



Covered Bond & SSA View

NORD/LB Floor Research



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Market overview Covered Bonds

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Primary market: A promising start to March!

After a highly active February, in which a wide range of issuers from various jurisdictions appeared on the market, we have now moved on to March. However, just before the end of the month, DZ HYP slipped in one final deal in February, approaching investors with a fresh benchmark worth EUR 500m (10.0y; WNG) in the process. Following initial guidance in the area of ms +41bp, the final spread ultimately came in at ms +35bp. At the start of the new trading week, it was another Italian issuer who made the first appearance of the new month of March. After Iccrea Banca last week (cf. Issuer View), Credit Agricole Italia came to the market with a fresh bond in the amount of EUR 1.0bn, which was allocated to the "long" maturity segment (12.0y). The deal generated a final order book of EUR 4.6bn and a final spread of ms +85bp (-5bp versus original guidance). The same evening, we were able to finally celebrate the long-awaited arrival of the first Canadian issuer to the EUR benchmark segment in 2024. And this in several respects: Toronto-Dominion Bank (TD Bank) chose a triple tranche deal made up of a floater (EUR 2.0bn; 3.0y) and two bonds with fixed coupons (EUR 2.5bn; 5.0y; and EUR 1.0bn; 10.0y). Further below, we have included a paragraph covering the Canadian EUR Covered Bond market in this article, in which we announce a slight adjustment to our supply forecast for this jurisdiction in the issuance year 2024. On the second trading day of the week, we welcomed three new EUR benchmarks in one fell swoop. The first of these new deals was issued by BayernLB (EUR 500m; 4.7y; WNG), followed by DNB Boligkreditt from Norway (EUR 1.25bn; 5.0y). The final issuer in this trio to approach investors was Erste Group Bank from Austria with a Covered Bond in the amount of EUR 1.0bn and a term to maturity of short 10 years.

lssuer	Country	Timing	ISIN	Maturity	Size	Spread	Rating	ESG
Erste Group Bank	AT	05.03.	AT0000A3B0X2	9.8y	1.00bn	ms +55bp	- / Aaa / -	-
DNB Boligkreditt	NO	05.03.	XS2782809938	5.0y	1.25bn	ms +27bp	- / Aaa / AAA	-
Bayerische Landesbank	DE	05.03.	XS2782184902	4.7y	0.50bn	ms +22bp	- / Aaa / -	-
Toronto-Dominion Bank	CA	04.03.	XS2782119916	9.9y	1.00bn	ms +56bp	AAA / Aaa / -	-
Toronto-Dominion Bank	CA	04.03.	XS2782117464	4.9y	2.50bn	ms +43bp	AAA / Aaa / -	-
Credit Agricole Italia	IT	04.03.	IT0005585622	12.0y	1.00bn	ms +85bp	- / Aa3 / -	-
DZ HYP	DE	28.02.	DE000A351XV5	10.0y	0.50bn	ms +35bp	- / Aaa / AAA	-

Source: Bloomberg, NORD/LB Floor Research (Rating: Fitch / Moody's / S&P)

Secondary market: Market environment ensures continued good performance

The secondary market continued to perform strongly over recent trading days, meaning that newly placed deals tightened further. This development was driven by high demand on the primary market, manifesting in significant oversubscription ratios and the occasional negative new issue premium. In our view, the spread trend will continue to be primarily driven by investors from the real money segment, in addition to the demand from "fast money accounts". With the current market situation, there is no expectation of a change to the positive mood on the Covered Bond market at the moment. On balance, we certainly see potential for spreads to narrow in the medium and long term.

Fitch I: Loan losses on commercial properties remain high for German banks

In their latest report on the commercial real estate (CRE) market in Germany, the rating experts at Fitch have outlined their expectations that loan losses from CRE business will be a cause for concern on the part of German banks in both 2024 and 2025. However, Fitch also emphasises that the viability ratings of banks have a certain amount of leeway to withstand weaker asset quality. At the same time, the expected credit losses can be better cushioned by a structurally improved profitability of the banks. However, it is also expected that this leeway will be increasingly constricted due to the fact that German banks have a high CRE exposure (loans in the amount of EUR 567bn) in comparison with other countries. This development has been in evidence since 2015 in particular, when German banks increasingly turned to CRE lending in search of alternative income opportunities at a time when net interest margins were in decline on account of the low interest rate environment. However, Fitch emphasises that German banks will not exceed the thresholds that could lead to downgraded viability ratings in 2024. This is primarily the case because many banks have refinanced a large proportion of their CRE loans by issuing Covered Bonds, which offer cheaper refinancing options compared with many foreign competitors and also mitigate refinancing risks compared with short-term financing. As a further positive point, Fitch notes that the asset quality of German banks outside of the CRE segment is likely to deteriorate only marginally, as the German labour market is still considered to be robust despite the challenging economic landscape.

Fitch II: Leading UK banks benefit from increased profitability

The profitability of leading British banks will remain stable in 2024 and therefore serve as a kind of buffer against risks, as the experts at Fitch have explained in a recently published report. For example, after publication of the annual results for 2023, higher interest rates, low loan impairments and only moderately increased costs are the main reasons for a strong net interest income (NII). However, according to the rating experts' estimates, NII will be lower in the first half of 2024, which can be attributed to higher deposit costs as well as narrower margins on mortgage loans and the prospect of interest rates being cut. Asset quality has so far remained stable despite significantly higher interest rates and weak macroeconomic framework conditions. In this context, Fitch is forecasting a slight deterioration in 2024, as elevated interest rates have a negative impact on the repayment ability of borrowers. However, there are positives to mention as well. For example, UK banks have only a small proportion of CRE exposures across the board. In addition, the strong ratio of profit to risk-weighted assets (RWAs) at British banks (2023: 2.9%, improved from 2.5% in 2022) will again come in at over 2.5% for 2024, according to Fitch. In our opinion, this speaks to the continued high quality of the cover pools of UK Covered Bonds. In the previous edition of our weekly publication, we published a special article introducing TSB Bank, the newest player in the EUR benchmark segment, in more detail, with the aim of evaluating the EUR Covered Bond market in the UK.

Canada: Adjusted issuance forecast to take account of the "weak" start to the year

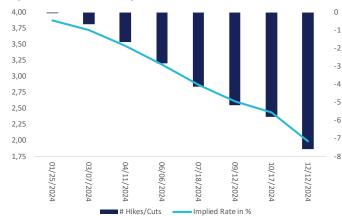
With Canadian issuers having been extremely active in the market for EUR benchmarks with new bond deals in recent years, we have been surprised by the lack of activity from this jurisdiction so far in the current year. In fact, until the day before yesterday, we had not recorded a single benchmark issue from Canada in 2024. Toronto-Dominion Bank then got the ball rolling by approaching investors with a triple tranche and placed bonds with a volume of EUR 5.5bn on the market. This deal included two bonds with a fixed coupon and one with a variable coupon. In line with the rules of our coverage, we will only be including the two deals with a fixed coupon in our database. These featured issuance volumes of EUR 2.5bn (5.0y) and EUR 1.0bn (10.0y) respectively. The order books appeared to be well filled, meaning that the 5y Covered Bond could be placed at a re-offer spread of ms +43bp and the 10y deal was priced at ms +56bp. We saw a similarly high issuance volume from Canada in August last year, when it was again Toronto-Dominion Bank that took centre stage to place two Covered Bonds with a volume of EUR 2.5bn with investors. Overall, the average issuance volume in 2023 was around EUR 1.5bn, from which it is clear that Canadian issuers tended to place higher-volume deals. In addition to the EUR benchmark segment, Canadian issuers are also active in the Covered Bond market in various other currencies (including the AUD, CAD and USD). Despite the strong start to 2024 on the primary market as a whole, we are now forced to adjust our supply forecast for Canada due to the low level of primary market activities from this jurisdiction so far in 2024. Overall, we now forecast new net supply from Canada in the amount of EUR 12.0bn, which will lead to a negative net supply of EUR -0.5bn when taking into account the pending maturities of EUR 12.5bn. Another aspect informing our decision to revise the fresh supply forecast from Canadian issuers downwards was what we believe to be the restrained development in new mortgage business in Canada.

Market overview SSA/Public Issuers

Authors: Dr Norman Rudschuck, CIIA // Lukas-Finn Frese

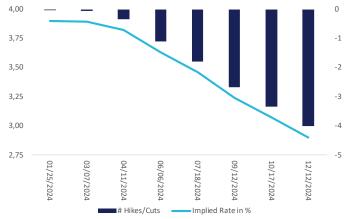
ECB meeting: interest rate cut unlikely in March

Last week we published our preview for the upcoming ECB Governing Council meeting entitled "Delays in operations or full focus on June?" In other words, the market has so far been of the same opinion that "The train has no brakes" – at least if the market is to be believed, the interest rate cut bandwagon, or train to continue the analogy above, could hardly be stopped in 2024. After all, some people thought they could find happiness in interest rate cuts that, to our minds, were completely premature. For the time being, we would therefore like to take a closer look at the implied interest rate probabilities and their "alignment" with reality. We continue to believe that nothing will happen until the summer, although a first small move in June (-25bp) would be the absolute limit for us. To stay with the railway image: Will there be delays in operations or is caution already required at the platform edge in the near future? There could also be a "strike" in relation to interest rate cuts and one or the other market participant would have bet on premature moves to the downside. It is also clear that if the ECB Governing Council gets on the interest rate cut train and buys its ticket for the journey, there will be no way to buy a return ticket in 2024 or 2025. Everyone is also in agreement for the March meeting: another interest rate pause on the elevated platform is clearly to be expected. The central bankers' wait-and-see attitude actually has some advantages. Certainly, this standstill should not be mistaken for sitting back. There are plenty of topics to cover. Discussions on the economic situation are likely to be just as spirited. After all, in light of current developments, there are many conceivable outcomes. Following a meeting-by-meeting approach, discourse is once again the most effective means. We are looking forward to the meeting in March with great interest, as the new staff projections will be announced and these are always somewhat explosive in nature. The staff projections have once again gained in importance, as everyone is looking ahead to the data-based first interest rate cut around the middle of the year.



Implied interest rate probabilities on 27 Dec. 2023





Source: Bloomberg, NORD/LB Floor Research

KfW Business Cycle Compass: grounds for optimism after a difficult winter?

