

CREDIT OPINION

10 October 2024

Update



RATINGS

SpareBank 1 SMN

Domicile	Trondheim, Norway
Long Term CRR	Aa3
Туре	LT Counterparty Risk Rating - Fgn Curr
Outlook	Not Assigned
Long Term Debt	Aa3
Туре	Senior Unsecured - Fgn Curr
Outlook	Stable
Long Term Deposit	Aa3
Туре	LT Bank Deposits - Fgn Curr
Outlook	Stable

Please see the <u>ratings section</u> at the end of this report for more information. The ratings and outlook shown reflect information as of the publication date.

Contacts

Effie Tsotsani +44.20.7772.1712 VP-Senior Analyst

effie.tsotsani@moodys.com

Jonathan Stenbaek +46.851.791.297

Ratings Associate

jonathan.stenbaek@moodys.com

Nondas Nicolaides +357.2569.3006

VP-Sr Credit Officer

nondas.nicolaides@moodys.com

CLIENT SERVICES

Americas 1-212-553-1653
Asia Pacific 852-3551-3077
Japan 81-3-5408-4100

SpareBank 1 SMN

Update to credit analysis

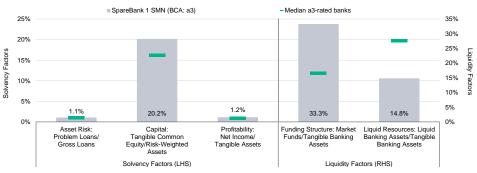
Summary

<u>SpareBank 1 SMN</u>'s (SMN) long-term deposit and senior unsecured debt ratings of Aa3 take into account the bank's Baseline Credit Assessment (BCA) of a3, but also our forward-looking Loss Given Failure (LGF) analysis. For the deposit and senior ratings, this results in a three-notch uplift from its BCA while the junior senior rating does not benefit from any uplift. SMN's ratings do not benefit from any government support.

SMN's BCA of a3 reflects the bank's resilient financial performance, as illustrated by its sound capital base, strong profitability and improved risk profile, while continuing to grow its retail deposit base, resulting in a somewhat lower use of market funds. Our view is supported by the bank's strong retail franchise in central Norway, which delivers robust core earnings, and our expectation that the strong capital position will be maintained.

These strengths are counterbalanced by a still-high reliance on market funding, a characteristic shared by all local savings banks; the bank's relatively narrow geographical focus; and the credit risks stemming from its exposures to more volatile sectors.

Exhibit 1
Rating Scorecard - Key financial ratios



These are our <u>Banks</u> methodology scorecard ratios. Asset risk and profitability reflect the weaker of either the three-year average and latest annual figure. Capital is the latest reported figure. Funding structure and liquid resources reflect the latest fiscal year-end figures.

Source: Moody's Financial Metrics

Credit strengths

- » SMN's stand-alone credit profile is supported by its Very Strong- macro profile
- » Solid capital metrics provide a buffer against potential future credit losses
- » Resilient earnings benefit from a strong regional retail franchise
- » Large volume of deposits and junior debt resulting in deposit ratings benefiting from a very low loss given failure rate

Credit challenges

- » Credit concentration from operating in more limited geographical areas than many international peers
- » Risks from the bank's exposure to cyclical sectors, although problem loans are low
- » Dependence on market funding renders it vulnerable to fluctuations in investor sentiment, but liquidity is adequate

Outlook

The stable outlook on SMN's long-term deposit, issuer and senior unsecured debt ratings reflect our view that the bank will continue to generate strong earnings supporting its capital base, while prudently managing asset risks and strengthening its deposit base. These are counterbalanced by some of the bank's credit concentration in its home region and its high reliance on market funding.

Factors that could lead to an upgrade

SMN's long-term ratings could be upgraded if it significantly strengthens its capitalisation well above the regulatory minimum requirements; further improves its asset quality while reducing its single-name, sector and regional concentration; strengthens its profitability; and reduces its reliance on market funding with an enlarged retail deposit base.

Factors that could lead to a downgrade

SMN's ratings could be downgraded if it significantly increases its exposure to more volatile sectors compared with current levels; it experiences a substantial deterioration in asset quality and profitability; its use of market funds increases towards previous levels; and its liquidity weakens.

The ratings could also be downgraded as a result of a reduction in the volume of loss-absorbing liabilities protecting creditors and depositors in case of failure.

This publication does not announce a credit rating action. For any credit ratings referenced in this publication, please see the issuer/deal page on https://ratings.moodys.com for the most updated credit rating action information and rating history.

