MOODY'S RATINGS

CREDIT OPINION

3 April 2025



Send Your Feedback

RATINGS

Sparbanken Syd

Domicile	Sweden
Long Term CRR	A2
Туре	LT Counterparty Risk Rating - Fgn Curr
Outlook	Not Assigned
Long Term Debt	Not Assigned
Long Term Deposit	A3
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

Niclas Boheman	+46.8.5179.1281
VP-Sr Credit Officer	
niclas.boheman@moody	s.com
Jonathan Stenbaek Ratings Associate jonathan.stenbaek@moo	+46.851.791.297
Jonathan.stenbaek@moo	dys.com
Edoardo Calandro	+44.20.7772.1097

VP-Sr Credit Officer edoardo.calandro@moodys.com

Simon James Robin +44 207 772 5347 Ainsworth Associate Managing Director

simon.ainsworth@moodys.com

Sparbanken Syd

Update to credit analysis following upgrade of long-term deposit and issuer ratings

Summary

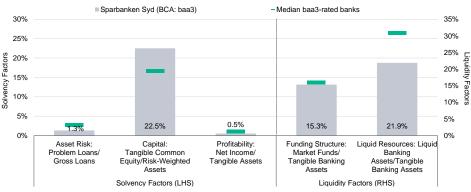
<u>Sparbanken Syd</u>'s deposit and issuer ratings of A3/P-2 incorporate the Baseline Credit Assessment (BCA) and Adjusted BCA of baa2, and two notches of uplift as indicated by our Advanced Loss Given Failure (LGF) analysis, reflecting very low loss-given-failure due to high volumes of loss absorbing liabilities protecting creditors and junior depositors. Low probablity of support from the <u>Government of Sweden</u> (Aaa, stable) does not result in any uplift to the ratings.

The baa2 BCA reflects Sparbanken Syd's good asset quality, strong capitalization and an improved liquidity management, balanced against low profitability, historical challenges in its funding strategy, and a track record of implementing a number of strategic decisions in the past that we view as higher risk.

The outlook on the long-term issuer and deposit ratings is stable.

Exhibit 1

Rating Scorecard - Key financial ratios



These represent our <u>Banks Methodology</u> scorecard ratios, whereby asset risk and profitability reflect the weaker of either the latest reported or the average of the last three year-end and latest reported ratios. Capital is the latest reported figure. Funding structure and liquid resources ratios reflect the latest year-end figures. *Source: Moody's Ratings*

Credit strengths

- » Strong asset quality with low levels of problem loans
- » Strong capitalization
- » Strengthened liquidity management
- » Granular depositor base

Credit challenges

- » Past strategic decisions contributed to funding and liquidity uncertainties
- » Geographical and sector concentrations
- » Weaker recurring profitability and cost efficiency than those of its Nordic peers
- » Limited access to capital in case of need

Outlook

The stable outlook on the ratings reflects our expectations that during the next 12 to 18 months, Sparbanken Syd will continue to perform well, with limited deterioration in asset risk, very strong capitalization, moderate profitability and a stable funding and liquidity structure.

Factors that could lead to an upgrade

The ratings could be upgraded following a period of strong track record of stable performance without events significantly altering the financial profile of the bank. This could result in the removal of the negative corporate behaviour adjustment, and thus a higher BCA, leading to an upgrade of the ratings. The ratings could also be upgraded following significant issuances of loss absorbing liabilities leading to lower loss given failure.

Factors that could lead to a downgrade

The ratings could be downgraded due to deterioration in the performance of the bank with higher problem loans, a rapid decline in capitalization, poor recurring profitability or a less prudent liquidity management.

The ratings could also be downgraded following lower issuances of loss absorbing liabilities, affecting the LGF analysis.