Every quarter, KfW forecasts the change in GDP and inflation (HICP) in Germany and the euro area in its Business Cycle Compass. In its latest analysis from 23 February, the promotional bank assumes that German economic growth is likely to stagnate in Q1/2024. In the previous quarter, real GDP fell by -0.3%, having previously stagnated on average over the course of over a whole year. A significant decline in investment in machinery and equipment (-3.5%) decisively contributed to the shrinking economic output at the end of 2023. In this segment, KfW argues that the end of the environmental bonus for the purchase of for commercial used electric vehicles at the end of August 2023 had a significant impact, as many companies conducted forward investments which therefore did not materialise in the subsequent period. In 2023, there was also a GDP contraction rate of -0.3% for the year as a whole, with consumption and residential construction in particular putting the brakes on annual real growth. For Q1/2024, however, KfW is forecasting stagnation, but also emphasises the possibility of another minor GDP contraction, bringing the risk of a technical recession in the winter half-year within the realms of possibility. In addition to weak monthly indicators in the producing and retail turnover sectors, the current economic environment is being negatively impacted by high illness rates in companies as well as (ongoing) strikes in the railway and aviation sector. However, the economy is likely to gain speed again over the course of the year. A slight increase in GDP of +0.3% is expected for 2024 as a whole. The unfavourable start to the year prompted KfW to revise its previous forecast of +0.6% downwards. However, falling inflation, rising nominal wages, the stable labour market and recovering global trade provide the conditions for a recovery induced by private consumption and exports and therefore positive economic growth. This is likely to continue in 2025: German GDP is forecast to increase by +1.2% next year. Given the numerous crises and challenges, including in particular transitioning the economy and society to carbon neutrality, the return to growth this year and next offers some reasons to be cheerful. According to the Ecological Price Tag for GDP, introduced by KfW in the autumn of 2022, a further reduction in greenhouse gas (GHG) emissions can be expected. The annual caps on GHG emissions newly introduced for the current decade under the amendment to the Federal Climate Change Act will presumably be met in the forecast period covering 2023–2025. In terms of the inflation rate, it can be stated that price pressure across the economy is easing further in line with expectations. In this context, inflation in Germany, as measured by the year-on-year variation of the Harmonised Index of Consumer Prices (HICP), dropped by a significant 0.7 percentage points to 3.1% in January. KfW believes that the scope for companies to increase prices is currently noticeably limited due to the economic weakness. For this reason, an average inflation rate in Germany of +2.5% is assumed for 2024. Annual inflation will likely reach the monetary policy target of +2.0% again in 2025. Risks in relation to higher than expected inflation are centred around the continued fragile geopolitical environment and service inflation stubbornly persisting at higher level than anticipated. With regard to the economy in the euro area, KfW expects economic growth in 2024 to be similar to the previous year at +0.6%. After a sluggish start in Q1/2024, the pace is likely to pick up over the course of the year. The ECB's monetary policy turnaround this year and the high growth rates in southern European countries are key drivers of this development. With regard to inflation in the eurozone, KfW continues to forecast a value of +2.3%.

CEB: preliminary results for 2023 published

The Council of Europe Development Bank (CEB, ticker: COE) published its preliminary business results for 2023 at the end of January 2024. Last year, the multilateral development bank fully implemented its Strategic Framework 2023-2027 for the first time. A total of EUR 4.1bn in new loans was approved, including EUR 3.7bn in accordance with the principles of the framework. In line with the CEB's mandate, 48 new social investments focused on improving people's living environment and creating more inclusive and resilient societies in the member countries. At the meeting of the Governing Board in November 2023, the CEB approved its first loan to Ukraine in the amount of EUR 100m, after the country only joined the CEB in June 2023. The CEB's preliminary unaudited results for 2023 show a net financial profit of EUR 108.8m, an increase of +36.6% year on year. This increase is mainly due to the high interest rate environment. The core earnings, which excludes volatile elements such as risk costs and the valuation of financial instruments, stood at EUR 116.2m at the end of 2023. This in turn corresponds to an increase of +39.1% compared with year-end 2022. The preliminary figures also show that the CEB has complied with all the ratios set out in its risk management framework. As in previous years, no credit default, credit risk events or late payment was recorded during the reporting period. On the funding side, the CEB continued to be active primarily as an issuer of social bonds. To support its social operations, a total of six Social Inclusion Bonds (SIBs) with a total volume of EUR 2.3bn were successfully issued across five different currencies. This included a EUR 1.0bn benchmark bond in the seven-year maturity segment, which was issued in April 2023. The social bond carries a coupon of 2.875% and has a current yield of around 2.9% as at 4 March 2024. Thanks to its strong loan performance, improved capitalisation and lower credit risk, as well as its increasing political relevance, the CEB regained its full "AAA" rating in 2023. The official financial statements for 2023 are expected to be submitted to the Governing Board for approval in April 2024.

KBN: larger market share and profitable growth in Q4/2023

The Norwegian municipal financier Kommunalbanken (ticker: KBN) presented its results for Q4/2023 in mid-February 2024. According to the press release, the bank's lending grew by NOK 26bn (equivalent to around EUR 2.3bn) in 2023, while its market share also increased to 51.1%. By way of comparison, at the end of 2022, KBN's market share was still 49.7%. Net interest income rose to NOK 2.1m last year. (2022: NOK 1.9m). Looking at the figures from Q4/2023, core earnings increased to NOK 273m, as against NOK 242m in Q4/2022. The aforementioned increase in net interest income due to higher interest rates was the main reason for the growth in core earnings. In turn, profit increased to NOK 566m (Q4/2022: NOK 224m). Jannicke Trumpy Granquist, CEO of KBN, summarised the quarter and the year as a whole as follows: "In 2023, we have increased our market share, increased interest income and had good growth in green lending. Now that the figures from the IV. quarter are clear, we can state that 2023 was a very positive year for KBN."

Primary market

There are not too many deals in the SSA segment to report on from the past trading week. The flood of emissions since the beginning of the year has now noticeably lost momentum. The upcoming ECB meeting on Thursday will also play its part, and as usual we published our forecast in detail in our ECB Preview of 27 February, in addition to a brief overview at the beginning of this Market Overview section. Nevertheless, this section usually fills up as if by magic, as this week we have three benchmarks, a tap, four mandates and the results of the last EU bond auction all to discuss. The marketing phase for the mandate of a fresh benchmark with a volume of EUR 1bn from Schleswig-Holstein (ticker: SCHHOL), which we already commented on in the previous edition, started right away on Wednesday. The bond in the seven-year maturity segment with a coupon of 2.875% was brought to investors at ms +13bp in line with guidance. The order book of EUR 1.15bn suggests that the North German state's first new issue of 2024 was spot on. Staying in Germany: the state of Hesse (ticker: HESSEN) decided to raise a fresh EUR 1bn with a term of 15 years, which was last chosen by one of the German Laender for a new deal almost three years ago. After an initial guidance of ms +38bp was announced at the beginning of the book-building process, the high demand with a corresponding order book totalling EUR 2.8bn meant that the price was finally successfully tightened by two basis points to ms +36bp. This was already the federal state's third new issue this year. HESSEN has therefore already raised a total of EUR 3bn on the capital market through new issues in 2024. Saxony (ticker: SAXONY) was the third German federal state to complete the trio yesterday (Tuesday). The East Germans ventured on to the trading floor with a fresh EUR 500m (6y) bond. The spread at the end of the marketing phase was ms +8bp (guidance: ms +8bp area). We also have one tap to comment on: the International Development Association (Ticker: IDAWBG) decided to increase its long IDAWBG 3.8% 11/03/2053 by EUR 400m at ms +74bp. As of 5 March, the bond yields 3.4%. We would also like to share with you the results of the latest EU bond auction last Monday: With EU 3.125% 05/12/2028 and EU 3.375% 04/10/2038, two bonds were directly tapped. The bond with the shorter maturity was increased in volume by EUR 2.747bn and the one with the longer maturity by EUR 1.703bn. The bid-to-cover ratios were 1.19x and 1.3x, respectively. Based on the mandates that have been issued, we expect to see the following deals on our screens in the near future: After steering clear of the market for nearly 2.5 years, New Zealand's Auckland Council (ticker: AUCKCN) is once again planning to issue a EUR benchmark in green format based on its own Sustainable Finance Framework, while Île-de-France Mobilités (ticker: IDFMOB) is also planning to issue a EUR benchmark in the green segment. A global investor call and a series of investor meetings are to be arranged for this purpose. Moreover, Berlin (ticker: BERGER) looks set to approach investors with a dual tranche deal comprising a benchmark (30y) and a tap (EUR 500m, WNG, 2028). Finally, the Polish issuer Bank Gospodarstwa Krajowego (ticker: BGOSK) has also issued a mandate for a dual tranche made up of two bonds (8y and 15y), for which the bank is in the process of organising a roadshow and is additionally available for individual investor talks.

Issuer	Country	Timing	ISIN	Maturity	Size	Spread	Rating	ESG
SAXONY	DE	05.03.	DE0001789378	6.0y	0.50bn	ms +8bp	- / - / AAA	-
HESSEN	DE	29.02.	DE000A1RQES0	15.0y	1.00bn	ms +36bp	- / - / AA+	-
SCHHOL	DE	28.02.	DE000SHFM923	7.0y	1.00bn	ms +13bp	AAA / - / -	-

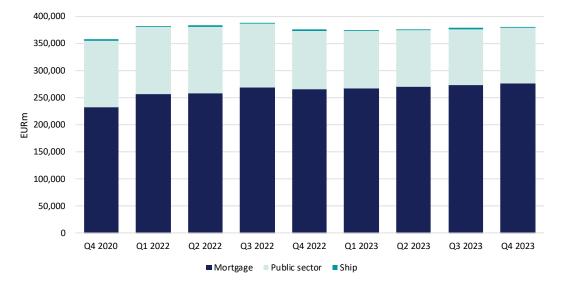
Source: Bloomberg, NORD/LB Floor Research (Rating: Fitch / Moody's / S&P)

Covered Bonds Transparency requirements §28 PfandBG Q4/2023

Authors: Dr Frederik Kunze // Lukas Kühne

Transparency disclosures under §28 PfandBG: A look at the German Pfandbrief market

In the current issuing year, German Pfandbrief banks are once again among the key drivers on the primary market, in terms of both the EUR benchmark segment and the EUR subbenchmark segment. In our view, delving deeper into the composition of the cover pools of German Pfandbrief issuers also provides a little more clarity about the CRE exposure and its forms among the Pfandbrief issuers analysed. The main focus here is on both the type of cover (residential vs. commercial) and the geographical distribution of the properties. In this context, the transparency requirements of §28 PfandBG currently also represent an important input variable. The reporting obligations for Pfandbrief banks required in this context in accordance with §28 PfandBG, which have been extended once again in the course of implementing the EU Covered Bond Directive, are fulfilled for the majority of issuers by the Association of German Pfandbrief Banks (vdp), as part of the transparency reports on a quarterly basis. This database also provides us with a very important basis for our NORD/LB Covered Bond Special "Transparency requirements §28 PfandBG Q4/2023", which we published at the beginning of this trading week. The cover pool data for 37 mortgage Pfandbrief programmes and 21 public-sector Pfandbrief programmes, as well as two ship Pfandbrief programmes, are presented here. In the quarter under review, we have again manually added the information on Deutsche Bank's cover pool that is not reported on the vdp website. Below, we summarise the main developments and key messages from the transparency reports at the end of Q4 2023.



