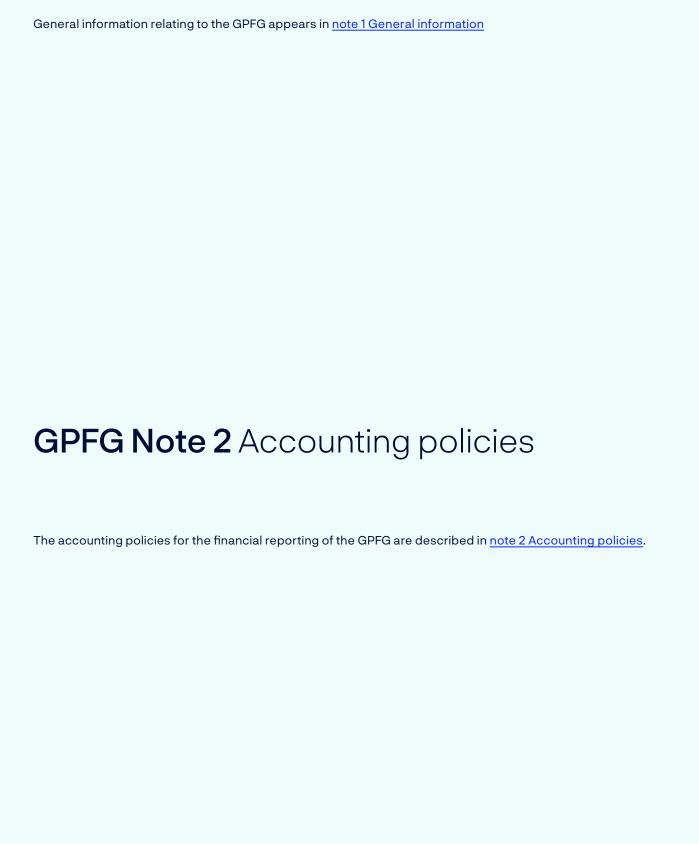
# Statement of changes in owner's capital

### **Accounting policy**

Owner's capital for the GPFG comprises contributed capital in the form of accumulated net inflows from the Norwegian government and retained earnings in the form of total comprehensive income. Owner's capital corresponds to the Ministry of Finance's krone account in Norges Bank.

Amounts in NOK million	Inflows from owner	Retained earnings	Total owner's capital
1 January 2022	2 967 570	9 372 515	12 340 085
Profit/loss and total comprehensive income	-	-1 000 551	-1000551
Inflow during the period	1089800	-	1089800
Withdrawal during the period	-	-	-
31 December 2022	4 057 370	8 371 964	12 429 334
1 January 2023	4 057 370	8 371 964	12 429 334
Profit/loss and total comprehensive income	-	2 616 385	2 616 385
Inflow during the period	711 000	-	711 000
Withdrawal during the period	-	-	-
31 December 2023	4768370	10 988 349	15 756 719

## **GPFG Note 1** General information



### **GPFG Note 3** Returns

Table 3.1 shows return for the fund and for each asset class.

Table 3.1 Returns

	2023	2022
Returns measured in the fund's currency basket (percent)		
Return on equity investments	21.25	-15.36
Return on fixed-income investments	6.13	-12.11
Return on unlisted real estate investments	-12.37	0.07
Return on unlisted infrastructure investments	3.68	5.12
Return on fund	16.14	-14.11
Relative return on fund (percentage points)	-0.18	0.87
Returns measured in Norwegian kroner (percent)		
Return on equity investments	26.26	-9.27
Return on fixed-income investments	10.51	-5.78
Return on unlisted real estate investments	-8.75	7.27
Return on unlisted infrastructure investments	7.96	12.69
Return on fund	20.93	-7.93

A time-weighted rate of return methodology is applied. The fair value of holdings is determined at the time of cash flows into and out of the asset classes and the fund as a whole. Geometric linking of periodic returns is used for longer return periods.

Returns are calculated net of transaction costs, non-reclaimable withholding taxes on dividends and interest, and taxes on realised capital gains.

Returns are measured both in Norwegian kroner and in the fund's currency basket. The currency basket is weighted according to the currency composition of the benchmark index for equities and bonds. Returns measured in the fund's currency basket are calculated as the geometric difference between the fund's returns measured in Norwegian kroner and the return of the currency basket.

The fund's relative return is calculated as the arithmetic difference between the fund's return and the return of the fund's benchmark index. The fund's benchmark index consists of global equity and bond indices determined by the Ministry of Finance and is calculated by weighting the monthly returns of the benchmark indices for each of the two asset classes, using the weight in the actual benchmark at the beginning of the month for the respective asset class.

# **GPFG Note 4** Income/expense from equities, bonds and financial derivatives

### **Accounting policy**

Investments in equities, bonds and financial derivatives are measured at fair value through profit and loss. See <u>note 2</u>
<u>Accounting policies</u> for further information.

Tables 4.1 to 4.3 specify the change in fair value in the period, where the line Income/expense shows the amount recognised in profit or loss for the relevant income statement line. The following principles for presentation apply for the respective income and expenses presented in the tables:

Dividend income is recognised on the ex-dividend date, which is when the right to receive the dividend is established.

Interest income is recognised when the interest is accrued. Interest expense is recognised as incurred. The measurement of interest income and expense is based on contractual terms.

Realised gain/loss mainly represents amounts realised when assets or liabilities are derecognised. Average acquisition cost is assigned upon derecognition. Realised gain/loss includes transaction costs, which are expensed as incurred. Transaction costs are defined as all costs directly attributable to the completed transaction. For investments in equities and bonds, these normally comprise commission fees and stamp duty.

Unrealised gain/loss represents changes in fair value for the related balance sheet item during the period, that are not attributable to the aforementioned categories.

**Table 4.1** Specification Income/expense from equities

Amounts in NOK million	2023	2022
Dividends	240 842	197 631
Realised gain/loss	236 321	191774
Unrealised gain/loss	1553398	-1591241
Income/expense from equities before foreign exchange gain/loss	2 030 561	-1201835

 Table 4.2
 Specification Income/expense from bonds

Amounts in NOK million	2023	2022
Interest	109 431	66 093
Realised gain/loss	-101 065	-130 749
Unrealised gain/loss	223 402	-388 472
Income/expense from bonds before foreign exchange gain/loss	231769	-453128

 Table 4.3
 Specification Income/expense from financial derivatives

Amounts in NOK million	2023	2022
Interest	4185	7 4 4 9
Realised gain/loss	13 404	12 616
Unrealised gain/loss	-1837	3 862
Income/expense from financial derivatives before foreign exchange gain/loss	15 752	23 926

# **GPFG Note 5** Holdings of equities, bonds and financial derivatives

### **Accounting policy**

Investments in equities and bonds are measured at fair value through profit or loss. Earned dividends and interest are presented in the balance sheet on the same line as the underlying financial instruments. The balance sheet line Equities includes investments in depository certificates (GDR/ADR) and units in listed funds, such as REITs. Lent equities and bonds are presented separately. For more information on lent securities, see <a href="note13">note 13</a> Secured lending and borrowing.

Financial derivatives are measured at fair value through profit or loss. Exchange-traded futures and associated variation margin are presented net in the balance sheet, since there is a legally enforceable right to offset and the intention is to settle on a net basis or to realise the asset and settle the liability simultaneously. Norges Bank does not engage in hedge accounting, therefore no financial instruments are designated as hedging instruments.

For further information on fair value measurement, see <u>note 8 Fair value measurement</u>. Changes in fair value are recognised in the income statement and specified in <u>note 4 Income/expense from equities</u>, <u>bonds and financial derivatives</u>.

Table 5.1 specifies the sector composition of investments in equities.

Table 5.1 Equities

	31.12.2023	31.12.2022
Amounts in NOK million	Fair value incl. earned dividends	Fair value incl. earned dividends
Technology	2 465 516	1 517 241
Financials	1655254	1370 888
Consumer discretionary	1562 073	1151176
Industrials	1447684	1141525
Health care	1230 877	1104937
Consumer staples	618 337	569 295
Real estate	608 689	478 101
Basic materials	441742	381322
Energy	413 062	378 240
Telecommunications	367904	265 277
Utilities	260 137	232 400
Total equities	11 071 274	8 590 402
Of which presented in the balance sheet line Equities	10 577 325	8 138 602
Of which presented in the balance sheet line Equities lent	493 949	451799

At the end of 2023, earned dividends amounted to NOK 12 580 million (NOK 10 306 million in 2022).

Table 5.2 specifies investments in bonds per category. Notional value represents the amount that shall be returned at maturity, also referred to as the par value of the bond.

Table 5.2 Bonds

	31.12.2	023	31.12.2022	
Amounts in NOK million	Notional value	Fair value incl. earned interest	Notional value	Fair value incl. earned interest
Government bonds				
Government bonds issued in the government's local currency	2742815	2 594 816	2366163	2165605
Total government bonds	2 742 815	2 594 816	2 366 163	2165605
Government-related bonds				
Sovereign bonds	11 311	10 632	11 053	9 4 6 0
Bonds issued by local authorities	154 963	142 393	149 232	132 412
Bonds issued by supranational bodies	101 177	98 290	104 967	90 526
Bonds issued by federal agencies	166 493	155 662	162 295	149 450
Total government-related bonds	433 944	406 977	427 547	381848
Inflation-linked bonds				
Inflation-linked bonds issued by government authorities	232 929	283 137	250 560	243 441
Total inflation-linked bonds	232 929	283137	250 560	243 441
Corporate bonds				
Convertible bonds	57	73	-	-
Bonds issued by utilities	100 984	95 387	83 977	74 812
Bonds issued by financial institutions	466 844	446 681	427 297	382 224
Bonds issued by industrial companies	487 613	460 147	419 297	372 278
Total corporate bonds	1055 498	1002288	930 570	829 314
Securitised bonds				
Covered bonds	307782	283106	269 778	234 618
Total securitised bonds	307782	283106	269 778	234 618
Total bonds	4772968	4 570 324	4 244 619	3 854 827
Of which presented in the balance sheet line Bonds		3 563 613		2 9 6 8 2 7 2
Of which presented in the balance sheet line Bonds lent		1006711		886 555

At the end of 2023, earned interest amounted to NOK 34 537 million (NOK 22 218 million in 2022).

### Financial derivatives

Financial derivatives are used to adjust the exposure in various portfolios as a cost-efficient alternative to trading in the underlying securities. Foreign exchange derivatives are also used in connection with liquidity management. Equity derivatives with an option component are often a result of corporate actions, and can be converted into equities or sold. The GPFG also uses equity swaps in combination with purchase and sale of equities.

Table 5.3 specifies financial derivatives recognised in the balance sheet. Notional amounts are the basis for calculating any cash flows and gains/losses for derivative contracts. This provides information on the extent to which different types of financial derivatives are used.

Table 5.3 Financial derivatives

		31.12.2023			31.12.2022	
		Fair val	ue		Fair val	ue
Amounts in NOK million	Notional amount	Asset	Liability	Notional amount	Asset	Liability
Foreign exchange derivatives	976 868	6388	18 148	1 028 213	6 955	28 135
Interest rate derivatives	464 466	11 920	12 323	390 528	13 049	11 615
Credit derivatives	52 311	706	2556	53 290	-	375
Equity derivatives <sup>1</sup>	-	69	-	-	274	-
Exchange-traded futures contracts <sup>2</sup>	95 742	110	29	91638	221	34
Total financial derivatives	1589387	19 192	33 055	1563 669	20 498	40 159

 $<sup>^{1}</sup>$  Notional amounts are not considered relevant for equity derivatives and are therefore not included in the table.

### Foreign exchange derivatives

This consists of foreign exchange forward contracts, which are agreements to buy or sell a specified quantity of foreign currency on an agreed future date.

### Interest rate derivatives

This consists of agreements between two parties to exchange interest payment streams based on different interest rate calculation methods. Interest rate derivatives recognised in the balance sheet are mainly interest rate swaps, where one party pays a floating rate of interest and the other pays a fixed rate.

### **Credit derivatives**

This comprises credit default swaps indices (CDS indices) for corporate bonds, where one party (the seller) assumes the credit risk and the other party (the buyer) reduces the credit risk on the underlying index of corporate bonds. Under a CDS index contract, the seller receives a periodic coupon from the buyer as compensation for assuming the credit risk. The buyer only receives payment if the credit protection is triggered by for instance default on the underlying credit in the index (credit event).

### **Equity derivatives**

Equity derivatives are derivatives with exposure to an underlying equity. Equity derivatives recognised in the balance sheet include instruments with an option component, such as rights and warrants. These instruments grant the owner the right to purchase an equity at an agreed price within a certain time frame.

### **Futures contracts**

Futures contracts are listed contracts to buy or sell a specified asset (security, index, interest rate, power or similar assets) at an agreed price at a future point in time.

### Equity swaps in combination with purchase or sale of equities

Equity swaps are entered into in combination with purchases or sales of equities, as part of the fund's secured lending and borrowing activities. See <a href="note13">note 13</a> Secured lending and borrowing for further information. The GPFG does not take market risk in these transactions and therefore has virtually no net exposure. The equity swaps (derivative) are not recognised in the balance sheet. At the end of 2023, equities purchased in combination with offsetting equity swaps amounted to NOK 250 billion (NOK 104 billion at the end of 2022). Equity sales in combination with offsetting equity swaps amounted to NOK 132 billion (NOK 105 billion at the end of 2022). See also table 14.1 in <a href="note14">note 14</a> Collateral and offsetting.

Exchange-traded futures contracts have daily margin payments and the net amount recognised in the balance sheet is normally zero at the balance sheet date, with the exception of futures contracts in certain markets where there is different timing for setting the market value for recognition in the balance sheet and daily margining.

## GPFG Note 6 Unlisted real estate

### **Accounting policy**

Investments in unlisted real estate are made through subsidiaries of Norges Bank, exclusively established as part of the management of the GPFG. Subsidiaries presented as Unlisted real estate in the balance sheet are measured at fair value through profit or loss. See <u>note 2 Accounting policies</u> for further information.

The fair value of unlisted real estate is equivalent to the sum of the GPFG's share of assets and liabilities in the underlying real estate subsidiaries, measured at fair value. For further information, see <a href="note8">note 8</a> Fair value measurement.

Changes in fair value are recognised in the income statement and presented as Income/expense from unlisted real estate.

The following principles for presentation apply for the respective income and expense elements presented in table 6.1:

Interest is recognised when it is earned.

Dividends are recognised when the dividend is formally approved by the general meeting or equivalent decision-making body, or is paid out in accordance with the company's articles of association.

 Table 6.1
 Income/expense from unlisted real estate

Amounts in NOK million	2023	2022
Receipts of interest and dividend	6 8 6 1	6156
Unrealised gain/loss <sup>1</sup>	-54 251	-8369
Income/expense from unlisted real estate before foreign exchange gain/loss	-47 389	-2 213

Earned interest and dividends which are not cash-settled are included in Unrealised gain/loss.

**Table 6.2** Changes in carrying amounts unlisted real estate

Amounts in NOK million	31.12.2023	31.12.2022
Unlisted real estate at 1 January	329732	310 134
Net cash flow to/from investments	6742	3 930
Unrealised gain/loss	-54 251	-8 369
Foreign exchange gain/loss	18 318	24 036
Unlisted real estate, closing balance for the period	300 541	329732

### Cash flows between the GPFG and subsidiaries presented as Unlisted real estate

The GPFG makes cash contributions to subsidiaries in the form of equity and long-term loan financing, to fund investments in real estate assets, primarily properties. Net income in the underlying real estate companies can be distributed back to the GPFG in the form of interest and dividend as well as repayment of equity and loan financing. There are no significant restrictions on the distribution of interest and dividend from subsidiaries to the GPFG.

Net income distributed back to the GPFG in the form of interest and dividend is presented in the statement of cash flows as Receipts of interest and dividend from unlisted real estate. Cash flows in the form of equity and loan financing, as well as repayment of these, are presented in the statement of cash flows as Net cash flows to/from investments in unlisted real estate.

Net income that is not distributed back to the GPFG is reinvested in the underlying real estate companies, to finance for instance property development and repayment of external debt.

A net cash flow from the GPFG to subsidiaries will result in an increase in the value of Unlisted real estate in the balance sheet, while a net cash flow from subsidiaries to the GPFG will result in a decrease.

Tables 6.3 specifies cash flows between the GPFG and subsidiaries presented as Unlisted real estate.