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

Sparbanken Syd (Unconsolidated Financials) [1]

	12-24 ²	12-23 ²	12-22 ²	12-21 ²	12-20 ²	CAGR/Avg. ³
Total Assets (SEK Million)	13,406.6	12,748.4	14,271.9	12,746.6	11,554.4	3.8 ⁴
Total Assets (USD Million)	1,213.4	1,265.0	1,369.7	1,408.9	1,406.9	(3.6)4
Tangible Common Equity (SEK Million)	1,407.3	1,345.5	1,251.5	1,207.1	1,189.5	4.3 ⁴
Tangible Common Equity (USD Million)	127.4	133.5	120.1	133.4	144.8	(3.2)4
Problem Loans / Gross Loans (%)	1.3	1.4	0.4	0.8	1.0	1.05
Tangible Common Equity / Risk Weighted Assets (%)	22.5	20.2	18.8	19.4	22.4	20.76
Problem Loans / (Tangible Common Equity + Loan Loss Reserve) (%)	8.0	8.6	4.0	5.9	5.6	6.4 ⁵
Net Interest Margin (%)	2.6	2.6	1.8	1.5	1.6	2.05
PPI / Average RWA (%)	1.5	2.3	1.0	0.5	0.4	1.1 ⁶
Net Income / Tangible Assets (%)	0.5	0.8	0.3	0.2	0.1	0.45
Cost / Income Ratio (%)	77.6	68.7	82.0	91.2	93.1	82.5 ⁵
Market Funds / Tangible Banking Assets (%)	15.3	12.3	18.0	7.7	3.5	11.4 ⁵
Liquid Banking Assets / Tangible Banking Assets (%)	21.9	16.3	17.9	25.9	39.8	24.4 ⁵
Gross Loans / Due to Customers (%)	90.8	88.2	113.1	90.4	70.3	90.6 ⁵
				1 1: 1:00		6.1

[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

Sparbanken Syd is Sweden's oldest savings bank, primarily operating in Skåne County in the southernmost parts of Sweden. Operating from 1907, the bank is well established in the region among retail as well as corporate customers. At the end of December 2024, the bank had total assets of SEK13.4 billion (\in 1.2 billion).

Sparbanken Syd is the only independent savings bank in Sweden and it is structured as a savings bank according to the Swedish Act on Savings Banks (1987:619), meaning that the bank has no external owners and is instead self owned. To ensure proper control, the bank is managed by 60 mandators, who are elected. The first 30 are chosen by the municipalities of Ystad, Simrishamn, Tomelilla, and Skurup. The remaining mandators are chosen independently by the first 30. The main responsibility of these mandators is to select and approve the bank's board of directors.

The bank has also established a foundation, the Sparbanken Syd Foundation for Growth, which aims to serve as a catalyst in the local community.

Recent developments

Sparbanken Syd uses SDC A/S as their IT-provider, which they also own partially together with other banks that use their services. In Q1 2025, a strategic deal was announced where SDC's owner banks will transfer their shares to Netcompany, making it the sole owner. Sparbanken Syd believes this transaction will help create synergies that will benefit their customers.

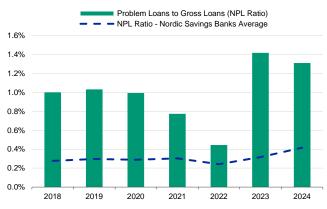
Detailed credit considerations

Strong asset quality but exposed to geographical and sector concentration risk

Sparbanken Syd's asset risk is strong in a global comparison and has improved during 2024 to 1.3% compared to 1.4% as of yearend 2023. The bank has a significant share of exposure to small and medium-sized enterprises (SMEs) in the Skåne (Scania) region, equivalent to around 55% of all lending.

Sparbanken Syd's lending to real estate companies amounts to 50% of corporate lending, or 202% of tangible common equity (TCE), which implies sector concentration risks. They also have exposure to agricultural lending at 69% of TCE. These portfolios have a higher risk profile than prime residential mortgages. However, Swedish agriculture is lower risk compared to what we have observed in other countries such as Denmark, due to a more gradual increase in land values since the 1990s. In an international comparison, the loan portfolio performs well and we expect problem loans to gross loans ratio to remain under 2% during the next 12 to 18 months.