Development of outstanding Pfandbrief volume

Source: vdp, Deutsche Bank, NORD/LB Floor Research

Pfandbrief circulation: total volume rose once again

At EUR 381.1bn in outstanding Pfandbriefe, the total volume rose again compared with the previous quarter (reporting date: 30 September 2023: EUR 379.4bn). This marks the fourth increase in a row. Compared with the previous quarter, the outstanding mortgage Pfandbrief volume increased by EUR 3.9bn to EUR 277.5bn. The absolute increase of EUR 11.5bn compared with the same quarter in 2022 is quite considerable. The volume of public-sector Pfandbriefe fell again (EUR -1.9m or -1.8% Q/Q) to EUR 102.2bn. The volume of outstanding ship Pfandbriefe (Schipfe) fell by EUR 310m to EUR 1.4bn. At 72.8%, mortgage Pfandbriefe thus continue to account for the largest share of the Pfandbrief market in the definition considered here.

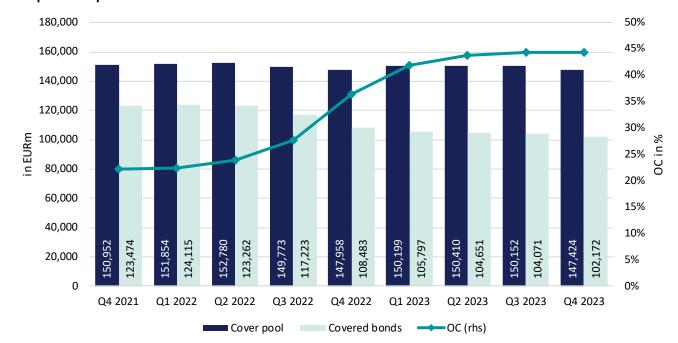


Development of mortgage Pfandbriefe

Source: vdp, Deutsche Bank, NORD/LB Floor Research

Mortgage Pfandbriefe: OC ratio increased to 35.9%

As already mentioned, mortgage Pfandbriefe totalled a volume of EUR 277.5bn. This contrasts with a cover pool volume of EUR 370.4bn, resulting in an arithmetical overcollateralisation (OC) ratio of EUR 99.6bn or 35.9% (previous quarter: EUR 96.8bn or 35.4%). In our opinion, this average analysis therefore does not yet indicate a shortage of cover assets that should affect the issuance potential in the coming quarters. On the contrary, issuers were able to raise the OC ratio overall, although the outstanding volume increased. At issuer level, the increase in ING-DiBa's outstanding volume of EUR 4.0bn stands out in the reporting date analysis. Münchener Hypothekenbank also recorded an increase of around EUR 1.5bn. Compared with the previous year, the issuer even recorded an increase of EUR 3.5bn in the outstanding volume. In addition, the significant declines at UniCredit Bank (EUR -740m) and Bayerische Landesbank (EUR -993m) are also worthy of note.



Development of public sector Pfandbriefe

Source: vdp, Deutsche Bank, NORD/LB Floor Research

Public sector Pfandbriefe: Volume decline continues in the fourth quarter

The public sector Pfandbriefe segment maintained its downward trend in the fourth quarter. In the current reporting period, the volume of bonds still amounted to EUR 102.1bn (previous quarter: EUR 104.0bn). The volume of cover assets also fell slightly compared with the previous period and now stands at EUR 147.4bn (previous quarter: EUR 150.2bn). The arithmetical OC ratio therefore comes to 44.3% and is at the same level as the previous quarter. We see the isolated consideration of the growing cover pools as an indication of adequate issuance potential in the future. We at least stand by our assessment that the decline in the outstanding volume of public sector Pfandbriefe will not necessarily continue at the same rate as we have seen in recent years. In our opinion, this should also materialise in the EUR benchmark segment and the EUR sub-benchmark segment. At issuer level, the increase at UniCredit Bank is striking. Outstanding Pfandbriefe increased here by EUR 887m versus the previous quarter. At EUR 2.1bn, the increase compared with the same quarter of the previous year is even more pronounced. By contrast, Landesbank Hessen-Thüringen (EUR -2.1bn), Commerzbank (EUR -1.1bn) and Bayerische Landesbank (EUR -540m) recorded significant declines.

Ship Pfandbriefe remain a niche product

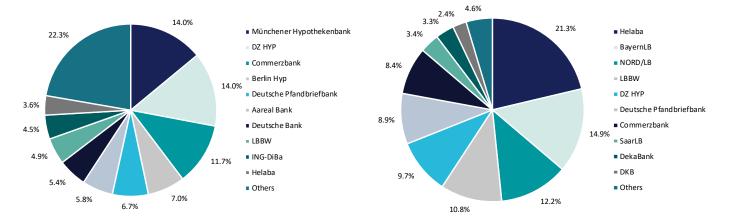
With a share of 0.4% of the total volume, the ship Pfandbriefe segment is still a niche market within the Pfandbrief market. Outstanding ship Pfandbriefe (Schipfe) decreased further from EUR 1,759m in the previous quarter to EUR 1,449m (-17.6% Q/Q). Only two banks, Commerzbank (EUR 49m) and Hamburg Commercial Bank (EUR 1,400m), still have outstanding ship Pfandbriefe in their portfolios.

A look at the top 10

In terms of the top 10 largest mortgage Pfandbrief issuers by outstanding volume, Münchener Hypothekenbank and DZ HYP share first place as at the reporting date of 31 December 2023, each with a share of 14.0%, followed by Commerzbank (11.7%) and Berlin Hyp (7.0%). The ten largest issuers account for a total of 77.7% of the outstanding volume. This share is 93.5% for public sector Pfandbriefe. Helaba, BayernLB, NORD/LB, LBBW and DZ HYP continue to occupy the top five spots in this regard, followed by Deutsche Pfandbriefbank and Commerzbank in the next two positions.

Market shares of mortgage Pfandbriefe

Market shares of public sector Pfandbriefe



Source: vdp, Deutsche Bank, NORD/LB Floor Research

Additional information on the German Pfandbrief market as part of our coverage

In addition to the evaluation presented here, which offers more of a general overview, assessments at the level of the individual pools or programmes should not be neglected. For a more detailed description, we again refer you – with regard to the German market – to our <u>"§28 Study</u>". For example, the overview table on page 5 shows which mortgage cover pools have a high proportion of commercial assets, while the publication additionally looks at the geographical distribution. For a more international view, please refer to the <u>NORD/LB Issuer Guide Covered Bonds 2023</u>. In this publication, we provide a comprehensive overview of all issuers active in the EUR benchmark segment and/or EUR subbenchmark segment at the time of going to print.

Conclusion

The German Pfandbrief market remained on its growth trajectory in the fourth quarter of 2023, with mortgage Pfandbriefe largely responsible for driving this development. We believe that the §28 PfandBG reports provide a good basis for analysis, allowing deeper insights into the data structure of the cover pools of German Pfandbrief issuers, including information on the proportion of commercial cover pool assets and OC ratios. In our opinion, these are consistently adequate, which means that nothing should stand in the way of further growth on the Pfandbrief market.

SSA/Public Issuers Current LCR classification for our SSA coverage

Authors: Dr Norman Rudschuck, CIIA // Lukas-Finn Frese

Objective of the LCR: reduction in liquidity risks for credit institutions

The objective of the LCR is to control the liquidity risk of a credit institution in such a way that sufficient High-Quality Liquid Assets (HQLA) are available at all times in order to survive a significant stress scenario lasting 30 days. It comprises the minimum liquidity buffer, which is required in order to bridge liquidity mismatches of one month in crisis situations. Specifically, the LCR is calculated from the ratio of HQLA to the net payment outflows in the 30-day stress scenario, whereby this ratio must be at least 100%.

10 October 2014: European Commission publishes LCR Regulation

After there had been a lack of clarity for a long time about the precise definition of HQLA, as well as the EBA recommendation published at the end of 2013 only leading to further uncertainty, the <u>Liquidity Coverage Requirement Delegated Act</u> was finally published on 10 October 2014. This LCR legal act specified in particular which assets are to be treated as HQLA in the future. A revised version of the LCR Regulation first published in July 2018 took effect from 30 April 2020. This governs the regulation concerning assets from third countries, repo transactions, CIU shares and stocks. An update was also issued on 8 July 2022, which has resolved clashes between the specific liquidity requirements for covered bonds and the existing general liquidity requirements of the <u>CRR</u>.