**Table 6.3** Cash flow unlisted real estate

Amounts in NOK million	2023	2022
Receipts of interest from ongoing operations	2 0 4 2	1568
Receipts of dividends from ongoing operations	4709	4200
Receipts of interest from sales	110	219
Receipts of dividends from sales	-	168
Receipts of interest and dividend from unlisted real estate	6 861	6 156
Payments for new investments	-7 007	-7 074
Payments for property development	-1778	-1186
Net payments external debt	-104	72
Receipts from ongoing operations	1533	1694
Receipts from sales	615	2564
Net cash flow to/from investments in unlisted real estate	-6742	-3 930
Net cash flow unlisted real estate	119	2 2 2 2 5
Of which cash flow from ongoing operations	8 2 8 4	7 463
Of which cash flow to/from other activities	-8164	-5 237

### Underlying real estate companies

Real estate subsidiaries have investments in other non-consolidated, unlisted companies. For further information, see note 16 Interests in other entities.

### Principles for presentation

The following principles apply for the respective income and expense elements in the subsidiaries presented in table 6.4.

Rental income is recognised on a straight-line basis over the lease term. Net rental income mainly comprises accrued rental income, less costs relating to the operation and maintenance of properties.

Asset management fees are directly related to the underlying properties and are primarily linked to the operation and development of properties and leases. Fixed fees are expensed as incurred. Variable fees to external asset managers are based on achieved performance over time. The provision for variable fees is based on the best estimate of the incurred fees to be paid. The change in best estimate in the period is recognised in profit or loss.

Transaction costs and fees from purchases and sales of properties are incurred as one-off costs and expensed as incurred.

Table 6.4 specifies the GPFG's share of net income generated in the underlying real estate companies, which is the basis for Income/expense from unlisted real estate presented in table 6.1.

 Table 6.4
 Income from underlying real estate companies

Amounts in NOK million	2023	2022
Net rental income	13 852	12 807
External asset management - fixed fees	-1044	-1071
External asset management - variable fees	-23	-33
Internal asset management - fixed fees <sup>1</sup>	-123	-99
Operating costs in wholly-owned subsidiaries <sup>2</sup>	-82	-65
Operating costs in joint ventures	-171	-166
Interest expense external debt	-776	-644
Tax expense	-210	-303
Net income from ongoing operations	11 424	10 427
Realised gain/loss	46	769
Unrealised gain/loss <sup>3</sup>	-58 630	-13 085
Realised and unrealised gain/loss	-58 584	-12 316
Transaction costs and fees from purchases and sales	-229	-324
Net income underlying real estate companies	-47 389	-2 213

 $<sup>^{1} \</sup>quad \text{Internal asset management is carried out on 100 percent owned properties by employees in a wholly-owned, consolidated subsidiary.}$ 

Table 6.5 specifies the GPFG's share of assets and liabilities in the underlying real estate companies, which comprises the closing balance for Unlisted real estate as presented in table 6.2.

 Table 6.5
 Assets and liabilities underlying real estate companies

Amounts in NOK million	31.12.2023	31.12.2022
Properties	327165	356 518
External debt	-25 564	-24 751
Net other assets and liabilities <sup>1</sup>	-1060	-2036
Total assets and liabilities underlying real estate companies	300 541	329732

Net other assets and liabilities comprise cash, tax and operational receivables and liabilities.

 $<sup>^{2} \</sup>quad \text{Operating costs in wholly-owned subsidiaries are measured against the upper limit from the Ministry of Finance, see \underline{\text{note } 12} \text{ for more information.} \\$ 

<sup>&</sup>lt;sup>3</sup> Unrealised gain/loss presented in table 6.1 includes net income in the underlying real estate companies which is not distributed back to the GPFG, and will therefore not correspond to Unrealised gains/loss presented in table 6.4.

# **GPFG Note 7** Unlisted renewable energy infrastructure

### **Accounting policy**

Investments in unlisted renewable energy infrastructure (Unlisted infrastructure) are made through subsidiaries of Norges Bank, exclusively established as part of the management of the GPFG. Subsidiaries presented as Unlisted infrastructure in the balance sheet are measured at fair value through profit or loss. See <a href="note 2 Accounting policies">note 2 Accounting policies</a> for further information.

The fair value of unlisted infrastructure is equivalent to the sum of the GPFG's share of assets and liabilities in the underlying infrastructure subsidiaries, measured at fair value. For further information, see <a href="mailto:note">note 8 Fair value</a> measurement.

Changes in fair value are recognised in the income statement and presented as Income/expense from unlisted infrastructure.

The following principles for presentation apply for the respective income and expense elements presented in table 7.1:

Interest is recognised when it is earned.

Dividends are recognised when the dividend is formally approved by the general meeting or equivalent decision-making body, or is paid out in accordance with the company's articles of association.

 Table 7.1
 Income/expense from unlisted infrastructure

Amounts in NOK million	2023	2022
Receipts of interest and dividend	752	162
Unrealised gain/loss <sup>1</sup>	-1 010	735
Income/expense from unlisted infrastructure before foreign exchange gain/loss	-257	897

<sup>&</sup>lt;sup>1</sup> Earned interest and dividends which are not cash-settled are included in Unrealised gain/loss.

**Table 7.2** Changes in carrying amounts unlisted infrastructure

Amounts in NOK million	31.12.2023	31.12.2022
Unlisted infrastructure at 1 January	14 489	14 287
Net cash flow to/from investments	3 2 5 6	-1143
Unrealised gain/loss	-1010	735
Foreign exchange gain/loss	859	609
Unlisted infrastructure, closing balance for the period	17 593	14 489

### Cash flows between the GPFG and subsidiaries presented as Unlisted infrastructure

The GPFG makes cash contributions to subsidiaries in the form of equity and long-term loan financing, to fund investments in renewable energy infrastructure. Net income in the underlying infrastructure companies can be distributed back to the GPFG in the form of interest and dividend as well as repayment of equity and loan financing. There are no significant restrictions on the distribution of interest and dividend from subsidiaries to the GPFG.

Net income which is distributed back to the GPFG in the form of interest and dividend is presented in the statement of cash flows as Receipts of interest and dividend from unlisted infrastructure. Cash flows in the form of equity and loan financing, as well as repayment of these, are presented in the statement of cash flows as Net cash flows to/from investments in unlisted infrastructure.

A net cash flow from the GPFG to subsidiaries will result in an increase in the value of Unlisted infrastructure in the balance sheet, while a net cash flow from subsidiaries to the GPFG will result in a decrease.

Table 7.3 specifies cash flows between the GPFG and subsidiaries presented as Unlisted infrastructure.

**Table 7.3** Cash flow unlisted infrastructure

Amounts in NOK million	2023	2022
Receipts of interest from ongoing operations	397	162
Receipts of dividends from ongoing operations	355	-
Receipts of interest and dividend from unlisted infrastructure	752	162
Payments for new investments	-2939	-
Payments for development of infrastructure assets	-1 071	-
Receipts from ongoing operations	755	1143
Net cash flow to/from investments in unlisted infrastructure	-3 256	1143
Net cash flow unlisted infrastructure	-2504	1305
Of which cash flow from ongoing operations	1507	1305
Of which cash flow to/from other activities	-4 010	-

### Underlying infrastructure companies

Infrastructure subsidiaries have investments in other non-consolidated, unlisted companies. For further information, see note 16 Interests in other entities.

### Principles for presentation

The following principles apply for the respective income and expense elements in the subsidiaries presented in table 7.4:

Income from the sale of renewable energy is recognised at the time of delivery. Net income from the sale of renewable energy mainly comprises accrued income less costs relating to the operation and maintenance of infrastructure assets.

Transaction costs and fees from purchases and sales of infrastructure for renewable energy are incurred as one-off costs and expensed as incurred.

Table 7.4 specifies the GPFG's share of net income generated in the underlying infrastructure companies, which is the basis for Income/expense from unlisted infrastructure presented in table 7.1.

 Table 7.4
 Income from underlying infrastructure companies

Amounts in NOK million	2023	2022
Net income from sale of renewable energy	1356	2 175
Operating costs in wholly-owned subsidiaries <sup>1</sup>	-8	-6
Operating costs in joint ventures	-32	-16
Tax expense	-70	-353
Interest income/expense	26	-
Net income from ongoing operations	1273	1799
Unrealised gain/loss <sup>2</sup>	-1468	-898
Transaction costs and fees from purchases	-62	-4
Net income underlying infrastructure companies	-257	897

<sup>1</sup> Operating costs in wholly-owned subsidiaries are measured against the upper limit from the Ministry of Finance, see note 12 for more information.

Table 7.5 specifies the GPFG's share of assets and liabilities in the underlying infrastructure companies, which comprises the closing balance for Unlisted infrastructure as presented in table 7.2.

 Table 7.5
 Assets and liabilities underlying infrastructure companies

Amounts in NOK million	31.12.2023	31.12.2022
Infrastructure assets	15 936	13 983
Net other assets and liabilities <sup>1</sup>	1657	506
Total assets and liabilities underlying infrastructure companies	17 593	14 489

<sup>&</sup>lt;sup>1</sup> Net other assets and liabilities comprise cash, tax and operational receivables and liabilities.

<sup>&</sup>lt;sup>2</sup> Unrealised gain/loss presented in table 7.1 includes net income in the underlying infrastructure companies which is not distributed back to the GPFG, and will therefore not correspond to Unrealised gains/loss presented in table 7.4.

### **GPFG Note 8** Fair value measurement

### **Accounting policy**

All assets and liabilities presented as Equities, Bonds, Unlisted real estate, Unlisted infrastructure, Financial derivatives, Secured lending and borrowing, Deposits in banks and Cash collateral posted and received are measured at fair value through profit or loss.

Fair value, as defined by IFRS 13 Fair value measurement, is the price that would be received to sell an asset or paid to transfer a liability in an orderly transaction between market participants at the measurement date.

#### 1. Introduction

Fair value for the majority of assets and liabilities is based on quoted market prices or observable market inputs. If the market is not active, fair value is established using standard valuation techniques. Estimating fair value can be complex and requires the use of judgement, particularly when observable inputs are not available. This valuation risk is addressed by the control environment in Norges Bank Investment Management, which is described in section 6 of this note.

### 2. The fair value hierarchy

All assets and liabilities that are part of the investment portfolio are classified in the three categories in the fair value hierarchy presented in table 8.1. The classification is determined by the observability of the market inputs used in the fair value measurement:

- Level 1 comprises assets that are valued based on unadjusted quoted prices in active markets. An active market is defined as a market in which transactions take place with sufficient frequency and volume to provide pricing information on an ongoing basis.
- Assets and liabilities classified as Level 2 are valued using models with market inputs that are either directly or indirectly observable. Inputs are considered observable when they are developed based on market data reflecting actual events and transactions.
- Assets classified as Level 3 are valued using models with significant use of unobservable inputs. Inputs are considered to be unobservable when market data is not available, and the input is developed using the best available information on the assumptions that market participants would use when pricing the asset.

An overview of models and valuation techniques with their respective observable and unobservable inputs, categorised by type of instrument, is provided in section 4 of this note.

### Significant estimates

Classification in the fair value hierarchy is based on set criteria, some of which may require the use of judgement.

Level 3 investments consist of instruments measured at fair value that are not traded or quoted in active markets. Fair value is determined using valuation techniques that use models with significant use of unobservable inputs. A considerable degree of judgement is applied in determining the assumptions that market participants would use when pricing the asset or liability, when observable market data is not available.

**Table 8.1** Categorisation of the investment portfolio by level in the fair value hierarchy

	Lev	el1	Leve	el 2	Leve	el3	Tot	:al
Amounts in NOK million	31.12.2023	31.12.2022	31.12.2023	31.12.2022	31.12.2023	31.12.2022	31.12.2023	31.12.2022
Equities	11 033 488	8 556 594	36 286	30 602	1500	3 2 0 6	11 071 274	8 590 402
Government bonds	2165249	1929618	429 567	235 987	-	-	2 594 816	2165605
Government-related bonds	340 242	303108	65 926	78 406	809	334	406 977	381848
Inflation-linked bonds	220 652	204 037	62 485	39 404	-	-	283 137	243 441
Corporate bonds	942 658	740 645	59 628	88 663	2	6	1002288	829 314
Securitised bonds	256 012	202781	26 989	31837	105	-	283106	234 618
Total bonds	3 924 813	3 380 189	644 595	474 297	916	340	4 570 324	3 854 827
Financial derivatives (assets)	282	429	18 906	20 024	4	45	19 192	20 498
Financial derivatives (liabilities)	-1633	-409	-31 422	-39 750	-	-	-33 055	-40159
Total financial derivatives	-1351	20	-12 516	-19726	4	45	-13 863	-19 661
Unlisted real estate	-	-	-	-	300 541	329 732	300 541	329732
Unlisted infrastructure	-	-	-	-	17 593	14 489	17 593	14 489
Other (assets) <sup>1</sup>	-	-	803 590	519 026	-	-	803 590	519 026
Other (liabilities) <sup>2</sup>	-	-	-984 661	-859 756	-	-	-984 661	-859756
Market value investment portfolio <sup>3</sup>	14 956 950	11936803	487 294	144 443	320 554	347 812	15 764 797	12 429 059
Total (percent)	94.9	96.0	3.1	1.2	2.0	2.8	100.0	100.0

Other (assets) consists of the balance sheet lines Deposits in banks, Secured lending, Cash collateral posted, Unsettled trades (assets), Withholding tax receivable and Other assets.

The majority of the total portfolio is priced based on observable market prices. At the end of 2023, 98.0 percent of the portfolio was classified as Level 1 or 2, which is a marginal increase compared to year-end 2022. Movements between levels in the fair value hierarchy are described in section 3 of this note.

### **Equities**

Measured as a share of total value, virtually all equities (99.66 percent) were valued based on official closing prices from stock exchanges at the end of 2023 and classified as Level 1. A small share of equities (0.33 percent) were classified as Level 2 at year-end. These are mainly equities for which trading has recently been suspended, or illiquid securities that are not traded daily. The share of equities valued with significant use of unobservable inputs and classified as Level 3 at year-end was 0.01 percent. These are equities that are not listed, or where trading has been suspended and an adjustment has been applied to the last traded price based on company- or country-specific factors.

### Bonds

The majority of bonds have observable, executable market quotes in active markets and 85.88 percent of bond holdings were classified as Level 1 at the end of 2023. Bond holdings that do not have a sufficient number of observable quotes or that are priced based on comparable liquid bonds are classified as Level 2. These amounted to 14.10 percent of bond holdings at year-end. An insignificant share of bond holdings (0.02 percent) that did not have observable quotes were classified as Level 3 at year-end, since the valuation was based on significant use of unobservable inputs.

### Unlisted real estate and unlisted renewable energy infrastructure

All investments in unlisted real estate and unlisted renewable energy infrastructure are classified as Level 3, since models are used to value the underlying assets and liabilities with extensive use of unobservable market inputs. Properties and investments in unlisted infrastructure are measured at the value determined by external valuers. Exceptions to this policy are newly acquired properties where the purchase price, excluding transaction costs, is normally considered to be the

Other (liabilities) consists of the balance sheet lines Secured borrowing, Cash collateral received, Unsettled trades (liabilities) and Other liabilities.

<sup>&</sup>lt;sup>3</sup> Deferred tax is not included as part of the investment portfolio from 2023.

best estimate of fair value, or where there are indications that the value determined by external valuers does not reflect fair value and adjustments are therefore warranted.

#### Financial derivatives

Some equity derivatives (rights and warrants) and credit derivatives (CDS indices) that are actively traded are classified as Level 1. The majority of derivatives are classified as Level 2, since the valuation of these is based on standard models using observable market inputs. Certain derivatives are valued based on models with significant use of unobservable inputs and are classified as Level 3.

Other assets and liabilities that are part of the investment portfolio are classified as Level 2.

### 3. Movements between the levels in the fair value hierarchy

### **Accounting policy**

Transfers between levels in the fair value hierarchy are deemed to have occurred at the beginning of the reporting period.

### Reclassifications between Level 1 and Level 2

The share of equities classified as Level 1 was virtually unchanged compared to year-end 2022. There were no significant reclassifications of equities between Level 1 and Level 2.

The share of bonds classified as Level 1 decreased by 1.8 percentage points compared to year-end 2022, with a corresponding increase in the share of Level 2 holdings. The primary drivers of this change were net purchases of government bonds classified as Level 2. There was a net reclassification from Level 2 to Level 1 of NOK 13 billion during the year. This consisted of bonds with a value of NOK 64 billion which were reclassified from Level 2 to Level 1, primarily due to increased price observability for corporate bonds, offset by bonds with a value of NOK 51 billion which were reclassified from Level 2.

### Reclassifications between Level 2 and Level 3

The share of equities classified as Level 3 was slightly reduced compared to year-end 2022, due to negative value development for equities in this level. There were no significant reclassifications of equities between Level 2 and Level 3. The share of bonds classified as Level 3 was virtually unchanged compared to year-end 2022. There was a net reclassification of government-related bonds from Level 2 to Level 3 during the year of NOK 466 million.

