1

MOODY'S

BANKFOCUS RESEARCH

17 JUNE, 2024

ABOUT

Moody's BankFocus is a solution that enables research and analysis for banks, for counterparty credit risk and portfolio analysis. The BankFocus research team provides ongoing analysis of the banking sector globally.

AUTHORS

Irakli Pipia

Director, BankFocus Research

Dongying He

Product Manager, BankFocus Research

Enoc Pinto Perez

Product Manager, BankFocus Research

CONTACT US

Americas

+1.212.553.1658

clientservices@moodys.com

Europe

+44.20.7772.5454

clientservices.emea@moodys.com

Asia (Excluding Japan)

+85.2.2916.1121

clientservices.asia@moodys.com

Japan

+81.3.5408.4100

clientservices.japan@moodys.com

UK challenger banks: uneven performance in a sluggish market.

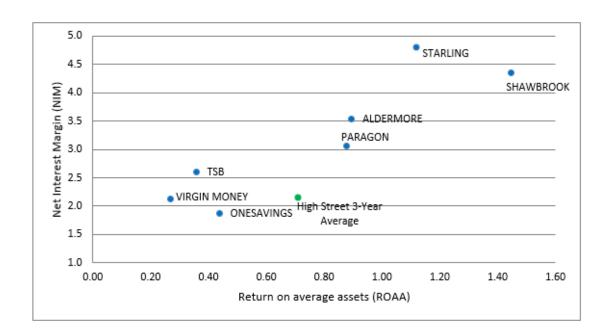
The UK challenger banks show diverse trends but on average compare favourably with their established high-street peers in terms of profitability and capitalisation. However, their asset quality indicators on average are below their established peers.

SUMMARY

- → The **UK challenger banks grew their assets at a moderate pace** with the majority exceeding the high-street banks' CAGR at 1.1% since 2020. This indicates moderate organic growth opportunities in the UK lending market which has come under pressure due to the spike in interest rates since 2023.
- → The UK challenger banks reported **a wide range of RWA intensity** ratios from 14% to 51% as at end-2023. The risk content of their balance sheets compares unfavourably with the high-street average RWA intensity ratio at 26% as at end-2023.
- → The profitability indicators of the UK challenger banks varied during the last year, with four of them below the high-street peer average. **Shawbrook** and **Starling Bank** had the best profitability indicators, supported by superior net interest margins.
- → There was notable difference in asset quality metrics among the challenger banks. **Those with lower profitability reported better non-performing loan ratios** (e.g. Virgin money and TSB). On average, the challenger banks had less favourable asset quality ratios compared to the high-street banks' average.
- → The UK challenger banks' **CET1** ratios were in line with the high-street banks' average ratio at 14% as at end-2023. However, despite similar regulatory capital ratios, their unadjusted non-regulatory leverage ratios varied across a wider range. This indicates differences in the asset composition of the challenger banks and, consequently, their RWA intensity.



→ Most challenger banks **hold less liquid assets** in proportion compared to the high-street banks. However, due to their dependency on longer-term secure funding the LCRs ratios of the challenger banks are on average better than those of the high-street peers.



BankFocus

MOODY'S

Table of contents

Constrained lending dynamics results in modest asset growth trends	4
RWA intensity is on average higher compared to the high-street banks	5
Starling Bank and Shawbrook have better profitability indicators	2
However, lower profitability is mitigated by better assets quality	3
Unadjusted leverage ratios and regulatory CET1 paint different pictures	4
Low refinancing risk as wholesale funding dependence is moderate	5
Appendix	11
Research methodology and scope	_
r! Bookmark not defined.3	Erro
Principal Ratio definitions	
r! Bookmark not defined.3	Erro
UK banks analysed	13



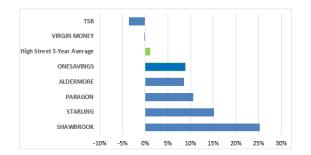
CONSTRAINED LENDING DYNAMICS RESULTS IN MODEST ASSET GROWTH TRENDS

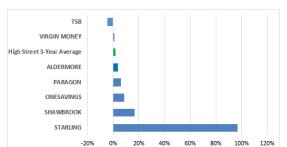
In this report we examined the leading challenger banks in the UK and compared their latest financial metrics to established high-street banks in the UK (further details on the peer group in Research Methodology pg. 13).