Categorisation in different liquidity levels

Under the HQLA definition, the legislation, as proposed by the BCBS, divides HQLA into different liquidity levels. Depending on the assigned level, this results in upper and lower limits for certain levels and the application of possible haircuts. On the following two pages we provide a brief overview of asset classification and allocation, before analysing the implications for SSAs. Please note that in market practice, however, a distinction is occasionally made within Level 1 between Level 1A assets and Level 1B assets (Level 1 covered bonds due to obligatory haircut), even if such a linguistic distinction appears neither in the CRR nor the LCR Regulation.

min. 60% max. 40% Level 1 Level 2 "Level 1A" "Level 1B" Level 2A Level 2B min. 30% max. 70% max. 15%

Structure of the LCR portfolio (Art. 17 LCR Regulation)

Source: LCR Regulation, NORD/LB Floor Research

Classification overview

	Leve	1 assets (Art. 10 LCR Regulation)	Minimum haircut (for shares or units in CIUs)
a)	Coins	and bank notes	- (-)
b)	Follow	ving exposures to central banks:	- (-)
	(i)	Assets representing claims on or guaranteed by the ECB or an EEA member state's central bank	
	(ii)	Assets representing claims on or guaranteed by central banks of third countries (CQS 1)	
	(iii)	Reserves held by the credit institution in a central bank referred to in (i) and (ii), provided that the credit institution is permitted to withdraw such reserves at any time during stress periods and the conditions for such withdrawal have been specified in an agreement between the relevant competent authority and the ECB or the central bank	
:)		s representing claims on or guaranteed by the following central or regional governments, local authorities or c sector entities:	- (5%)
	(i)	Central government of an EEA member state	
	(ii)	Central government of a third country (CQS 1)	
	(iii)	Regional governments or local authorities and PSEs in an EEA member state, provided that they are treat- ed as exposures to the central government of the respective EEA member state (i.e. risk weighting of 0%)	
	(iv)	Regional governments or local authorities in a third country of the type referred to in (ii), provided that they are treated as exposures to the central government of the third country (i.e. same risk weighting as central government [0%])	
	(v)	PSEs, provided that they are treated as exposures to the central government of an EEA member state or to one of the regional governments or local authorities referred to in (iii), (i.e. same risk weighting of 0%).	
1)	Follow	ving assets:	- (5%)
	(i)	Assets representing claims on or guaranteed by the central government or the central bank of a third country that has not been assigned a CQS 1 (rating below AA-)	
	(ii)	Reserves held by the credit institution in a central bank referred to in (i) which meet certain conditions	
2)	Asset	s issued by credit institutions which meet at least one of the following requirements:	- (5%)
	(i)	Incorporated in, or established by the central government of, an EEA member state or the regional gov- ernment or local authority in an EEA member state; the government or local authority is under the legal obligation to protect the economic basis of the credit institution and maintain its financial viability throughout its lifetime, and any exposure to that regional government or local authority, if applicable, is treated as an exposure to the central government (i.e. risk weighting of 0%).	
	(ii)	The credit institution extends promotional loans as defined in Article 10(1)(e)(ii).	
f)	or eq	fying EEA covered bonds which meet all the requirements of Art. 10(f), including issue size at least EUR 500m uivalent in domestic currency, rating: min. CQS 1 or if no rating, a risk weighting of 10% according to 29(5) CRR.	7% (12%)
g)		s representing claims on or guaranteed by multilateral development banks and international organisations 117(2) and Art. 118 CRR respectively)	- (5%)
NB:	CQS = C	redit Quality Step (rating class) as defined in CSA	

NB: CQS = Credit Quality Step (rating class) as defined in CSA Source: LCR Regulation, NORD/LB Floor Research

Classification overview (continued)

	Level 2A assets (Art. 11 LCR Regulation)	Minimum haircut (for shares or units in CIUs)
(a)	Assets representing claims on or guaranteed by regional governments, local authorities or PSEs in an EEA member state, which are assigned a risk weighting of 20% according to Art. 115(1)(5) and Art. 116(1)(2)(3) CRR, respectively	15% (20%)
b)	Assets representing claims on or guaranteed by the central government or the central bank of, or by the regional government, local authority or PSE in a third country, which are assigned a risk weighting of 20% according to Art. 114(2) or Art. 115 respectively, or Art. 116	15% (20%)
c)	Qualifying EEA covered bonds which meet all the requirements of Art. 11(c), including issue size at least EUR 250m or equivalent in domestic currency, rating: min. CQS 2 or if no rating, a risk weighting of 20% according to Art. 129(5) CRR	15% (20%)
d)	Qualifying covered bonds from third countries which meet all the requirements of Art. 11(d), including being issued by a credit institution or a 100% subsidiary of a credit institution guaranteeing the issue, issue size at least EUR 500m or equivalent in domestic currency, rating: min. CQS 1 or if no rating, a risk weighting of 10% according to Art. 129(5) CRR	15% (20%)
	Corporate debt securities which meet all of the following requirements:	
.,	(i) CQS 1 (minimum rating AA- or equivalent in the case of a short-term credit assessment)	159/ (209/)
2)	(ii) Issue size of at least EUR 250m or equivalent in domestic currency	15% (20%)
	(iii) Maximum time to maturity of the securities at the time of issuance is 10 years	
	Level 2B assets (Art. 12 LCR Regulation)	Minimum haircut (for shares or units ir CIUs)
1)	Exposures in the form of ABS under certain conditions (Art. 13 LCR Regulation)	25-35% (30-40%)
	Corporate debt securities which meet all of the following requirements:	
)	(i) $CQS \leq 3$	50% (55%)
'	(ii) Issue size of at least EUR 250m or equivalent in domestic currency	3070 (3370)
	(iii) Maximum time to maturity of the securities at the time of issuance is 10 years	
)	Shares or units, provided that they meet certain conditions (Art. 12(1)(c) LCR Regulation)	50% (55%)
)	Restricted-use committed liquidity facilities provided by the ECB, the central bank of an EEA member state, or a third country under certain conditions (Art. 14 LCR Regulation)	- (-)
)	Qualifying EEA covered bonds which meet the requirements of Art. 12(1)(e) LCR Regulation	30% (35%)
)	Only for religiously observant credit institutions: certain non-interest bearing assets	50% (55%)
3: (CQS = Credit Quality Step (rating class) as defined in CSA	

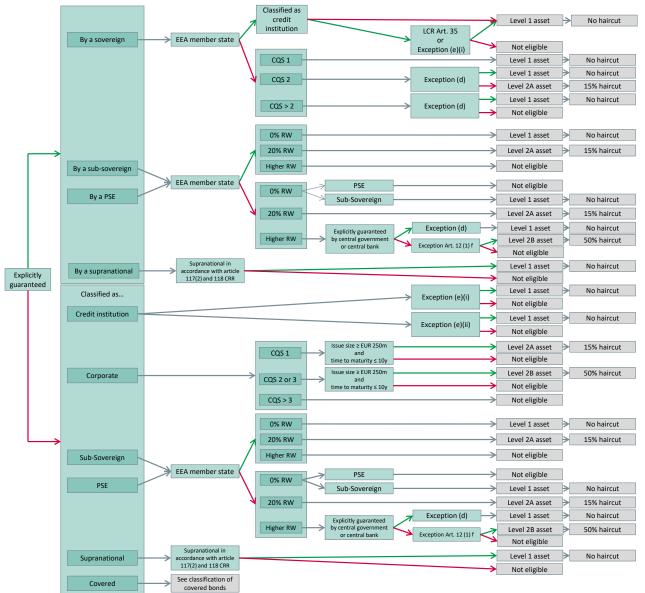
Source: LCR Regulation, NORD/LB Floor Research

Mapping table (long-term)

Rating class	Fitch	Moody's	S&P
1	AAA to AA-	Aaa to Aa3	AAA to AA-
2	A+ to A-	A1 to A3	A+ to A-
3	BBB+ to BBB-	Baa1 to Baa3	BBB+ to BBB-
4	BB+ to BB-	Ba1 to Ba3	BB+ to BB-
5	B+ to B-	B1 to B3	B+ to B-
6	CCC+ and lower	Caa1 and lower	CCC+ and lower

Source: CRR, NORD/LB Floor Research

NB: Other rating agencies indicated in <u>Regulation (EU) 2016/1799</u>



LCR classification of assets (Articles 10 - 12 LCR Regulation)

NB: stated haircuts do not apply to shares or units in CIUs; PSE = Public Sector Entity; CQS = Credit Quality Step (rating class) as defined in CSA; green = condition met; red = condition not met; grey = tbc

Source: LCR Regulation, NORD/LB Floor Research

Classification of sovereigns

Bonds from EEA states or bonds from issuers that are explicitly secured by EEA states are classified as Level 1 assets for the purposes of LCR, unless they are classified as a credit institution. For EEA issuers classified as credit institutions, classification as Level 1 assets is possible, provided that Article 35 of the LCR Regulation or Article 10(1)(e) of the LCR Regulation is applicable. Further restrictions apply to non-EEA states. Bonds issued by non-EEA sovereigns have to be rated at least AA-/Aa3 to be eligible as Level 1 assets. Government bonds qualify for a Level 2A classification if a risk weighting of 20% according to the CRR standardised approach can be applied, i.e. if they have a rating of at least A-/A3.

Exemption Art. 10(1)(d) LCR Regulation

However, an exemption is provided for ratings lower than AA-/Aa3 through point (d). Consequently, bonds of corresponding non-EEA states can also be declared a Level 1 asset by a credit institution to cover liquidity outflows in the same currency in which the bond is denominated. However, the eligibility as Level 1 asset is limited to the extent of the calculated net liquidity outflows in periods of stress. If the currency of the bond in question does not correspond to the domestic currency of the relevant country, credit institutions can only classify the bond as a Level 1 asset up to the amount of the credit institution's stressed net liquidity outflows in that foreign currency, corresponding to its operations in the jurisdiction where the liquidity risk is taken on. Exemption (d) also applies to bonds that are guaranteed by countries with ratings lower than AA-/Aa3.

Exemption Article 10(1)(e) LCR Regulation

Article 10(1)(e) of the LCR Regulation makes it possible to classify bonds issued by banks as Level 1 assets. Bank securities are otherwise not regarded as liquid assets, apart from certain covered bonds. This is subject to the condition that exposures to the respective regional governments or local authorities (RGLAs; referred to below as sub-sovereigns) can be treated as exposures to the relevant central government for regulatory purposes. This condition stipulates that a risk weighting of 0% can be applied under the CRR standardised approach.

(i)

This exemption relates to credit institutions established by the central government or a sub-sovereign of an EEA member state, or which have their registered office in an EEA state, and for which a corresponding guarantee also exists. If the central government or the sub-sovereign(s) is/are consequently legally obliged to protect the economic basis and to maintain the financial viability indefinitely, bonds of these credit institutions can be classified as Level 1 assets.

(ii)

This exemption relates to credit institutions that are promotional lenders. They fulfil three criteria:

- Purpose is to advance public policy objectives of the EU, an EEA central government or an EEA sub-sovereign
- Provision of loans on a non-competitive, not-for-profit basis
- Loans granted are directly or indirectly guaranteed to at least 90% by the central government or (a) sub-sovereign(s)

Explicitly guaranteed bank bonds

Under Article 35 of the LCR, bonds from credit institutions with a guarantee from an EEA central government also qualify as Level 1 assets. At a glance, the conditions are as follows:

- 1. Guarantee by an EEA member state, assuming the guarantee was awarded prior to 30 June 2014 for a maximum amount and the guarantee is direct, explicit, irrevocable and unconditional, and covers payments of interest and principal.
- 2. If the guarantor is a sub-sovereign of an EEA member state, a 0% risk weighting can be applied and the guarantee conditions as per condition 1 must be met.
- 3. As long as there is a guarantee, a Level 1 classification is possible. If the guarantee amount is increased after 30 June 2014, the respective bonds are eligible for inclusion only up to the maximum guarantee amount in place prior to 30 June 2014.
- 4. Bank bonds with an explicit guarantee are treated just like any other stateguaranteed assets in the context of the LCR.
- 5. If there is a guarantee mechanism in place for a credit institution or its bonds, the mechanism as a whole shall apply as a guarantee for the purposes of this article.