Key indicators

Exhibit 2 SpareBank 1 SMN (Consolidated Financials) [1]

-	06-24 ²	12-23 ²	12-22 ²	12-21 ²	12-20 ²	CAGR/Avg. ³
Total Assets (NOK Billion)	311.8	299.2	281.7	246.9	236.1	8.3 ⁴
Tangible Common Equity (NOK Billion)	24.0	24.7	21.3	19.9	18.0	8.5 ⁴
Problem Loans / Gross Loans (%)	0.8	0.9	1.0	1.7	1.2	1.1 ⁵
Tangible Common Equity / Risk Weighted Assets (%)	20.2	21.5	20.3	20.2	19.4	20.3 ⁶
Problem Loans / (Tangible Common Equity + Loan Loss Reserve) (%)	7.6	8.1	9.1	15.4	11.5	10.3 ⁵
Net Interest Margin (%)	1.8	1.6	1.4	1.4	1.4	1.5 ⁵
PPI / Average RWA (%)	3.8	3.6	2.8	2.8	2.7	3.2 ⁶
Net Income / Tangible Assets (%)	1.3	1.2	1.0	1.2	0.8	1.1 ⁵
Cost / Income Ratio (%)	41.6	42.6	46.5	47.0	53.0	46.1 ⁵
Market Funds / Tangible Banking Assets (%)	33.3	33.3	35.5	33.9	37.5	34.75
Liquid Banking Assets / Tangible Banking Assets (%)	16.0	14.8	18.1	14.9	15.7	15.9 ⁵
Gross Loans / Due to Customers (%)	173.2	177.9	173.2	175.6	187.5	177.5 ⁵

[1] All figures and ratios are adjusted using Moody's standard adjustments. [2] Basel III - fully loaded or transitional phase-in; IFRS. [3] May include rounding differences because of the scale of reported amounts. [4] Compound annual growth rate (%) based on the periods for the latest accounting regime. [5] Simple average of periods for the latest accounting regime. [6] Simple average of Basel III periods.

Sources: Moody's Ratings and company filings

Profile

SpareBank 1 SMN (SMN) is a leading regional savings bank in central Norway. It provides a range of retail banking, corporate banking and capital markets-related products and services. Furthermore, through its subsidiaries and associated companies, it offers real estate agency, investment, asset management and other financial services. As of the end of June 2024, its consolidated assets (including loans transferred to covered bond companies) totalled NOK312 billion (€27.3 billion).

Recent developments

In September 2023, SMN completed the acquisition of SpareBank 1 Søre Sunnmøre, a local savings bank with a strong market position in Sore Sunmore, following the initial announcement in 2020. Following the consolidation, SMN bank covers large sections of the Sunmore region, which further strengthens its position in Fjordane.

Detailed credit considerations

Norway's Very Strong- macro profile remains supportive towards the bank's stand-alone credit profile

SMN operates only in Norway and thus its operating environment is reflected by the <u>Very Strong -</u> macro profile we assign to the country. Norwegian banks benefit from operating in a wealthy and developed country with very high economic, institutional and government financial strength, and very low susceptibility to event risk. Norway has a diversified and growing economy, which demonstrated resilience amid the weakening in the oil sector in 2014-15 and again in 2020.

The main risks to the banking system stem from the high level of household debt, high real estate prices and domestic banks' extensive use of market funding. However, these risks are mitigated by the strength of households' ability to service debt, banks' adequate capitalisation and the relatively small size of the banking system compared with the total size of the economy.

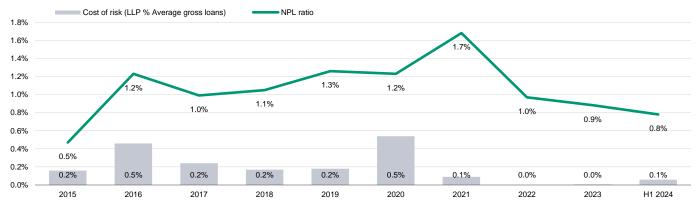
Nonetheless, we expect the Norwegian mainland economy (excluding any oil-related activity) to expand by 1.3% in 2024, up from 0.7% in 2023. Unemployment rose to around 10.6% in March 2020, but fell back to 4.0% in July 2024, below the pre-pandemic level.

Overall strong asset quality but still affected by some sector concentrations

We consider SMN's asset quality to be strong and improving. SMN's stage 3 gross loans as a percentage of total loans, including loans transferred to the jointly owned and non-consolidated SpareBank 1 Boligkreditt and Naeringskreditt, was 0.8% in June 2024, lower than 0.9% as of year-end 2023. This reflects the improved conditions in the oil and offshore sectors, which have been the main source of problem loans in the past years, as well as the bank's proactive approach towards restructuring these exposures.

We expect the bank's asset quality to remain resilient despite uncertainties in the operating environment stemming from higher inflation and higher interest rates, which could result in lower consumption spending and increased defaults in the small and medium-sized enterprise sector.

Exhibit 3
SMN's problem loans as a percentage of gross loans and cost of risk evolution



Gross loans include covered bond loans.

