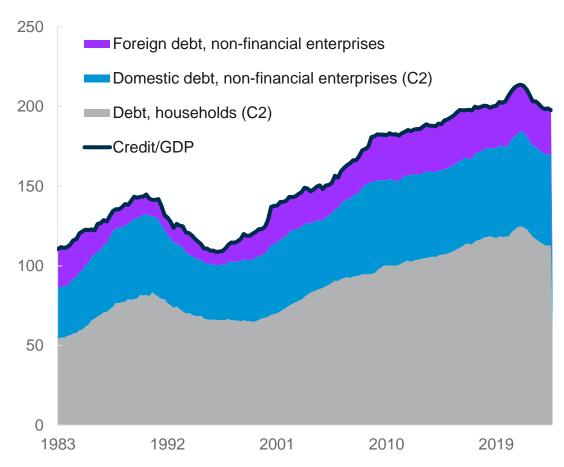
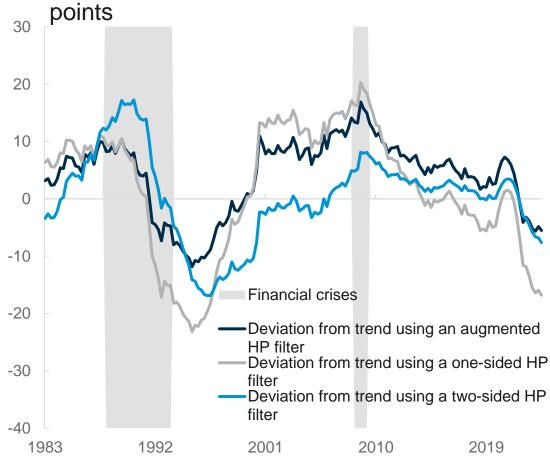
1. Credit as a share of GDP Mainland GDP. 1983 Q1 – 2023 Q3

Credit/GDP. Percent



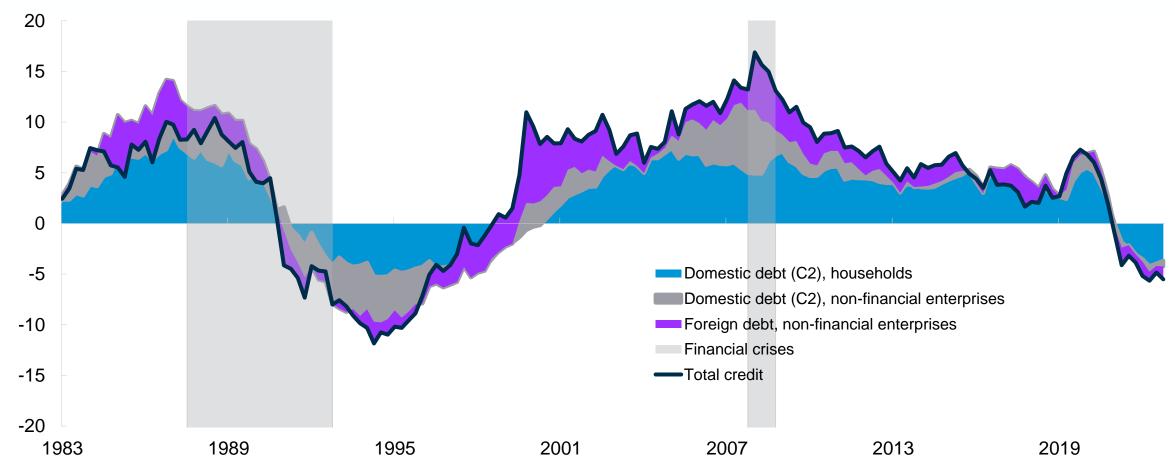
Deviation from estimated trends. Percentage



Sources: IMF, Statistics Norway and Norges Bank

2. Decomposed credit gap

Credit as a share of GDP. Mainland Norway. Gap calculated as deviation from trend. 1) Percentage points. 1983 Q1 – 2023 Q3

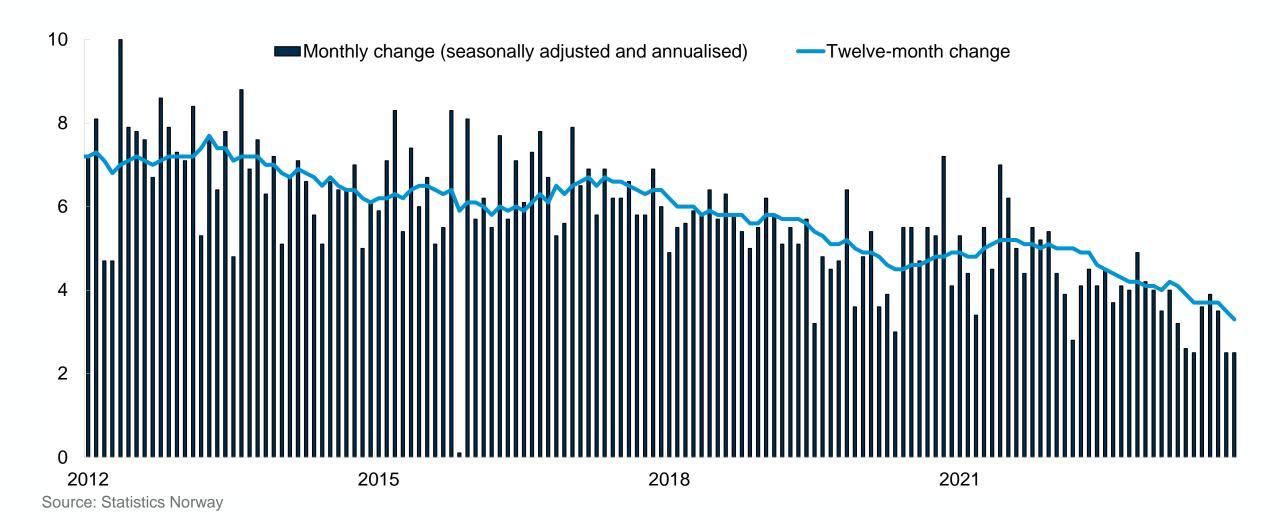


¹⁾ One-sided Hodrick-Prescottt filter estimated on data augmented with a simple projection. Lambda = 400 000 Sources: IMF, Statistics Norway andNorges Bank