Table 8.2 Changes in Level 3 holdings

Amounts in NOK million	01.01.2023	Purchases	Sales	Settle- ments	Net gain/loss	Trans- ferred into Level 3	Trans- ferred out of Level 3	Foreign exchange gain/loss	31.12.2023
Equities	3206	-	-100	-21	-1328	47	-1	-303	1500
Bonds	340	245	-147	-54	45	563	-97	20	916
Financial derivatives (assets)	45	4	-45	-	-	-	-	-	4
Unlisted real estate <sup>1</sup>	329732	6742	-	-	-54 251	-	-	18 318	300 541
Unlisted infrastructure <sup>1</sup>	14 489	3 256	-	-	-1 010	-	-	859	17 593
Total	347 812	10 247	-292	-75	-56 544	610	-98	18 894	320 554

Amounts in NOK million	01.01.2022	Purchases	Sales	Settle- ments	Net gain/loss	Trans- ferred into Level 3	Trans- ferred out of Level 3	Foreign exchange gain/loss	31.12.2022
Equities	1349	83	-1 014	310	-28 634	27 678	-152	3 585	3206
Bonds	7	237	-	-	-20	103	-	13	340
Financial derivatives (assets)	-	-	-	-	-20	60	-	5	45
Unlisted real estate <sup>1</sup>	310 134	3 930	-	-	-8369	-	-	24 036	329732
Unlisted infrastructure <sup>1</sup>	14 287	-1143	-	-	735	-	-	609	14 489
Total	325 777	3108	-1 014	310	-36308	27 841	-152	28 248	347 812

<sup>1</sup> Purchases represent the net cash flow to investments in unlisted real estate and unlisted infrastructure, as presented in the Statement of cash flows.

The share of the portfolio classified as Level 3 was 2.0 percent at the end of 2023, a decrease from 2.8 percent at year-end 2022. The GPFG's aggregate holdings in Level 3 amounted to NOK 320 554 million at year-end 2023, a decrease of NOK 27 258 million compared to year-end 2022. The decrease is mainly due to investments in unlisted real estate which are all classified as Level 3.

Investments in unlisted real estate amounted to NOK 300 541 million at year-end, a decrease of NOK 29 191 million compared to year-end 2022. The decrease is mainly due to unrealised losses, partly offset by foreign exchange gains and new investments.

### 4. Valuation techniques

Norges Bank Investment Management has defined hierarchies for which price sources are to be used in the valuation. Holdings that are included in the benchmark indices are normally valued in accordance with prices from the index providers, while the remaining holdings of equities and bonds are valued almost exclusively using prices from other external price providers. For equities and derivatives traded in active markets (Level 1), the close price is used. For bonds traded in active markets, the bid price is generally used. Market activity and volumes are monitored using several price sources that provide access to market prices, quotes and transactions at the measurement date.

The next section sets out the valuation techniques used for instruments classified as Level 2 and Level 3 in the fair value hierarchy. In addition, the most significant observable and unobservable inputs used in the valuation models are described.

### Unlisted real estate (Level 3)

The fair value of unlisted real estate is determined as the sum of the underlying assets and liabilities as presented in <a href="note">note</a> 6 Unlisted real estate. Assets and liabilities consist mainly of properties and external debt. Properties are valued at each reporting date by external certified and independent valuation specialists using valuation models. Valuation of properties is inherently dependent on significant forward-looking assumptions. These include key estimates with respect to each individual property type, location, future estimated net cash flows and relevant yields. These assumptions represent

primarily unobservable inputs and unlisted real estate is therefore classified as Level 3 in the fair value hierarchy. Assumptions used reflect recent comparable market transactions of properties with a similar location and quality.

Valuation of commercial real estate is based on variations of discounted cash flow models.

Yields and assumptions regarding expected future cash flows are the most important inputs in the valuation models. Expected future cash flows are affected by changes in assumptions related to, but not limited to:

- Estimated market rental values and market rental value growth
- Changes in actual tenancy situation
- Expected inflation (market, consumer price index, costs, etc.)
- · Renewal and tenant default probabilities, void periods, operating costs and capital costs

The asset values are estimated by discounting the expected future cash flows. The discount rates used take into account a range of factors reflecting the specific investment, including asset level characteristics, market outlook, comparable market transactions and the local and global economic environment. For certain investments, the capitalisation method, also known as the traditional method, is used in line with local market convention. The traditional method capitalises the current net income with a capitalisation rate that incorporates the same factors as the above-mentioned discount rate and estimated cash flows.

Table 8.3 provides information on the significant unobservable inputs used in the measurement of fair value for investments in unlisted real estate.

**Table 8.3** Unobservable inputs – Unlisted real estate

	Fair value in N	OK million		Average equivale count rate in		Average annual per square me	
Property type	31.12.2023	31.12.2022	Valuation methodology	31.12.2023	31.12.2022	31.12.2023	31.12.2022
Office							
Europe	28 291	81048	Income capitalisation	4.6	3.6	11 191	7183
Europe	47 864	-	Discounted cash flow	5.3	-	6700	-
US	74 128	89789	Discounted cash flow	7.3	6.3	8 152	8 018
Retail							
Europe	13 814	35104	Income capitalisation	5.1	3.8	17 549	16 791
Europe	18 939	-	Discounted cash flow	4.9	-	19 895	-
Logistics							
US	70 439	79108	Discounted cash flow	7.8	6.4	1770	1651
Europe	36 946	33 963	Income capitalisation	5.7	5.0	1093	902
Tokyo							
Office/Retail	8 022	8 016	Discounted cash flow	2.3	2.4	16 428	17 134
Other	2 097	2703					
Total	300 541	329 732					

### Unlisted renewable energy infrastructure (Level 3)

The fair value of unlisted infrastructure is determined as the sum of the underlying assets and liabilities as presented in <a href="note7">note7 Unlisted renewable energy infrastructure</a>. The investments are valued by external, independent valuation specialists using bespoke valuation models. Valuation of unlisted infrastructure is dependent on significant forward-looking judgements. These include key assumptions and estimates with respect to each individual asset type, future revenue

streams and relevant discount rates. These assumptions represent primarily unobservable inputs and Unlisted infrastructure is therefore classified as Level 3 in the fair value hierarchy.

Discount rates and assumptions regarding expected future revenue streams (power prices) are the most important inputs in the valuation models. Power prices are forecasted by independent, energy market forecasters.

Forecasted future cash flows are discounted with a discount rate using valuation models. The models take into account estimates of risk premiums both for the market in general and for the specific infrastructure assets. In addition, the external valuers also compare this value with value estimates calculated using market multiples (trading factors from similar companies) and transaction multiples (metrics from recent comparable transactions), before determining the final estimate of fair value.

### Equities (Level 2 and Level 3)

Equities that are valued based on models with observable inputs are classified as Level 2 in the fair value hierarchy. These holdings are not traded in active markets. The valuation models take into account various observable market inputs such as comparable equity quotes, last traded price and volume.

Holdings in Level 3 consist of equities that are not listed or have been suspended from trading, where the valuation models use unobservable inputs to a significant extent. For equities that are suspended from trading, the value is adjusted down compared to last-traded price, based on an assessment of company and country-specific factors. For equities that are not listed, an adjustment for liquidity risk is applied. Valuation models for these holdings take into account unobservable inputs such as historical volatility, company performance and analysis of comparable companies and securities.

Russian equities constitute the majority of equity securities classified as Level 3 at year-end 2023. Trading in Russian securities is regulated by extensive sanctions. In order to estimate the price that would be received for the sale of the shares under current market conditions, a downward adjustment was applied to the last traded price of these securities at year-end. The downward adjustment reflects the estimated discount market participants would demand to reflect the risk associated with the inherent uncertainty in the cash flows of the shareholdings, as well as the inability to access a public market to trade the shares. The adjustment to the last traded price was based on unobservable inputs and is considered to be significant to the fair value measurement. All equity holdings where an adjustment has been applied to the last traded price were therefore classified as Level 3. At year-end 2023, these equity securities had a value of NOK 1.4 billion, compared to NOK 3 billion at year-end 2022.

### Bonds (Level 2 and Level 3)

Bonds classified as Level 2 are valued using observable inputs from comparable issues, as well as direct indicative or executable quotes. These holdings usually consist of less liquid bonds than those classified as Level 1, i.e. where there is no trading volume of binding offers and a low volume of indicative quotes at the measurement date.

Bonds classified as Level 3 are valued based on models using unobservable inputs such as probability for future cash flows and spreads to reference curves. These holdings include defaulted and highly illiquid bonds.

### Financial derivatives (Level 2 and Level 3)

Foreign exchange derivatives consist mainly of foreign exchange forward contracts, and are valued using industry standard models which use observable market data inputs such as forward rates.

Interest rate derivatives, which mainly consist of interest rate swaps, are valued using industry standard models with observable market data inputs such as interest from traded interest rate swaps.

Equity derivatives and credit derivatives, are mainly valued using observable prices provided by vendors according to the price hierarchy. In some cases where an equity derivative is not traded, inputs such as conversion factors, subscription price and strike price are utilised to value the instruments.

### 5. Sensitivity analysis for Level 3 holdings

The valuation of holdings in Level 3 involves the use of judgement when determining the assumptions that market participants would use when observable market data is not available. In the sensitivity analysis for Level 3 holdings, the effect of using reasonable alternative assumptions is shown.

**Table 8.4** Additional specification Level 3 and sensitivities

			Specifi-	Sensitivitie	s 31.12.2023		Specifi-	Sensitivitie	s 31.12.2022
Amounts in NOK million	Key assumptions	Change in key assumptions	cation of Level 3 holdings 31.12.2023	Unfa- vourable changes	Favourable changes	Change in key assumptions	cation of Level 3 holdings 31.12.2022	Unfa- vourable changes	Favourable changes
	Adjustment for country-specific factors Russia	-	1358	-1358	-	-	2997	-2 997	-
	Suspension adjustment	20.0 percent	142	-28	28	20.0 percent	209	-42	42
Equities			1500	-1386	28		3206	-3 039	42
Bonds	Probability of future cash flows	10.0 percent	916	-90	90	10.0 percent	340	-34	34
Financial derivatives (assets)	Other		4	-1	1		45	-9	9
	Yield	0.25 percentage point		-14 818	16 879	0.20 percentage point		-15 944	17 896
Unlisted	Market rent	2.0 percent		-5400	5 419	2.0 percent		-5362	5 370
real estate			300 541	-20 218	22 298		329732	-21306	23 266
	Discount rate	0.25 percentage point		-424	463	0.25 percentage point		-312	287
Unlisted	Power price forecast	5.0 percent		-976	1027	5.0 percent		-804	780
infrastructure			17 593	-1400	1490		14 489	-1116	1066
Total			320 554	-23 095	23 907		347 812	-25 504	24 417

### Unlisted real estate

Changes in key assumptions can have a material effect on the valuation. A number of key assumptions are used, of which yields and forecasts for future market rents are the assumptions that have the largest impact when estimating property values. This is illustrated in the sensitivity analysis by using other reasonable alternative assumptions for yield and market rents. At the end of 2023, a change in the yield of 0.25 percentage point, and a change in market rents of 2 percent is viewed as a reasonable range for alternative assumptions. At year-end 2022, a change in the yield of 0.20 percentage point, and a change in market rents of 2 percent was viewed as a reasonable range for alternative assumptions. The change in the range for yields is mainly to reflect the increased absolute yield level.

The sensitivity analysis is based on a statistically relevant sample that is representative for the unlisted real estate portfolio, and reflects both favourable and unfavourable changes. In an unfavourable outcome, it is estimated that an increase in the yield of 0.25 percentage point, and a reduction in market rents of 2 percent would result in a decrease in value of the unlisted real estate portfolio of approximately NOK 20 218 million or 6.7 percent (6.5 percent at year-end 2022). In a favourable outcome, a reduction in the yield of 0.25 percentage point and an increase in market rents of 2 percent would result in an increase in value of the unlisted real estate portfolio of approximately NOK 22 298 million or 7.4 percent (7.1 percent at year-end 2022). The isolated effects of changes in yields and future market rents are presented in table 8.4.

Changes outside of the ranges specified above are considered to be less reasonable alternative assumptions, however if the range of alternative assumptions were to be expanded, the value changes would be linear.

### Unlisted renewable energy infrastructure

The sensitivity analysis for unlisted infrastructure is adapted to each individual investment. A number of key assumptions are used, of which discount rates and future power prices are the assumptions that have the largest impact when estimating values. This is illustrated in the sensitivity analysis by using other reasonable alternative assumptions for discount rates and future power prices.

### Equities

Fair value of equities classified as Level 3 is sensitive to assumptions regarding whether trading will be resumed and how markets have moved from the time the trading was suspended, as well as specific factors related to the country and the individual company, such as trading restrictions and the company's financial situation.

### 6. Control environment

The control environment for fair value measurement of financial instruments and investments in unlisted real estate and unlisted infrastructure is organised around a formalised and documented valuation policy and guidelines, supported by work and control procedures.

The valuation environment has been adapted in accordance with market standards and established valuation practices. This is implemented in practice through daily valuation of all holdings, except for investments in unlisted real estate and unlisted infrastructure, where valuations are performed quarterly. For unlisted real estate, the quarterly valuations are performed by external valuers. For unlisted infrastructure, external valuers perform the valuations at the end of the second and fourth quarters, while the internal valuation department performs the valuations at the end of the first and third quarters. These processes are scalable to market changes and are based on internal and external data solutions.

All holdings and investments are generally valued by external, independent price providers. These have been selected based on analyses performed by the departments responsible for valuation.

Price providers are monitored on an ongoing basis through regular discussions, controls and price challenges for individual securities. For a large portion of holdings, prices from independent price providers are based on quoted market prices. For holdings that are not sufficiently liquid for valuation to be based on quoted prices, models are used. Observable inputs are used where possible, but unobservable inputs are used in some cases, due to illiquid markets.

The valuation process is subject to numerous daily controls by the valuation departments. These controls are based on defined thresholds and sensitivities, which are monitored and adjusted in accordance with prevailing market conditions. At the end of each month for financial instruments and at the end of each quarter for investments in unlisted real estate and unlisted infrastructure, more extensive controls are performed to ensure the valuations represent fair value in accordance with IFRS. Particular attention is paid to illiquid financial instruments and unlisted investments, i.e. investments deemed to pose valuation challenges. Illiquid instruments are identified using sector and currency classifications, credit rating indicators, bid/ask spreads, and market activity.

Valuation memos and reports are prepared each quarter-end, documenting the results of the controls performed and the most important sources of uncertainty in the valuations. Prior to the publication of the financial reporting, the valuation documentation is reviewed, significant pricing issues are discussed, and the valuation is approved in the NBIM Leader Group Investment meeting.

### **GPFG Note 9** Investment risk

### Management mandate for the GPFG

The GPFG is managed by Norges Bank on behalf of the Ministry of Finance, in accordance with section 3, second paragraph of the Government Pension Fund Act and the management mandate for the GPFG issued by the Ministry of Finance.

The GPFG shall seek to generate the highest possible return, net of costs, measured in the currency basket of the investment portfolio, within the applicable investment management framework. The strategic benchmark index set by the Ministry of Finance is divided into two asset classes, equities and bonds, with an allocation of 70 percent to equities and 30 percent to bonds.

The benchmark index for equities is constructed based on the market capitalisation for equities in the countries included in the benchmark. The benchmark index for bonds specifies a defined allocation between government bonds and corporate bonds, with a weight of 70 percent to government bonds and 30 percent to corporate bonds. The currency distribution is a result of these weighting principles.

Investments in unlisted real estate and unlisted renewable energy infrastructure are not defined by the fund's benchmark index. The management mandate sets a maximum allocation to unlisted real estate of 7 percent of the investment portfolio. Investments in unlisted infrastructure can amount to up to 2 percent of the investment portfolio. The fund's allocation to unlisted real estate and unlisted infrastructure is further regulated in the investment mandate issued by the Executive Board of Norges Bank. It is up to Norges Bank to determine the allocation to unlisted real estate and unlisted infrastructure within the limits set in the management mandate, and how this shall be financed.

The fund cannot invest in securities issued by Norwegian entities, securities issued in Norwegian kroner, or real estate and infrastructure located in Norway. The fund can also not invest in companies which are excluded following the guidelines for observation and exclusion from the GPFG.

### **Chart 9.1** Management mandate for the GPFG



### Norges Bank's governance structure

The Executive Board of Norges Bank has delegated responsibility for the management of the GPFG to the Chief Executive Officer (CEO) of Norges Bank Investment Management.

The CEO of Norges Bank Investment Management is authorised through a job description and an investment mandate. The Executive Board has issued principles for, among other things, risk management, responsible investment and compensation to employees in Norges Bank Investment Management. Internationally recognised standards are applied in the areas of valuation and performance measurement as well as management, measurement and control of risk. Reporting to the Executive Board is carried out monthly, and more extensively on a quarterly basis. The Governor of Norges Bank and the Executive Board are notified immediately in the event of special events or significant matters.