SSAs: classification depends on several factors

The classification for SSAs is relatively complex, as it depends on several steps. If a guarantee is given for an issuer or its bonds, the liquidity category is based on the classification of the guarantor. For agencies with an explicit guarantee from an EEA member state, this means, for example, that they are assigned to Level 1. If no guarantee is given, classification is more complex in that different classifications apply depending on whether the SSA is in regulatory terms a sub-sovereign, public sector entity (PSE), supranational or corporate. In specific cases, the exemptions above may apply.

Classification of supranationals

The classification of supranationals is the simplest of all the SSAs in that claims on or guaranteed by supranationals listed in Articles 117(2) and 118 CRR are assigned to Level 1. Through Article 118(f), they also include financial institutions that were established by at least two EEA member states and whose purpose it is to mobilise funding and provide financial assistance to the benefit of its members that are experiencing or threatened by severe financial problems. If a supranational does not meet this criterion and/or is not mentioned in the two CRR articles, bonds of these institutions may not be classified as either Level 1 or Level 2 assets. Within our coverage, this directly affects EUROFIMA and the South American CAF, for example, as their bonds are not therefore eligible for inclusion as liquid assets.

LCR classification of assets representing claims on or guaranteed by supranationals: Level 1 issuers

Issuer (Bloomberg ticker)	CRR Article
International Bank for Reconstruction and Development (IBRD)	Art. 117(2)(a)
International Finance Corporation (IFC)	Art. 117(2)(b)
Inter-American Development Bank (IADB)	Art. 117(2)(c)
Asian Development Bank (ASIA)	Art. 117(2)(d)
African Development Bank (AFDB)	Art. 117(2)(e)
Council of Europe Development Bank (COE)	Art. 117(2)(f)
Nordic Investment Bank (NIB)	Art. 117(2)(g)
Caribbean Development Bank (CARDEV)	Art. 117(2)(h)
European Bank for Reconstruction and Development (EBRD)	Art. 117(2)(i)
European Investment Bank (EIB)	Art. 117(2)(j)
European Investment Fund	Art. 117(2)(k)
Multilateral Investment Guarantee Agency (MULIGA)	Art. 117(2)(l)
International Finance Facility for Immunisation (IFFIM)	Art. 117(2)(m)
Islamic Development Bank (ISDB)	Art. 117(2)(n)
International Development Association	Art. 117(2)(o)
Asian Infrastructure Investment Bank (AIIB)	Art. 117(2)(p)
European Union (EU); European Atomic Energy Community (EURAT)	Art. 118(a)
International Monetary Fund	Art. 118(b)
Bank for International Settlements (BIS)	Art. 118(c)
European Financial Stability Facility (EFSF)	Art. 118(d)
European Stability Mechanism (ESM)	Art. 118(e)
Source: CRR, NORD/LB Floor Research	

Classification of PSEs and sub-sovereigns

The classification of PSEs and sub-sovereigns (regional governments and local authorities, RGLAs for short) is almost identical. If an explicit guarantee is given for a bond or an issuer by a central government, classification is the same as for sovereign bonds (see previous pages). If no explicit guarantee is given, classification is carried out primarily on the basis of the issuer's risk weighting. If, in regulatory terms, PSE and sub-sovereign bonds may be treated as exposures to the respective central government and a risk weighting of 0% can be applied, these issuers can accordingly be classified as Level 1. Theoretically, exceptions to this are issuers from outside the EEA where a risk weighting of 0% can be applied but there is no explicit guarantee in place. If it involves a PSE, classification is not possible. Subsovereigns can be classified as Level 1. Institutions where a risk weighting of 20% can be applied are classified as Level 2A issuers. Institutions with higher risk weightings that are based outside the EEA and have an explicit guarantee from a central bank or government can be classified as Level 1 issuers, using the conditions of Exemption (d), (see classification of sovereigns). If an explicit guarantee is not in place, a Level 2B classification as defined in Art. 12(1)(f) LCR Regulation remains an option. This refers to institutions which, due to their religious beliefs, are not permitted to hold interest-bearing assets. Bonds of other PSEs and sub-sovereigns for which the risk weighting is higher than 20% under the standardised credit risk approach cannot be classified as liquid assets.

Interim conclusion for sub-sovereigns and PSEs

The CRR, as the relevant European legislative text, frequently makes a distinction in the treatment of risk positions between positions issued within the EU and those issued outside the EU. The grounds for this classification are that the supervisory regimes differ greatly in some cases, and less so in others, from the international Basel III regulations or the European requirements. In order to avoid risks due to inadequate supervisory systems, a higher risk weighting is applied to assets issued outside the EU than to comparable positions of EU member-state origin. A list of countries where supervisory and legal regulations are regarded as being at least equally stringent to those of the EU is provided in the <u>Commission Implementing Decision (EU) 2021/1753</u>. The country of origin, e.g. New Zealand, must apply a risk weighting of 0% to its sub-sovereigns, in order for a 0% risk weighting to apply for local investors as well. The New Zealand regulator (RBNZ), for instance, does not do this, but instead assigns its sub-sovereigns a risk weighting of 20% (example: Auckland Council, the country's largest sub-sovereign (ticker: AUCKCN)).

PSE definition is gaining in importance

As a result of this classification, the PSE definition, in particular, is gaining in importance within the CRR. The CRR stipulates the basic differentiation, but national supervisory bodies or national laws may define exactly which issuers are to be classified as PSE in the home country. A public sector entity (PSE) is defined in Article 4(1)(8) CRR as:

"[...] a non-commercial administrative body responsible to central governments or regional or local authorities, or to authorities that exercise the same responsibilities as regional governments and local authorities, or a non-commercial undertaking that is owned by or set up and sponsored by central governments, regional governments or local authorities, and that has explicit guarantee arrangements, and may include self-administered bodies governed by law that are under public supervision."

PSE list provides (some) clarity

In our opinion, the existing definition is too vague. However, the EBA publishes a <u>list</u> of public sector entities whose exposure in relation to Art. 116 CRR is defined as identical to RGLAs. PSEs not on this list must nonetheless continue to be examined individually on the basis of the PSE definition.

Level 2 classification possible for non-PSEs

Agencies which are not classified as PSEs and are therefore excluded from this classification path may qualify for Level 2 classification in that if an agency is not a bank, it can be categorised as Level 2A or Level 2B issuer within the scope of the classification of corporates.

Classification of corporates

If agencies are classified as corporates in regulatory terms, there are essentially three different restrictions: ratings, issuance volume and term to maturity.

Classification of individual issuers

To determine the effects on individual issuers, we implement the LCR classification as detailed on the following pages.

LCR classification of assets representing claims on or guaranteed by regions*

lssuer	Current LCR level*
Belgian regions	Level 1
German Laender	Level 1
French regions	Level 2A
Italian regions	Level 2A
Canadian provinces & territories	Level 1
Austrian Laender	Level 1
Portuguese regions	Level 2A**
Swedish regions	Level 1
Spanish regions	Level 1

* NB: In the absence of an explicit guarantee from the respective nation state, the current LCR level is dependent on the relevant rating (see CQS classification and LCR classification of assets).

** Exemption: Guaranteed bonds from Madeira are classified as Level 1.

Source: NORD/LB Floor Research

LCR classification of assets representing claims on or guaranteed by supranationals

Issuer	Bloomberg ticker	Current LCR level
Council of Europe Development Bank	COE	Level 1
European Bank for Reconstruction and Development	EBRD	Level 1
European Financial Stability Facility	EFSF	Level 1
European Investment Bank	EIB	Level 1
European Stability Mechanism	ESM	Level 1
European Union	EU	Level 1
EUROFIMA	EUROF	Not eligible
Nordic Investment Bank	NIB	Level 1
African Development Bank	AFDB	Level 1
Asian Development Bank	ASIA	Level 1
Corporación Andina de Fomento	CAF	Not eligible
International Bank for Reconstruction and Development	IBRD	Level 1
Inter-American Development Bank	IADB	Level 1
International Finance Corporation	IFC	Level 1
Islamic Development Bank	ISDB	Level 1

Source: NORD/LB Floor Research

Clarity on supranationals, but ambiguity regarding non-explicit guarantees

While there is clarity with regard to the classification of supranationals, this is lacking for certain agencies that do not have an explicit guarantee from a central government or a sub-sovereign. Consequently, the overview on the next page, where applicable, lists our assumptions regarding liquidity level classification.

lssuer	Country	Ticker	Haircut	Rationale	Current LCR level
KfW	DE	KFW	-	Art. 10(1)(c)(i): explicit state guarantee	Level 1
Rentenbank	DE	RENTEN	-	Art. 10(1)(c)(i): explicit state guarantee	Level 1
FMS-WM	DE	FMSWER	-	Art. 10(1)(c)(v): FMS-WM classified as PSE	Level 1
EAA	DE	ERSTAA	-	Art. 10(1)(c)(v): EAA classified as PSE	Level 1
NRW.BANK	DE	NRWBK	-	Art. 10(1)(c)(iii): explicit guarantee from regional government	Level 1
Bank	DE	LBANK	-	Art. 10(1)(c)(iii): explicit guarantee from regional government	Level 1
WIBank	DE	WIBANK	-	Art. 10(1)(c)(iii): explicit guarantee from regional government	Level 1
_fA	DE	BAYLAN	-	Art. 10(1)(c)(iii): explicit guarantee from regional government	Level 1
B.SH	DE	IBBSH	-	Art. 10(1)(c)(iii): explicit guarantee from regional government	Level 1
BayernLabo	DE	BYLABO	-	Art. 10(1)(c)(iii): explicit guarantee from regional government	Level 1
BB	DE	IBB	-	Art. 10(1)(c)(iii): explicit guarantee from regional government	Level 1
LBB	DE	ILBB	-	Art. 10(1)(c)(iii): explicit guarantee from regional government	Level 1
SAB	DE	SABFOE	-	Art. 10(1)(c)(iii): explicit guarantee from regional government	Level 1
SBRLP	DE	ISBRLP	-	Art. 10(1)(c)(iii): explicit guarantee from regional government	Level 1
IFBHH	DE	IFBHH	-	Art. 10(1)(c)(iii): explicit guarantee from regional government	Level 1