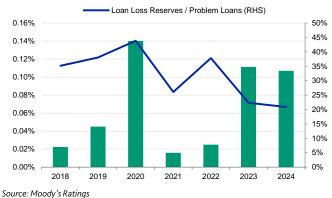
Exhibit 3



Asset risk has increased during 2024 but remains strong

Exhibit 4





Average of Nordic savings banks' problem loans/gross loans that we rate as of the yearend of December 2024 or latest available. *Source: Moody's Ratings*

Sparbanken Syd has a collaboration with <u>Borgo AB (publ)</u> (Borgo, long-term issuer rating Baa2 negative, BCA baa3), which originates most mortgages extended to its customers. A smaller share of mortgages remain on Sparbanken Syd's balance due to being less standardized in terms of type of collateral and income of the household. Sparbanken Syd aims to extend most of its mortgages via Borgo.

We expect Sparbanken Syd to have a higher focus on corporate lending going forward due to the collaboration with Borgo concerning mortgages.

The assigned Asset Risk score of baa2 is five notches below the Macro Adjusted score, reflecting geographical and sector concentration risks.

Strong capitalisation, but limited access to capital in case of need

Sparbanken Syd's capitalisation is strong, with tangible common equity (TCE) to risk-weighted assets (RWA) of 22.5% as of December 2024, up from 20.2% a year earlier. The TCE to total assets was a very strong 10.5% as of the end of December 2024, unchanged from a year earlier. However, the bank's profitability is still relatively low, leading to weak internal capital generation. Furthermore, the bank has limited access to capital injections in case of need due to its ownership structure.

Sparbanken Syd's total capital adequacy ratio increased to 24.9% at the end of December 2024 from 22.4% as year-end 2023. The increase in Sparbanken Syd's capital metrics relate to the decrease in lending on its own balance sheet and strong earnings during 2024.

The bank had a sizeable buffer above its regulatory minimum CET1 requirement of 14.8%, including a Pillar 2 requirement of 1.8%, at the end of December 2024. Sparbanken Syd applies the standardised approach for measuring credit risk.

We expect raising additional capital in times of stress to be difficult given the bank's organizational structure as a savings bank without strategic corporate shareholders or direct capital market access. However we do not expect such a capital raise to be required in the near future due to the banks solid capitalisation level. The bank has a dividend policy to distribute 10% of profits.

Exhibit 5



Sparbanken Syd has strong capital metrics

Average of Nordic savings banks we rate at the end of December 2024 or latest available Source: Moody's Ratings

Sparbanken Syd's Capital score of aa3 is two notches below the Macro Adjusted score, reflecting our view of that the bank's capitalisation is strong and the lack of access to capital in case of need.

Weaker recurring profitability and cost efficiency than those of its Nordic peers

As a pure savings bank, Sparbanken Syd operates with low targets on return on equity. Furthermore, its weak profitability is challenged by limited economies of scale.

Sparbanken Syd net income has decreased by 31% to SEK72.6 million in 2024, compared to SEK105.2 million in 2023. Net interest income decreased by 2.3% in 2024 due to higher funding costs.

In 2023 Sparbanken Syd invested around SEK1 billion in mutual funds which had a positive impact on profit of SEK48.5 million in 2023, or around 46% of the total profit for the year. Although supporting profits during 2023, the share of revenues stemming from own financial investments were significant, which results in earnings volatility. During 2024, these mutual funds were divested and most of the proceeds were used to increase its liquidity buffer. The profits from mutual funds in 2024 was SEK13.3 million.