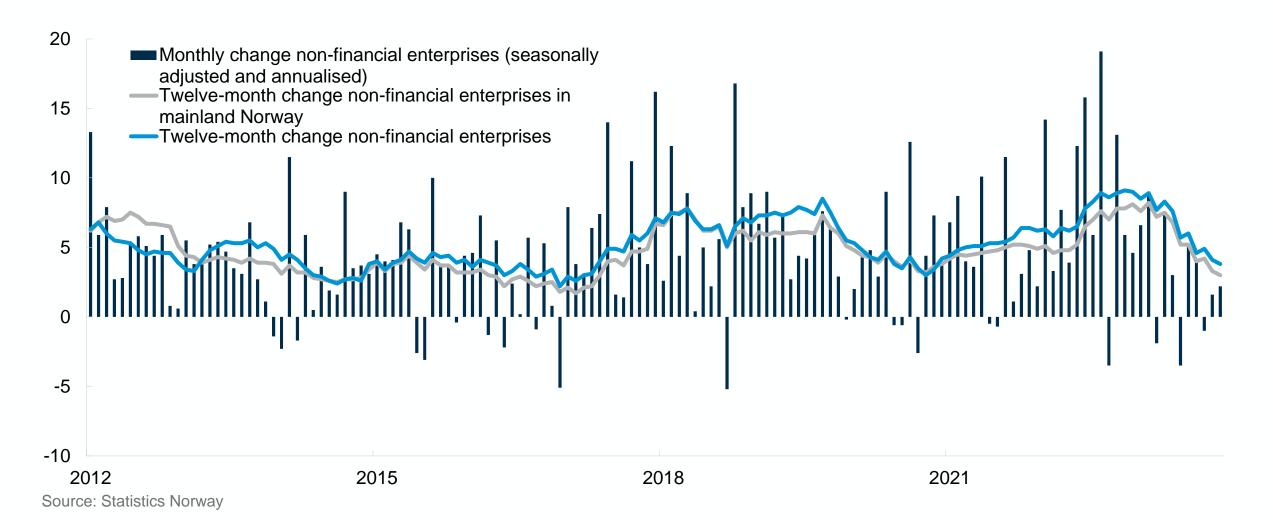
3. Household credit growth

C2. Increase in transactions. Percent. January 2012 – November 2023



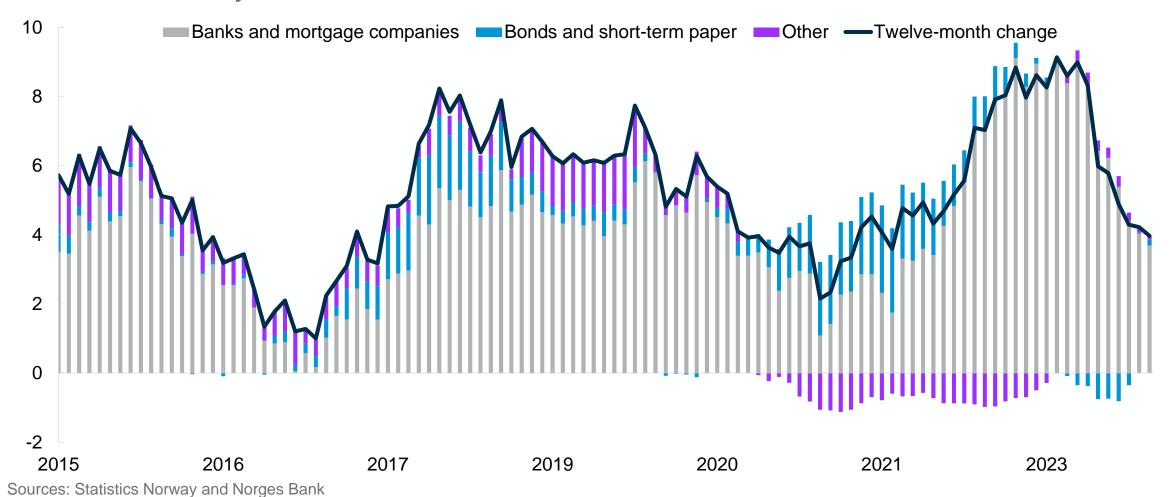
4. Corporate credit growth

C2. Increase in transactions. Percent. January 2012 – November 2023



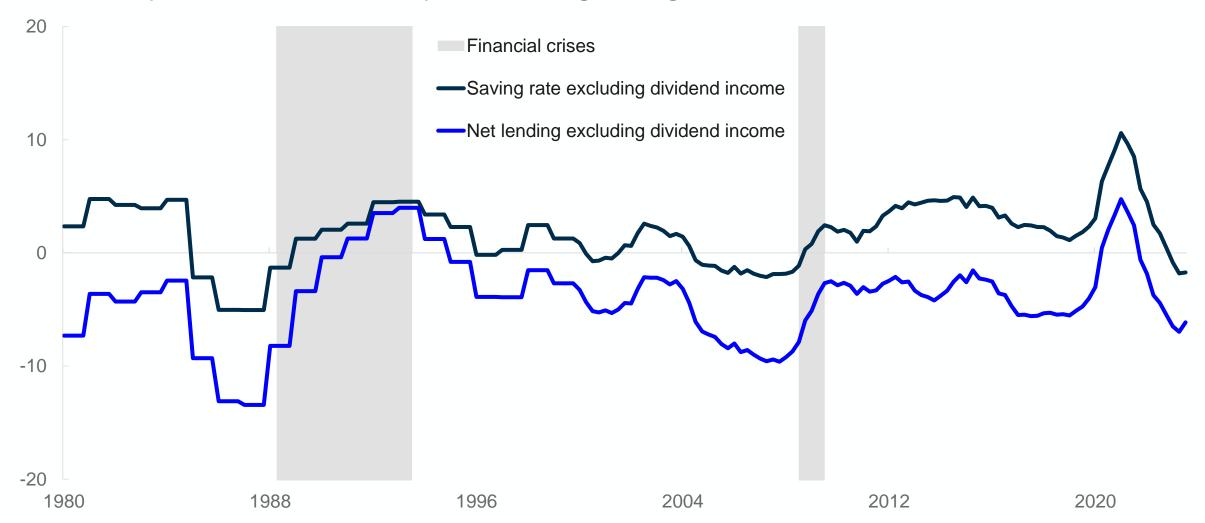
5. Growth in corporate credit by source

C2.Twelve-month change in stock. Decomposed by credit source. Percent. January 2015 – November 2023



6. Households' saving and net lending¹⁾

Share of disposable income. Four-quarter moving average. Percent. 1980 Q1 –2023 Q3²⁾

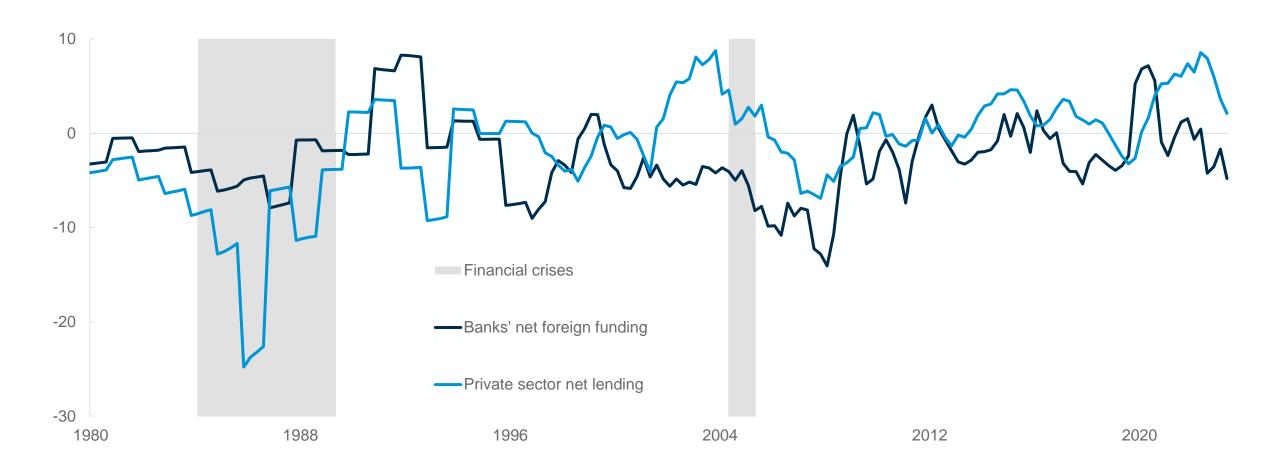


¹⁾ Saving and net lending of households and non-profit institutions serving households. Saving and net lending is adjusted by excluding dividend income received. Disposable income is adjusted by excluding dividend income received and adding savings in pension funds.

Sources: Statistics Norway and Norges Bank

²⁾ Annual data before 2002

7. Private sector's net lending¹⁾ and banks' net lending abroad Share of GDP. Four-quarter moving average. Percent. 1980 Q1 – 2023 Q3²⁾



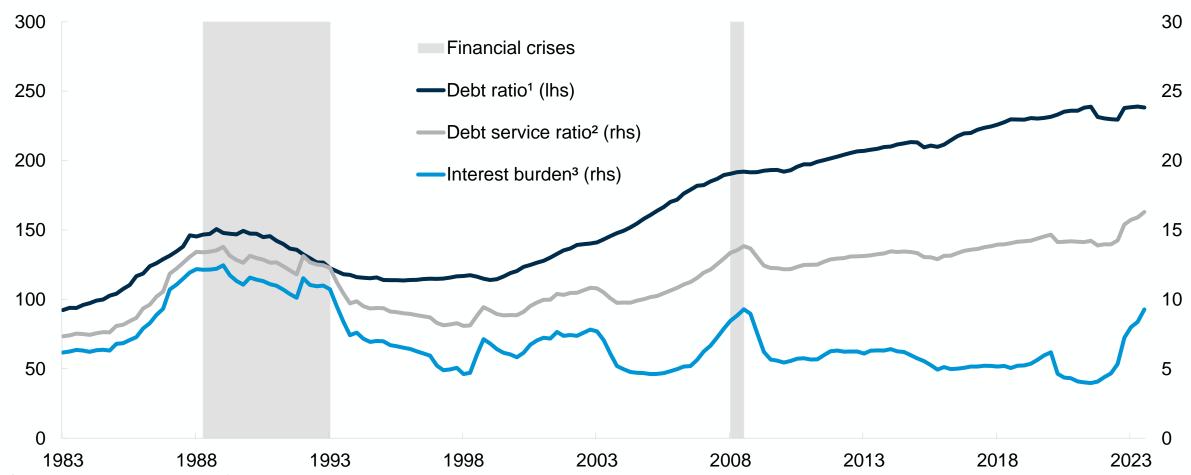
¹⁾ Total net lending less net public sector lending.

Sources: Statistics Norway and Norges Bank



²⁾ Annual data before 2002.

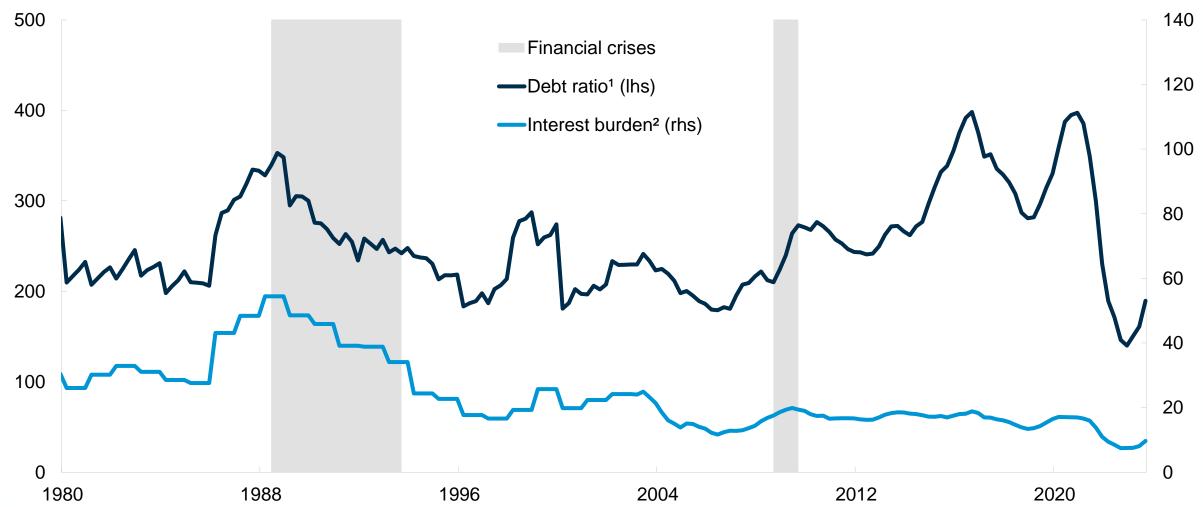
8. Household debt ratio, debt service ratio and interest burden Percent. 1983 Q1 – 2023 Q3



- 1) Loan debt as a percentage of disposable income.
- 2) Interest expenses and estimated principal payments as a percentage of disposable income and interest expenses.
- 3) Interest expenses as a percentage of disposable income and interest expenses.

Sources: Statistics Norway and Norges Bank

9. Non-financial enterprises' debt ratio and interest burden Percent. 1980 Q1 – 2023 Q3



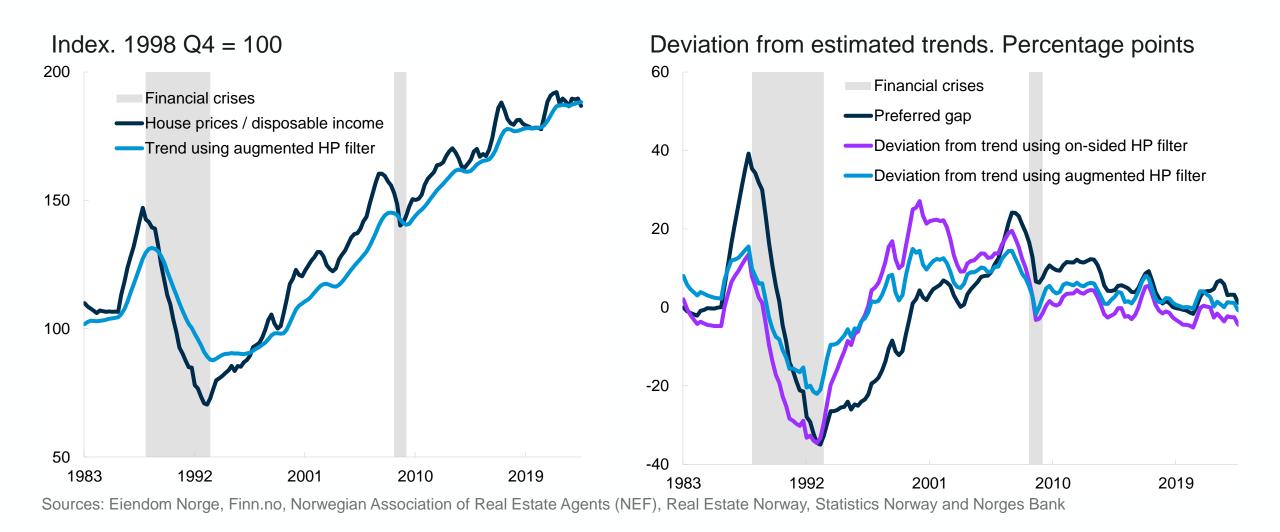
1) Loan debt as a percentage of disposable income, dividends paid and interest expenses.