LCR classification of assets representing claims on or guaranteed by agencies

Source: NORD/LB Floor Research

Issuer	Country	Ticker	Haircut	Rationale	Current LCR level
CADES	FR	CADES	_	Art. 10(1)(c)(i): PSE with risk weighting of 0%*	Level 1
AFD	FR	AGFRNC	-	-	Not eligible
Unédic	FR	UNEDIC	-	Art. 10(1)(c)(i): PSE with risk weighting of 0%*	Level 1
CDC	FR	CDCEPS	-	Art. 10(1)(c)(v): PSE with risk weighting of 0%*	Level 1
Bpifrance	FR	BPIFRA	-	Level 1 classification in line with Art. 10(1)(e)(i)	Level 1
SAGESS	FR	SAGESS	15%	Art. 11(1)(a): PSE with risk weighting of 20%	Level 2A
AFL	FR	AFLBNK	15%	Art. 11(1)(b): explicit guarantee from RGLAs with risk weighting of 20%	Level 2A
SFIL	FR	SFILFR	-	Level 1 classification in line with Art. 10(1)(e)(i)	Level 1
SGP	FR	SOGRPR	15%	Art. 11(1)(a): PSE with risk weighting of 20%	Level 2A
3CIF	FR	CCCI	-	Art. 10(1)(c)(i): explicit state guarantee	Level 1
BNG	NL	BNG	-	Art. 10(1)(e)(ii): promotional credit institution**	Level 1
NWB	NL	NEDWBK	-	Art. 10(1)(e)(ii): promotional credit institution**	Level 1
FMO	NL	NEDFIN	-	Art. 10(1)(c)(i): explicit state guarantee	Level 1
ОеКВ	AT	ОКВ	-	Art. 10(1)(c)(i): explicit state guarantee	Level 1
ÖBB- Infrastruktur	AT	OBND	-	Art. 10(1)(c)(i): explicit state guarantee	Level 1
ASFiNAG	AT	ASFING	-	Art. 10(1)(c)(i): explicit state guarantee	Level 1

LCR classification of assets representing claims on or guaranteed by agencies (continued)

* According to classification of Banque de France
 ** Applicability of Article 10(1)(e)(i) confirmed by De Nederlandsche Bank.

Source: NORD/LB Floor Research

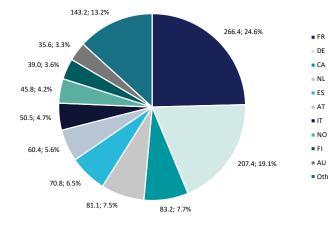
lssuer	Country	Ticker	Haircut	Rationale	Current LCR level
KBN	NO	KBN	15%	Art. 11(1)(a): PSE with RW of 20%	Level 2A
SEK	SE	SEK	15%	Level 2A classification in line with Art. 11(1)(a)	Level 2A
Kommun- invest	SE	KOMINS	-	Level 1 classification in line with Art. 10(1)(e)(i)	Level 1
MuniFin	FI	KUNTA	-	Art. 10(1)(c)(v): explicit guarantee from PSE	Level 1
Kommune- Kredit	DK	KOMMUN	-	Art. 10(c)(iv): explicit guarantee from RGLA with risk weighting of 0%	Level 1
Finnvera	FI	FINNVE	-	Art. 10(1)(c)(i): explicit state guarantee	Level 1
ICO	ES	ICO	-	Art. 10(1)(c)(i): explicit state guarantee	Level 1
FADE	ES	FADE	-	Art. 10(1)(c)(i): explicit state guarantee	Level 1
ADIF-AV	ES	ADIFAL	-	Art. 10(1)(c)(v): PSE with risk weighting of 0%	Level 1
CORES	ES	CORES	-	Art. 11(1)(a): PSE with RW of 50%	Not eligible
CDP	IT	CDEP	-	Not a corporate, RW too high to apply Art. 11(1)(a)	Not eligible
REFER	РТ	REFER	-	Art. 10(1)(c)(i): explicit state guarantee (only guaranteed bonds)	Level 1 (guaranteed bonds)
BGK	PL	BGOSK	-	Art. 10(1)(c)(i): explicit state guarantee (only guaranteed bonds)	Level 1 (guaranteed bonds)
EXIM	HU	MAEXIM	-	Art. 10(1)(c)(i): explicit state guarantee	Level 1
DCL	BE	DEXGRP	-	Art. 10(1)(c)(i): explicit state guarantee (only guaranteed bonds)	Level 1 (guaranteed bonds)
JFM	JP	JFM	15%	Art. 11(1)(b): explicit state guarantee (only guaranteed bonds)	Level 2A (guaranteed bonds)
KDB	КО	KDB	15%	Level 2A classification in line with Art. 11(1)(b)	Level 2A
KEXIM	КО	EIBKOR	15%	Level 2A classification in line with Art. 11(1)(b)	Level 2A
DBJ	JP	DBJJP	15%	Art. 11(1)(b) explicit state guarantee (only guaranteed bonds)	Level 2A (guaranteed bonds)
IBK	КО	INDKOR	15%	Level 2A classification in line with Art. 11(1)(b)	Level 2A
EDC	CA	EDC	-	Art. 11(1)(b) explicit state guarantee	Level 1
CDB	CN	SDBC	-	Not a corporate, RW too high to apply Art. 11(1)(a)	Not eligible

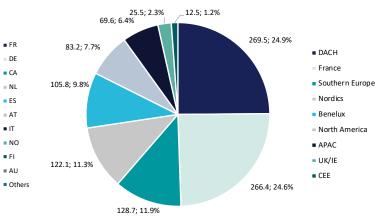
LCR classification of assets representing claims on or guaranteed by agencies (continued)

Source: NORD/LB Floor Research

Charts & Figures Covered Bonds

EUR benchmark volume by country (in EURbn)





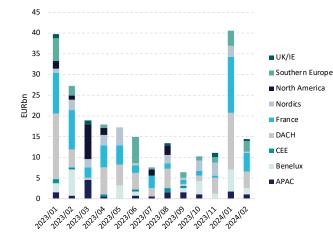
EUR benchmark volume by region (in EURbn)

Top-10 jurisdictions

Rank	Country	Amount outst. (EURbn)	No. of BMKs	There of ESG BMKs	Avg. issue size (EURbn)	Avg. initial maturity (in years)	Avg. mod. Duration (in years)	Avg. coupon (in %)
1	FR	266.4	256	24	0.97	9.3	4.9	1.38
2	DE	207.4	296	39	0.65	7.8	4.1	1.35
3	CA	83.2	61	0	1.34	5.6	2.7	1.24
4	NL	81.1	81	3	0.94	10.5	6.1	1.25
5	ES	70.8	56	5	1.15	11.0	3.2	2.05
6	AT	60.4	101	5	0.59	8.1	4.5	1.49
7	IT	50.5	63	4	0.77	8.6	3.9	1.77
8	NO	45.8	55	12	0.83	7.3	3.7	0.88
9	FI	39.0	43	4	0.89	6.9	3.6	1.56
10	AU	35.6	34	0	1.05	7.2	3.3	1.60

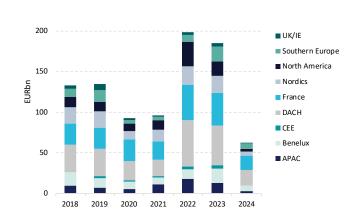
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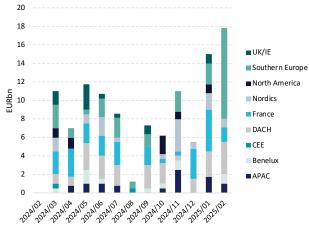
EUR benchmark issue volume by month



Source: market data, Bloomberg, NORD/LB Floor Research

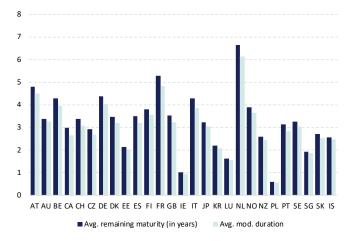
EUR benchmark issue volume by year



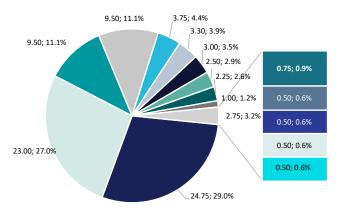


EUR benchmark maturities by month

Modified duration and time to maturity by country



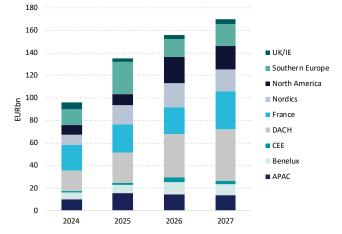
EUR benchmark volume (ESG) by country (in EURbn)



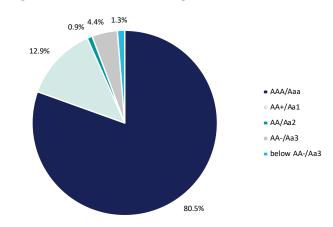
• DE = FR • KR = NO • FI = ES • AT • NL • IT = SE • BE • PL • SK = CZ • GB

Source: market data, Bloomberg, NORD/LB Floor Research

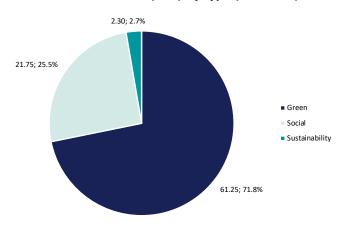
EUR benchmark maturities by year

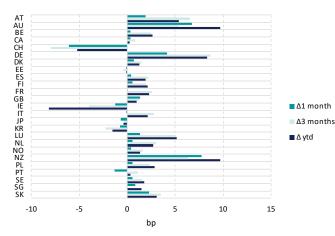


Rating distribution (volume weighted)



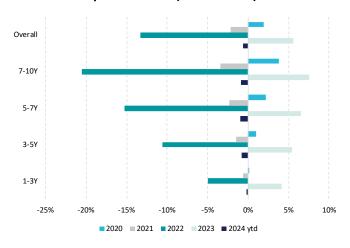
EUR benchmark volume (ESG) by type (in EURbn)