Investment responsibilities within Norges Bank Investment Management are further delegated through investment mandates. Responsibility for processes and personnel is delegated through job descriptions, while process requirements are described in policies and guidelines. The composition of the leader group and the delegation of authority shall ensure segregation of duties between the investment areas, trading, operations, risk management and compliance and control.

Chart 9.2 Norges Bank's governance structure



The NBIM Leader Group Investment Meeting complements the delegation of responsibility by advising on investment risk management and the portfolio's investment universe.

Internal risk reporting requirements are set by the CEO of Norges Bank Investment Management, through job descriptions in the risk area. Reporting to the CEO is carried out on a daily, weekly and monthly basis. The CEO shall be notified immediately of any special events or serious breaches of the investment mandate.

### Framework for investment risk

In the management mandate for the GPFG, there are a number of limits and restrictions within the combined equity and bond asset class, as well as within the individual asset classes. Investments in unlisted real estate and unlisted renewable energy infrastructure are regulated by a separate management framework in the investment mandate. The framework underpins how a diversified exposure to unlisted real estate and unlisted infrastructure shall be established and managed.

Clear roles and responsibilities are a cornerstone of process design at Norges Bank Investment Management. Changes to investment mandates, the portfolio hierarchy and new counterparties are monitored and require approval by the Chief Risk Officer (CRO), or a person authorised by the CRO.

The Executive Board's principles for risk management are further described in policies and guidelines. Responsibility for effective processes related to risk management is delegated to the CRO and the Chief Corporate Governance & Compliance Officer.

Risk management is defined as the management of market risk, credit risk, counterparty risk, operational risk and risk related to environmental, social and governance factors. The first three items listed are defined as investment risk. The investment area in Norges Bank Investment Management is responsible for managing risk in the portfolio and in individual mandates, while the risk management areas independently measure, manage and report investment risk across the portfolio, at asset class level and other levels within the portfolio that reflect the investment process. Separate risk assessments are required in advance of investments in unlisted real estate and unlisted infrastructure.

**Table 9.1** Investment risk

Туре	Market risk	Credit risk	Counterpartyrisk
Definition	Risk of loss or a change in the market value of the portfolio, or parts of the portfolio, due to changes in financial market variables, real estate and infrastructure values	Risk of loss due to a bond issuer not meeting its payment obligations	Risk of loss due to counterparty bankruptcy or other events leading to counterparties defaulting
Main dimensions	Measured both absolute and relative to the benchmark - Concentration risk - Volatility and correlation risk - Systematic factor risk - Liquidity risk	Measured at single issuer and portfolio levels - Probability of default - Loss given default - Correlation between instruments and issuers at portfolio level	Measured risk exposure by type of position - Securities lending - Unsecured bank deposits and securities - Derivatives including FX contracts - Repurchase and reverse repurchase agreements - Settlement risk towards brokers and long settlement transactions

#### Investment risk - market risk

Norges Bank Investment Management defines market risk as the risk of loss or a change in the market value of the portfolio, or parts of the portfolio, due to changes in financial market variables, as well as real estate and infrastructure values. Market risk for the investment portfolio, both absolute and relative to the benchmark, is measured along the dimensions concentration risk, volatility and correlation risk, systematic factor risk and liquidity risk. For unlisted real estate, this involves measurement of the share of real estate under construction, vacancy, tenant concentration and geographical concentration. For unlisted infrastructure, this involves measurement of exposure towards different sectors, share of income from government subsidies, development exposure, and geographical concentration. Market risk is actively taken to generate investment returns in line with the objectives of the investment mandates.

### Investment risk - credit risk

Norges Bank Investment Management defines credit risk as the risk of loss resulting from a bond issuer defaulting on their payment obligations. Credit risk is measured both in relation to single issuers, where the probability of default and loss given default are taken into account, and at portfolio level, where the correlation of credit losses between instruments and issuers is taken into account. Credit risk is actively taken to generate investment returns in line with the objectives of the investment mandates.

### Investment risk - counterparty risk

Norges Bank Investment Management defines counterparty risk as the risk of loss due to counterparty bankruptcy or other events leading to counterparties defaulting. Counterparties are necessary to ensure effective liquidity management and effective trading and management of market and credit risk. Counterparty risk also arises in connection with securities lending and with the management of the equity and bond portfolios, as well as the real estate and infrastructure portfolios. Counterparty risk is controlled and limited to the greatest extent possible, given the investment strategy.

### Risk management process

Norges Bank Investment Management employs several measurement methodologies, processes and systems to control investment risk. Robust and widely recognised risk management systems and processes are complemented by internally developed measurement methodologies and processes.

### Market risk

Norges Bank Investment Management measures market risk in both absolute terms for the actual portfolio, and the relative market risk for holdings in the GPFG.

Continuous monitoring, measurement and assessment of market risk is performed along multiple risk dimensions, employing a number of methodologies and approaches. Combining different and complementary risk measures provides a better insight into the risk profile of the GPFG's holdings.

### Concentration risk

Concentration analysis complements statistical risk estimation by describing the concentration of a single exposure or a group of exposures. More concentrated portfolios tend to contribute to less diversification. Concentration is measured across different dimensions depending on the asset class, including country, currency, sector, issuer and company exposure.

The portfolio is invested across several asset classes, countries and currencies as shown in table 9.2.

 Table 9.2
 Allocation by asset class, country and currency

	Market v	alue in percent l	oy country and curren	Market valu class in p		Market value by asset class in NOK million		
Asset class	Market	31.12.2023	Market	31.12.2022	31.12.2023	31.12.2022	31.12.2023	31.12.2022
Equities	Developed	89.8	Developed	89.1				
	US	48.8	US	44.7				
	Japan	7.2	Japan	7.3				
	UK	6.1	UK	7.0				
	France	4.3	France	4.8				
	Switzerland	4.1	Switzerland	4.5				
	Total other	19.4	Total other	20.8				
	Emerging	10.2	Emerging	10.9				
	China	3.1	China	3.8				
	India	2.2	India	2.0				
	Taiwan	2.1	Taiwan	2.0				
	Brazil	0.6	Brazil	0.5				
	Mexico	0.4	South Africa	0.4				
	Total other	1.9	Total other	2.2				
Total equities					70.88	69.77	11 174 263	8 672 186
Fixed income	Developed	99.8	Developed	99.7				
	US dollar	51.2	US dollar	50.2				
	Euro	28.2	Euro	28.1				
	Japanese yen	6.9	Japanese yen	8.0				
	British pound	5.0	British pound	4.5				
	Canadian dollar	3.9	Canadian dollar	3.8				
	Total other	4.6	Total other	5.1				
	Emerging <sup>2</sup>	0.2	Emerging <sup>2</sup>	0.3				
Total fixed income					27.10	27.45	4 271 746	3 412 044
Unlisted real estate	US	48.6	US	51.8				
	UK	18.7	France	16.5				
	France	15.7	UK	16.4				
	Germany	5.3	Germany	5.0				
	Switzerland	3.6	Switzerland	3.4				
	Total other	8.0	Total other	7.0				
Total unlisted real e	state				1.91	2.66	301128	330 300
Total unlisted infras	tructure				0.11	0.12	17 660	14 530
Market value invest	ment portfolio						15 764 797	12 429 059

<sup>1</sup> Market value in percent by country and currency includes derivatives and cash. From 2023, market value is presented before management fee receivable and deferred tax. Up to and including 2022, market value was presented before management fee receivable.

 $<sup>^{2}</sup>$  The share of individual emerging market currencies in the fixed income portfolio is insignificant.

At the end of 2023, the equity portfolio's share of the fund was 70.9 percent, up from 69.8 percent at year-end 2022. The bond portfolio's share of the fund was 27.1 percent, down from 27.5 percent at year-end 2022. Unlisted real estate amounted to 1.9 percent of the fund at year-end, compared to 2.7 percent at year-end 2022. Unlisted infrastructure amounted to 0.1 percent of the fund at year-end, which was the same as year-end 2022.

For equity investments, concentration in the portfolio is further measured by sector. Table 9.3 shows the composition of the equity asset class by sector.

**Table 9.3** Allocation of equity investments by sector<sup>1</sup>, percent

Sector	31.12.2023	31.12.2022
Technology	22.3	17.5
Financials	15.0	15.8
Consumer discretionary	14.1	13.3
Industrials	13.1	13.1
Health care	11.1	12.7
Consumer staples	5.6	6.6
Real estate	5.5	5.5
Basic materials	4.0	4.4
Energy	3.7	4.4
Telecommunications	3.3	3.1
Utilities	2.4	2.7

<sup>&</sup>lt;sup>1</sup> Does not sum up to 100 percent because cash and derivatives are not included.

The GPFG has substantial investments in government-issued bonds. Table 9.4 shows the largest holdings in bonds issued by governments. These include government bonds issued in local and foreign currency and inflation-linked bonds issued in local currency.

 Table 9.4
 Largest holdings within the segment government bonds

Amounts in NOK million	Market value 31.12.2023
US	1344708
Japan	362 637
Singapore	225 902
Germany	201 925
UK	152 941
Canada	85 209
France	79 170
Italy	60 385
Netherlands	52 858
Spain	49 664

Amounts in NOK million	Market value 31.12.2022
US	1022086
Japan	475 342
Germany	171 336
Singapore	155 332
UK	106 701
France	73 898
Canada	64 837
Italy	63 415
Australia	44 187
Spain	31959

The portfolio is also invested in companies which issue both equities and bonds. Table 9.5 shows the portfolio's largest holdings of non-government issuers, including both bond and equity holdings. Covered bonds issued by financial institutions and debt issued by other underlying companies are included in the bonds column.

 Table 9.5
 Largest holdings excluding sovereigns, both bonds and equities

Amounts in NOK million, 31.12.2023	Sector	Equities	Bonds	Total
Microsoft Corp	Technology	358 388	1717	360105
Apple Inc	Technology	337 297	5 631	342 929
Alphabet Inc	Technology	195 493	1948	197 440
Amazon.com Inc	Consumer discretionary	177 283	6 5 9 6	183 879
NVIDIA Corp	Technology	145 855	3 2 3 0	149 085
Meta Platforms Inc	Technology	113 120	4198	117 318
Nestlé SA	Consumer staples	91 221	1527	92 747
Taiwan Semiconductor Manufacturing Co Ltd	Technology	89 218	-	89 218
Novo Nordisk A/S	Health care	88 694	-	88 694
JPMorgan Chase & Co	Financials	59 877	22 686	82 563

Amounts in NOK million, 31.12.2022	Sector	Equities	Bonds	Total
AppleInc	Technology	209 674	9 662	219 336
Microsoft Corp	Technology	199 878	1581	201459
AlphabetInc	Technology	110 219	1717	111 936
Nestlé SA	Consumer staples	88149	1994	90 143
Amazon.com Inc	Consumer discretionary	80 207	9260	89 466
Roche Holding AG	Health care	62 055	1498	63 554
Shell PLC	Energy	60710	272	60 982
Taiwan Semiconductor Manufacturing Co Ltd	Technology	60 040	-	60 040
Bank of America Corp	Financials	33 303	25 468	58 771
Berkshire Hathaway Inc	Financials	51834	6169	58 003

Table 9.6 shows the composition of the unlisted real estate asset class by sector.

 Table 9.6
 Distribution of unlisted real estate investments by sector, percent

Sector	31.12.2023	31.12.2022
Office	52.0	53.7
Retail	11.9	11.7
Logistics	35.7	34.2
Other	0.4	0.4
Total	100.0	100.0

#### Volatility and correlation risk

Norges Bank Investment Management uses models to quantify the risk of fluctuations in value for all or parts of the portfolio. Volatility is a standard risk measure based on the statistical concept of standard deviation, which takes into account the correlation between different investments in the portfolio. Expected volatility is defined as one standard deviation. This risk measure gives an estimate of how much one can expect the portfolio's value to change or fluctuate during the course of a year, based on market conditions over the past three years. In two of three years, the portfolio return is expected to be within the negative and positive value of the estimated volatility. Expected volatility can be expressed in terms of the portfolio's absolute or relative risk. Norges Bank Investment Management uses the same model both for portfolio risk and for relative volatility.

All the fund's investments are included in the calculation of expected relative volatility and are measured against the fund's benchmark index consisting of global equity and bond indices.

The modelling of unlisted investments is challenging due to few or no historical prices. For investments in unlisted real estate, the exposure to a group of relevant risk factors is mapped to the model framework in MSCI's Barra Private Real Estate 2 (PRE2) model. These are decided by key attributes such as location and property type. The model uses time series of valuations and actual transactions as a starting point, but also includes listed real estate share prices to establish representative, daily time series. For investments in unlisted infrastructure, the starting point is a combination of time series available in the existing framework for listed markets. The exposure to generic, listed risk factors is mapped for each project based on attributes such as share of contractually agreed prices, project lifetime, project phase, sector, country, and the quality of counterparties.

The risk model from MSCI then uses these factors for unlisted investments in the same way as ordinary equity and fixed-income risk factors, to calculate expected absolute and relative volatility, as well as expected shortfall for the fund's investments.

#### Calculation of expected volatility

Expected volatility for the portfolio, and volatility relative to the benchmark index, is estimated by using a parametric calculation method based on current investments. The model weights weekly return data equally over a sampling period of three years.

Tables 9.7 and 9.8 present risk both in terms of the portfolio's absolute risk and relative risk.

**Table 9.7** Portfolio risk, expected volatility, percent

		Expected volatility, actual portfolio							
	31.12.2023	Min 2023	Max 2023	Average 2023	31.12.2022	Min 2022	Max 2022	Average 2022	
Portfolio	10.3	8.7	10.8	9.7	10.1	9.6	10.4	10.1	
Equities	12.5	11.3	15.0	12.4	14.2	13.8	14.4	14.2	
Fixed income	10.8	9.8	11.2	10.4	11.1	10.0	11.1	10.7	
Unlisted real estate	12.9	11.8	12.9	12.4	12.1	11.7	12.4	12.0	
Unlisted infrastructure	34.0	14.9	40.0	32.1	14.9	8.9	14.9	11.7	

Table 9.8 Relative risk measured against the fund's reference index, expected relative volatility, basis points

	Expected relative volatility							
	31.12.2023	Min 2023	Max 2023	Average 2023	31.12.2022	Min 2022	Max 2022	Average 2022
Portfolio	34	33	41	36	39	39	53	45

Risk measured as expected volatility indicates an expected annual value fluctuation in the fund of 10.3 percent, or approximately NOK 1 620 billion at the end of 2023, compared to 10.1 percent at year-end 2022. Expected volatility for the equity portfolio was 12.5 percent at year-end, down from 14.2 percent at year-end 2022, while expected volatility for the fixed-income portfolio was 10.8 percent, down from 11.1 percent at year-end 2022.

The management mandate specifies that expected relative volatility for the fund shall not exceed 1.25 percentage points. The measurement of risk and follow-up of the limit is performed based on the risk model described above. The fund's expected relative volatility was 34 basis points at the end of the year, down from 39 basis points at year-end 2022. The decrease in the fund's expected relative volatility in 2023 is mainly due to reduced expected relative volatility from real estate investments.

In addition to the above-mentioned model, other risk models are employed that capture the market dynamics of recent periods to a greater extent, as well as models that measure tail risk.

Expected shortfall is a tail risk measure that quantifies the expected loss of a portfolio in extreme market situations. Expected shortfall measured on relative returns provides an estimate of the annual expected relative underperformance versus the benchmark index for a given confidence level. Using historical simulations, relative returns of the current portfolio compared to the benchmark index are calculated on a weekly basis over a sampling period from January 2007 until the end of the last accounting period. The expected shortfall at a 97.5 percent confidence level is then given by the annualised average relative return, measured in the currency basket for the 2.5 percent worst weeks.

The Executive Board has determined that the fund shall be managed in such a way that the annual expected shortfall measured against the benchmark index does not exceed 3.75 percentage points. Expected shortfall is measured and monitored based on the risk model described above. At the end of the year, expected shortfall was 1.08 percentage points, compared to 1.22 percentage points at year-end 2022.

#### Calculation of expected shortfall

Expected shortfall for the portfolio, measured against its benchmark index, is estimated using historical simulations based on current investments. The model weights weekly returns equally over a sampling period from January 2007 until the end of the last accounting period, so that the measure can capture extreme market movements. A confidence level of 97.5 percent is used for the calculations.

#### Strengths and weaknesses

The strength of these types of risk model is that one can estimate the risk associated with a portfolio across different asset classes, markets, currencies, securities and derivatives, and express this risk as a single numerical value, which takes into account the correlation between different asset classes, securities and risk factors, as well as capturing deviations from a normal distribution.

The model-based risk estimates are based on historical relationships in the markets and are expected to provide reliable forecasts in markets without significant changes in volatility and correlation. Estimates will be less reliable in periods marked by significant changes in volatility and correlation. Calculated volatility gives a point estimate of risk and provides little information on the total risk profile and any tail risk. Annualisation means that it is assumed that volatility and the composition of the portfolio are constant over time. To compensate for these shortcomings, complementary models and methods are employed, such as stress tests and analyses of concentration risk and realised returns.