²⁾ Interest expenses as a percentage of disposable income. Dividends paid and interest expenses. Sources: Statistics Norway and Norges Bank

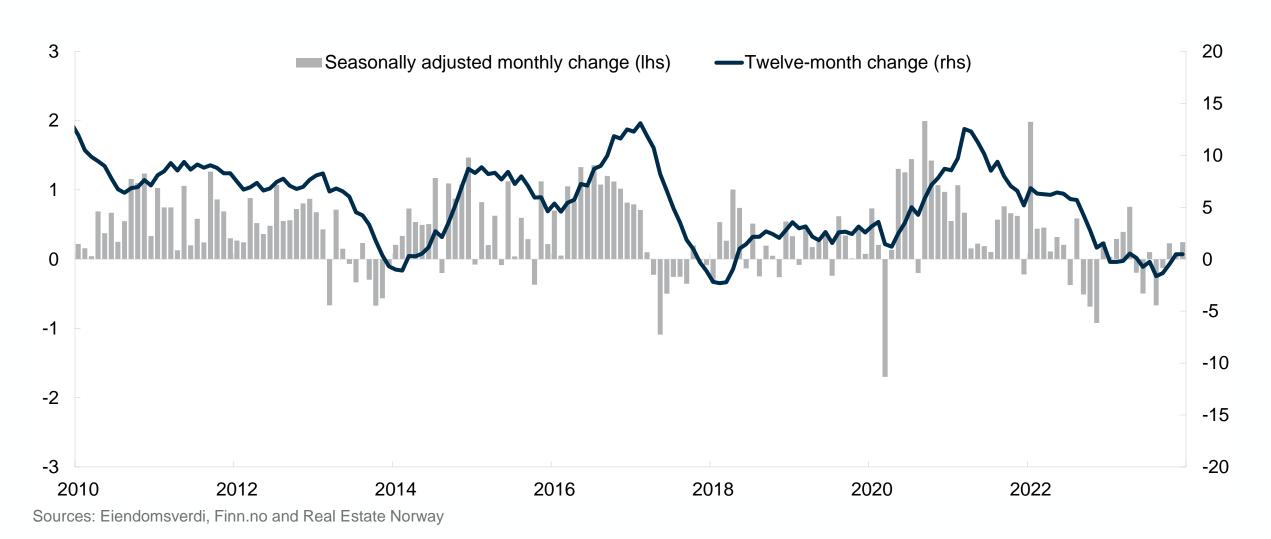
10. Ratio of house prices to disposable income

Percent. 1983 Q1 – 2023 Q3



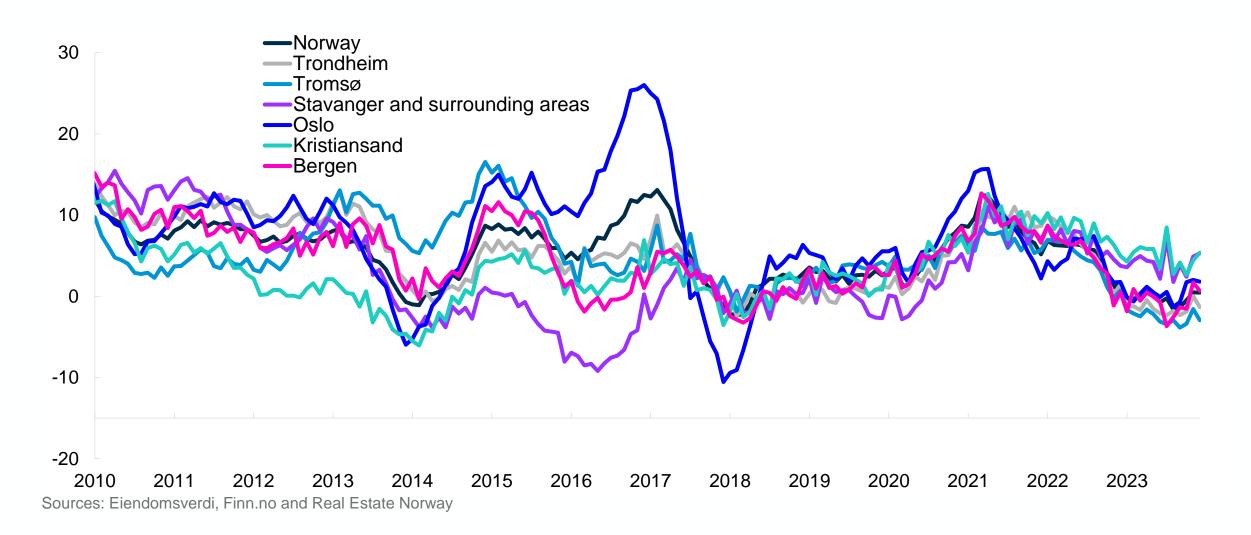
11. House price inflation

Percent. January 2010 – December 2023



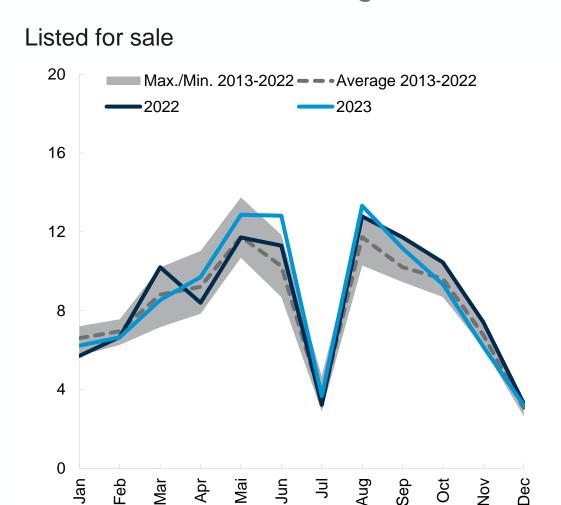
12. House price inflation in cities

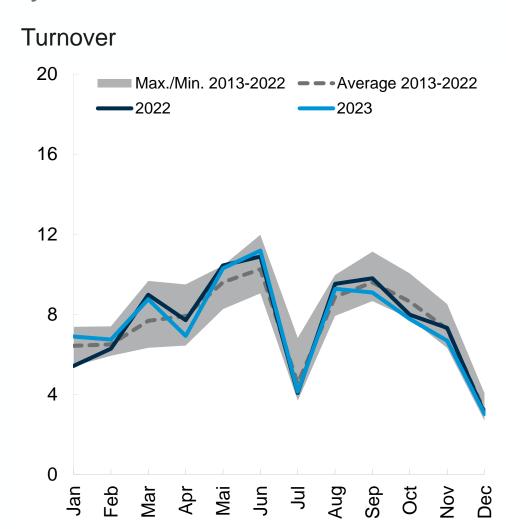
Twelve-month change. Percent. January 2010 – December 2023