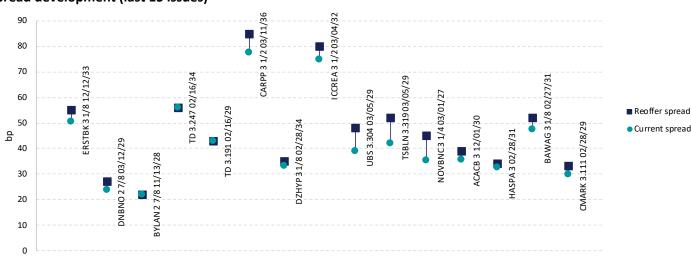


Spread development by country

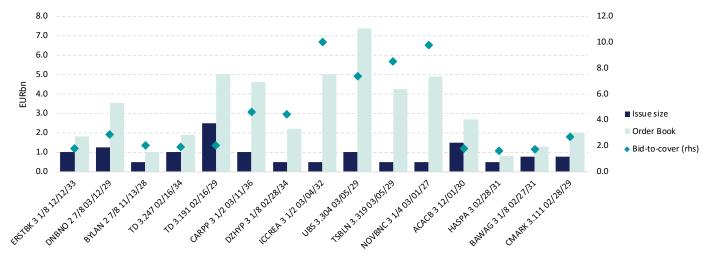




Covered bond performance (Total return)

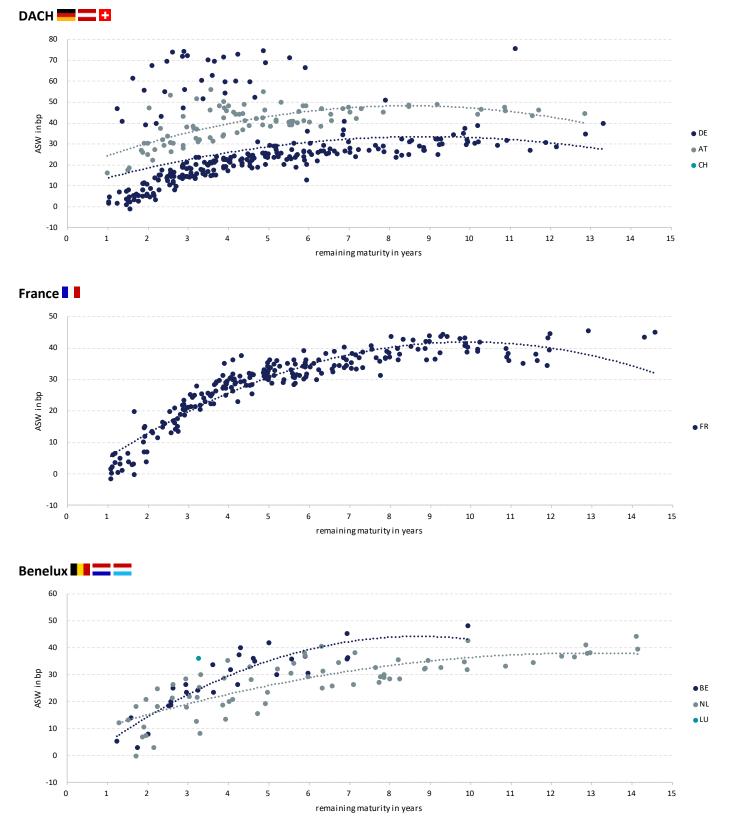


Order books (last 15 issues)



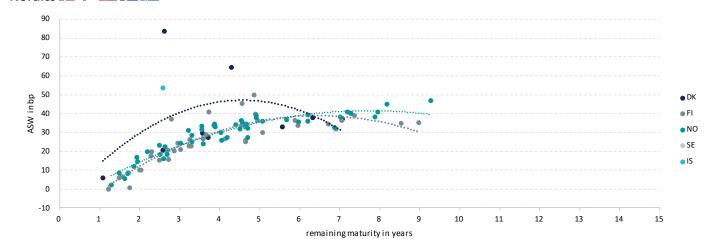
Source: market data, Bloomberg, NORD/LB Floor Research

Spread overview¹

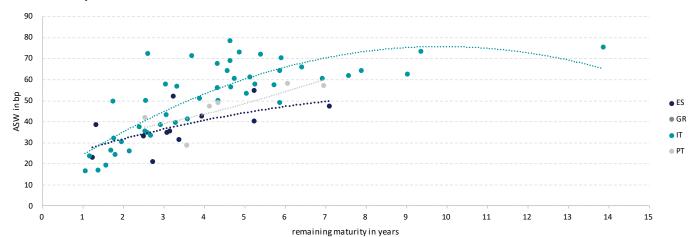


Source: market data, Bloomberg, NORD/LB Floor Research ¹Time to maturity $1 \le y \le 15$

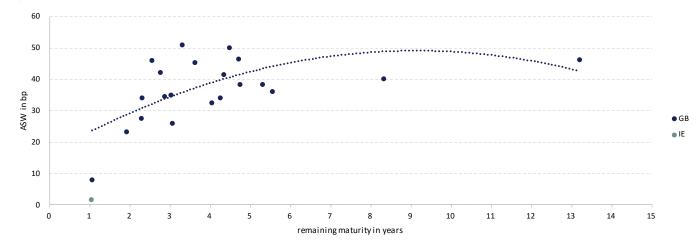




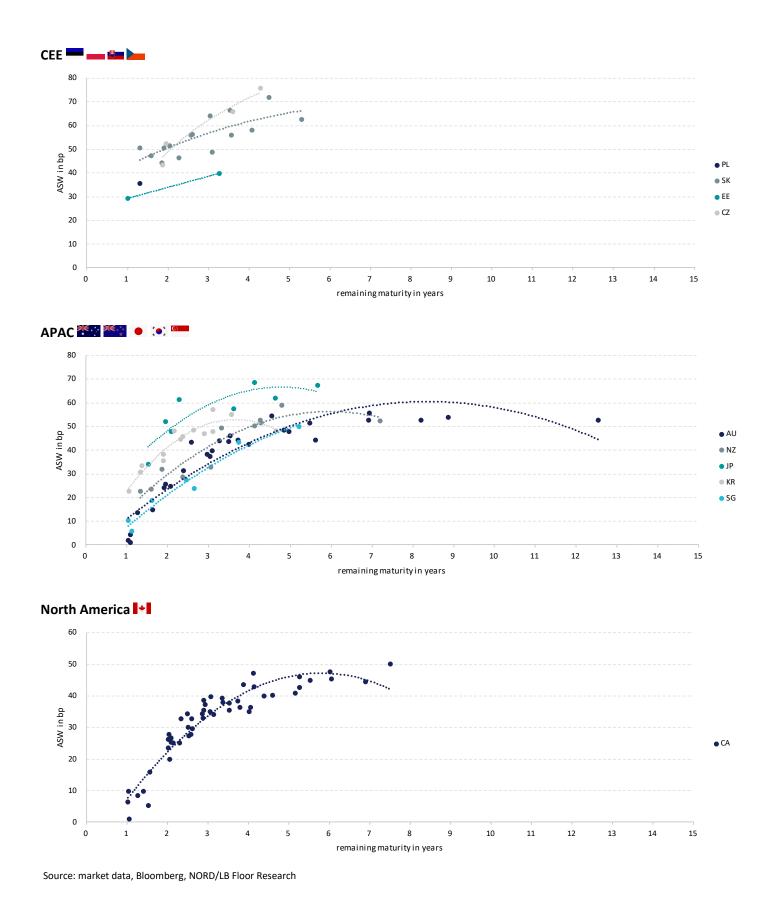
Southern Europe 🏊 🔚 🛯 💿



UK/IE

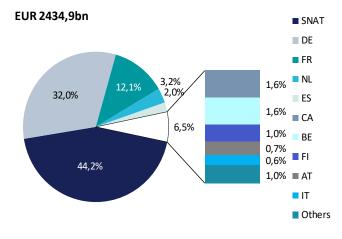


Source: market data, Bloomberg, NORD/LB Floor Research



Charts & Figures SSA/Public Issuers

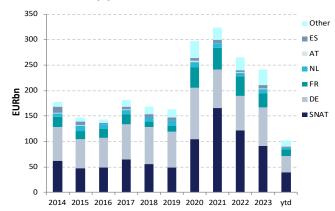
Outstanding volume (bmk)



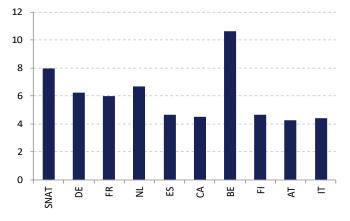
Top 10 countries (bmk)

Country	Vol. (€bn)	No. of bonds	ØVol. (€bn)	Vol. weight. ØMod. Dur.
SNAT	1.076,8	233	4,6	8,0
DE	778,9	580	1,3	6,2
FR	295,2	198	1,5	6,0
NL	77,3	67	1,2	6,7
ES	49,6	67	0,7	4,7
CA	38,1	27	1,4	4,5
BE	37,8	41	0,9	10,6
FI	23,5	25	0,9	4,7
AT	17,8	22	0,8	4,3
IT	15,2	19	0,8	4,4

Issue volume by year (bmk)



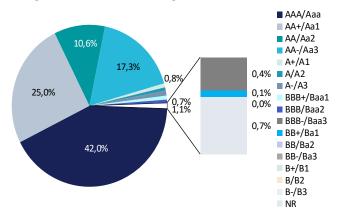
Avg. mod. duration by country (vol. weighted)



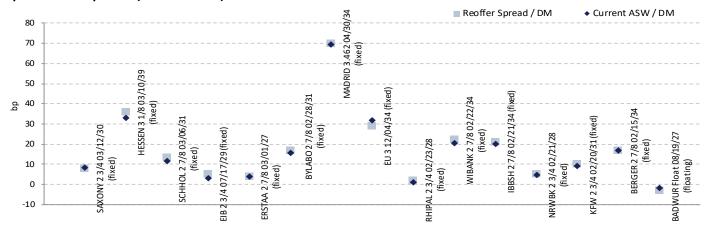
Maturities next 12 months (bmk)



Rating distribution (vol. weighted)

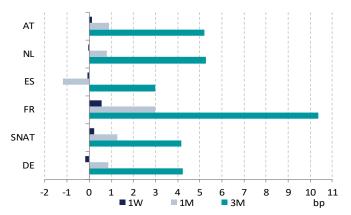


Source: Bloomberg, NORD/LB Floor Research

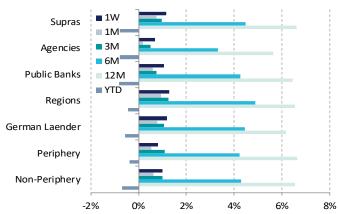


Spread development (last 15 issues)