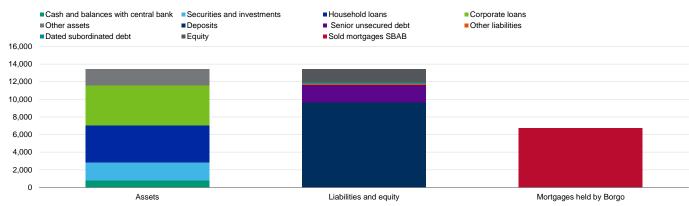
The bank's operating expenses grew slightly to SEK350 million as of year-end 2024 (2023: SEK318 million) mainly due to increased personnel and IT costs. In addition, net fee and commission income increased to SEK96 million in 2024 from SEK89 million in the year-earlier period.

We assign Sparbanken Syd a Profitability score of ba2, three notches below the Macro Adjusted score, reflecting our expectations of declining profitability on the back of lower interest rates.

Granular depositor base

Sparbanken Syd is primarily deposit funded with deposit funding representing 80% of non-equity funding as of year-end 2024, however deposit volumes increased by 2.7% during 2024. The partnership with Borgo reduces funding uncertainties, as future mortgages will mainly be originated by Borgo.

Exhibit 6



The partnership with Borgo allows Sparbanken Syd to sell mortgages without growing its balance sheet Balance sheet as of 31 December 2024 and mortgages held by Borgo

Source: Company reports

Sparbanken Syd had SEK2.0 billion senior unsecured debt outstanding at end of December 2024, resulting in a market funds to tangible banking assets ratio of 15.3%. Of these, SEK300 million will be maturing in 2025. We believe the bank will replace most if not all of this amount with similar funding. Currently, the bank has limited need for market funding, given the volumes of securities it holds.

We assign the bank a Funding Structure score of baa1, one notch below the Macro Adjusted score, balancing the positive developments regarding the bank's funding strategy against the dependency on a single external partner for covered bond funding.

Strengthened liquidity management

Sparbanken Syd's liquidity position of the bank has materially improved with more prudent liquidity management. Mutual funds, which at the end of 2023 amounted to approximately SEK1 billion, have been divested during 2024 and the proceeds were largely invested in high quality liquid assets (HQLA).

We assign a baa1 score, reflecting the bank's large volumes of HQLA (HQLA/TBA 20% in YE2024, up from 13% in 2023) and the prudent holdings within their liquidity reserve, with a large share of central bank holdings. Their liquidity buffer also includes central bank short-term papers, which are not included in the HQLA but improves the LCR ratio.

Sparbanken Syd's regulatory liquidity metrics are very strong, with and LCR of 837% (2023: 473%) and their NSFR at 150% (2023: 145%).

In past years, Sparbanken Syd faced material challenges with regards to the funding of its residential mortgages, and liquidity management was not on par with the bank's peers. These challenges are reflected in a one notch qualitative negative adjustment for corporate behaviour. While these issues have now been resolved, the bank will need to build track record of prudent risk management and financial strategy before the corporate behaviour adjustment is removed.

ESG considerations

Sparbanken Syd's ESG credit impact score is CIS-4

Exhibit 7 ESG credit impact score CIS-4 Score

ESG considerations have a discernible impact on the current rating, which is lower than it would have been if ESG risks did not exist. The negative impact of ESG considerations on the rating is higher than for an issuer scored CIS-3.

Source: Moody's Ratings

Sparbanken Syd's **CIS-4** indicates that ESG considerations have a discernable rating impact due to the bank's governance risk. Environmental and social factors have a limited impact on the bank's credit profile.

EXDibit 8 ESG issuer profile scores Environmental Score

Source: Moody's Ratings

Environmental

Sparbanken Syd faces moderate environmental risks largely stemming from its portfolio exposure to carbon transition risk. Like its peers, Sparbanken Syd is facing mounting regulatory and stakeholder pressure to meet broader carbon transition goals. The bank's focus on sustainability will help mitigate the risks.