13. Activity in the market for existing homes

In thousands of existing homes. January 2013 – December 2023

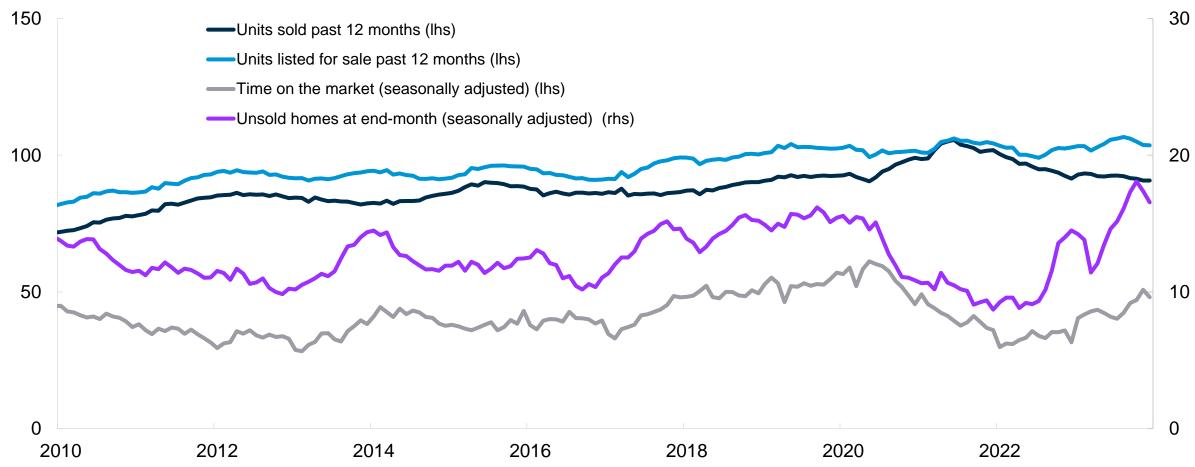




Sources: Eiendomsverdi, Finn.no and Real Estate Norway

14. Activity in the market for existing homes

Thousands of existing homes. Selling time in days. January 2010 – December 2023

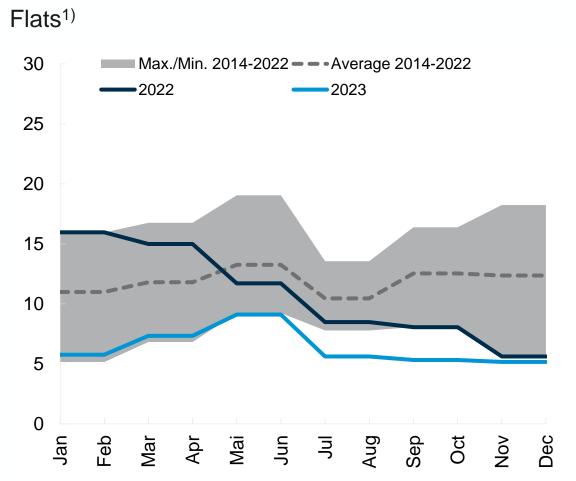




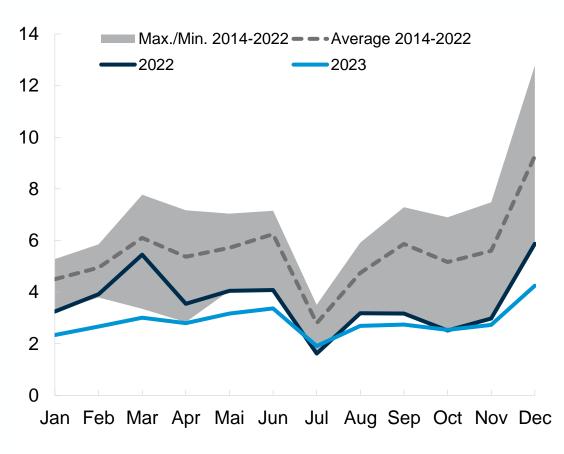


15. Activity in the market for new homes

Turnover. Hundereds of new homes. January 2014 – December 2023



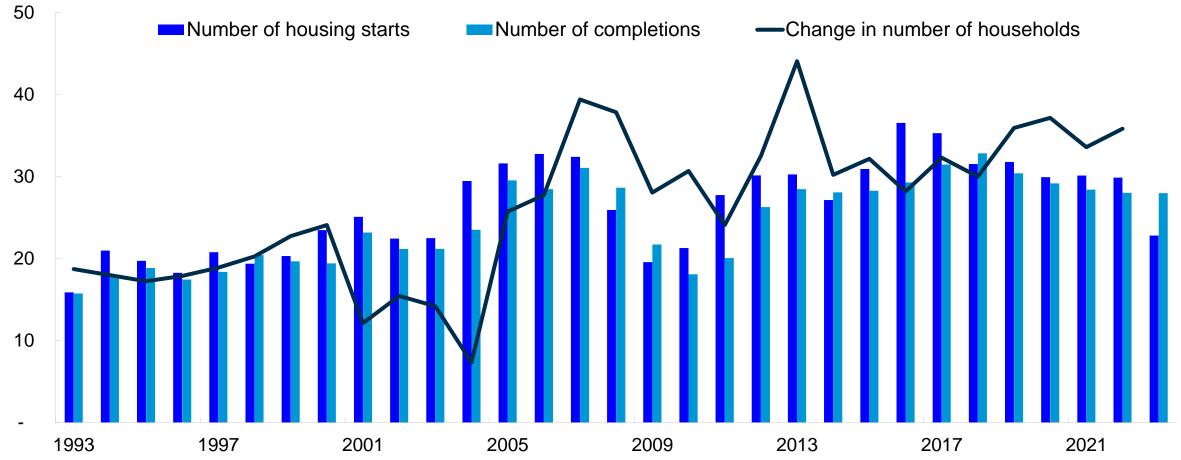
Detached and semi-detached²⁾



Flats data are from Economics Norway's «ECON Nye Boliger» database and only include projects of mor than 15 units. The data have been converted from bi-monthly to monthly frequencies with the same distribution. 2) Detached and semi-detached house data are from the Norwegian Homebuilders' Association. Sources: Norwegian Homebuilders' Association, Economics Norway's ECON nye boliger and Norges Bank

16. Residential construction and household formation

Housing starts, completions and annual change in number of households. 1993 - 2023

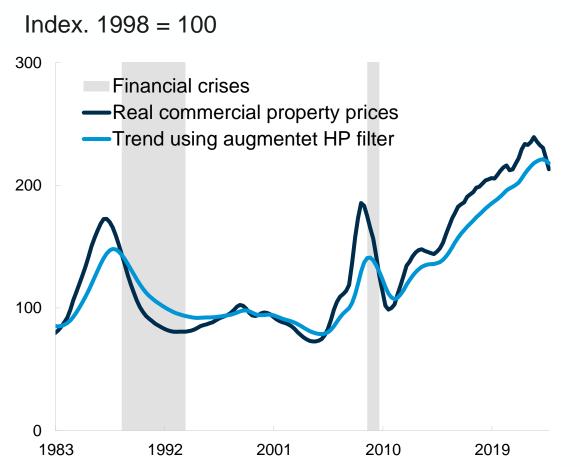






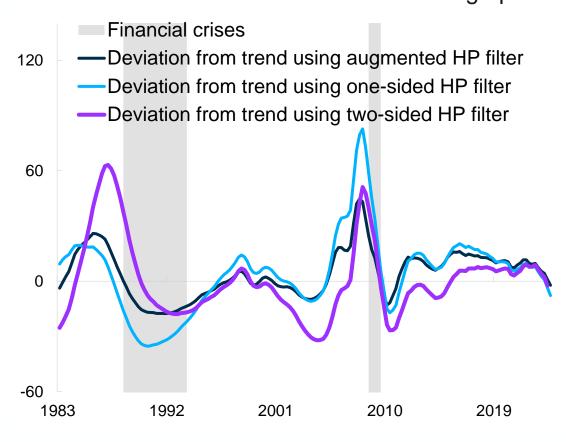
17. Real commercial property prices

1983 Q1 - 2023 Q3



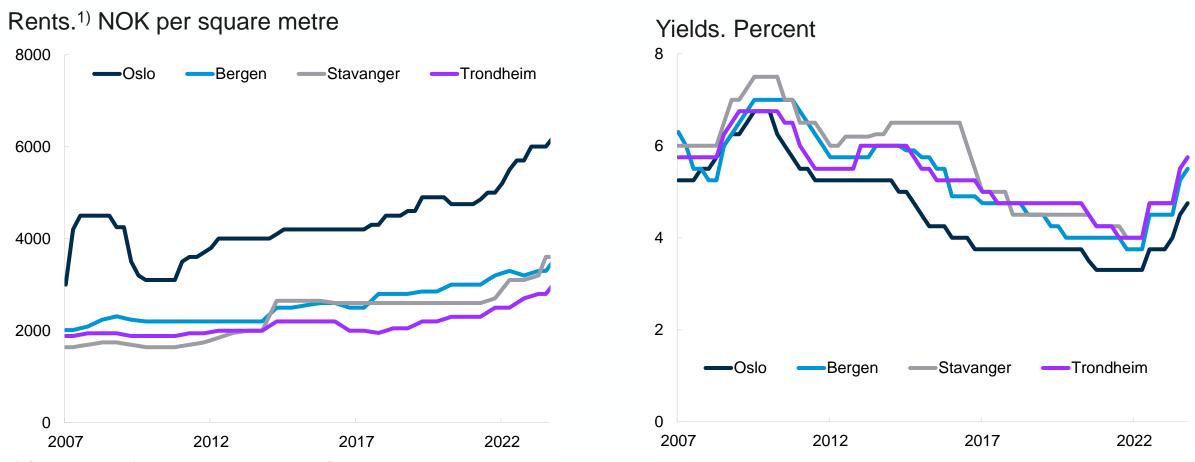
Sources: Dagens Næringsliv, JLL, OPAK, Statistics Norway and Norges Bank

Deviation from estimated trends. Percentage points



18. Rents and yields

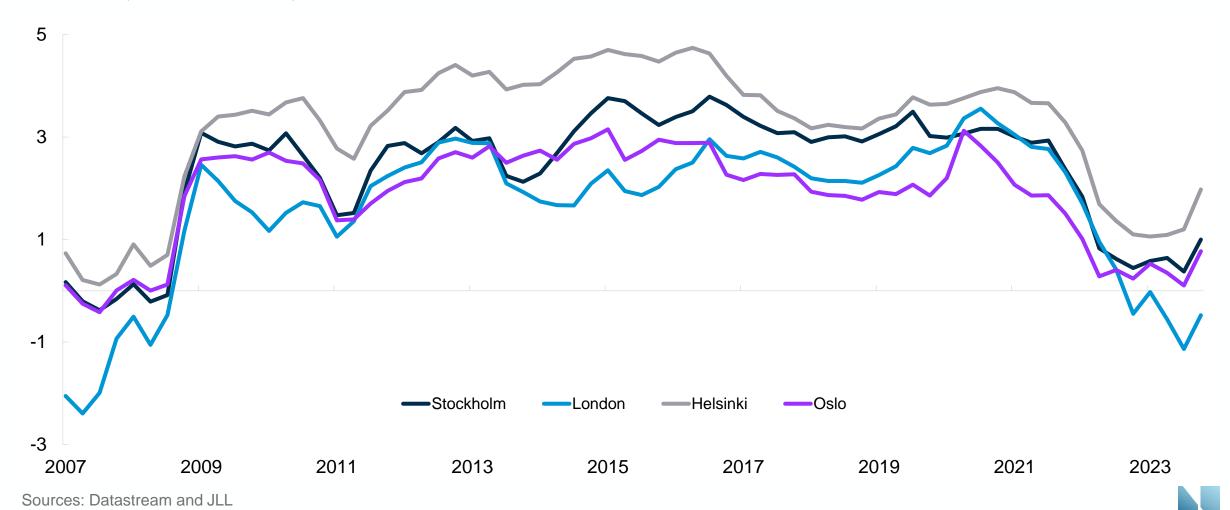
Prime real estate in cities. 2007 Q1 – 2023 Q4



¹⁾ Quarterly data for Bergen, Trondheim and Stavanger are estimated using linear interpolation of semi-anual observations Sources: Akershus Eiendom and JLL