Sources: Bank's disclosures and Moody's Ratings

The bank's overall asset quality is favourable and comparable to its similarly rated peers both locally and internationally. SMN's well-diversified loan book (including loans transferred to SpareBank 1 Boligkreditt and SpareBank 1 Naeringskreditt), of which around 74% comprises loans to retail customers (mainly in the form of mortgages), and strong risk management practices counterbalance, to some degree, any negative effects from its exposures to volatile sectors. The strong performance of the bank's retail banking business continued in the first half of 2023, with a net recovery on loans to personal customers of NOK12 million and pre-tax record profit of NOK2,469 million.

Although the bank's corporate book is quite diversified across different industries, it exhibits some concentration to the commercial real estate (10% of gross loans at end June 2024) and fishing and fish farming (5% of gross loans), representative of the bank's significant local market share. The bank has reduced its exposure to the oil and offshore sector, accounting for around 2.01% of lending at end of second quarter 2024, compared to 4.3% at end 2016, reflective of the bank's tighter underwriting criteria on the sector. The recent increase in demand for oil and related services has led to an improvement in several of the bank's problem loans within the sector, which have consequently been transferred to Stage 2. However, there are still long-term risks as a result of the volatile nature of these sectors, and because some of these borrowers fall within the bank's top 20 group loans.

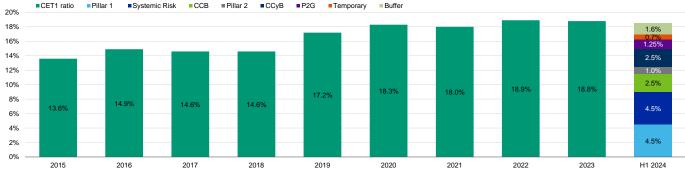
Our assigned Asset Risk score incorporates negative adjustments, taking into account the bank's relatively limited geographical diversification, as well as sector concentrations on the corporate book, namely to CRE and oil and offshore sectors, as stated above. We make similar adjustments in the asset risk scores of other rated regional savings banks in Norway.

Solid capital metrics provide a buffer against potential future credit losses

SMN's ratings are supported by its solid capital position, with a Common Equity Tier 1 (CET1) capital ratio of 18.5% as of June 2024 compared with 18.8% as of year-end 2023. The bank's capital level is higher than the regulatory requirement of 16.95%, and includes a 0.7% temporary add-on to the Pillar 2 requirement while the FSA reviews the revised IRB models as well as a Pillar 2 guidance of 1.25%. SMN is targeting a management buffer of 1.25% above the minimum requirement, in line with the Pillar 2 guidance, which the bank already meets adequately (see Exhibit 4).

Exhibit 4
SMN benefits from strong capital buffers, with a CET1 ratio 1.55% above the 16.95% minimum requirement at end June 2023(SpareBank 1 SMN's CET1 ratio evolution)

CET1 ratio Pillar 1 Systemic Risk CCB Pillar 2 CCyB P2G Temporary Buffer



The temporary requirement of 0.7%, which is a Pillar 2 add-on, is implemented until the FSA approves the revised IRB models. Source: Bank's disclosures and Moody's Ratings

The bank's tangible common equity has strengthened in recent years, driven by strong earnings generation. SMN's hybrid debt (NOK1.8 billion) and subordinated debt (NOK2.7 billion) contributed to the strong Tier 1 ratio of 20.4% and overall capital adequacy ratio of 23.1% as of the end of June 2024. These solid capital levels provide a buffer against potential future credit losses, driving the bank's BCA and ratings.

We expect the bank to maintain a payout ratio in line with their target of 50% and retain sufficient profit in order to continue meeting its internal CET1 targets. Our assigned Capital score reflects this strength, as well as the bank's leverage ratio of 7.1% as of the end of June 2024, which, although high by international standards, is marginally lower than the average for similarly rated local peers.

Resilient earnings benefit from a strong regional retail franchise

SMN benefits from strong profitability, reflected by its (annualized) net income/tangible assets of 1.3% in H1 2024, supported by strong growth in net interest income (including fees from covered bond companies), which grew by 24% year over year. The bank's profitability has been resilient, as illustrated by its stable performance through the economic cycle, with a return on tangible assets (including assets transferred to covered bond companies) of 0.82% during the peak of the coronavirus pandemic in 2020. This compares favourably to peers with similar lending activities.

SMN's net interest income comprised 61% of total revenue in H1 2024, a significant increase from the 56% in 2020, a result of both the expansion of interest-earning business volumes and the rise in rates. The higher rates are reflected by the higher net interest margin of 1.82% over H1 2024, compared with 1.63% in 2023. We expect profitability to remain strong, supported by the high interest rate environment.