Social

Sparbanken Syd faces moderate industry-wide social risks related to customer relations and associated regulatory and litigation risks, requiring high compliance standards. These risks are mitigated by the bank's developed policies and procedures. High cyber and personal data risks are mitigated by the bank's strong IT framework and its cooperation with SDC (merging with Netcompany during 2025) as IT provider. Sparbanken Syd has exposure to customer relations risks. Data security and customer privacy are critical for banks because they access large amounts of personal data, particularly in the retail segment. Fines and reputational damage as a result of product mis-selling, misrepresentation and other types of misconduct are also key social risks. Sizeable investments in technology together with its supplier of IT solutions and the bank's long track record of handling sensitive customer data, as well as appropriate culture and governance and compliance functions that ensure adherence to regulatory standards, help to manage the associated credit risk.

Governance

Sparbanken Syd's Governance Issuer Profile score mainly reflect the bank's management track record of implementing a number of strategic decisions in the past that we view as higher risk. Sparbanken Syd has now resolved its main challenges, the funding of its mortgages, and its liquidity management. The corporate behaviour adjustment reflects a weaker track record when compared to higher

rated peers. Sparbanken Syd is a community owned savings bank, with customer representatives voting at the annual general meetings. We consider these to be passive shareholders, reducing risks related to board independence and control

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 <u>here</u> to go to the landing page for the entity/transaction on MDC and view the ESG Scores section.

Support and structural considerations

Affiliate support

Sparbanken Syd is an independent savings bank and, consequently, the bank does not benefit from any affiliate support.

Loss Given Failure (LGF) analysis

We apply our Advanced LGF Analysis on Sparbanken Syd because the bank is based in Sweden, which we consider an operational resolution regime. For this analysis, we assume that equity and losses are 3% and 8%, respectively, of tangible banking assets in a failure scenario. We also assume a 25% runoff in junior wholesale deposits and a 5% runoff in preferred deposits. Moreover, we assign a 25% probability to junior deposits being preferred to senior unsecured debt. These are in line with our standard assumptions. We assume the bank's junior deposits account for 26% of total deposits, in line with banks with a diversified deposit base.

The deposit and issuer ratings have a very low loss-given-failure, indicated by a two notch uplift under Moody's Advanced LGF Analysis, because of the large volume of subordinated and senior unsecured debt, providing a cushion of protection to creditors in case of failure.

Government support

Given the limited scope of the bank's operations and its low market share in deposits, we assume a low probability of government support in case of need. As a result, Sparbanken Syd's deposit and issuer ratings do not benefit from any uplift because of government support.

Methodology and scorecard

About Moody's scorecard

Our scorecard is designed to capture, express and explain in summary form our Rating Committee's judgement. When read in conjunction with our research, a fulsome presentation of our judgement is expressed. As a result, the output of our scorecard may materially differ from that suggested by raw data alone (though it has been calibrated to avoid the frequent need for strong divergence). The scorecard output and the individual scores are discussed in rating committees and may be adjusted up or down to reflect conditions specific to each rated entity.

Rating methodology and scorecard factors

Exhibit 9

Rating Factors

Macro Factors	100%					
Weighted Macro Profile Strong +	100%					
Factor	Historic Ratio	Initial Score	Expected Trend	Assigned Score	Key driver #1	Key driver #2
Solvency						
Asset Risk						
Problem Loans / Gross Loans	1.3%	aa3	\leftrightarrow	baa2	Geographical concentration	Sector concentratio
Capital						
Tangible Common Equity / Risk Weighted Assets (Basel III - transitional phase-in)	22.5%	aa1	\leftrightarrow	aa3	Access to capital	
Profitability						
Net Income / Tangible Assets	0.5%	baa2	$\downarrow\downarrow$	ba2	Expected trend	
Combined Solvency Score		aa3		baa1		
Liquidity						
Funding Structure						
Market Funds / Tangible Banking Assets	15.3%	a3	\leftrightarrow	baa1	Market funding quality	
Liquid Resources						
Liquid Banking Assets / Tangible Banking Assets	21.9%	baa1	\leftrightarrow	baa1	Stock of liquid assets	
Combined Liquidity Score		a3		baa1		
Financial Profile		a1		baa1		
Qualitative Adjustments				Adjustment		
Business Diversification				0		
Opacity and Complexity				0		
Corporate Behavior				-1		
Total Qualitative Adjustments				-1		
Sovereign or Affiliate constraint				Aaa		
BCA Scorecard-indicated Outcome - Range				baa1 - baa3		
Assigned BCA				baa2		
Affiliate Support notching				0		
Adjusted BCA				baa2		
Balance Sheet			scope Million)	% in-scope	at-failure (SEK Million)	% at-failure
Other liabilities		1,200		9.0%	2,183	16.3%
		0,641		72.00/	0.650	C 1 C 0/