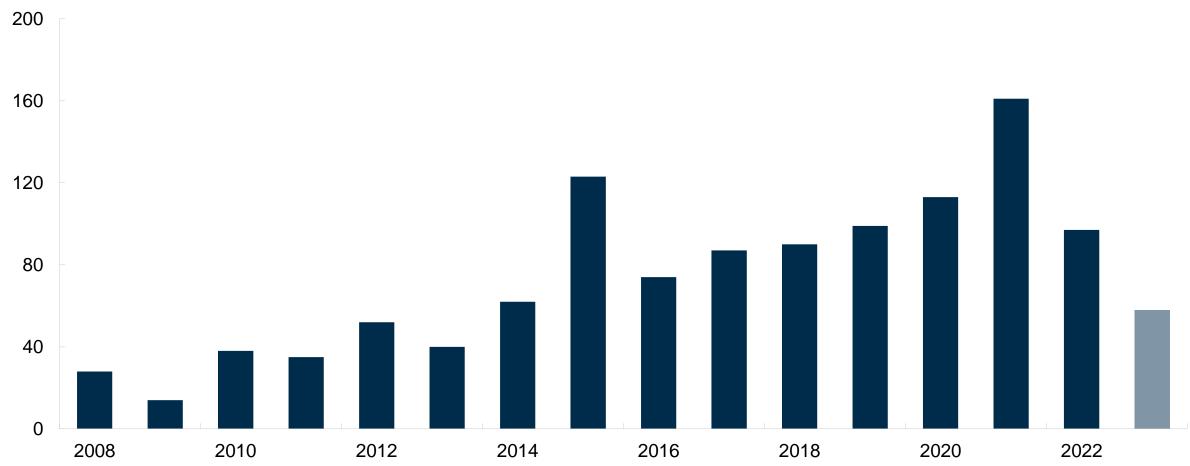
19. Estimated risk permium in commercial real estate

Yields less than five-year swap rate. Prime real estate. Percentage points. 2007 Q1 – 2023 Q4



20. Volume of CRE transactions

In billions of NOK. 2008 – 2023. Projection for 2023

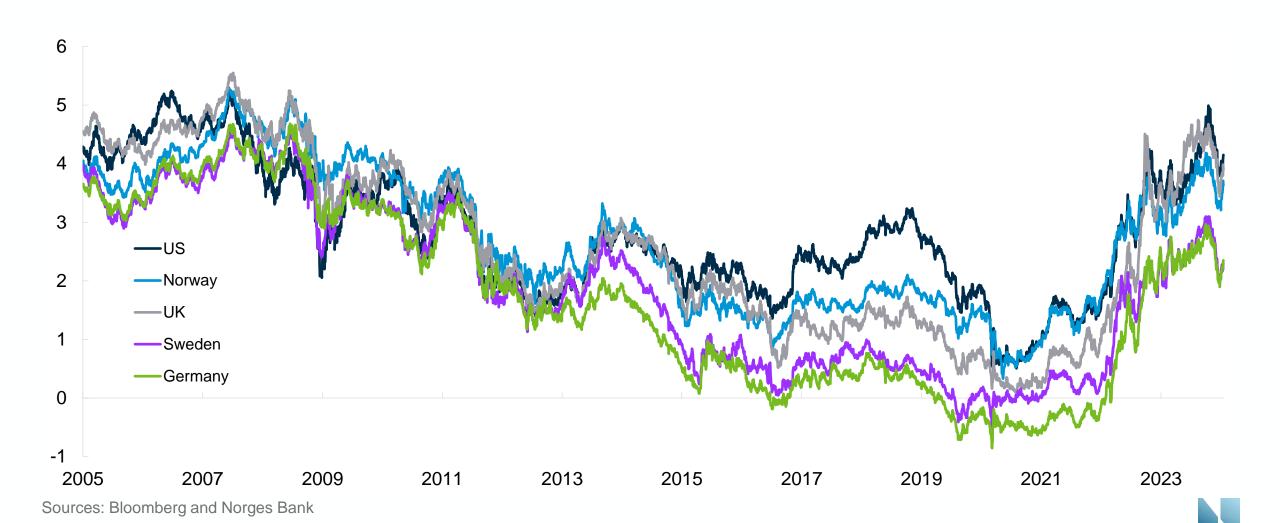






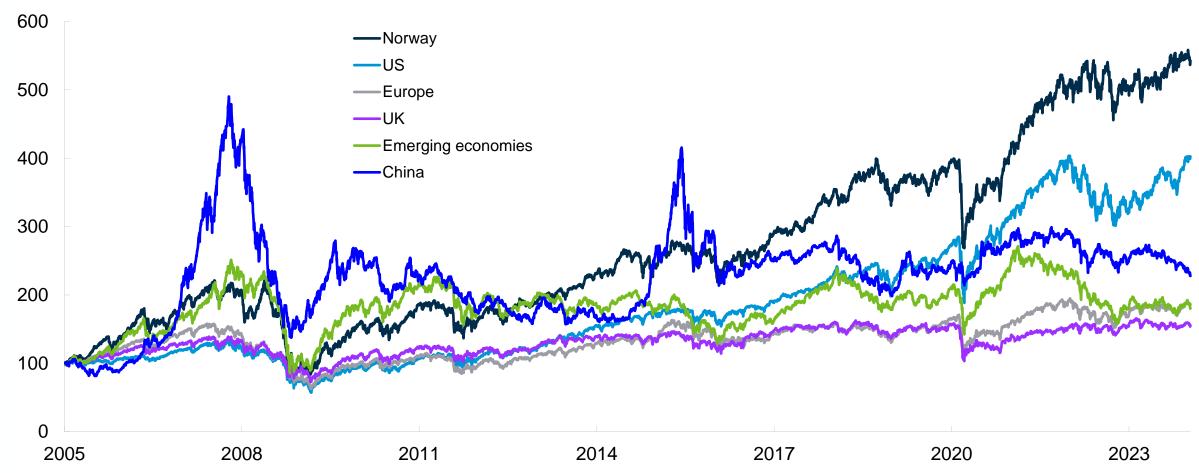
21. Long-term government bond yields

Ten-year government bonds. Percent. 1 January 2005 – 19 January 2024



22. Stock prices

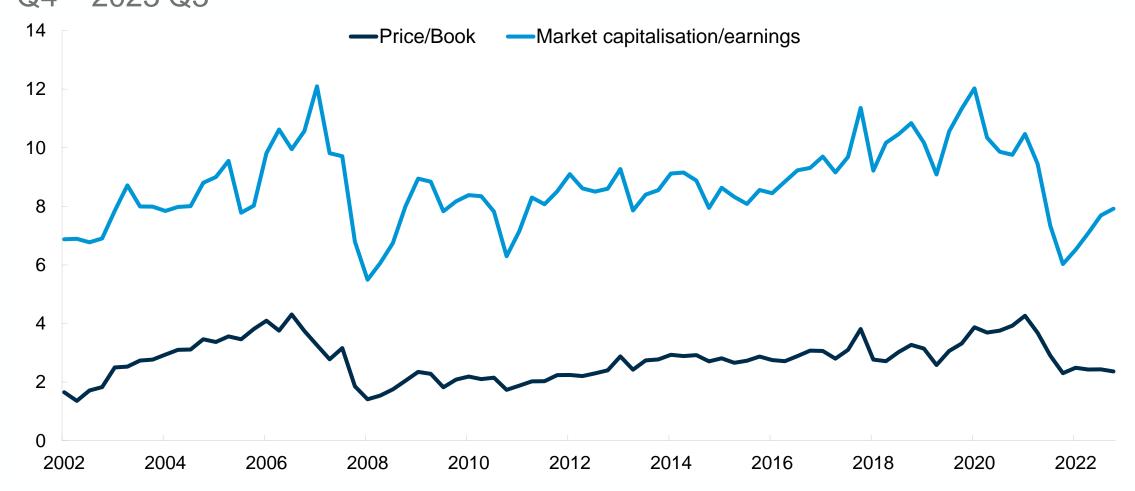
Selected equity markets. Index. 4 January 2005 = 100. 1 January 2005 – 19 January 2024







23. Market capitalisation-to-earnings and price-to-book ratio Norwegian non-financial companies on Oslo Stock Exchange. 1) 2002 Q4 – 2023 Q3

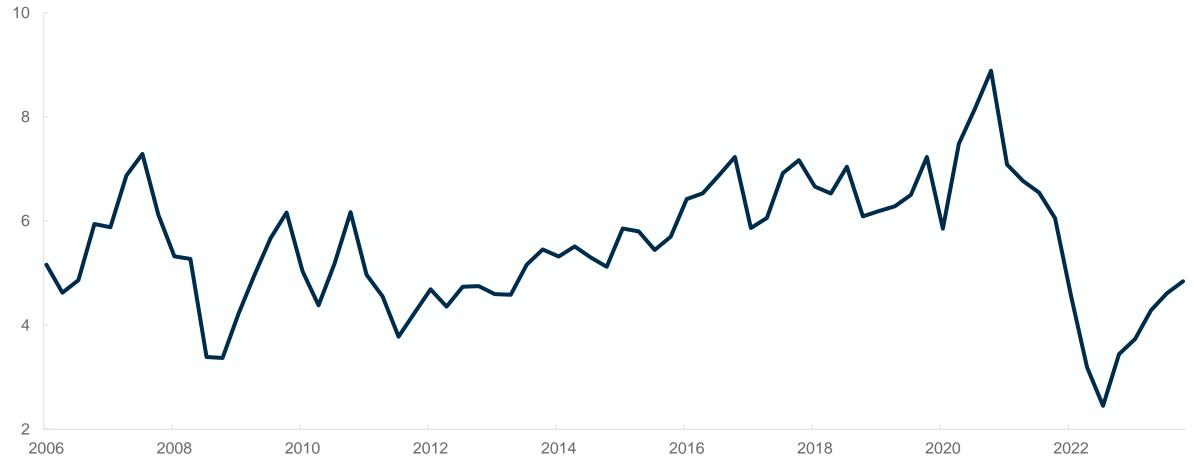


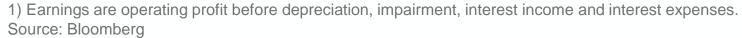
¹⁾ Oil and gas extraction companies are excluded from the sample. Market capitalisation is the value of a company's equity and interest-bearing debt less cash. Earnings are a four-quarter rolling sum of operating earnings before depreciation, amortization and impairment. Price/book is the ratio of the market value of the company's equity to its book value excluding intangible assets.