#### Verification of models

Risk models used in estimating and controlling investment risk are continuously evaluated and verified for their ability to estimate risk. The special nature of the investment portfolio and the investment universe, as well as the GPFG's long-term investment horizon, are taken into account when evaluating the models.

#### **Credit risk**

Credit risk is the risk of losses resulting from issuers of bonds defaulting on their payment obligations. Fixed-income instruments in the portfolio's benchmark index are all rated investment grade by one of the major credit rating agencies. Investments in bonds are made based on internal assessments with regards to expected return and risk profile.

**Table 9.9** Bond portfolio specified by credit rating

Amounts in NOK million, 31.12.2023	AAA	AA	А	BBB	Lower rating	Total
Government bonds	612 472	1456 325	406747	80 433	36 233	2 592 210
Government-related bonds	198 601	149 019	34 615	22 373	2369	406 977
Inflation-linked bonds	48 794	193 647	24 943	15 752	-	283 137
Corporate bonds	8 977	66 905	460 349	455 568	10 487	1002288
Securitised bonds	239 362	41 931	1812	-	-	283106
Total bonds <sup>1</sup>	1108 207	1907827	928 467	574 127	49 090	4 567 718

Amounts in NOK million, 31.12.2022	AAA	AA	А	ВВВ	Lower rating	Total
Government bonds	1365 320	192142	509 240	75 988	22 914	2165605
Government-related bonds	173 893	136 251	51 670	18 168	1867	381848
Inflation-linked bonds	154708	58 278	14 368	16 087	-	243 441
Corporate bonds	7761	61 407	366 585	383 325	10 236	829 314
Securitised bonds	198 124	34 817	1677	-	-	234 618
Total bonds	1899805	482 896	943540	493 569	35 018	3 854 827

<sup>1</sup> At year-end 2023, bonds received as collateral amounting to NOK 2.6 billion were sold. These bonds are presented in the balance sheet as a liability under Secured borrowing.

The market value of the bond portfolio increased to NOK 4 568 billion at year-end 2023, from NOK 3 855 billion at year-end 2022. The share of holdings in corporate bonds increased by 0.4 percentage point during the year, to 21.9 percent of the bond portfolio at year-end 2023. Government bonds, including inflation-linked bonds, comprised 62.9 percent of the bond portfolio at year-end, an increase of 0.4 percentage point compared to year-end 2022.

The share of bonds with credit rating AAA decreased by 25.0 percentage points during the year, to 24.3 percent of the total bond portfolio at year-end 2023. The decrease is mainly due to USA being downgraded to AA from category AAA. This led to an increase in category AA to 41.8 percent of the bond portfolio at year end 2023, from 12.5 percent at year end 2022. The share of bonds with credit rating BBB decreased by 0.2 percentage point compared to year-end 2022, to 12.6 percent at year-end 2023.

The share of bonds in the Lower rating category increased to 1.1 percent at year-end 2023, from 0.9 percent at year-end 2022. This was mainly due to an increase in the share of Brazilian government bonds in the Lower rating category. Defaulted bonds had a market value of NOK 23 million at year-end 2023, compared to NOK 27 million at year-end 2022. Defaulted bonds are grouped under Lower rating.

 Table 9.10
 Bond portfolio by credit rating and currency, percent

31.12.2023	AAA	АА	А	BBB	Lower rating	Total
US dollar	0.8	31.3	7.1	6.9	0.1	46.1
Euro	11.7	5.1	4.2	4.0	0.1	25.1
Japanese yen	-	-	8.0	-	-	8.0
Singapore dollar	4.9	-	-	-	-	4.9
Canadian dollar	3.1	0.8	0.5	-	-	4.7
Other currencies	3.7	4.6	0.5	1.4	0.8	11.1
Total	24.3	41.8	20.3	12.6	1.1	100.0

31.12.2022	AAA	АА	А	BBB	Lower rating	Total
US dollar	27.5	2.1	7.1	7.1	0.2	44.0
Euro	10.9	5.6	3.5	4.2	0.1	24.4
Japanese yen	-	-	12.8	-	-	12.8
Canadian dollar	2.9	0.7	0.3	0.2	-	4.1
Singapore dollar	4.0	-	-	-	-	4.0
Other currencies	3.9	4.0	0.7	1.4	0.6	10.7
Total	49.3	12.5	24.5	12.8	0.9	100.0

At year-end 2023, investments had been made in purchased credit default swaps with a nominal value of NOK 52.3 billion, a small decrease from NOK 53.3 billion at year-end 2022. 29 percent of these were in the category where the underlying issuers have a low credit rating. See table 5.3 in note 5 Holdings of equities, bonds and financial derivatives for further information. When investing in purchased credit default swaps, the credit risk in the bond portfolio is reduced when the portfolio has investments in the same underlying bonds as the credit default swaps. At year-end 2023, credit risk exposure was reduced by NOK 23.7 billion as a result of purchased credit default swaps, compared to a reduction of NOK 28.5 billion at year-end 2022.

In addition to credit ratings from credit rating agencies, measurement of credit risk is complemented by two credit risk models, of which one is based on credit ratings and the other is based on observable credit premiums. Both of these methods also take into account the correlation and expected value of bonds in a bankruptcy situation. The models also take into account credit default swaps, and these reduce or increase the credit risk depending on whether credit risk is bought or sold. The models are used for risk measurement and monitoring of credit risk in the fixed-income portfolio. The overall credit quality of the bond portfolio deteriorated slightly during the year.

#### Counterparty risk

Counterparties are necessary to trade in the markets and to ensure effective management of liquidity, market and credit risk. Exposure to counterparty risk is related to trading in derivatives and foreign exchange contracts, securities lending, and repurchase and reverse repurchase agreements. Counterparty risk also arises from unsecured bank deposits and in connection with the daily liquidity management of the fund, as well as purchases and sales of unlisted real estate and unlisted infrastructure. Furthermore, there is exposure to counterparty risk related to counterparties in the international settlement and custody systems where transactions settle. This can occur both for currency trades and for the purchase and sale of securities. Settlement risk and exposure from trades with a long settlement period are also defined as counterparty risk.

Various counterparties are used to reduce concentration and there are strict requirements for counterparty credit rating. Credit rating requirements are generally higher for counterparties to unsecured deposits in banks than in cases where collateral is received. Changes in counterparty credit ratings are monitored continuously.

Netting agreements are in place for trades in OTC derivatives, currency contracts, as well as repurchase and reverse repurchase agreements, in order to reduce counterparty risk. Many derivatives are also cleared, meaning that the counterparty risk is mainly towards the clearing house instead of banks. Further reduction of counterparty risk is achieved through requirements for collateral for counterparty net positions with a positive market value. For instruments where collateral is used, minimum requirements have been set relating to the credit quality, time to maturity and concentration of the collateral. Netting and collateral agreements are entered into for all approved counterparties for these types of trades.

There are also requirements governing the way real estate and infrastructure transactions are conducted in order to ensure acceptable counterparty risk. Counterparty risk that arises during the acquisition process is analysed in advance of the transaction and requires approval by the CRO. In 2023, 8 real estate transactions were analysed and approved by the CRO through this process, compared to 13 transactions in 2022. In 2023, 2 investments in unlisted infrastructure were analysed and approved by the CRO through this process. No investments were made in unlisted infrastructure in 2022.

Counterparty risk is also limited by setting exposure limits for individual counterparties. In most instances, the exposure limit is determined by the credit rating of the counterparty, where counterparties with strong credit rating have a higher limit than counterparties with weaker credit rating. Exposure per counterparty is measured daily against limits set by the Executive Board and the CEO of Norges Bank Investment Management.

The methodologies used to calculate counterparty risk are in accordance with internationally recognised standards. As a rule, the Basel regulations for banks are used for measuring counterparty risk, with certain adjustments based on internal analyses. The risk model calculates the expected counterparty exposure in the event of a counterparty default. The Standardised Approach in the Basel regulations (SA-CCR) is used for derivatives and foreign exchange contracts. The Standardised Approach takes into account collateral received and netting arrangements when calculating counterparty risk

For repurchase agreements, securities lending transactions executed through an external agent and securities posted as collateral in derivative trades, a method is used that adds a premium to the market value to reflect the position's volatility. When determining counterparty risk exposure for these positions, an adjustment is also made for netting and actual collateral received and posted.

Exposure to counterparty risk is related to counterparties in the settlement and custody systems, both for currency trades and for the purchase and sale of securities. Settlement risk is reduced using the currency settlement system CLS (Continuous Linked Settlement), or by trading directly with the settlement bank. For some currencies, Norges Bank is exposed to settlement risk when the sold currency is delivered to the counterparty before the receipt of currency is confirmed. This type of exposure is included on the line Settlement risk towards brokers and long settlement transactions in table 9.11.

In table 9.11, exposure is broken down by type of activity/instrument associated with counterparty risk.

Total counterparty risk increased to NOK 212.0 billion at year-end 2023, from NOK 172,0 billion at year-end 2022, an increase of 23.3 percent. The largest increase in counterparty risk exposure came from derivatives, including foreign exchange contracts, which amounted to NOK 30.2 billion in 2023, and was largest for futures and foreign exchange contracts. The increase was mainly due to increased activity in these instruments. There was also an increase in risk exposure from repurchase and reverse repurchase agreements at year-end 2023 compared to year-end 2022. This is mainly due to increased lending activity at year-end 2023.

Counterparty risk exposure from the securities lending programme increased to NOK 66.8 billion at year-end 2023, from NOK 62.3 billion at year-end 2022. The increase was mainly due to higher bond lending in the programme at year-end 2023. Both equities and bonds are lent through the securities lending programme. Counterparty risk exposure from securities lending accounted for 31.5 percent of the fund's total counterparty risk exposure at the end of 2023, compared to 36.2 percent at the end of 2022.

**Table 9.11** Counterparty risk by type of position

	Risk ex	posure
Amounts in NOK million	31.12.2023	31.12.2022
Derivatives including foreign exchange contracts	102 476	72 319
Securities lending	66750	62 291
Unsecured bank deposits <sup>1</sup> and securities	20 188	21662
Repurchase and reverse repurchase agreements	19 798	13 986
Settlement risk towards brokers and long settlement transactions	2798	1699
Total	212 011	171 956

<sup>&</sup>lt;sup>1</sup> Includes bank deposits in non-consolidated subsidiaries.

Norges Bank's counterparties have a credit rating from independent credit rating agencies or a documented internal credit rating. Credit ratings for counterparties are monitored and complemented by alternative credit risk indicators.

Table 9.12 shows approved counterparties classified by credit rating category. The table also includes brokers that are used when purchasing and selling securities.

**Table 9.12** Counterparties by credit rating<sup>1</sup>

	Norges Bank's counterparties (excluding brokers)		Bro	kers
	31.12.2023	31.12.2022	31.12.2023	31.12.2022
AAA	3	3	1	1
AA	38	38	40	34
A	70	62	89	87
BBB	9	11	33	31
BB	2	2	23	22
В	-	-	5	4
Total	122	116	191	179

<sup>1</sup> The table shows the number of legal entities. The same legal entity can be included as both broker and counterparty.

The number of counterparties and brokers increased slightly during the year. There were 122 counterparties at year-end 2023, compared to 116 at year-end 2022. The number of brokers increased to 191 at year-end 2023, from 179 at year-end 2022. The overall credit quality of brokers and counterparties remained unchanged from year-end 2022.

#### Leverage

Leverage may be used to ensure effective management of the investments within the equity and bond portfolios, but not with the aim of increasing the economic exposure to risky assets. The use of leverage is regulated in both the management mandate and the investment mandate. Leverage is the difference between total net exposure and market value of the portfolio. Net exposure is determined by including securities at market value, cash at face value and positions in derivatives by converting them to the underlying exposure. When the exposure is greater than market value, the portfolio is leveraged.

The GPFG's leverage was 1.5 percent for the aggregated equity and bond portfolio at the end of 2023, compared to 2.8 percent at the end of 2022. For investments in unlisted real estate, requirements are set in the investment mandate, limiting

the maximum leverage of the portfolio to 35 percent. The unlisted real estate investments had a debt ratio of 7.8 percent at the end of 2023, compared to 7.6 percent at the end of 2022. At year-end 2023, there was no external debt for the unlisted infrastructure investments.

#### Sale of securities Norges Bank does not own

Sale of securities not owned by Norges Bank (short sales) can only be carried out if there are established borrowing agreements to cover a negative position. Such transactions were used to a limited extent in 2023.

### **GPFG Note 10** Tax

#### **Accounting policy**

Norges Bank is exempt from income tax on its operations in Norway, but is subject to taxes in a number of foreign jurisdictions. Tax expense in the income statement represents income taxes that are not reimbursed through local tax laws or treaties, and consists of taxes on dividends, interest income and capital gains related to investments in equities and bonds, tax on fee income from secured lending and taxes in consolidated subsidiaries. The majority of these taxes are collected at source.

Withholding taxes, net of deductions for refundable amounts, are recognised at the same time as the related dividend or interest income. See the accounting policy in note 4 Income/expense from equities, bonds and financial derivatives.

Other income tax, which is not collected at source, is recognised in the income statement in the same period as the related income or gain and presented in the balance sheet as a liability within Other liabilities, until it has been settled. Deferred tax in the balance sheet mainly consists of capital gains tax. Capital gains tax is recognised as a liability based on the expected future payment when the GPFG is in a gain position in the applicable market. No deferred tax asset is presented in the balance sheet when the GPFG is in a loss position, since the recognition criteria are not considered to be met.

Tax incurred in subsidiaries presented in the balance sheet lines Unlisted real estate and Unlisted infrastructure is recognised in the income statement as Income/expense from unlisted real estate and Income/expense from unlisted infrastructure, respectively. Only the tax expense in consolidated subsidiaries is included in the income statement line Tax expense. This is specified in table 10.1 in the line Other.

The rules on global minimum taxation (Pillar 2) are expected to be implemented in Norway with effect from 2024. The current assessment is that the fund will be exempt from the scope of application. Therefore, no change in the fund's tax cost is expected as a result of the implementation.

All uncertain tax positions, such as disputed withholding tax refunds, are assessed each reporting period. The best estimate of the probable reimbursement or payment is recognised in the balance sheet.

Table 10.1 shows tax expense by type of investment and type of tax.

Table 10.1Specification tax expense

Amounts in NOK million, 2023	Gross income before taxes	Income tax on dividends, interest and fees	Capital gains tax	Other	Tax expense	Net income after taxes
Income/expense from:						
Equities	2 030 561	-7 533	-5 818	-	-13 351	2 017 210
Bonds	231769	-20	-	-	-20	231749
Securedlending	9 922	-165	-	-	-165	9757
Other	-	-	-	-19	-19	-
Tax expense		-7718	-5 818	-19	-13 555	

Amounts in NOK million, 2022	Gross income before taxes	Income tax on dividends, inter- est and fees	Capital gains tax	Other	Tax expense	Net income after taxes
Income/expense from:						
Equities	-1201835	-4 347	-266	-	-4 613	-1206 448
Bonds	-453 128	-25	-	-	-25	-453 153
Securedlending	4845	-202	-	-	-202	4 643
Other	-	-	-	-9	-9	-
Tax expense		-4 574	-266	-9	-4850	

Table 10.2 shows receivables and liabilities recognised in the balance sheet related to tax.

**Table 10.2** Specification balance sheet items related to tax

Amounts in NOK million	31.12.2023	31.12.2022
Withholding tax receivable	10 522	8 937
Tax payable <sup>1</sup>	15	12
Deferredtax	8 2 4 6	4 488

<sup>&</sup>lt;sup>1</sup> Included within the balance sheet line Other liabilities.

Table 10.3 specifies the line Net payment of taxes in the statement of cash flows.

 Table 10.3
 Specification net payment of taxes

Amounts in NOK million	2023	2022
Receipt of refunded withholding tax	8 231	6 617
Payment of taxes	-19 405	-17 676
Net payment of taxes	-11 173	-11 058

# **GPFG Note 11** Foreign exchange gains and losses

In accordance with the management mandate, the fund is not invested in securities issued by Norwegian companies, securities denominated in Norwegian kroner nor real estate or infrastructure located in Norway. The fund's returns are measured primarily in the fund's currency basket, which is a weighted combination of the currencies in the fund's benchmark index for equities and bonds. The fund's market value in Norwegian kroner is impacted by changes in exchange rates, but this has no bearing on the fund's international purchasing power.