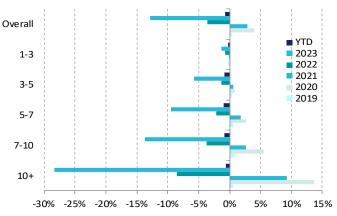


Performance (total return) by segments

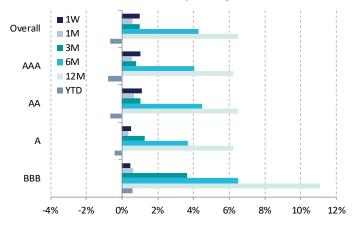


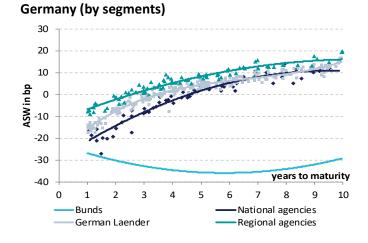
Source: Bloomberg, NORD/LB Floor Research

Performance (total return)

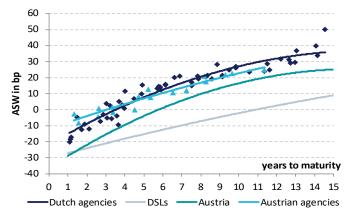


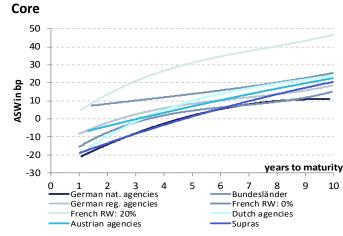
Performance (total return) by rating



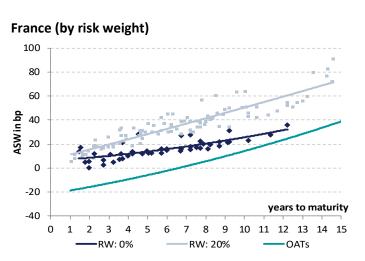


Netherlands & Austria

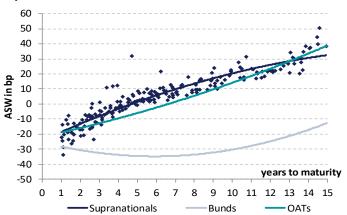




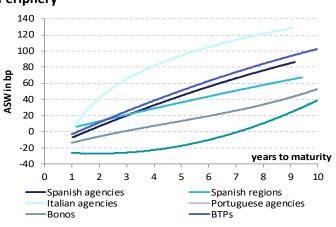








Periphery



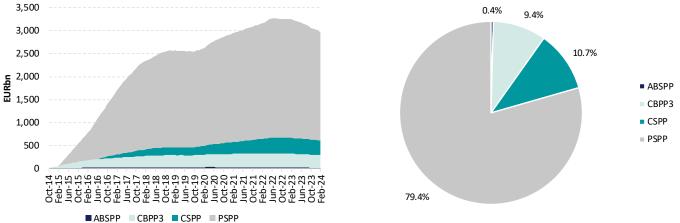
ECB tracker

Asset Purchase Programme (APP)

	ABSPP	СВРРЗ	CSPP	PSPP	APP
Jan-24	12,895	281,510	320,763	2,377,495	2,992,663
Feb-24	12,547	279,061	318,688	2,356,971	2,967,267
Δ	-347	-2,449	-2,075	-20,524	-25,395

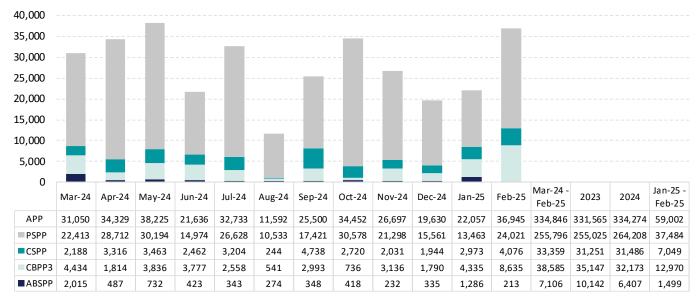
Portfolio development

Portfolio structure

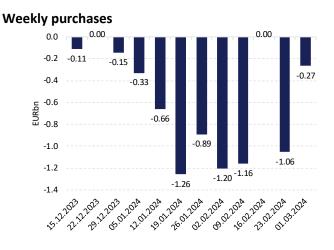


Source: ECB, NORD/LB Floor Research

Expected monthly redemptions (in EURm)



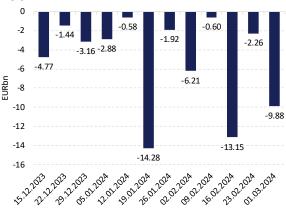
Source: ECB, Bloomberg, NORD/LB Floor Research



Covered Bond Purchase Programme 3 (CBPP3)

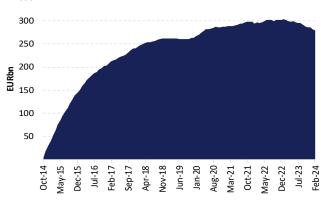
Public Sector Purchase Programme (PSPP)

Weekly purchases

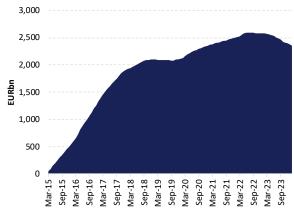


Source: ECB, Bloomberg, NORD/LB Floor Research

Development of CBPP3 volume

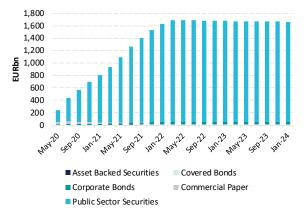


Development of PSPP volume

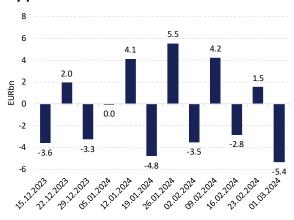


Pandemic Emergency Purchase Programme (PEPP)

Portfolio development



Weekly purchases



Source: ECB, Bloomberg, NORD/LB Floor Research

Appendix Overview of latest Covered Bond & SSA View editions

Publication	Topics				
<u>08/2024 🔶 28 January</u>	 New UK player on the EUR covered bond market 				
	 Teaser: Issuer Guide - Non-European supras (MDBs) 2024 				
07/2024	 Covered bond jurisdictions in the spotlight: A look at Austria 				
	Hope for hybrids? New SSA sub-asset class for MDBs				
06/2024	 Development of the German property market (vdp Index) 				
	 Update: Joint Laender (Ticker: LANDER) 				
05/2024	 January 2024: Record start to the new covered bond year 				
	 SSA January recap: issuance volume at record level 				
04/2024	The Pfandbrief market at the start of 2024: caution thrown to the wind				
	 Teaser: Issuer Guide - Other European Agencies 2024 				
<u>03/2024 🔶 24 January</u>	 The "V" in the LTV calculation: Differing approaches persist despite EU Directive 				
	 28th meeting of the Stability Council (December 2023) 				
02/2024	 Pfandbrief market: potential newcomer Evangelische Bank 				
	 Review: EUR-ESG benchmarks 2023 in the SSA segment 				
<u>01/2024 🔶 10 January</u>	ECB: Annual review of 2023 – no end to high rates?				
	 Covered Bonds: Annual review of 2023 				
	 SSA: Annual review of 2023 				
37/2023	 Our view of the covered bond market heading into 2024 				
	 SSA outlook 2024: ECB, NGEU and the debt brake in Germany 				
36/2023 ♦ 06 December	The covered bond universe of Moodys: an overview				
	 Teaser: Issuer Guide – Nordic Agencies 2023 				
35/2023 ♦ 29 November	ESG covered bonds: a look at the supply side				
	 Current risk weight of supranationals & agencies 				
34/2023 22 November	 Transparency requirements §28 PfandBG Q3/2023 				
	 Teaser: Issuer Guide – German Agencies 2023 				
33/2023	 Development of the German property market 				
	 ECB repo collateral rules and their implications for Supranationals & Agencies 				
32/2023	 Norway: creation of SpareBank 1 Sor-Norge 				
	ECB: PEPP versus TPI – or: (re)investing where others like to go on holiday				
31/2023 25 October	 Banks in Europe: the EBA Risk Dashboard in Q2 2023 				
	 Teaser: Issuer Guide – Spanish Agencies 2023 				
30/2023 ♦ 18 October	 Focus on covered bond jurisdictions: Canada in the spotlight 				
	 A closer look at Newfoundland and Labrador 				
29/2023 11 October	 A covered bond view of Belgium 				
	 Funding of Canadian provinces – an overview 				
NORD/LB:	NORD/LB: NORD/LB: Bloomberg:				

Appendix Publication overview

Covered Bonds:

Issuer Guide Covered Bonds 2023

Covered Bond Laws

Covered Bond Directive: Impact on risk weights and LCR levels

Risk weights and LCR levels of covered bonds (updated semi-annually)

Transparency requirements §28 PfandBG Q4/2023 (quarterly update)

Covered bonds as eligible collateral for central banks

SSA/Public Issuers:

Issuer Guide – German Laender 2023

Issuer Guide – German Agencies 2023

Issuer Guide – European Supranationals 2023

Issuer Guide – French Agencies 2023

Issuer Guide – Dutch Agencies 2023

Beyond Bundeslaender: Belgium

Beyond Bundeslaender: Greater Paris (IDF/VDP)

Beyond Bundeslaender: Spanish regions

Fixed Income Specials:

ESG-Update 2023

ECB preview: Delays in operations or full focus on June?

ECB decision: Council versus market

ECB preview: New year, new luck?!

Appendix Contacts at NORD/LB

Floor Research



Dr Frederik Kunze Covered Bonds/Banks

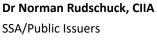
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Sales

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Sales Sparkassen & Regionalbanken	+49 511 9818-9400
Institutional Sales MM/FX	+49 511 9818-9460
Fixed Income Relationship Management Europe	+352 452211-515

Trading

Covereds/SSA	+49 511 9818-8040
Financials	+49 511 9818-9490
Governments	+49 511 9818-9660
Länder/Regionen	+49 511 9818-9660
Frequent Issuers	+49 511 9818-9640

Origination & Syndicate

Origination FI	+49 511 9818-6600
Origination Corporates	+49 511 361-2911

Sales Wholesale Customers

Firmenkunden	+49 511 361-4003
Asset Finance	+49 511 361-8150

Treasury		Relationship Management		
Collat. Management/Repos	+49 511 9818-9200	Institutionelle Kunden	rm-vs@nordlb.de	
Liquidity Management	+49 511 9818-9620 +49 511 9818-9650	Öffentliche Kunden	<u>rm-oek@nordlb.de</u>	

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