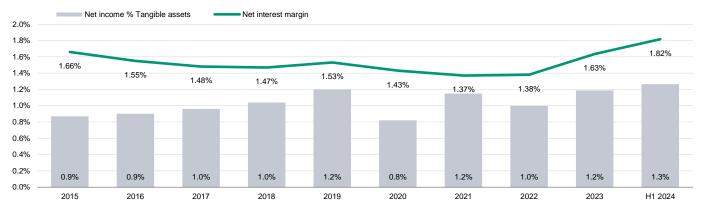
SMN net profit was NOK1,964 million in H1 2024, which is an increase from NOK1,562 million in the same period in 2023. SMN's operating expenses increased 14% year-over-year. This was driven in part by investments in technology, and in part by variable renumeration increases related to growth in SMN's subsidiaries. However the cost-to-income ratio has improved over time to 42% in H1 2024, down from 53% in 2020. The bank's reported return on equity was 15.6% in H1 2024 compared with 13.9% a year earlier.

Our Profitability score for the bank takes into account not only our adjusted return on tangible assets (including assets transferred to covered bond companies) of 1.26% in H1 2024 (see Exhibit 5) but also our forward-looking view on the bank's resilient recurring preprovision earnings, which we expect to remain satisfactory over the coming 12-18 months.

Exhibit 5

Profitability evolution

Moody's-adjusted figures



Includes assets transferred to covered bond companies. Sources: Bank's disclosures and Moody's Ratings

Deposit franchise is strengthening but reliance on market funding still renders the bank vulnerable to fluctuations in investor sentiment...

SMN's deposit base continued to grow in recent years, following the strong growth witnessed during 2020, accounting for around 49% of total liabilities (including covered bonds issued through the covered bond companies) as of the end of June 2024. Although the bank still remains reliant on market funding, its market funds to tangible banking assets ratio has improved to 34.0% in 2022-2024 compared to an average of 36.6% in 2018-21, as the bank increased its focus on strengthening its deposit franchise.

Deposits went down by 0.8% year over year as of June 2024, mainly driven by the decrease in deposits from corporate customers, while retail deposits continued their strong growth at 7.4%. This comes after the 2020-22 period, during which growth exceeded 10% because of various lockdown measures implemented during the pandemic. We expect growth to normalize closer to 5%-7% in organic growth over the next 12-18 months, and most deposits to originate from the retail side as the bank will continue to strengthen its franchise following its recent acquisition. Retail deposits, which we consider to be more stable, accounted for 50% of total deposits as of June 2024.

SMN relies on covered bonds as an important source of funding. These bonds are issued off balance sheet through specialised companies that it jointly owns with other savings banks of the SpareBank 1 Alliance, namely SpareBank 1 Boligkreditt for residential mortgages and SpareBank 1 Næringskreditt for commercial mortgages. As of June 2024, the bank had transferred loans worth NOK68 billion to these vehicles, or around a quarter of its gross loan book including the transferred loans. Although the diversification benefit of covered bond funding is a credit positive, its extensive use increases the amount of pledged assets unavailable for unsecured bondholders, including depositors in liquidation. The relative stability of covered bonds compared with unsecured market funding is reflected by a standard adjustment in our scorecard.

Our Funding Structure score reflects our view that SMN's reliance on market funding, although improved, still represents a source of vulnerability because, in times of market stress, market funding can become more expensive and/or restricted.

...although liquidity is adequate

A mitigating factor to the bank's use of market funding is its sizeable liquidity buffer that can cover its needs for three years without any new external financing. The bank's liquid assets as a percentage of total banking assets (a Moody's scorecard ratio) was high at 16.0% as of the end of June 2024 and consisted of covered bonds from other Norwegian banks, most of which can be used as collateral for loans from Norges Bank, municipal bonds and balances with central banks. SMN reported a commendable liquidity coverage ratio (LCR) and NSFR ratio of 188% and 132% respectively as of the end of June 2024, compared with the requirement of 100% for both ratios.

ESG considerations

SpareBank 1 SMN's ESG credit impact score is CIS-2

Exhibit 6

ESG credit impact score



Source: Moody's Ratings

SpareBank 1 SMN's **CIS-2** indicates that ESG considerations do not have a material impact on current ratings. This reflects the limited credit impact of environmental and social risk factors on the ratings to date, and the low governance risks.

Exhibit 7
ESG issuer profile scores



Source: Moody's Ratings

Environmental

SpareBank 1 SMN faces moderate environmental risks primarily because of its portfolio exposure to carbon transition. These risks are primarily related to its corporate portfolio, however, exposures to the oil, offshore and shipping business are limited. In line with its peers, the bank is facing mounting business risks and stakeholder pressure to meet broader carbon transition goals. In response, the bank is developing its climate risk and portfolio management capabilities.

Social

SpareBank 1 SMN faces moderate social risks related to customer relations and associated regulatory and litigation risks, requiring high compliance standards. The exposure to customer relation risks is lower than its international peers, given the bank's untarnished customer conduct track record supported by the social mandate of the Savings Bank's model. SpareBank 1 SMN is a digitally advanced bank in Norway, with a robust IT infrastructure and strong capabilities to mitigate cyber and personal data risks, supported by its participation in the SpareBank 1 Alliance.