#### **Accounting judgement**

The management of Norges Bank has concluded that the Norwegian krone is the bank's functional currency, since this currency is dominant for the bank's underlying activities. Owner's equity, in the form of the GPFG krone account, is denominated in Norwegian kroner and a share of the costs related to management of the GPFG is incurred in Norwegian kroner. Returns on the investment portfolio are reported both internally and to the owner in Norwegian kroner, while the percentage return is measured both in Norwegian kroner and in the currency basket defined by the Ministry of Finance. Furthermore, there is no single investment currency that stands out as dominant within the investment management.

#### **Accounting policy**

Foreign currency transactions are recognised in the financial statements using the exchange rate prevailing on the transaction date. Assets and liabilities in foreign currencies are translated into Norwegian kroner using the exchange rate at the balance sheet date. The foreign exchange element linked to realised and unrealised gains and losses on assets and liabilities is disaggregated in the income statement and presented on a separate line, Foreign exchange gain/loss. This presentation is considered to provide the best informational value, based on the objective of the investment strategy of the GPFG which is to maximise the international purchasing power of the fund.

#### **Accounting policy**

Gains and losses on financial instruments are due to changes in the price of the instrument (security element) and changes in foreign exchange rates (foreign exchange element). These are presented separately in the income statement. The method used to allocate the total gain/loss in Norwegian kroner to a security element and a foreign exchange element is described below.

#### Foreign exchange element

Unrealised gain/loss due to changes in foreign exchange rates is calculated based on the cost of the holding in foreign currency and the change in the exchange rate from the time of purchase until the balance sheet date. If the holding has been purchased in a prior period, previously recognised gain/loss is deducted to arrive at the gain/loss in the current period. Upon realisation, the exchange rate on the date of sale is used when calculating the realised gain/loss.

#### Security element

Unrealised gain/loss due to changes in the security price is calculated based on the change in the security price from the purchase date to the balance sheet date, and the exchange rate at the balance sheet date. If the holding has been purchased in a prior period, previously recognised gain/loss is deducted to arrive at the gain/loss in the current period. Upon realisation, the selling price is used when calculating the realised gain/loss.

The change in the fund's market value due to changes in foreign exchange rates is presented in table 11.1.

 Table 11.1
 Specification foreign exchange gain/loss

Amounts in NOK million 2023	2022
Foreign exchange gain/loss - USD/NOK 114 262	445 752
Foreign exchange gain/loss - EUR/NOK 150 575	100 638
Foreign exchange gain/loss - GBP/NOK 64 611	-6 685
Foreign exchange gain/loss - JPY/NOK -33765	-11 871
Foreign exchange gain/loss - CHF/NOK 43197	28 912
Foreign exchange gain/loss - other 70 561	85104
Foreign exchange gain/loss 409 441	641 850

Table 11.2 gives an overview of the distribution of the market value of the investment portfolio for the main currencies the GPFG is exposed to. This supplements the overview of the allocation by asset class, country and currency shown in table 9.2 in note 9 Investment risk.

**Table 11.2** Specification of the investment portfolio by currency

Amounts in NOK million	31.12.2023	31.12.2022
US dollar	7 765 611	5706838
Euro	2 836 773	2301709
British pound	1079 685	936 868
Japanese yen	939 710	804707
Swiss franc	593 279	502 895
Other currencies <sup>1</sup>	2 549 740	2176 043
Market value investment portfolio	15 764 797	12 429 059

From 2023, Deferred tax is not included as part of the investment portfolio.

Table 11.3 gives an overview of exchange rates at the balance sheet date for the main currencies the GPFG is exposed to.

Table 11.3Exchange rates

	31.12.2023	31.12.2022	Percent change
US dollar	10.17	9.85	3.3
Euro	11.24	10.51	6.9
British pound	12.93	11.85	9.2
Japanese yen	0.07	0.07	-3.7
Swiss franc	12.14	10.65	14.0

# GPFG Note 12 Management costs

#### **Accounting policy**

Management fee is recognised in the GPFG's income statement as an expense when incurred.

Performance-based fees to external managers are based on achieved excess returns relative to the applicable benchmark index over time. The provision for performance-based fees is based on the best estimate of the incurred fee to be paid. The effect of changes in estimates is recognised in profit or loss in the current period.

Management costs comprise all costs relating to the management of the fund. These are mainly incurred in Norges Bank, but management costs are also incurred in subsidiaries of Norges Bank that are exclusively established as part of the management of the GPFG's investments in unlisted real estate and unlisted renewable energy infrastructure.

#### Management costs in Norges Bank

The Ministry of Finance reimburses Norges Bank for costs incurred in connection with the management of the GPFG, in the form of a management fee. The management fee is equivalent to the actual costs incurred by Norges Bank, including performance-based fees to external managers, and is expensed in the income statement line Management fee. Costs included in the management fee are specified in table 12.1.

Table 12.1 Management fee

	2023		2022	
Amounts in NOK million		Basis points		Basis points
Salary, social security and other personnel-related costs	2 045		1579	
Custody costs	464		473	
IT services, systems, data and information	773		632	
Research, consulting and legal fees	269		247	
Other costs	276		274	
Allocated costs Norges Bank	256		339	
Base fees to external managers	1205		963	
Management fee excluding performance-based fees	5 289	3.6	4 508	3.8
Performance-based fees to external managers	1343		718	
Management fee	6 632	4.5	5 226	4.4

#### Management costs in subsidiaries

Management costs incurred in wholly-owned subsidiaries consist of costs related to the management of the investments in unlisted real estate and unlisted renewable energy infrastructure. These costs are expensed directly in the portfolio result and are not part of the management fee.

Management costs incurred in non-consolidated subsidiaries are presented in the income statement lines Income/ expense from unlisted real estate and Income/expense from unlisted infrastructure. Management costs incurred in consolidated subsidiaries are presented in the income statement line Other income/expense. These costs are specified in table 12.2.

**Table 12.2** Management costs subsidiaries

	2023		2022	
Amounts in NOK million		Basis oints		Basis points
Salary, social security and other personnel-related costs	34		30	
IT services, systems, data and information	5		4	
Research, consulting and legal fees	52		38	
Other costs	58		42	
Total management costs, subsidiaries <sup>1</sup>	148	0.1	114	0.1
Of which management costs non-consolidated subsidiaries	89		71	
Of which management costs consolidated subsidiaries	59		43	

<sup>&</sup>lt;sup>1</sup> For 2023, the amount consists of NOK 141 million related to investments in unlisted real estate and NOK 7 million related to investments in unlisted energy infrastructure. For 2022, NOK 108 million was related to investments in unlisted real estate and NOK 6 million was related to investments in unlisted infrastructure.

#### Upper limit for reimbursement of management costs

Every year the Ministry of Finance establishes an upper limit for the reimbursement of management costs. Norges Bank is only reimbursed for costs incurred within this limit. Norges Bank is also reimbursed for performance-based fees to external managers. These fees are not measured against the upper limit.

For 2023, total management costs incurred in Norges Bank and its subsidiaries, excluding performance-based fees to external managers, were limited to NOK 6 200 million. In 2022, the limit was NOK 5 600 million.

Total management costs measured against the upper limit amounted to NOK 5 437 million in 2023. This consisted of management costs in Norges Bank, excluding performance-based fees to external managers, of NOK 5 289 million and management costs in subsidiaries of NOK 148 million. Total management costs including performance-based fees to external managers amounted to NOK 6 781 million in 2023.

#### Costs measured as a share of assets under management

Costs are also measured in basis points, as a share of average assets under management. Average assets under management are calculated based on the market value of the portfolio in Norwegian kroner at the start of each month in the calendar year.

In 2023, management costs incurred in Norges Bank and its subsidiaries, excluding performance-based fees to external managers, corresponded to 3.7 basis points of assets under management. Management costs including performance-based fees to external managers corresponded to 4.6 basis points of assets under management.

#### Other operating costs in subsidiaries

In addition to the management costs presented in table 12.2, other operating costs are also incurred in subsidiaries related to the ongoing maintenance, operation and development of the investments. These are not costs related to investing in real estate or renewable energy infrastructure but are costs for operating the underlying investments once they are acquired. Therefore, they are not defined as management costs. Other operating costs are expensed directly in the portfolio result and are not part of the management fee. They are also not included in the costs measured against the upper limit.

Other operating costs incurred in non-consolidated subsidiaries are presented in the income statement lines Income/expense from unlisted real estate and Income/expense from unlisted infrastructure. For further information, see table 6.4 in <a href="note 6 Unlisted real estate">note 6 Unlisted real estate</a> and table 7.4 in <a href="note 7 Unlisted renewable energy infrastructure">note 7 Unlisted renewable energy infrastructure</a>. Other operating costs incurred in consolidated subsidiaries are presented in the income statement line Other income/expense.

# GPFG Note 13 Secured lending and borrowing

Secured lending and borrowing consists of collateralised (secured) transactions, where the GPFG posts or receives securities or cash to or from a counterparty, with collateral in the form of other securities or cash. These transactions take place under various agreements such as securities lending agreements, repurchase and reverse repurchase agreements and equity swaps in combination with purchases or sales of equities.

The objective of secured lending and borrowing is to provide an incremental return on the GPFG's holdings of securities and cash. These transactions are also used in connection with liquidity management.

#### **Accounting policy**

#### Income and expense from secured lending and borrowing

Income and expense mainly consist of interest and net fees. These are recognised on a straight-line basis over the term of the agreement and are presented in the income statement as Income/expense from secured lending and Income/expense from secured borrowing.

**Table 13.1** Income/expense from secured lending and borrowing

Amounts in NOK million	2023	2022
Income/expense from secured lending	9 922	4 845
Income/expense from secured borrowing	-13 278	-4792
Net income/expense from secured lending and borrowing	-3 356	53

#### **Accounting policy**

#### Transferred financial assets

Securities transferred to counterparties are not derecognised when the agreement is entered into, as the derecognition criteria are not met. Since the counterparty has the right to sell or pledge the security, the security is considered to be transferred. Transferred securities are therefore presented separately in the balance sheet lines Equities lent and Bonds lent. During the lending period, the underlying securities are accounted for in accordance with accounting policies for the relevant securities.

When an equity is sold in combination with the purchase of an equivalent equity swap, the sold equity is presented in the balance sheet as Equities lent, since the GPFG's exposure to the equity is virtually unchanged. The equity swap (derivative) is not recognised in the balance sheet, since this would lead to recognition of the same rights twice. When an equity is purchased in combination with the sale of an equivalent equity swap, the GPFG has virtually no exposure to the equity or the derivative and neither the equity nor the derivative are recognised in the balance sheet.

#### Secured lending

Cash collateral posted to counterparties is derecognised, and a corresponding receivable reflecting the cash amount that will be returned is recognised as a financial asset, Secured lending. This receivable is measured at fair value.

#### Secured borrowing

Cash collateral received is recognised as Deposits in banks together with a corresponding financial liability, Secured borrowing. This liability is measured at fair value.

#### Collateral received in the form of securities

Collateral received through secured lending and borrowing transactions in the form of securities, where the GPFG has the right to sell or pledge the security, is not recognised in the balance sheet.

Table 13.2 shows the amount presented as Secured lending, and the associated collateral received in the form of securities.

Table 13.2Secured lending

Amounts in NOK million	31.12.2023	31.12.2022
Secured lending	728 559	462 982
Total secured lending	728 559	462 982
Associated collateral in the form of securities (off balance sheet)		
Equities received as collateral	273 558	169 631
Bonds received as collateral <sup>1</sup>	486798	303 525

<sup>1</sup> At year-end 2023, bonds received as collateral amounting to NOK 2.6 billion were sold. At year-end 2022, no securities received as collateral were sold or repledged.

Table 13.3 shows transferred securities with the associated liability presented as Secured borrowing, and collateral received in the form of securities or guarantees.

 Table 13.3
 Transferred financial assets and secured borrowing

Amounts in NOK million	31.12.2023	31.12.2022
Transferred financial assets and secured borrowing		
Equities lent	493 949	451799
Bonds lent	1 0 0 6 7 1 1	886 555
Total transferred financial assets	1500 660	1338354
Associated cash collateral, recognised as liability		
Secured borrowing	911 548	796 082
Total secured borrowing	911 548	796 082
Associated collateral in the form of securities or guarantees (off balance sheet)		
Equities received as collateral	264 550	226 054
Bonds received as collateral	360 945	342 978
Guarantees	4 544	19 953
Total collateral received in the form of securities or guarantees related to transferred financial assets	630 039	588 985

# GPFG Note 14 Collateral and offsetting

#### **Accounting policy**

#### Cash collateral derivative transactions

Cash collateral posted in connection with derivative transactions is derecognised and a corresponding receivable, reflecting the cash amount that will be returned, is recognised in the balance sheet as Cash collateral posted. Cash collateral received in connection with derivative transactions is recognised in the balance sheet as Deposits in banks, with a corresponding liability Cash collateral received. Both Cash collateral posted and Cash collateral received are measured at fair value.

#### Offsetting

Financial assets and liabilities are offset and presented net in the balance sheet when there is a legal right to offset and the intention is to settle net or realise the asset and settle the liability simultaneously.

#### Collateral

For various counterparties and transaction types, cash collateral will both be posted to and received from the same counterparty. Therefore, received cash collateral can be netted against posted cash collateral and vice-versa as shown in table 14.1. The balance sheet lines Cash collateral posted and Cash collateral received are related exclusively to derivative transactions. Collateral in the form of cash or securities is also posted and received in connection with secured lending and borrowing transactions. See note 13 Secured lending and borrowing for further information.

#### Offsetting

Table 14.1 provides an overview of financial assets and liabilities, the effects of legally enforceable netting agreements and related collateral to reduce counterparty risk. The column Assets/Liabilities in the balance sheet subject to netting shows the carrying amounts of financial assets and liabilities that are subject to legally enforceable netting agreements. These amounts are adjusted for the effect of potential netting of financial assets and liabilities recognised in the balance sheet with the same counterparty, together with posted or received cash collateral. This results in a net exposure, which is shown in the column Assets/Liabilities after netting and collateral.

Some netting agreements could potentially not be legally enforceable. Transactions under the relevant contracts are shown in the column Assets/Liabilities not subject to enforceable netting agreements.

In the event of counterparty default, a collective settlement between Norges Bank and the bankruptcy estate could be agreed for certain groups of instruments, irrespective of whether the instruments belong to the GPFG or Norges Bank's foreign exchange reserves. Such a settlement will be allocated proportionately between these portfolios and is therefore not adjusted for in the table.

 Table 14.1
 Assets and liabilities subject to netting agreements

Amounts in NOK million, 31.12.2023					Amounts subject to enforceable master netting agree				eements
Description	Gross financial assets recognised in the balance sheet	Gross financial liabilities offset in the balance sheet	Net financial assets in the balance sheet	Assets not subject to enforceable netting agreements <sup>1</sup>	Assets in the balance sheet subject to netting	Financial liabilities related to same counterparty	Cash collateral received (recognised as liability)	Security collateral received (not recognised)	Assets after netting and collateral
Assets									_
Secured lending	728 559	-	728 559	277 351	451208	-	231221	219 987	-
Cash collateral posted	19 361	-	19 361	-	19 361	13 715	-	-	5 646
Financial derivatives	22 833	3 640	19 192	178	19 013	17 719	27	-	1267
Total	770 753	3 640	767 112	277 529	489 582	31434	231 248	219 987	6 913

Amounts in NOK million, 31.12.2023					Amounts subject to enforceable master netting agreements				
Description	Gross financial liabilities recognised in the balance sheet	Gross financial assets offset in the balance sheet	Net financial liabilities in the balance sheet	Liabilities not subject to enforceable netting agreements <sup>2</sup>	Liabilities in the balance sheet subject to netting	Financial assets related to same counterparty	Cash collateral posted (recognised as asset)	Security collateral posted (not derecognised)	Liabilities after netting and collateral
Liabilities									
Secured borrowing	911 548	-	911 548	175 895	735 653	-	231 221	501947	2 484
Cash collateral received	28754	-	28 754	24771	3 983	2859	-	-	1123
Financial derivatives	36 695	3 640	33 055	29	33 027	17 719	10 497	-	4 810
Total	976 997	3 640	973 357	200 695	772 663	20 578	241718	501947	8 417

Amounts in NOK million, 31.12.2022					Amounts subject to enforceable master netting agreements				
Description	Gross financial assets recognised in the balance sheet	Gross financial liabilities offset in the balance sheet <sup>3</sup>	Net financial assets in the balance sheet	Assets not subject to enforceable netting agreements <sup>1</sup>	Assets in the balance sheet subject to netting	Financial liabilities related to same counterparty	Cash collateral received (recognised as liability)	Security collateral received (not recognised)	Assets after netting and collateral
Assets									
Secured lending	462 982	-	462 982	137 371	325 611	-	151 451	174 150	10
Cash collateral posted	21 601	-	21 601	-	21 601	18 699	-	-	2 901
Financial derivatives	21238	740	20 498	495	20 004	19 619	386	-	-
Total	505 820	740	505 080	137 866	367 215	38 318	151 837	174 150	2 912

Amounts in NOK million, 31.12.2022					Amounts subject to enforceable master netting agreeme				eements
Description	Gross financial liabilities recognised in the balance sheet	Gross financial assets offset in the balance sheet <sup>3</sup>	Net financial liabilities in the balance sheet	Liabilities not subject to enforceable netting agreements <sup>2</sup>	Liabilities in the balance sheet subject to netting	Financial assets related to same counterparty	Cash collateral posted (recognised as asset)	Security collateral posted (not derecognised)	Liabilities after netting and collateral
Liabilities									
Secured borrowing	796 082	-	796 082	210 665	585 417	-	151 451	431960	2006
Cash collateral received	14 801	-	14 801	-	14 801	11 211	-	-	3590
Financial derivatives	40 899	740	40 159	34	40 124	19 619	15 170	-	5 3 3 5
Total	851782	740	851 042	210 699	640 342	30 830	166 621	431960	10 931

Secured lending includes amounts related to shares purchased in combination with equity swaps. In 2023, this amounted to NOK 250 billion (NOK 104 billion in 2022). See note 13 Secured lending and borrowing for further information.