Sources: Bloomberg and Norges Bank

24. Enterprise value-to-earnings ratio

Oslo Stock Exchange. Earnings in the next four quarters.¹⁾ 2006 Q2 – 2023 Q4

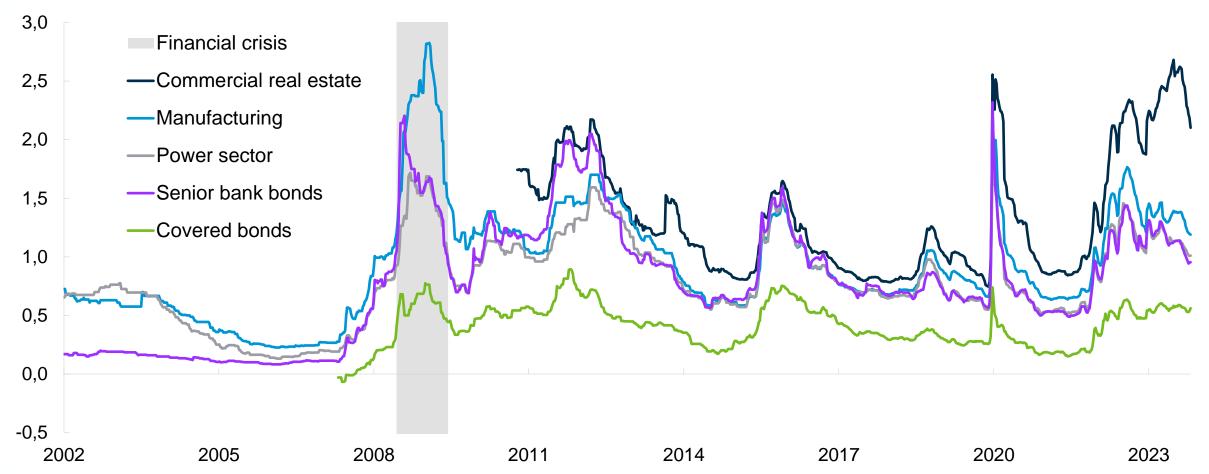






25. Bond market risk premium¹⁾

Investment grade. Five-year maturity. Percentage points over three-month Nibor. Week 13 2002 – week 3 2024²⁾



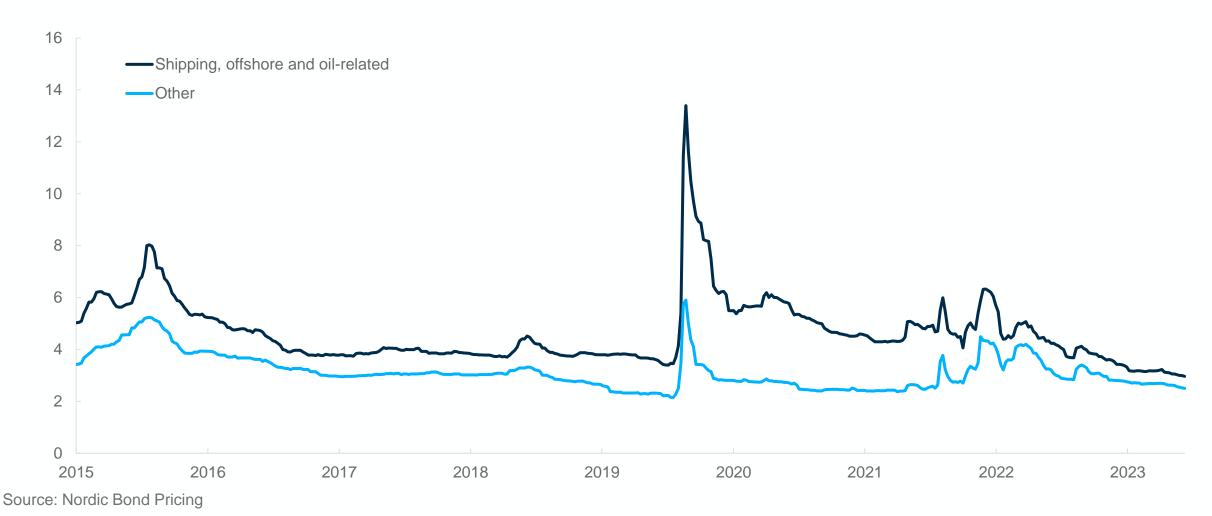
¹⁾ Indicative risk premium on senior five-year bonds issued by banks and companies with high credit rating (BBB- or better)

²⁾ There is a break in the series owing to a change in the data source from DNB Markets to Nordic Bond Pricing in August 2015. Covered bonds data from week 27 2007. Commercial real estate data from week 1 2011.



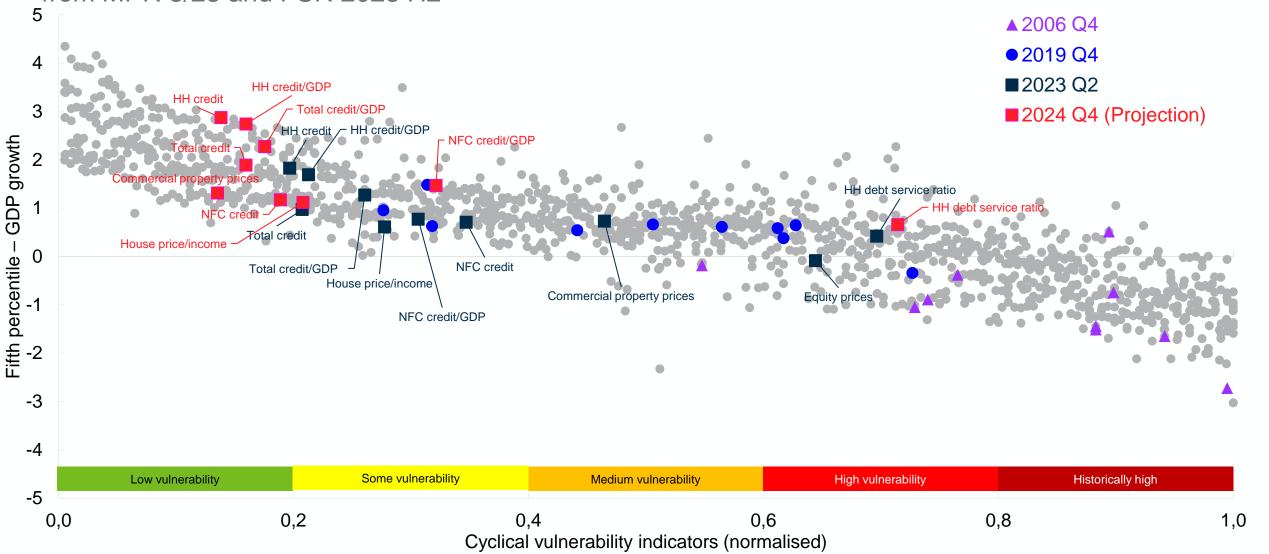
26. Bond market risk premium

High-yield. Five-year maturity. Percentage points over three-month Nibor. Week 23 2015 – Week 2 2024

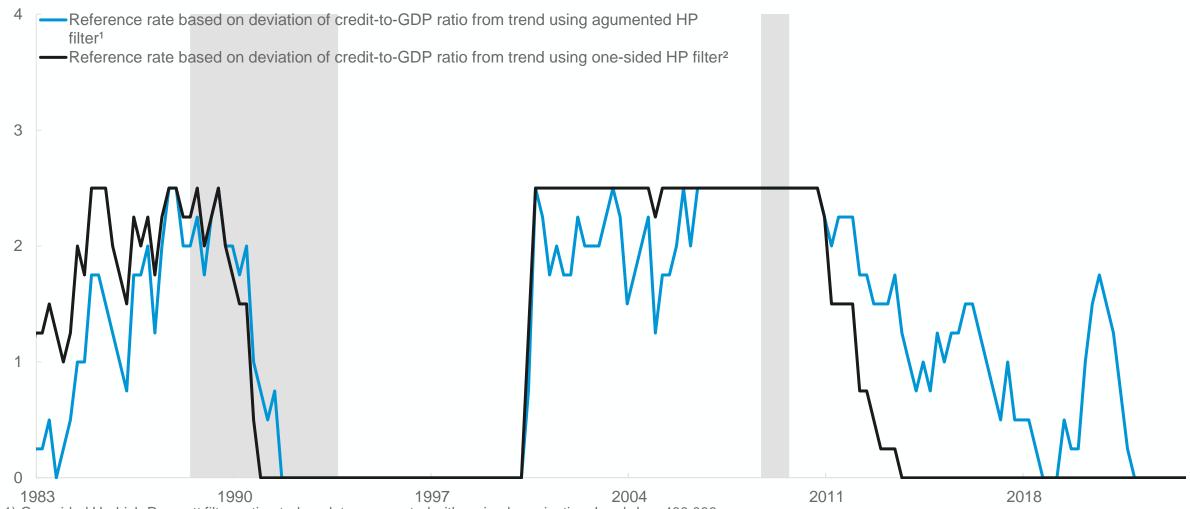


27. Linkages between cyclical vulnerabilities and GDP growth

Indicators of cyclical vulnerabilities (normalised) on the horizontal scale and 5th percentile projections for GDP growth on the vertical scale. 1985 Q1 – 2023 Q2. Predictions from 2023 Q3 from MPR 3/23 and FSR 2023 H2



28. Reference rates for the countercyclical capital buffer under alternative trend estimates Percent. 1983 Q1 – 2023 Q4



1) One-sided Hodrick-Prescott filter estimated on data augmented with a simple projection. Lambda = 400 000.

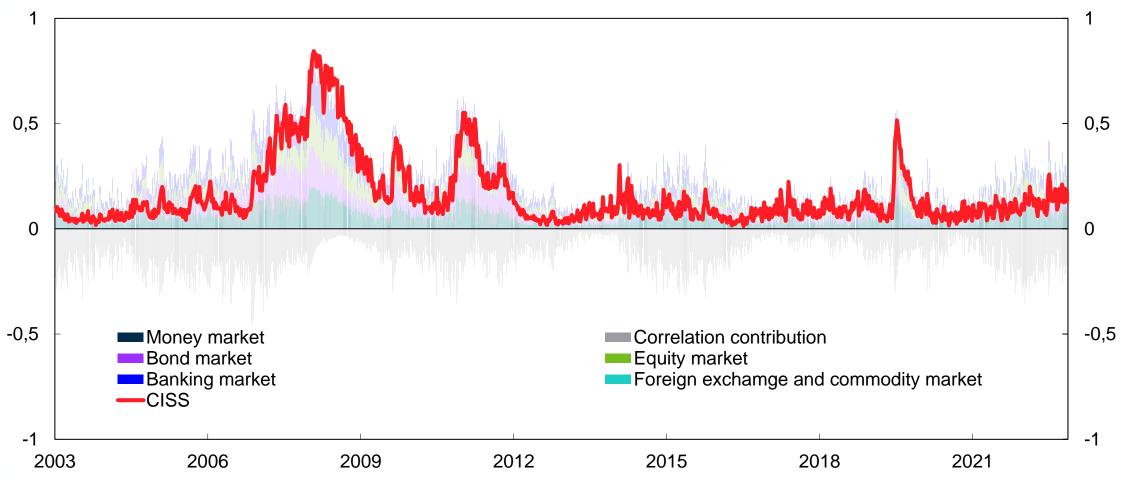
Sources: IMF, Statistics Norway og Norges Bank



²⁾ One-sided Hodrick-Prescott filter. Lambda = 400 000.