The UK challenger banks' balance sheets on average grew at a moderate pace with the majority exceeding the high-street banks' CAGR at 1.1 % since 2020. The fastest growth was reported by **Shawbrook** which was partly due to acquisitions of smaller lenders over this period. On the other hand, **TSB** and **Virgin Money** showed stagnation in overall asset size due to contraction in their mortgage portfolios since 2020.

However, the growth rates of customer loans indicates even slower growth for this peer group. **Starling Bank** was leading the peers on this metric, albeit from a very low base (total loan book was GBP 54.2mn in 2019). The majority of the UK challenger banks grew their loans books at single digit CAGRs since 2020. This indicates constrained lending opportunities for organic growth as well as general market stagnation due to higher interest rate environment since 2023. The pressure from the significantly higher interest rates is also evidenced by the high-street banks' stagnation in loan growth with the average CAGR close to zero since 2020.

FIGURE 1 Total Assets and Gross Loans to Customers CAGR, YE 2020 to YE 2023*







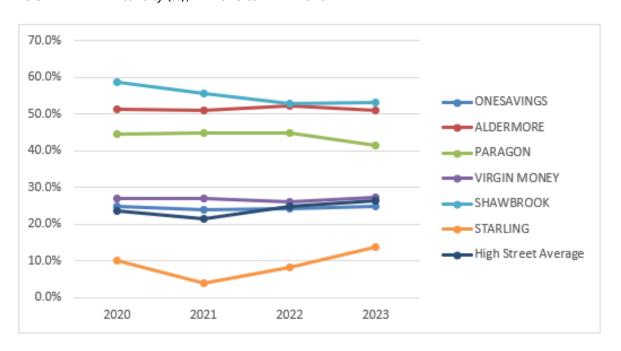
RWA INTENSITY IS ON AVERAGE HIGHER COMPARED TO THE HIGH-STREET BANKS

The UK challenger banks reported a wide range of <u>RWA Intensity</u> ratios from 14% to 51% as at end-2023. This compares less favorably with the high-street average ratio at 26% as at end-2023.

OneSavings and **Virgin Money** had their RWA intensity indicators aligned with the high-street banks' average. However, the rest of the UK challenger banks had notably higher RWA intensity ratios exceeding 40% as at end-2023.

Shawbrook had the highest RWA intensity among the group above 50%, due to its sizeable holdings of higher-risk weighted buy-to-let mortgage loans. In contrast, **Starling Bank** had the lowest, but increasing, RWA intensity below 15% due to a large portion of its assets in low-risk liquid instruments (c. liquid assets were 45% of total assets as at end-2023).

FIGURE 2 RWA Intensity (%), YE 2020 to 1HYE 2023





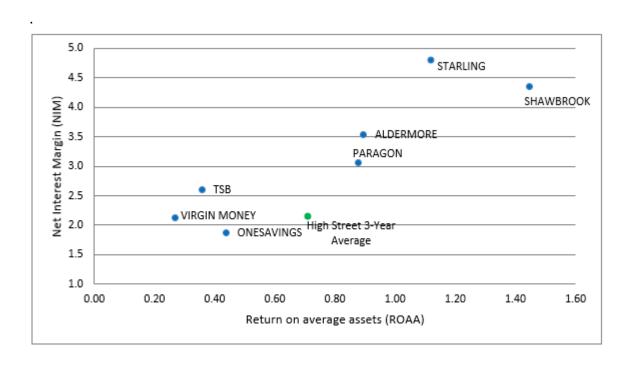
STARLING BANK AND SHAWBROOK HAVE BETTER PROFITABILITY INDICATORS

The profitability ratios of the UK challenger banks varied during the last year, with four of them above the high-street peer average. **Shawbrook** and **Starling Bank** had the best profitability indicators, supported by superior net interest margins at around 4.5%. **Aldermore** and **Paragon** were also above the high-street banks' profitability average and comparable to each other.