<sup>&</sup>lt;sup>2</sup> Secured borrowing includes amounts related to shares sold in combination with equity swaps. In 2023, this amounted to NOK 132 billion (NOK 105 billion in 2022). See note 13 Secured lending and borrowing for further information.

<sup>&</sup>lt;sup>3</sup> Gross amounts offset in the balance sheet have been restated due to a reassessment of exchange traded futures contracts and associated cash collateral. Variation margin and exchange traded futures contracts are now recognised gross, but are considered to satisfy the criteria for offsetting in IAS 32 and are therefore presented net in the balance sheet. The change has no impact on the net amounts presented in the balance sheet.

## **GPFG Note 15** Related parties

#### **Accounting policy**

Norges Bank is owned by the Norwegian government and is, in line with IAS 24 Related party disclosures, exempt from the disclosure requirements pertaining to related party transactions and outstanding balances, including commitments, with the Norwegian government. This includes transactions with other entities that are related parties because the Norwegian government has control of, joint control of, or significant influence over both Norges Bank and the other entities.

Norges Bank, including the GPFG, is a separate legal entity that is wholly state-owned through the Ministry of Finance. See <a href="mailto:note1General information">note1General information</a> for information regarding the relationship between the Ministry of Finance, Norges Bank and the GPFG. The GPFG conducts all transactions at market terms.

#### Transactions with the government

The Ministry of Finance has placed funds for investment in the GPFG in the form of a Norwegian krone deposit with Norges Bank (the krone account). The krone deposit is subsequently placed with Norges Bank Investment Management for investment management. In accordance with the management mandate, transfers are made to and from the krone account. See additional information regarding the inflow/withdrawal for the period in the Statement of changes in owner's capital.

#### **Transactions with Norges Bank**

Norges Bank does not bear any economic risk from the management of the GPFG.

#### Management fee

The Ministry of Finance reimburses Norges Bank for costs incurred in connection with the management of the GPFG in the form of a management fee. See <a href="note12 Management costs">note 12 Management costs</a> for further information. The management fee is deducted from the krone account throughout the year based on forecasts. The difference between the total amount deducted and the final management fee for the year is presented in the balance sheet as Management fee receivable or Management fee payable and is settled in the following year. In 2023, NOK 6.5 billion was deducted from the krone account to pay the accrued management fee, while NOK 5.0 billion was deducted in 2022. Management fee receivable was NOK 168 million at the end of 2023, compared to a receivable of NOK 274 million at the end of 2022.

#### Inflows to or withdrawals from the krone account

Inflows to or withdrawals from the krone account are carried out through monthly transfers between the GPFG and Norges Bank. Five percent of the transferred amount is withheld until the following month, in order to adjust the transferred amount in transaction currency to the instructed amount stated in Norwegian kroner from the Ministry of Finance. Unsettled transfer constitutes an outstanding balance between the GPFG and Norges Bank, and is presented in the balance sheet line Other assets or Other liabilities. Unsettled inflow at the end of 2023 presented in Other assets amounted to NOK 2 365 million. At the end of 2022, NOK 1 468 million was presented in Other assets related to unsettled inflow.

#### Transactions between the GPFG and Norges Bank's foreign exchange reserves

Internal trades in the form of money market lending or borrowing between the GPFG and Norges Bank's foreign exchange reserves are presented as a net balance between the two portfolios in the balance sheet lines Other assets and Other liabilities. At the end of 2023, the net balance between the portfolios represented a receivable for the GPFG of NOK 59 million, compared to a receivable of NOK 302 million at the end of 2022. Related income and expense items are presented net in the income statement as Interest income/expense.

#### Transactions with subsidiaries

Subsidiaries of Norges Bank are established as part of the management of the GPFG's investments in unlisted real estate and unlisted renewable energy infrastructure. For an overview of the companies that own and manage the investments, as well as consolidated subsidiaries, see <a href="note 16">note 16</a> Interests in other entities. For further information regarding transactions with subsidiaries, see <a href="note 6">note 6</a> Unlisted real estate and <a href="note 7">note 7</a> Unlisted renewable energy infrastructure.

## **GPFG Note 16** Interests in other entities

Investments in unlisted real estate and unlisted renewable energy infrastructure are made through subsidiaries of Norges Bank, exclusively established as part of the management of the GPFG. All subsidiaries are 100 percent owned. These subsidiaries invest, through holding companies, in entities that invest in properties and renewable energy infrastructure. These entities may be subsidiaries or jointly controlled entities.

The overall objective of the ownership structures used for investments in unlisted real estate and unlisted infrastructure is to safeguard the financial wealth under management and to ensure the highest possible net return after costs, in accordance with the management mandate issued by the Ministry of Finance. Key criteria when deciding the ownership structure are legal protection, governance and operational efficiency. Taxes may represent a significant cost for the unlisted investments. Expected tax expense for the fund is therefore one of the factors considered when determining the ownership structure.

Table 16.1 shows the companies that own and manage the properties and infrastructure assets, as well as consolidated subsidiaries.

Table 16.1 Real estate and infrastructure companies

Company	Business address	Property address <sup>1</sup>	Ownership share and voting right in percent	Effective ownership share of underlying properties in percent	Recognised from
Non-consolidated companies					
<b>United Kingdom</b>					
NBIM George Partners LP <sup>2</sup>	London	London	100.00	25.00	2011
MSC Property Intermediate Holdings Limited	London	Sheffield	50.00	50.00	2012
NBIM Charlotte Partners LP	London	London	100.00	57.75	2014
NBIM Edward Partners LP	London	London	100.00	100.00	2014
NBIM Caroline Partners LP	London	London	100.00	100.00	2015
NBIM Henry Partners LP	London	London	100.00	100.00	2016
NBIM Elizabeth Partners LP	London	London	100.00	100.00	2016
NBIM Eleanor Partners LP	London	London	100.00	100.00	2018
WOSC Partners LP	London	London	75.00	75.00	2019
PELP UK Limited	Solihull	Multiple British cities	50.00	50.00	2022
Longfellow Strategic Value UK1LP	Bristol	Cambridge	48.75	48.75	2022
Luxembourg					
NBIM S.à r.l.	Luxembourg	N/A	100.00	N/A	2011
France					
NBIM Louis SAS	Paris	Paris	100.00	50.00	2011
SCI16 Matignon	Paris	Paris	50.00	50.00	2011
Champs Elysées Rond-Point SCI	Paris	Paris	50.00	50.00	2011
SCI PB 12	Paris	Paris	50.00	50.00	2011
SCI Malesherbes	Paris	Paris	50.00	50.00	2012
SCI 15 Scribe	Paris	Paris	50.00	50.00	2012
SAS 100 CE	Paris	Paris	50.00	50.00	2012
SCI Daumesnil	Paris	Paris	50.00	50.00	2012
SCI9 Messine	Paris	Paris	50.00	50.00	2012

	Business		Ownership share and voting right in	Effective ownership share of underlying properties in	Recognised
SCI Pasquier	address Paris	Property address <sup>1</sup> Paris	percent 50.00	percent 50.00	from 2013
NBIM Marcel SCI	Paris	Paris	100.00	100.00	2013
NBIM Victor SCI	Paris	Paris	100.00		2014
NBIM Eugene SCI				100.00	
	Paris	Paris	100.00	100.00	2017
NBIM Jeanne CCI	Paris	Paris	100.00	100.00	2018
NBIM Jeanne SCI	Paris	Paris	100.00	100.00	2019
Rodolphe Paris 1 SCI	Paris	Paris	65.00	65.00	2022
Germany					
NKE Neues Kranzler Eck Berlin Immobilien GmbH & Co. KG	Frankfurt	Berlin	50.00	50.00	2012
NBIM Helmut 2 GmbH & Co KG	Berlin	Berlin	100.00	100.00	2020
Sochribel GmbH	Berlin	Berlin	50.00	50.00	2022
Rodolphe Berlin 1 GmbH	Berlin	Berlin	65.00	65.00	2023
He Dreith Investor GmbH	Karlsruhe	He Dreiht	33.33	16.63	2023
Switzerland					
NBIM Antoine CHF S.à r.l.	Luxembourg	Zürich	100.00	100.00	2012
Prologis European Logistics Partners S.à r.l.	Luxembourg	Multiple European cities	50.00	50.00	2013
United States					
T-C 1101 Pennsylvania Venture LLC	Wilmington, DE	Washington	49.90	49.90	2013
T-C Franklin Square Venture LLC	Wilmington, DE	Washington	49.90	49.90	2013
T-C 33 Arch Street Venture LLC	Wilmington, DE	Boston	49.90	49.90	2013
No.1Times Square Development LLC	Wilmington, DE	New York	45.00	45.00	2013
OFC Boston LLC	Wilmington, DE	Boston	47.50	47.50	2013
425 MKT LLC	Wilmington, DE	San Francisco	47.50	47.50	2013
555 12th LLC	Wilmington, DE	Washington	47.50	47.50	2013
Prologis U.S. Logistics Venture LLC	Wilmington, DE	Multiple American cities	46.30	44.96	2014
OBS Boston LLC	Wilmington, DE	Boston	47.50	47.50	2014
100 Federal JV LLC	Wilmington, DE	Boston	45.00	45.00	2014
Atlantic Wharf JV LLC	Wilmington, DE	Boston	45.00	45.00	2014
BP/CG Center MM LLC	Wilmington, DE	New York	45.00	45.00	2014
T-C 2 Herald Square Venture LLC	Wilmington, DE	New York	49.90	49.90	2014
T-C 800 17th Street Venture NW LLC	Wilmington, DE	Washington	49.90	49.90	2014
T-C Foundry Sq II Venture LLC	Wilmington, DE	San Francisco	49.90	49.90	2014
T-C Hall of States Venture LLC	Wilmington, DE	Washington	49.90	49.90	2014
SJP TS JV LLC	Wilmington, DE	New York	45.00	45.00	2015

Company	Business address	Property address <sup>1</sup>	Ownership share and voting right in percent	Effective ownership share of underlying properties in percent	Recognised from
T-C Republic Square Venture LLC	Wilmington, DE	Washington	49.90	49.90	2015
T-C 888 Brannan Venture LLC	Wilmington, DE	San Francisco	49.90	49.90	2015
Hudson Square Properties, LLC	Wilmington, DE	New York	48.00	48.00	2015
ConSquare LLC	Wilmington, DE	Washington	47.50	47.50	2016
100 First Street Member LLC	Wilmington, DE	San Francisco	44.00	44.00	2016
303 Second Street Member LLC	Wilmington, DE	San Francisco	44.00	44.00	2016
900 16th Street Economic Joint Venture (DE) LP	Wilmington, DE	Washington	49.00	49.00	2017
1101 NYA Economic Joint Venture (DE) LP	Wilmington, DE	Washington	49.00	49.00	2017
375 HSP LLC	Wilmington, DE	New York	48.00	48.00	2017
T-C 501 Boylston Venture LLC	Wilmington, DE	Boston	49.90	49.90	2018
SVF Seaport JV LLC	Wilmington, DE	Boston	45.00	45.00	2018
OMD Venture LLC	Wilmington, DE	Boston	47.50	47.50	2021
ARE-MA Region No. 102 JV LLC	Wilmington, DE	Boston	41.00	41.00	2021
JV 347 Madison LLC	Wilmington, DE	New York	45.00	45.00	2023
300 Binney JV LLC	Wilmington, DE	Boston	45.00	45.00	2023
Japan					
TMK Tokyo TN1	Tokyo	Tokyo	70.00	70.00	2017
Tokyo MN1 TMK	Tokyo	Tokyo	100.00	39.90	2020
Netherlands					
Borssele Wind Farm C.V.	The Hague	Borssele1&2	50.00	50.00	2021
Spain					
Energías Renovables Romeo, S.L	Madrid	Multiple locations	49.00	49.00	2023
Consolidated subsidiaries					
Japan					
NBRE Management Japan Advisors K.K.	Tokyo	N/A	100.00	N/A	2015
United Kingdom					
NBRE Management Europe Limited	London	N/A	100.00	N/A	2016

<sup>1</sup> For investments in unlisted real estate, the property address is shown. For investments in unlisted infrastructure, the project name is shown.

Activity in the consolidated subsidiaries consists of providing investment-related services to the GPFG. This activity is presented in the income statement line Other costs and included in the balance sheet lines Other assets and Other liabilities.

In addition to the companies shown in table 16.1, Norges Bank has wholly-owned holding companies established in connection with investments in unlisted real estate and unlisted renewable energy infrastructure. These holding companies do not engage in any operations and do not own any properties or infrastructure assets directly. The holding companies have their business address either in the same country as the investments, in connection with NBIM S.à r.l. in Luxembourg, or in Norway for the holding companies established for investments in Japan and continental Europe.

 $<sup>^{2}</sup>$  One property in this company, 20 Air Street, has an ownership share of 50 percent.

# GPFG Note 17 Other assets and other liabilities

Table 17.1 Other assets

Amounts in NOK million	31.12.2023	31.12.2022
Net balance Norges Bank's foreign exchange reserves <sup>1</sup>	59	302
Unsettled inflow krone account <sup>1</sup>	2365	1468
Accrued income from secured lending	245	227
Other	83	20
Other assets	2752	2 017

<sup>&</sup>lt;sup>1</sup> See <u>note 15 Related parties</u> for further information.

#### **Table 17.2** Other liabilities

Amounts in NOK million	31.12.2023	31.12.2022
Tax payable	15	12
Other	97	44
Other liabilities	112	56

# Reports, resolution and statements Financial statements



# Independent auditor's report

To the Supervisory Council of Norges Bank

#### **Opinion**

We have audited the financial statements of Norges Bank, which comprise the balance sheet as at 31 December 2023, the income statement, statement of changes in equity and statement of cash flows for the year then ended, and notes to the financial statements, including a summary of significant accounting policies.

In our opinion, the financial statements comply with applicable legal requirements and give a true and fair view of the financial position of Norges Bank as at 31 December 2023 and its financial performance and cash flows for the year then ended in accordance with the Regulation concerning annual financial reporting for Norges Bank. The Regulation requires the financial statements for Norges Bank to be prepared in accordance with IFRS Accounting Standards as adopted by the EU, with certain specific presentation requirements for the investment portfolio

#### Basis for opinion

We conducted our audit in accordance with International Standards on Auditing (ISAs). Our responsibilities under those standards are further described in the Auditor's responsibilities for the audit of the financial statements section of our report. We are independent of Norges Bank in accordance with the requirements of the relevant laws and regulations in Norway and the International Ethics Standards Board for Accountants' International Code of Ethics for Professional Accountants (including International Independence Standards) (IESBA Code), and we have fulfilled our other ethical responsibilities in accordance with these requirements. We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our opinion.

#### **Key audit matters**

Key audit matters are those matters that, in our professional judgment, were of most significance in our audit of the financial statements for 2023. These matters were addressed in the context of our audit of the financial statements as a whole, and in forming our opinion thereon, and we do not provide a separate opinion on these matters. For each matter below, our description of how our audit addressed the matter is provided in that context.

We have fulfilled the responsibilities described in the Auditor's responsibilities for the audit of the financial statements section of our report, including in relation to these matters. Accordingly, our audit included the performance of procedures designed to respond to our assessment of the risks of material misstatement of the financial statements. The results of our audit procedures, including the procedures performed to address the matters below, provide the basis for our audit opinion on the financial statements.

#### Valuation of investments

#### Basis for the key audit matter

Listed investments measured at fair value in the equity and fixed income portfolios in the foreign exchange reserves in Norges Bank's central banking operations and the investment portfolio of the Government Pension Fund Global (hereinafter "the GPFG") are valued at market price if the investment is traded in what is considered to be an active market. These investments are classified as level 1 assets in the valuation hierarchy. Listed investments valued using models that use directly or indirectly observable market data are classified as level 2 assets. Investments classified in level 1 and 2 of the valuation hierarchy as of 31.12 amounts to NOK 689 781 million and NOK 15 444 244 million for the foreign exchange reserves and the GPFG, respectively.