29. CISS indicator for Norway¹⁾

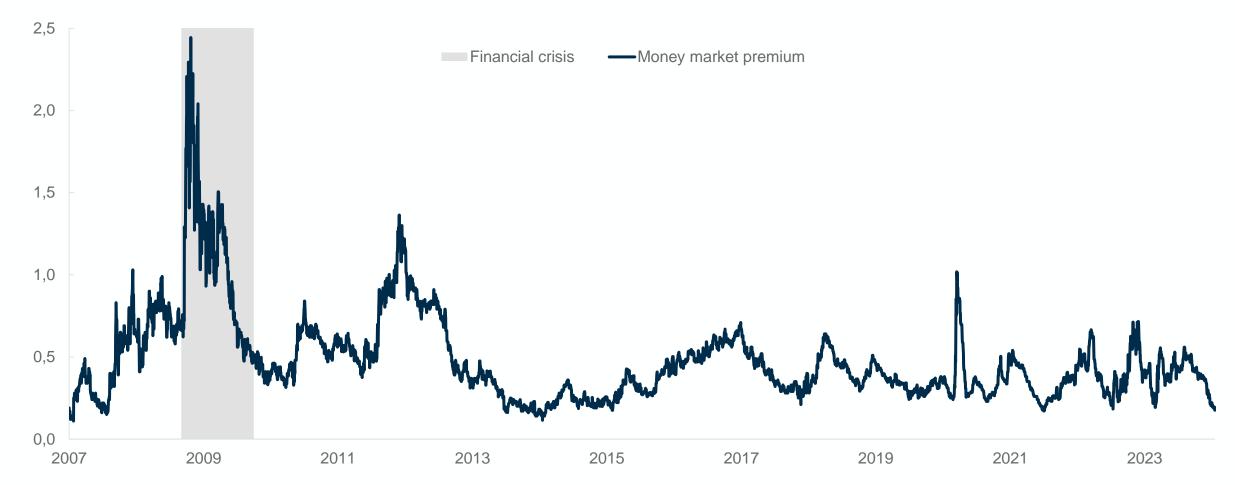
Week 38 2003 – week 43 2023



¹⁾ The CISS, shown by the red line, is higher the more stress there is in the different market segments (the coloured areas above zero increase) and the more correlation is between market segments (the grey area below zero decreases). The CISS is described in Monetary Policy Report 1/19 and Hagen, M. and P.M. Pettersen (2019) « An improved composite indicator of systemic stress (CISS) for Norway». Staff Memo 3/19. Norges Bank.



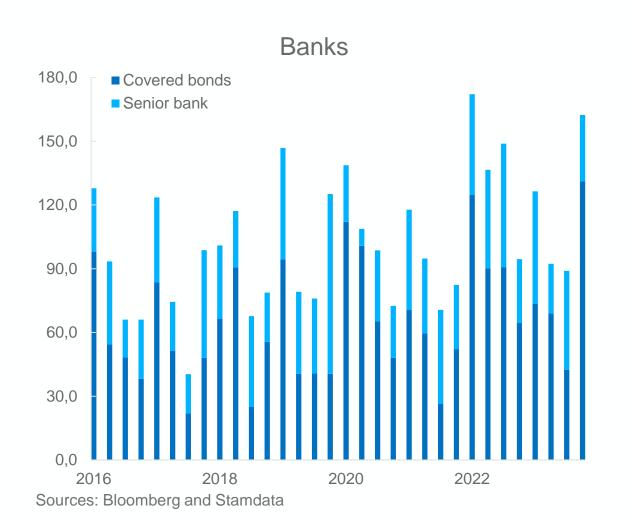
30. Spread in Norwegian three-month monet market rate¹⁾ Percentage points. 1 January 2007 – 18 January 2024

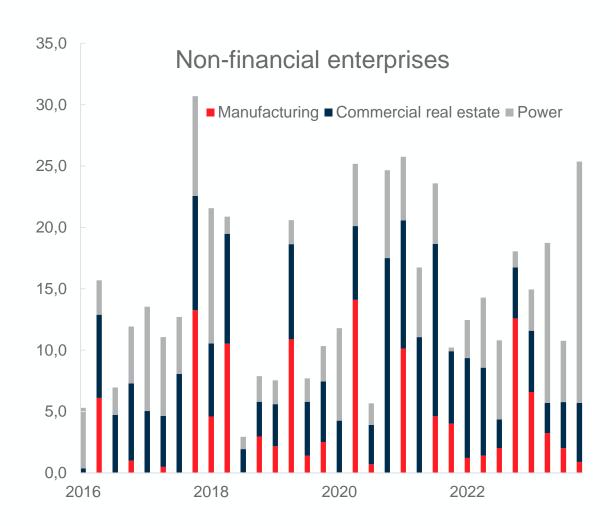


¹⁾ Norges Bank's projections of the difference between three-month money market rate and expected policy rate. Sources: Refinitiv Datastream and Norges Bank

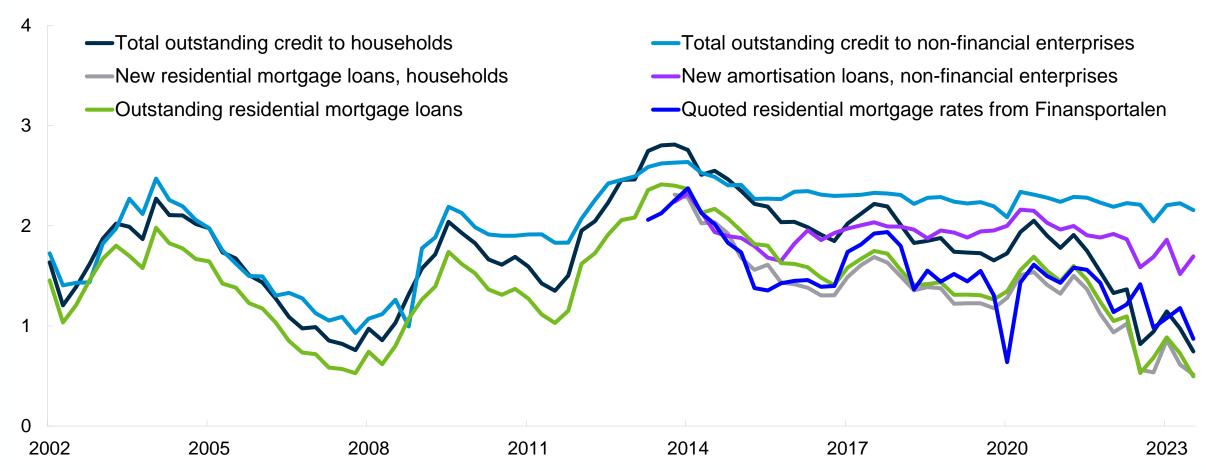
31. Bond market activity

In billions of NOK. Norwegian issuers. 2016 Q1 – 2023 Q4





32. Loan margins from banks and mortgage companies Percentage points over three-month Nibor. 2002 Q1 – 2023 Q3¹⁾



1) Quated rates from 2013 Q2. New loans from 2013 Q4. Sources: Finansportalen, Statistics Norway and Norges Bank

33. Banks' credit standards for households¹⁾ and enterprises²⁾ Change from previous quarter.³⁾ Survey of bank lending. 2008 Q1 – 2023 Q4

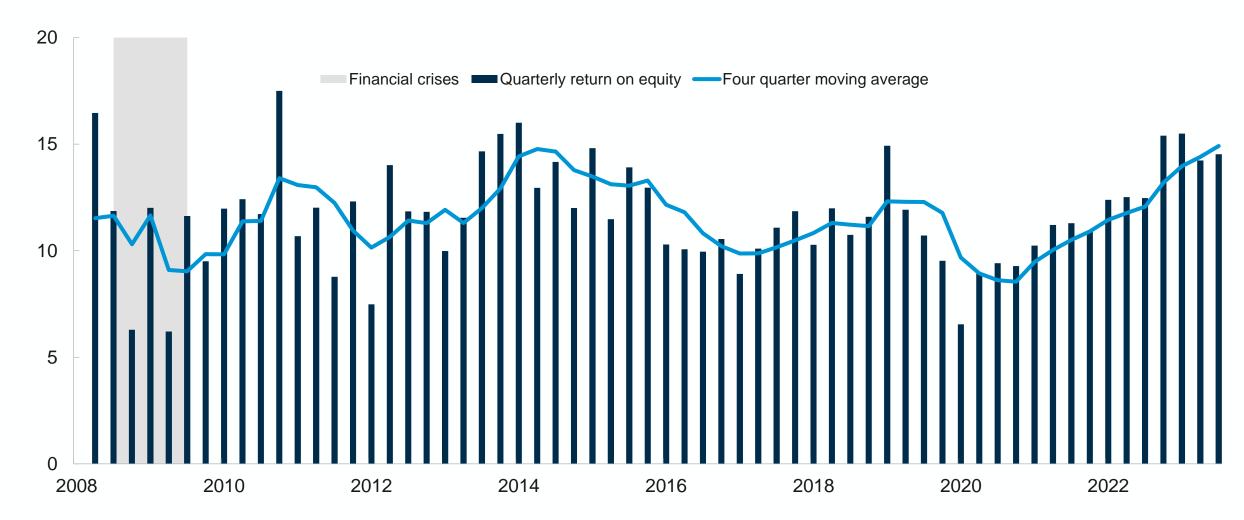


1) Residential mortgages. 2) Total credit to non-financial enterprises. 3) Scale: 2/1 = Much/somewhat easier to obtain credit, 0 = Approx. unchanged, -1/-2 = Somewhat/much tighter credit standards.