TSB and **Virgin Money** had the weakest profitability indicators compared to the peers as well relative to the high-street banks' average. This was due to lower interest margins of their lending portfolios.

All challenger banks were highly dependent on Net Interest Income as their fees and commissions represented only small part of Operating Revenues (Appendix II). This indicates lower revenue diversification and sensitivity to the interest rate environment compared to the high-street banks.

FIGURE 3 ROAA and Net Interest Margin (NIM), YE 2023





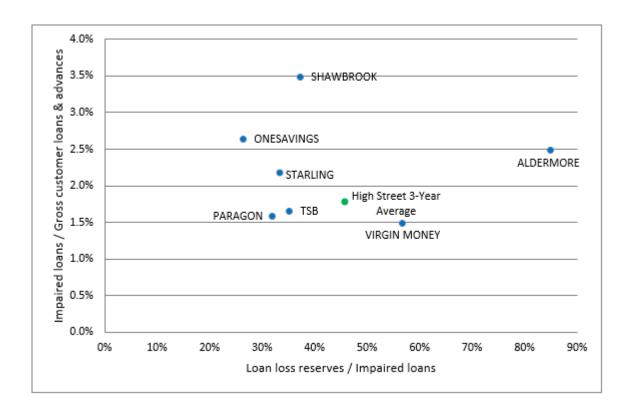
HOWEVER, LOWER PROFITABILITY IS MITIGATED BY BETTER ASSETS QUALITY

There was notable difference in asset quality metrics among the challenger banks peer group. The lower profitability of **TSB** and **Virgin Money** reflects their risk-averse lending strategies and resulted in better non-performing loan ratios. On average, however, the challenger banks had less favourable asset quality ratios compared to the high-street banks' average.

Shawbrook, one of the most profitable challenger banks, had the weakest asset quality metrics which also was also indicated by its higher RWA intensity as noted above.

Loan loss coverage ratios of the majority of challenger banks were below the high-street banks' average at 45%. This relatively modest coverage ratios reflected dominance of secured lending and reliance on mortgage collateral. **Aldermore** had the highest loan loss coverage ratio exceeding 80% which mitigated its relatively higher non-performing asset ratio at 2.5%. **OneSavings** had a similar non-performing loan ratio with considerably lower provisioning coverage as at end-2023.

FIGURE 4 Impaired Loans / Gross loans and Loan Loss Reserves / Impaired Loans, YE 2023



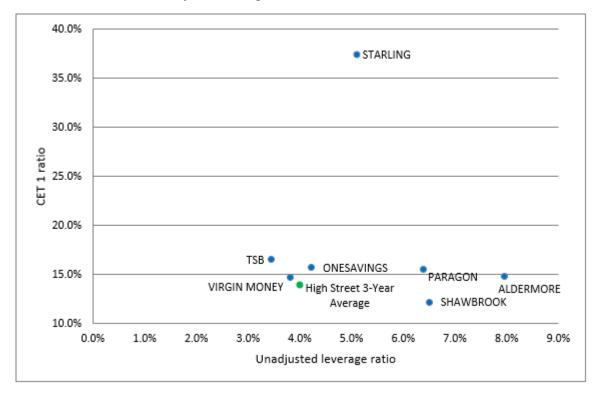


UNADJUSTED LEVERAGE RATIOS AND REGULATORY CET1 PAINT CONTRASTING PICTURES

The UK challenger banks' CET1 ratios were in line with the high-street banks' average ratio at 14% (excluding Nationwide). **Starling Bank** had the highest regulatory ratio which was due to low RWA intensity and higher proportion of liquid assets in its balance sheet.

However, despite similar regulatory capital ratios, the unadjusted non-regulatory leverage ratios were across a wider range for the challenger banks. **TSB** and **Virgin Money** had the lowest leverage ratios, with **Aldermore** leading the peers, despite its moderate regulatory CET1 ratio. **Starling Bank** had a more modest leverage ratio at 5.1% despite its very high regulatory CET1 ratio.