Investments valued based on models which mainly use inputs that are not observable in the market place, are classified as level 3 assets in the valuation hierarchy. These valuations are to a larger extent influenced by judgmental assessments and therefore have a higher inherent risk of misstatement. As of 31.12 these assets in the GPFG amount to NOK 320 554 million

Investments measured at fair value in the foreign exchange reserves and the GPFG constitute the most material share of assets as at 31.12. The material amount, the measurement at fair value with occasional use of judgments and the classification to levels 1, 2 or 3 respectively in the fair value hierarchy, and the fact that the GPFG's return on investment measurement follows from these valuations, we have considered these investments to be a key audit matter.

The foreign exchange reserves measured at fair value are disclosed in note 6. The investments in the GPFG are disclosed in Note 20, "GPFG Note 8" and "GPFG Note 3".

#### Our audit response

For both listed and unlisted investments, we assessed the design and tested the operating effectiveness of internal controls over valuation processes, including controls over management's determination and approval of the methodology and assumptions used for valuation. For listed investments, we furthermore compared the recognized value at the balance sheet date, against the external market price.

Our audit procedures for unlisted level 3 investments also comprised management's use of external experts and valuations, including the experts' expertise and objectivity. We have used EY's internal valuation specialists to review assumptions and calculations of valuation reports on a sample basis.

We have furthermore evaluated the design and tested the operating effectiveness of internal controls over the classification in the fair value hierarchy. For a sample of investments, we have tested the detailed classification in levels 1, 2 and 3 in the fair value hierarchy.

#### IT systems that support financial reporting

#### Basis for the key audit matter

Norges Bank has a complex and automated IT environment and is dependent on IT processes for reporting financial information. To ensure complete and accurate processing and reporting of financial information, it is important that controls over access management and system changes are designed and operate effectively. Key IT processes are also dependent on a well-functioning control environment at external service providers. IT systems that support financial reporting are considered to be a key audit matter as the IT environment is important to ensure accuracy, completeness and reliable financial reporting.

#### Our audit response

We obtained an understanding of Norges Bank's IT systems, IT environment and controls of importance to the financial reporting. We tested IT general controls over access management, system changes and IT operations. Further, we tested automated controls in the IT environment supporting financial reporting.

For relevant IT systems managed by external service providers, we evaluated third-party systems and organizations controls reports (ISAE 3402 reports) for the service provider's control environment. We further assessed the design and tested the operating effectiveness of Norges Bank's own controls relating to outsourced services. We have used our own IT specialists in our work to understand the organization's IT environment as well as in assessing the design of control activities and conducting the testing of the operating effectiveness of controls.

#### Other information

Other information consists of the information included in the annual report other than the financial statements and our auditor's report thereon. The Executive Board and the Governor (management) is responsible for the other information. Our opinion on the financial statements does not cover the other information, and we do not express any form of assurance conclusion thereon.

In connection with our audit of the financial statements, our responsibility is to read the other information, and, in doing so, consider whether the board of directors' report and the statement on corporate social responsibility contain the information required by applicable legal requirements and whether the other information is materially inconsistent with the financial statements or our knowledge obtained in the audit, or otherwise appears to be materially misstated. If, based on the work we have performed, we conclude that the other information is materially inconsistent with the financial statements, there is a material misstatement in this other information or that the information required by applicable legal requirements is not included in the board of directors' report or the statement on corporate social responsibility, we are required to report that fact.

We have nothing to report in this regard, and in our opinion, the board of directors' report and the statement on corporate social responsibility are consistent with the financial statements and contain the information required by applicable legal requirements.

#### Responsibilities of management for the financial statements

Management is responsible for the preparation and fair presentation of the financial statements in accordance with the Regulation concerning annual financial reporting for Norges Bank. The regulation requires the financial statements for Norges Bank to be prepared in accordance with IFRS Accounting Standards as adopted by the EU, with certain specific presentation requirements for the investment portfolio of the Government Pension Fund Global, including subsidiaries being part of the investment portfolio. Management is also responsible for such internal control as it determines necessary to enable the preparation of financial statements that are free from material misstatement, whether due to fraud or error.

In preparing the financial statements, management is responsible for assessing Norges Bank's ability to continue as a going concern, disclosing, as applicable, matters related to going concern and using the going concern basis of accounting unless management either intends to liquidate Norges Bank or to cease operations, or has no realistic alternative but to do so.

#### Auditor's responsibilities for the audit of the financial statements

Our objectives are to obtain reasonable assurance about whether the financial statements as a whole are free from material misstatement, whether due to fraud or error, and to issue an auditor's report that includes our opinion. Reasonable assurance is a high level of assurance, but is not a guarantee that an audit conducted in accordance with ISAs will always detect a material misstatement when it exists. Misstatements can arise from fraud or error and are considered material if, individually or in the aggregate, they could reasonably be expected to influence the economic decisions of users taken on the basis of these financial statements.

As part of an audit in accordance with ISAs, we exercise professional judgment and maintain professional scepticism throughout the audit. We also:

- Identify and assess the risks of material misstatement of the financial statements, whether due to fraud or error, design
  and perform audit procedures responsive to those risks, and obtain audit evidence that is sufficient and appropriate to
  provide a basis for our opinion. The risk of not detecting a material misstatement resulting from fraud is higher than for
  one resulting from error, as fraud may involve collusion, forgery, intentional omissions, misrepresentations, or the
  override of internal control.
- Obtain an understanding of internal control relevant to the audit in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the Norges Bank's internal control.
- Evaluate the appropriateness of accounting policies used and the reasonableness of accounting estimates and related disclosures made by management.
- Conclude on the appropriateness of management's use of the going concern basis of accounting and, based on the audit evidence obtained, whether a material uncertainty exists related to events or conditions that may cast significant doubt on Norges Bank's ability to continue as a going concern. If we conclude that a material uncertainty exists, we are required to draw attention in our auditor's report to the related disclosures in the financial statements or, if such disclosures are inadequate, to modify our opinion. Our conclusions are based on the audit evidence obtained up to the date of our auditor's report. However, future events or conditions may cause Norges Bank to cease to continue as a going concern.
- Evaluate the overall presentation, structure and content of the financial statements, including the disclosures, and whether the financial statements represent the underlying transactions and events in a manner that achieves fair presentation.

We communicate with the Executive board regarding, among other matters, the planned scope and timing of the audit and significant audit findings, including any significant deficiencies in internal control that we identify during our audit.

From the matters communicated with the Executive Board, we determine those matters that were of most significance in the audit of the financial statements of the current period and are therefore the key audit matters. We describe these matters in our auditor's report unless law or regulation precludes public disclosure about the matter or when, in extremely rare circumstances, we determine that a matter should not be communicated in our report because the adverse consequences of doing so would reasonably be expected to outweigh the public interest benefits of such communication.

Oslo, 8 February 2024 ERNST & YOUNG AS

Kjetil Rimstad State Authorised Public Accountant (Norway)

(This translation from Norwegian has been prepared for information purposes only.)

# Independent accountant's assurance report

To Norges Banks Representantskap

#### Scope

We have been engaged by Norges Bank to perform a limited assurance engagement, as defined by International Standards on Assurance Engagements, here after referred to as the engagement, to report on Norges Bank sustainability reporting as defined and presented in Norges Bank chapter "Limited assurance of sustainability indicators" in Norges Bank's Annual report (the "Subject Matter") as for the year ended 31 December 2023.

Other than as described in the preceding paragraph, which sets out the scope of our engagement, we did not perform assurance procedures on the remaining information included in the Annual report, and accordingly, we do not express a conclusion on this information.

#### Criteria applied by Norges Bank

In preparing the Subject Matter, Norges Bank applied the relevant criteria from the Global Reporting Initiative (GRI) sustainability reporting standards as well as its own defined published criteria (the "Criteria"). The Criteria can be accessed at globalreporting.org and in the Subject Matter. Such Criteria were specifically designed for companies and other organizations that want to report their sustainability impacts in a consistent and credible way. As a result, the Subject Matter information may not be suitable for another purpose.

#### Norges Bank's responsibilities

The management is responsible for selecting the Criteria, and for presenting the Subject Matter in accordance with that Criteria, in all material respects. This responsibility includes establishing and maintaining internal controls, maintaining adequate records and making estimates that are relevant to the preparation of the Subject Matter, such that it is free from material misstatement, whether due to fraud or error.

#### EY's responsibilities

Our responsibility is to express a conclusion on the presentation of the Subject Matter based on the evidence we have obtained.

We conducted our engagement in accordance with the International Standard for Assurance Engagements Other Than Audits or Reviews of Historical Financial Information ('ISAE 3000'). This standard requires that we plan and perform our engagement to obtain limited assurance about whether, in all material respects, the Subject Matter is presented in accordance with the Criteria, and to issue a report. The nature, timing, and extent of the procedures selected depend on our judgment, including an assessment of the risk of material misstatement, whether due to fraud or error.

We believe that the evidence obtained is sufficient and appropriate to provide a basis for our limited assurance conclusion.

#### Our Independence and Quality Control

We are independent of the Company and the Group in accordance with the requirements of the relevant laws and regulations in Norway and the International Ethics Standards Board for Accountants' International Code of Ethics for Professional Accountants (including International Independence Standards) (IESBA Code), and we have fulfilled our other ethical responsibilities in accordance with these requirements.

EY also applies International Standard on Quality Management 1, Quality Management for Firms that Perform Audits or Reviews of Financial Statements, or Other Assurance or Related Services engagements, which requires that we design, implement and operate a system of quality management including policies or procedures regarding compliance with ethical requirements, professional standards and applicable legal and regulatory requirements.

#### Description of procedures performed

Procedures performed in a limited assurance engagement vary in nature and timing from, and are less in extent than for, a reasonable assurance engagement. Consequently, the level of assurance obtained in a limited assurance engagement is substantially lower than the assurance that would have been obtained if a reasonable assurance engagement had been performed. Our procedures were designed to obtain a limited level of assurance on which to base our conclusion and do not provide all the evidence that would be required to provide a reasonable level of assurance.

Although we considered the effectiveness of management's internal controls when determining the nature and extent of our procedures, our assurance engagement was not designed to provide assurance on internal controls. Our procedures did not include testing controls or performing procedures relating to checking aggregation or calculation of data within IT systems.

A limited assurance engagement consists of making enquiries, primarily of persons responsible for preparing the Subject Matter and related information and applying analytical and other appropriate procedures.

Our procedures included:

- · Interviews with key personnel to understand the business and the reporting process
- Interviews with key personnel to understand the process for collecting, collating and reporting the Subject Matter during the reporting period
- Test on a sample basis the calculation Criteria against the methodologies outlined in the Criteria
- Analytical review procedures of the data
- Comparison, on a sample basis, of data with the underlying source information
- Comparison of the presentation of the Subject Matter with the presentation requirements outlined in the Criteria.

We believe that our procedures provide us with an adequate basis for our conclusion. We also performed such other procedures as we considered necessary in the circumstances.

#### Conclusion

Based on our procedures and the evidence obtained, we are not aware of any material modifications that should be made to the Subject Matter as for the year then ended in order for it to be in accordance with the Criteria.

Oslo, 8 February 2024 ERNST & YOUNG AS

This translation from Norwegian has been made for information purposes only

Kjetil Rimstad State Authorised Public Accountant

# Appendix 1

# Information in accordance with the recommendations of the Task Force on Climate-Related Financial Disclosures (TCFD)

The Task Force on Climate-Related Financial Disclosures (TCFD) has drawn up a framework for climate risk reporting. Norges Bank supports the intention of the recommendations and considers that the framework will promote more universal and consistent reporting across jurisdictions. The recommendations specify the information that should be disclosed within four areas: governance, strategy, risk management and metrics and targets.

The table provides an overview of Norges Bank's status for 2023 for Central Banking in accordance with the recommendations in the TCFD framework. See the section <u>Work on climate and climate risk in Central Banking</u> for more detailed information. See the report <u>Responsible investment Government Pension Fund Global</u> for information on TCFD and the Government Pension Fund Global.

#### Governance

TCFD requirement:

Disclose the organisation's management of climate-related risks and opportunities, including board and management involvement.

The Executive Board has primary responsibility for the Bank's strategy work related to climate change and risk.

Particular priority is given to understanding the effects of climate change and the energy transition in Norges Bank's <u>Strategy 25</u>. The strategy is operationalised in action plans and the Executive Board receives semi-annual status reports.

The Executive Board's principles for responsible investment form the basis of the management of the foreign exchange reserve. The equity portfolio of the foreign exchange reserves is managed according to the same principles and strategies for responsible investment as for equity investments in the Government Pension Fund Global.

Topics related to climate change and the impact of the energy transition on the Norwegian economy are discussed in the Monetary Policy and Financial Stability Committee.

The central bank's work related to climate change and the energy transition is coordinated in a group with representatives from all departments.

#### Strategy

TCFD requirement:

Disclose the actual and potential impact of climate-related risks and opportunities associated with the organisation's operations and strategy.

Climate change and the energy transition affect the outlook for the Norwegian and international economy. By understanding the effects of climate change and the energy transition, Norges Bank is better able to fulfil its mission. Understanding the effects of climate change and the energy transition is a focus area in Strategy 25.

The Bank will strengthen its expertise in this area and integrate climate-related factors in the Bank's analytical work. Knowledge gained will be actively shared in the Bank's publications and speeches and by participating in and organising seminars and conferences.

Climate-related assessments are increasingly influencing regulations, standards and classification of financial assets. Sound practices for assessing and managing climate risks on the Bank's own balance sheet are also an important part of Strategy 25.

#### Risk management

TCFD requirement:

Disclose how the organisation identifies, assesses and manages climate-related risks, and how this approach is integrated into the organisation's overall risk management. The Executive Board has overriding responsibility for the Bank's strategy work. Topics related to the climate and the Norwegian economy are discussed in the Monetary Policy and Financial Stability Committee, cf section on corporate governance above. To learn more about how climate related-changes affect the Norwegian economy, Norges Bank has asked enterprises in the Bank's Regional Network, over the past four years, how they are affected by climate-related factors. The results of the surveys and other analyses are communicated in the quarterly <u>Monetary Policy Report</u>, in posts on the Bank's Bankplassen blog or in other publications.

Norges Bank is working to incorporate climate risk into the Bank's analyses and include this risk in its advice on macroprudential tools where relevant.

Norges Bank's assessments of climate risk in the financial system are communicated in the <u>Financial Stability Report</u>. In 2024, Norges Bank will conduct a climate stress test of the Norwegian banking system.

Norges Bank attaches great importance to solid, quality-assured data for the purpose of analysis. A project has been initiated to identify and assess the central bank's need for climate-related data across departments. The Bank also obtains its own data through various surveys.

Norges Bank will implement sound practices for assessing and managing climate risks on the Bank's own balance sheet. Monitoring climate risk in the equity portfolio in the foreign exchange reserves is managed in the same way as for the Government Pension Fund Global. Norges Bank reviews the total exposure at portfolio level and assesses whether the Bank should divest from companies with particularly high risk, within the limits of the mandate.

#### Objectives and targets

TCFD requirement:

Disclose the metrics and targets employed when assessing climaterelated risks and opportunities. In the 2025 Climate action plan for the Government Pension Fund Global, the portfolio companies must achieve net zero emissions by 2050. This ambition applies correspondingly to the equity portfolio of the foreign exchange reserves.

The carbon footprint of the equity portfolio of the foreign exchange reserves is measured in the same way as the carbon footprint of the Government Pension Fund Global's equity portfolio. Both total emissions in the equity portfolio of the foreign exchange reserves and carbon intensity expressed in tonnes of CO<sub>2</sub> equivalent per million USD in revenue.

# Resolution of the Supervisory Council on the financial statements for 2023

Norges Bank's Supervisory Council adopted the following decision at its meeting 22 February 2024:

- The Supervisory Council takes note of the Annual Report of the Executive Board for 2023.
- The Supervisory Council takes note of the auditor's report for Norges Bank and independent accountant's assurance report.
- The Supervisory Council approves Norges Banks financial statements for 2023.
- In accordance with the guidelines, the net profit of NOK 70.0 billion is to be transferred as follows: NOK 33.4 billion to the Adjustment Fund and NOK 36.6 billion to the Transfer Fund. From the Transfer Fund, one-third, or NOK 17.6 billion, will be transferred to the Treasury.

# The Supervisory Council's statements on the minutes of the meeting of the Executive Board and its supervision of the Bank

Under the Norges Bank Act, the Supervisory Council submits a separate report to the Storting concerning its supervision of the Bank. The report for 2023 will be adopted by the Supervisory Council on 22 March 2024 and published upon submission to the Storting.



#### Norges Bank 2024

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