Source: Norges Bank

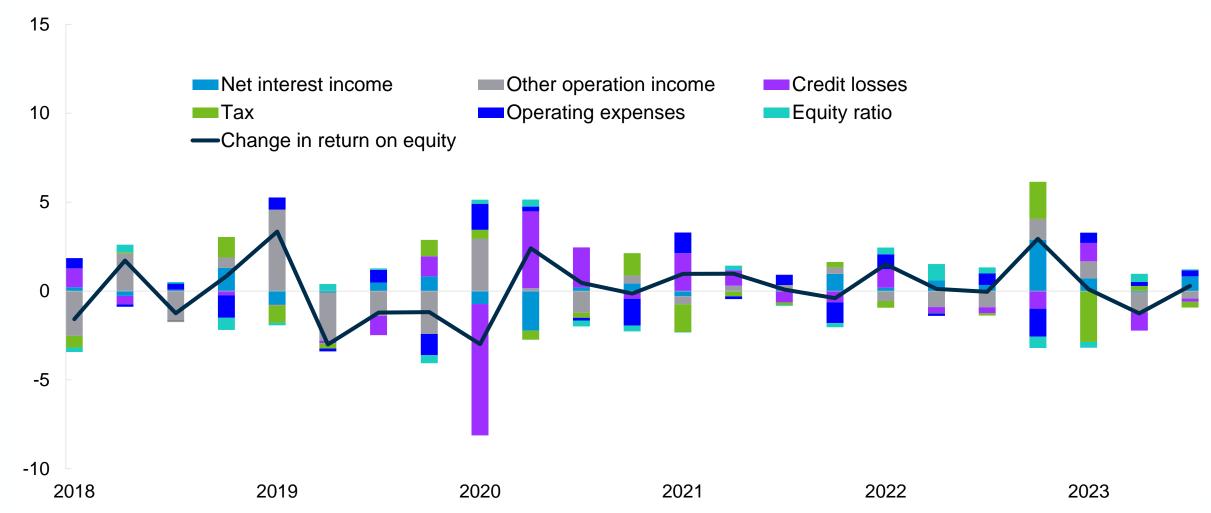
34. Return on equity for large Norwegian banks

Percent. 2008 Q2 - 2023 Q3



Sources: S&P Capital IQ and Norges Bank

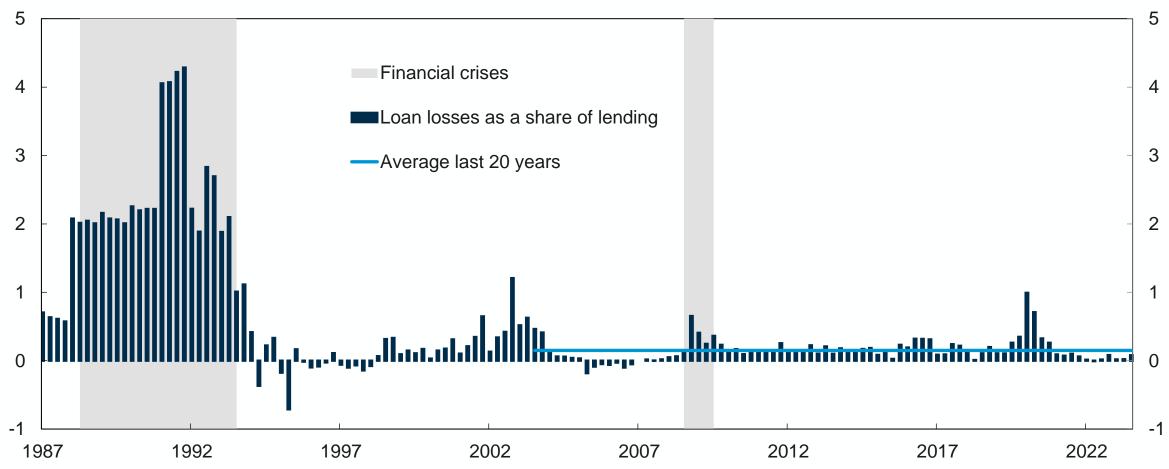
35. Contributions to change in return on equity Large Norwegian banks.¹⁾ Percent. 2018 Q1 – 2023 Q3



¹⁾ Weighted average of DNB, SP1 SR-Bank, Sparebanken Vest, SP1 SMN, Sparebanken Sør, SP1 Østlandet and SP1 Nord-Norge. Sources: Banks' quarterly reports and Norges Bank

36. Credit losses as a share of gross lending

Annualised. All banks and mortgage companies in Norway. Percent. 1987 Q1 – 2023 Q3¹⁾

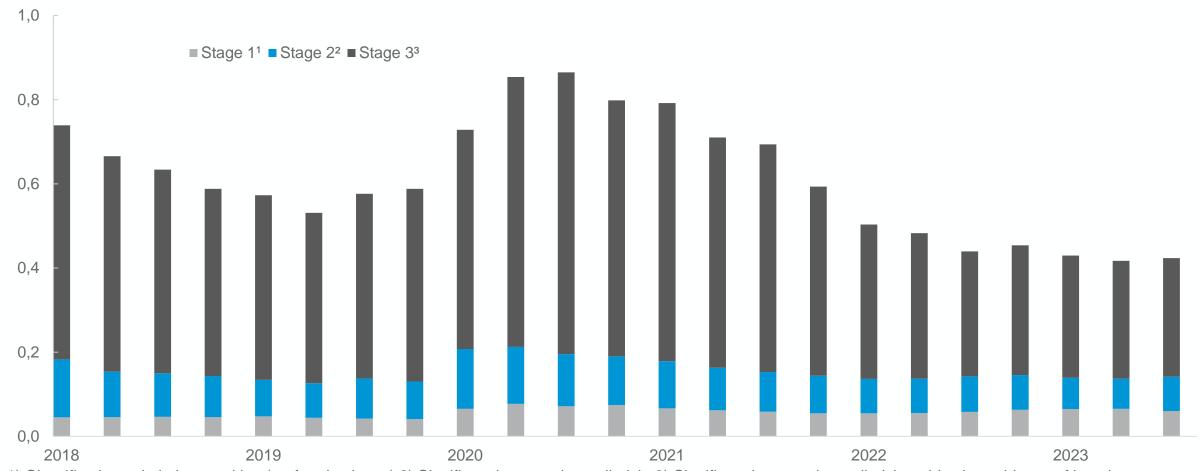


¹⁾ Annual data on credit losses in the period to end- 1991. Annual figures are distributed equally across the quarters Source: Norges Bank



37. Impairment losses by stage under IFRS9

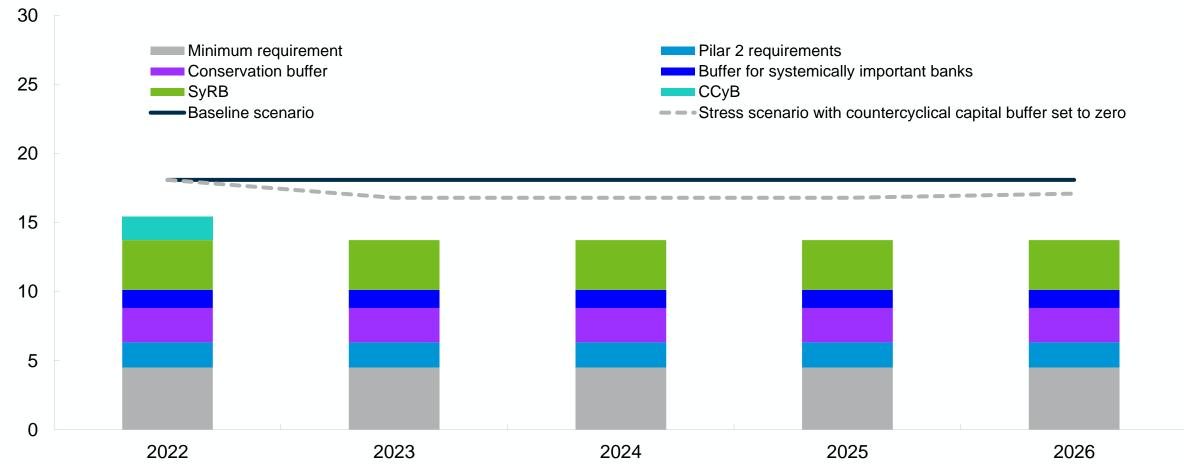
Large Norwegian banks. Share of gross lending. Accumulated. Percent. 2018 Q2 – 2023 Q3



1) Classification at intital recognition (performing loans) 2) Significant increase in credit risk. 3) Significant increase in credit risk + objective evidence of impairment Sources: Banks' FINREP reporting and Finanstilsynet

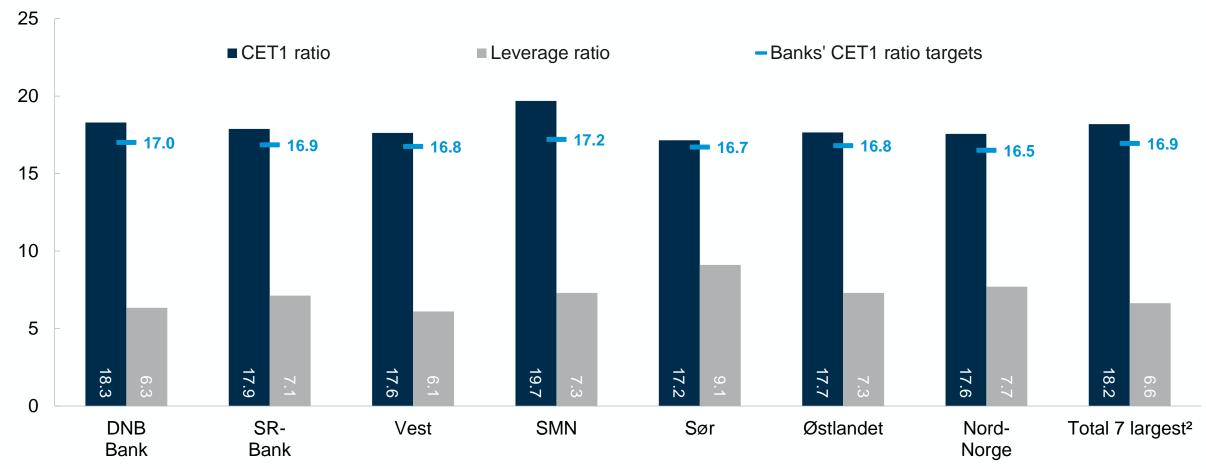
38. Stress scenario in Financial stability 2022

Macro bank's capital requirements and CET1 capital, baseline and stress scenario. Percent



Sources: Banks' quarterly reports, Finanstilsynet (Financial Supervisory Authority of Norway), S&P Capital IQ and Norges Bank

39. Capital ratios in large Norwegian banks At 2023 Q3. Percent



¹⁾ Banks' regulatory requirements as of 31 December 2023 with an added capital requirement margin.

Sources: Banking groups' quarterly reports and Norges Bank

²⁾ Total 7 largest is a weighted average of the seven banks in the chart.