Governance

Sparebank 1 SMN's governance risks are low., Despite sectoral and geographical concentrations, due to its limited reach, the bank benefits from strong underwriting standards which mitigate some of these concerns. The bank has a track record of sound capital and liquidity management and earnings stability while losses have been low, even at times of market turbulence. Being a regional savings bank, 36% of the bank is owned by the central Norwegian community and 64 % by private investors. The bank's Supervisory Board, comprises EC holders, employees and representatives of the public authorities. Related governance risks are however mitigated by Norway's developed institutional framework.

ESG Issuer Profile Scores and Credit Impact Scores for the rated entity/transaction are available on Moodys.com. In order to view the latest scores, please click here to go to the landing page for the entity/transaction on MDC and view the ESG Scores section.

Support and structural considerations

Loss Given Failure and additional notching

Norway implemented the EU's Bank Recovery and Resolution Directive (BRRD) on 1 January 2019, and subsequently, BRRD2 was incorporated into Norwegian law on 1 June 2022, which has resulted in lower subordination requirements for non-preferred senior volumes. For our resolution analysis, we assumed residual tangible common equity of 3% and post-failure losses of 8% of tangible banking assets, a 25% run-off in "junior" wholesale deposits and a 5% run-off in preferred deposits, and assign a 25% probability to deposits being preferred to senior unsecured debt. These are in line with our standard assumptions. We apply a standard assumption for the large European banks that 26% of deposits are junior.

For SMN's long-term deposits and senior unsecured debt ratings, we consider the likely impact of loss given failure, reflecting the combination of debt and deposit volumes and the amount of debt subordinated to them. We also take into consideration the total NOK12.9 billion in senior non-preferred issuances completed to date, which qualify as MREL instruments. This has resulted in a Preliminary Rating Assessment (PRA) that is three notches above the BCA for the bank's deposit and senior unsecured ratings, reflecting very low loss given failure. For junior senior securities (senior non-preferred debt) issued by SMN, our LGF analysis indicates a moderate loss level, positioning the rating at the same level as its a3 BCA.

Government support

SMN has a well-established regional franchise in central Norway, although its national lending market share is limited to around 4% as of June 2024. Since the implementation of the BRRD legal framework in Norway on 1 January 2019, which aligns with that of the EU, our assumption of government support for the bank's debt and deposits stands is low, resulting in no additional notches of rating uplift above the PRA.

Similarly, for junior securities, we consider that potential government support is low and, therefore, these ratings do not include any related uplift. Junior securities also include additional downward notching from the BCA, reflecting coupon suspension risk ahead of a potential failure.

Foreign-currency deposit rating

SMN's foreign-currency deposit rating of Aa3 is unconstrained because Norway has no country ceiling.

Foreign-currency debt rating

SMN's senior unsecured foreign-currency debt rating of Aa3 is unconstrained because Norway has no country ceiling.

Rating methodology and scorecard factors

Exhibit 8

Rating Factors

Macro Factors		
Weighted Macro Profile	Very	100%
	Strong -	

Factor	Historic Ratio	Initial Score	Expected Trend	Assigned Score	Key driver #1	Key driver #2
Solvency	Natio	500.0	110110			
Asset Risk						
Problem Loans / Gross Loans	1.1%	aa2	\leftrightarrow	baa1		
Capital						
Tangible Common Equity / Risk Weighted Assets (Basel III - transitional phase-in)	20.2%	aa1	\leftrightarrow	aa2		
Profitability						
Net Income / Tangible Assets	1.2%	a2	\leftrightarrow	a3		
Combined Solvency Score		aa2		a2		
Liquidity						
Funding Structure						
Market Funds / Tangible Banking Assets	33.3%	baa3	\leftrightarrow	ba1		
Liquid Resources						
Liquid Banking Assets / Tangible Banking Assets	14.8%	baa3	1	baa2		
Combined Liquidity Score	baa3 baa3					
Financial Profile				a3		
Qualitative Adjustments				Adjustment		
Business Diversification				0		
Opacity and Complexity				0		
Corporate Behavior	0					
Total Qualitative Adjustments	0					
Sovereign or Affiliate constraint				Aaa		
BCA Scorecard-indicated Outcome - Range				a2 - baa1		
Assigned BCA	a3					
Affiliate Support notching	0					
Adjusted BCA				a3		

lance Sheet in-scope 9		at-failure	% at-failure	
(NOK Million)		(NOK Million)		
106 604	34.3%	120 850	38.9%	
139 661	45.0%	125 416	40.4%	
103 349	33.3%	98 182	31.6%	
36 312	11.7%	27 234	8.8%	
37 402	12.0%	37 402	12.0%	
12 921	4.2%	12 921	4.2%	
2 728	0.9%	2 728	0.9%	
1 895	0.6%	1 895	0.6%	
9 316	3.0%	9 316	3.0%	
310 527	100.0%	310 527	100.0%	
	(NOK Million) 106 604 139 661 103 349 36 312 37 402 12 921 2 728 1 895 9 316	(NOK Million) 106 604 34.3% 139 661 45.0% 103 349 33.3% 36 312 11.7% 37 402 12.0% 12 921 4.2% 2 728 0.9% 1 895 0.6% 9 316 3.0%	(NOK Million) (NOK Million) 106 604 34.3% 120 850 139 661 45.0% 125 416 103 349 33.3% 98 182 36 312 11.7% 27 234 37 402 12.0% 37 402 12 921 4.2% 12 921 2 728 0.9% 2 728 1 895 0.6% 1 895 9 316 3.0% 9 316	