FIGURE 5 CET1 and Unadjusted Leverage Ratio, YE 2023



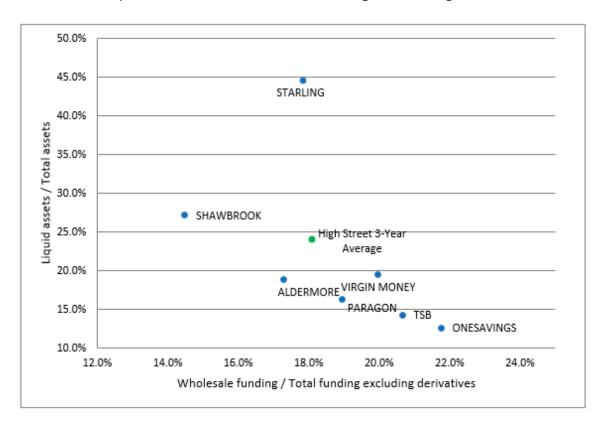


LOW REFINANCING RISK AS WHOLESALE FUNDING DEPENDENCE IS MODERATE

The liquidity position of the challenger banks reflected different strategies of managing their refinancing risk. While **Shawbrook** and **Starling Bank** and banks kept larger proportion of their assets in liquid instruments, **OneSavings** and **TSB** had the same ratio below 15% of total assets. However, most challenger banks compared unfavorably to the high-street banks' average liquid asset ratio of at 24%.

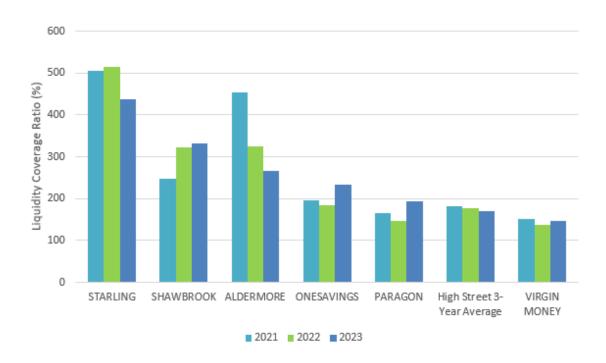
Dependence on wholesale funding was more uniform among the challenger banks, ranging from 17% to 22% of total liabilities (excluding **Shawbrook**). The latter was an outlier with the least dependence on wholesale funding at 15% of wholesale liabilities as at end-2023. Their wholesale funding dependence on average was higher than the high-street banks' average ratio at 18%. However, we expect that the nature of the challenger banks' wholesale liabilities to be skewed towards longer-term secured funding, thus reducing short-term refinancing risk.

FIGURE 6 Liquid Assets / Total Assets vs Wholesale Funding / Total Funding Excl. Derivatives, YE 2023



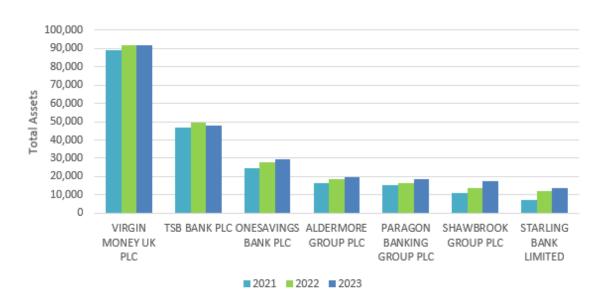
Overall, these liquidity and funding ratios suggest a manageable short-term refinancing risk among the challenger banks, which is also evidenced by high Liquidity Coverage Ratios (LCR). Except **Virgin Money**, all challenger banks had LCR ratios above the high-street banks' average as at end-2023.

FIGURE 7 Figure 7 Basel III Liquidity Coverage Ratio (LCR) (as reported), YE 2020 to YE 2023