	(SEK MILLION)		(SEK MILLION)	
Other liabilities	1,200	9.0%	2,183	16.3%
Deposits	9,641	72.0%	8,658	64.6%
Preferred deposits	7,135	53.2%	6,778	50.6%
Junior deposits	2,507	18.7%	1,880	14.0%
Senior unsecured bank debt	2,006	15.0%	2,006	15.0%
Dated subordinated bank debt	150	1.1%	150	1.1%
Equity	402	3.0%	402	3.0%
Total Tangible Banking Assets	13,400	100.0%	13,400	100.0%

Debt Class	De Jure v	waterfal	rfall De Facto waterfall		Notching		LGF	Assigned	Additional Preliminary	
	Instrument volume + subordinatio	ordinati	Instrument on volume + c subordination	ordination	De Jure	De Facto	Notching Guidance vs. Adjusted BCA	LGF notching	Notching	g Rating Assessment
Counterparty Risk Rating	33.1%	33.1%	33.1%	33.1%	3	3	3	3	0	a2
Counterparty Risk Assessment	33.1%	33.1%	33.1%	33.1%	3	3	3	3	0	a2 (cr)
Deposits	33.1%	4.1%	33.1%	19.1%	2	3	2	2	0	a3
Senior unsecured bank debt	33.1%	4.1%	19.1%	4.1%	2	2	2	-	-	-
		<u>.</u>	A 1 11 1	D 1' '	D (1)					

Instrument Class	Loss Given Failure notching		Preliminary Rating Assessment	Government Support notching	Local Currency Rating	Foreign Currency Rating
Counterparty Risk Rating	3	0	a2	0	A2	A2
Counterparty Risk Assessment	3	0	a2 (cr)	0	A2(cr)	
Deposits	2	0	a3	0	A3	A3
Senior unsecured bank debt	-	-	-	0	A3	A3

[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 10

Category	Moody's Rating
SPARBANKEN SYD	
Outlook	Stable
Counterparty Risk Rating	A2/P-1
Bank Deposits	A3/P-2
Baseline Credit Assessment	baa2
Adjusted Baseline Credit Assessment	baa2
Counterparty Risk Assessment	A2(cr)/P-1(cr)
Issuer Rating	A3
ST Issuer Rating	P-2
Source: Moody's Ratings	

© 2025 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 Moody's Investors Service, Inc. for credit ratings opinions and services rendered by it. MCO and all MCO entities that issue ratings under the "Moody's Ratings" brand name ("Moody's Ratings"), also maintain policies and procedures to address the independence of Moody's Ratings' 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 <u>irmoodys.com</u> under the heading "Investor Relations — Corporate Governance — Charter and Governance 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 and Net Zero Assessments (as defined in Moody's Ratings Rating Symbols and Definitions): Please note that neither a Second Party Opinion ("SPO") nor a Net Zero Assessment ("NZA") is a "credit rating". The issuance of SPOs and NZAs is not a regulated activity in many jurisdictions, including Singapore. JAPAN: In Japan, development and provision of SPOs and NZAs 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 1440934