Financial Institutions Moody's Ratings

Debt Class	De Jure waterfall De Facto waterfall Notching		De Jure waterfall De Facto waterfall		ching	LGF	Assigned	Additional Preliminary		
	Instrument volume + subordinatio	ordinati	Instrument on volume + o subordinatio	ordination	De Jure	De Facto	Notching Guidance		Notching	Rating Assessment
	subordinatio	on	subordinatio	оп			vs. Adjusted BCA			
Counterparty Risk Rating	29.5%	29.5%	29.5%	29.5%	3	3	3	3	0	aa3
Counterparty Risk Assessment	29.5%	29.5%	29.5%	29.5%	3	3	3	3	0	aa3 (cr)
Deposits	29.5%	8.6%	29.5%	20.7%	3	3	3	3	0	aa3
Senior unsecured bank debt	29.5%	8.6%	20.7%	8.6%	3	3	3	-	-	-
Junior senior unsecured bank debt	8.6%	4.5%	8.6%	4.5%	0	0	0	0	0	a3
Dated subordinated bank debt	4 5%	3.6%	4 5%	3.6%	-1	-1	-1	-1	0	baa1

Instrument Class	Loss Given Failure notching	Additional notching	Preliminary Rating Assessment	Government Support notching	Local Currency Rating	Foreign Currency Rating
Counterparty Risk Rating	3	0	aa3	0	Aa3	Aa3
Counterparty Risk Assessment	3	0	aa3 (cr)	0	Aa3(cr)	
Deposits	3	0	aa3	0	Aa3	Aa3
Senior unsecured bank debt	-	-	-	0		Aa3
Junior senior unsecured bank debt	0	0	a3	0	A3	(P)A3
Dated subordinated bank debt	-1	0	baa1	0		(P)Baa1

^[1] Where dashes are shown for a particular factor (or sub-factor), the score is based on non-public information. Source: Moody's Ratings

Ratings

Exhibit 9

Category	Moody's Rating
SPAREBANK 1 SMN	
Outlook	Stable
Counterparty Risk Rating	Aa3/P-1
Bank Deposits	Aa3/P-1
Baseline Credit Assessment	a3
Adjusted Baseline Credit Assessment	a3
Counterparty Risk Assessment	Aa3(cr)/P-1(cr)
Issuer Rating	Aa3
Senior Unsecured	Aa3
Junior Senior Unsecured -Dom Curr	A3
Junior Senior Unsecured MTN	(P)A3
Subordinate MTN	(P)Baa1
Source: Moody's Ratings	

© 2024 Moody's Corporation, Moody's Investors Service, Inc., Moody's Analytics, Inc. and/or their licensors and affiliates (collectively, "MOODY'S"). All rights reserved. CREDIT RATINGS ISSUED BY MOODY'S CREDIT RATINGS AFFILIATES ARE THEIR CURRENT OPINIONS OF THE RELATIVE FUTURE CREDIT RISK OF ENTITIES, CREDIT COMMITMENTS, OR DEBT OR DEBT-LIKE SECURITIES, AND MATERIALS, PRODUCTS, SERVICES AND INFORMATION PUBLISHED OR OTHERWISE MADE AVAILABLE BY MOODY'S (COLLECTIVELY, "MATERIALS") MAY INCLUDE SUCH CURRENT OPINIONS. MOODY'S DEFINES CREDIT RISK AS THE RISK THAT AN ENTITY MAY NOT MEET ITS CONTRACTUAL FINANCIAL OBLIGATIONS AS THEY COME DUE AND ANY ESTIMATED FINANCIAL LOSS IN THE EVENT OF DEFAULT OR IMPAIRMENT. SEE APPLICABLE MOODY'S RATING SYMBOLS AND DEFINITIONS PUBLICATION FOR INFORMATION ON THE TYPES OF CONTRACTUAL FINANCIAL OBLIGATIONS ADDRESSED BY MOODY'S CREDIT RATINGS. CREDIT RATINGS DO NOT ADDRESS ANY OTHER RISK, INCLUDING BUT NOT LIMITED TO: LIQUIDITY RISK, MARKET VALUE RISK, OR PRICE VOLATILITY. CREDIT RATINGS, NON-CREDIT ASSESSMENTS ("ASSESSMENTS"), AND OTHER OPINIONS INCLUDED IN MOODY'S MATERIALS ARE NOT STATEMENTS OF CURRENT OR HISTORICAL FACT. MOODY'S MATERIALS MAY ALSO INCLUDE QUANTITATIVE MODEL-BASED ESTIMATES OF CREDIT RISK AND RELATED OPINIONS OR COMMENTARY PUBLISHED BY MOODY'S ANALYTICS, INC. AND/OR ITS AFFILIATES. MOODY'S CREDIT RATINGS, ASSESSMENTS, OTHER OPINIONS AND MATERIALS DO NOT CONSTITUTE OR PROVIDE INVESTMENT OR FINANCIAL ADVICE, AND MOODY'S CREDIT RATINGS, ASSESSMENTS, OTHER OPINIONS AND MATERIALS ARE NOT AND DO NOT PROVIDE RECOMMENDATIONS TO PURCHASE, SELL, OR HOLD PARTICULAR SECURITIES. MOODY'S CREDIT RATINGS, ASSESSMENTS, OTHER OPINIONS AND MATERIALS DO NOT COMMENT ON THE SUITABILITY OF AN INVESTMENT FOR ANY PARTICULAR INVESTOR. MOODY'S ISSUES ITS CREDIT RATINGS, ASSESSMENTS AND OTHER OPINIONS AND PUBLISHES OR OTHERWISE MAKES AVAILABLE ITS MATERIALS WITH THE EXPECTATION AND UNDERSTANDING THAT EACH INVESTOR WILL, WITH DUE CARE, MAKE ITS OWN STUDY AND EVALUATION OF EACH SECURITY THAT IS UNDER CONSIDERATION FOR PURCHASE, HOLDING, OR SALE.