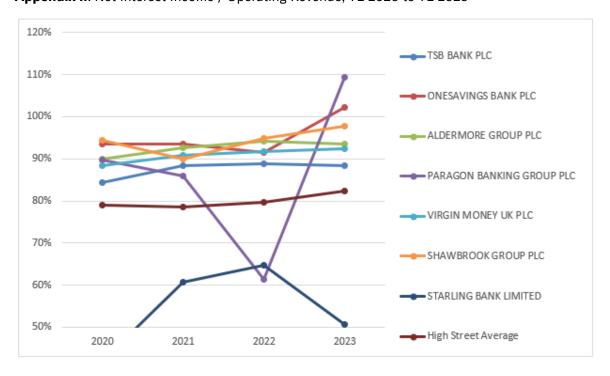


APPENDIX

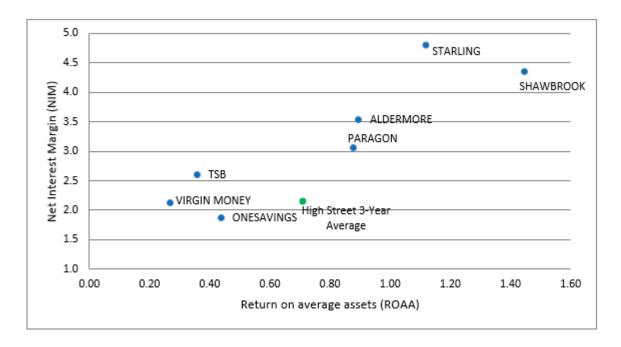
Appendix I: Total Assets, YE 2021 to YE 2023.



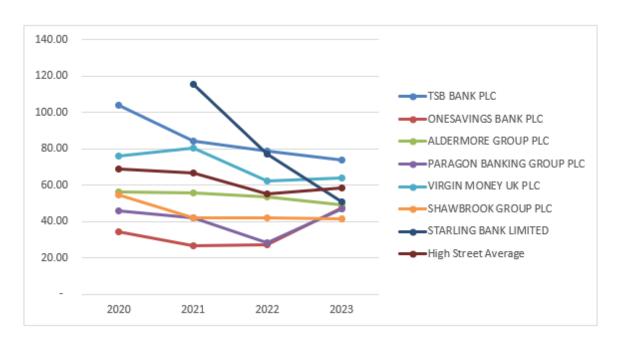
Appendix II: Net Interest Income / Operating Revenue, YE 2020 to YE 2023



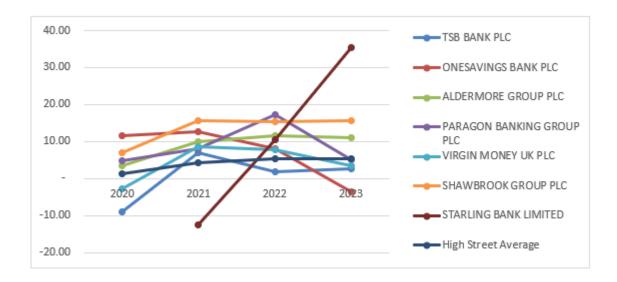
Appendix III: ROAE and Recurring Earning Power, YE 2023



Appendix IV: Cost to Income (Efficiency) Ratio, YE 2020 to YE 2023



Appendix V: Average CET1 Capital Generation (Net Income - Dividends / Total Equity), YE 2020 to YE 2023



Research methodology and scope

Using BankFocus search steps we analyzed the following financial factors: Asset Quality, Profitability, Capitalization, Liquidity and Funding for the period of financial end-2020 to end-2023.

Principal Ratio definitions

For more detailed definitions refer to BankFocus Global detailed format – data and ratio definitions in the Help section of Popular guides, Financial data.

We analysed the following UK banks:

Challenger banks: TSB BANK PLC, ONESAVINGS BANK PLC, ALDERMORE GROUP PLC, PARAGON BANKING GROUP PLC, VIRGIN MONEY UK PLC, SHAWBROOK GROUP PLC

High Street Banks: LLOYDS BANK PLC, NATIONAL WESTMINSTER BANK PLC – NATWEST, HSBC UK BANK PLC, BARCLAYS BANK UK PLC, NATIONWIDE BUILDING SOCIETY, SANTANDER UK PLC



© 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 DO NOT COMMENT ON THE SUITABILITY OF AN INVESTMENT FOR ANY 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 DO NOT HER WISE MAKES AVAILABLE ITS MATERIALS WITH THE EXPECTATION AND UNDERSTANDING THAT EACH INVESTOR WILL, WITH DUE CARE, MAKE ITS OWN STUDY AND EVALUATION OF FEACH 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 ratings 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" 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.