MOODY'S CREDIT RATINGS, ASSESSMENTS, OTHER OPINIONS, AND MATERIALS ARE NOT INTENDED FOR USE BY RETAIL INVESTORS AND IT WOULD BE RECKLESS AND INAPPROPRIATE FOR RETAIL INVESTORS TO USE MOODY'S CREDIT RATINGS, ASSESSMENTS, OTHER OPINIONS OR MATERIALS WHEN MAKING AN INVESTMENT DECISION. IF IN DOUBT YOU SHOULD CONTACT YOUR FINANCIAL OR OTHER PROFESSIONAL ADVISER.

ALL INFORMATION CONTAINED HEREIN IS PROTECTED BY LAW, INCLUDING BUT NOT LIMITED TO, COPYRIGHT LAW, AND NONE OF SUCH INFORMATION MAY BE COPIED OR OTHERWISE REPRODUCED, REPACKAGED, FURTHER TRANSMITTED, TRANSFERRED, DISSEMINATED, REDISTRIBUTED OR RESOLD, OR STORED FOR SUBSEQUENT USE FOR ANY SUCH PURPOSE, IN WHOLE OR IN PART, IN ANY FORM OR MANNER OR BY ANY MEANS WHATSOEVER, BY ANY PERSON WITHOUT MOODY'S PRIOR WRITTEN CONSENT. FOR CLARITY, NO INFORMATION CONTAINED HEREIN MAY BE USED TO DEVELOP, IMPROVE, TRAIN OR RETRAIN ANY SOFTWARE PROGRAM OR DATABASE, INCLUDING, BUT NOT LIMITED TO, FOR ANY ARTIFICIAL INTELLIGENCE, MACHINE LEARNING OR NATURAL LANGUAGE PROCESSING SOFTWARE, ALGORITHM, METHODOLOGY AND/OR MODEL.

MOODY'S CREDIT RATINGS, ASSESSMENTS, OTHER OPINIONS AND MATERIALS ARE NOT INTENDED FOR USE BY ANY PERSON AS A BENCHMARK AS THAT TERM IS DEFINED FOR REGULATORY PURPOSES AND MUST NOT BE USED IN ANY WAY THAT COULD RESULT IN THEM BEING CONSIDERED A BENCHMARK.

All information contained herein is obtained by MOODY'S from sources believed by it to be accurate and reliable. Because of the possibility of human or mechanical error as well as other factors, however, all information contained herein is provided "AS IS" without warranty of any kind. MOODY'S adopts all necessary measures so that the information it uses in assigning a credit rating is of sufficient quality and from sources MOODY'S considers to be reliable including, when appropriate, independent third-party sources. However, MOODY'S is not an auditor and cannot in every instance independently verify or validate information received in the credit rating process or in preparing its Materials.

To the extent permitted by law, MOODY'S and its directors, officers, employees, agents, representatives, licensors and suppliers disclaim liability to any person or entity for any indirect, special, consequential, or incidental losses or damages whatsoever arising from or in connection with the information contained herein or the use of or inability to use any such information, even if MOODY'S or any of its directors, officers, employees, agents, representatives, licensors or suppliers is advised in advance of the possibility of such losses or damages, including but not limited to: (a) any loss of present or prospective profits or (b) any loss or damage arising where the relevant financial instrument is not the subject of a particular credit rating assigned by MOODY'S.

To the extent permitted by law, MOODY'S and its directors, officers, employees, agents, representatives, licensors and suppliers disclaim liability for any direct or compensatory losses or damages caused to any person or entity, including but not limited to by any negligence (but excluding fraud, willful misconduct or any other type of liability that, for the avoidance of doubt, by law cannot be excluded) on the part of, or any contingency within or beyond the control of, MOODY'S or any of its directors, officers, employees, agents, representatives, licensors or suppliers, arising from or in connection with the information contained herein or the use of or inability to use any such information.

NO WARRANTY, EXPRESS OR IMPLIED, AS TO THE ACCURACY, TIMELINESS, COMPLETENESS, MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE OF ANY CREDIT RATING, ASSESSMENT, OTHER OPINION OR INFORMATION IS GIVEN OR MADE BY MOODY'S IN ANY FORM OR MANNER WHATSOEVER.

Moody's Investors Service, Inc., a wholly-owned credit rating agency subsidiary of Moody's Corporation ("MCO"), hereby discloses that most issuers of debt securities (including corporate and municipal bonds, debentures, notes and commercial paper) and preferred stock rated by Moody's Investors Service, Inc. have, prior to assignment of any credit rating, agreed to pay to Moody's Investors Service, Inc. for credit ratings opinions and services rendered by it. MCO and Moody's Investors Service also maintain policies and procedures to address the independence of Moody's Investors Service credit ratings and credit rating processes. Information regarding certain affiliations that may exist between directors of MCO and rated entities, and between entities who hold credit ratings from Moody's Investors Service, Inc. and have also publicly reported to the SEC an ownership interest in MCO of more than 5%, is posted annually at www.moodys.com under the heading "Investor Relations — Corporate Governance — Charter Documents - Director and Shareholder Affiliation Policy"

Moody's SF Japan K.K., Moody's Local AR Agente de Calificación de Riesgo S.A., Moody's Local BR Agência de Classificação de Risco LTDA, Moody's Local MX S.A. de C.V, I.C.V., Moody's Local PE Clasificadora de Riesgo S.A., and Moody's Local PA Calificadora de Riesgo S.A. (collectively, the "Moody's Non-NRSRO CRAs") are all indirectly wholly-owned credit rating agency subsidiaries of MCO. None of the Moody's Non-NRSRO CRAs is a Nationally Recognized Statistical Rating Organization.

Additional terms for Australia only: Any publication into Australia of this document is pursuant to the Australian Financial Services License of MOODY'S affiliate, Moody's Investors Service Pty Limited ABN 61 003 399 657AFSL 336969 and/or Moody's Analytics Australia Pty Ltd ABN 94 105 136 972 AFSL 383569 (as applicable). This document is intended to be provided only to "wholesale clients" within the meaning of section 761G of the Corporations Act 2001. By continuing to access this document from within Australia, you represent to MOODY'S that you are, or are accessing the document as a representative of, a "wholesale client" and that neither you nor the entity you represent will directly or indirectly disseminate this document or its contents to "retail clients" within the meaning of section 761G of the Corporations Act 2001. MOODY'S credit rating is an opinion as to the creditworthiness of a debt obligation of the issuer, not on the equity securities of the issuer or any form of security that is available to retail investors.

Additional terms for India only: Moody's credit ratings, Assessments, other opinions and Materials are not intended to be and shall not be relied upon or used by any users located in India in relation to securities listed or proposed to be listed on Indian stock exchanges.

Additional terms with respect to Second Party Opinions (as defined in Moody's Investors Service Rating Symbols and Definitions): Please note that a Second Party Opinion ("SPO") is not a "credit rating". The issuance of SPOs is not a regulated activity in many jurisdictions, including Singapore. JAPAN: In Japan, development and provision of SPOs fall under the category of "Ancillary Businesses", not "Credit Rating Business", and are not subject to the regulations applicable to "Credit Rating Business" under the Financial Instruments and Exchange Act of Japan and its relevant regulation. PRC: Any SPO: (1) does not constitute a PRC Green Bond Assessment as defined under any relevant PRC laws or regulations; (2) cannot be included in any registration statement, offering circular, prospectus or any other documents submitted to the PRC regulatory authorities or otherwise used to satisfy any PRC regulatory disclosure requirement; and (3) cannot be used within the PRC for any regulatory purpose or for any other purpose which is not permitted under relevant PRC laws or regulations. For the purposes of this disclaimer, "PRC" refers to the mainland of the People's Republic of China, excluding Hong Kong, Macau and Taiwan.

REPORT NUMBER

1421437

CLIENT SERVICES

 Americas
 1-212-553-1653

 Asia Pacific
 852-3551-3077

 Japan
 81-3-5408-4100

 EMEA
 44-20-7772-5454