

Credit Opinion: DekaBank Deutsche Girozentrale

Global Credit Research - 28 Jan 2016

Frankfurt am Main, Germany

Ratings

Category	Moody's Rating
Outlook	Stable
Bank Deposits	Aa2/P-1
Baseline Credit Assessment	baa2
Adjusted Baseline Credit Assessment	a3
Counterparty Risk Assessment	Aa2(cr)/P-1(cr)
Senior Unsecured -Dom Curr	Aa3
Subordinate -Dom Curr	Baa1
Pref. Stock Non-cumulative -Dom	Baa3
Curr	Dado
Other Short Term -Dom Curr	(P)P-1

Contacts

AnalystPhone Katharina Barten/Frankfurt am Main 49.69.707.30.700

Michael Rohr/Frankfurt am Main
Carola Schuler/Frankfurt am Main
Christina Gerner/Frankfurt am Main

Key Indicators

DekaBank Deutsche Girozentrale (Consolidated Financials)[1]

	[2]6-15 [2] 12-14	[3] 12-13 [3] 12-12 [3] 12-11	Avg.
Total Assets (EUR billion)	112.6	113.2	116.1	129.8	133.7	[4] -4.2
Total Assets (USD billion)	125.5	136.9	159.9	171.1	173.6	[4]-7.8
Tangible Common Equity (EUR billion)	4.3	4.1	3.7	3.5	3.3	[4]7.0
Tangible Common Equity (USD billion)	4.8	5.0	5.2	4.7	4.3	[4]3.0
Problem Loans / Gross Loans (%)	2.4	2.2	2.3	2.7	2.5	[5] 2.4
Tangible Common Equity / Risk Weighted Assets (%)	14.8	14.7	16.7	15.0	13.1	[6]14.7
Problem Loans / (Tangible Common Equity + Loan Loss	13.1	12.2	16.0	21.9	22.4	[5]17.1
Reserve) (%)						
Net Interest Margin (%)	0.2	0.3	0.2	0.2	0.2	[5] 0.2
PPI / Average RWA (%)	3.0	3.2	2.4	3.0	2.4	[6] 3.1
Net Income / Tangible Assets (%)	0.4	0.5	0.3	0.3	0.2	[5] 0.3
Cost / Income Ratio (%)	54.4	50.9	65.7	56.4	60.7	[5] 57.6
Market Funds / Tangible Banking Assets (%)	65.3	69.1	70.3	77.3	77.2	[5] 71.9
Liquid Banking Assets / Tangible Banking Assets (%)	48.6	43.7	45.4	45.6	45.9	[5] 45.8
Gross loans / Due to customers (%)	76.3	85.3	99.1	132.7	130.7	[5] 104.8
Source: Moody's						

[1] All figures and ratios are adjusted using Moody's standard adjustments [2] Basel III - fully-loaded or transitional phase-in; IFRS [3] Basel II; IFRS [4] Compound Annual Growth Rate based on IFRS reporting periods [5] IFRS reporting periods have been used for average calculation [6] Basel III - fully-loaded or transitional phase-in & IFRS reporting periods have been used for average calculation

Opinion

SUMMARY RATING RATIONALE

On 26 January, we upgraded DekaBank Deutsche Girozentrale's (DekaBank's) long-term deposit ratings to Aa2 from Aa3 and affirmed the bank's Aa3 long-term debt ratings and Prime-1 short-term debt and deposit ratings. We also changed the outlooks on the Aa3 long-term debt ratings and the Aa2 deposit ratings to stable, from negative (for senior debt) and positive (for deposits) previously. DekaBank's baa2 baseline credit assessment (BCA), its a3 Adjusted BCA, its Aa2(cr)/Prime-1(cr) Counterparty Risk (CR) Assessments and various subordinated instrument ratings (see details at the back of this report) were unaffected by this rating action.

The upgrade of DekaBank's deposit ratings resulted from the subordination of certain senior unsecured debt obligations relative to other senior liabilities including deposits into Germany's insolvency legislation which will take effect from January 2017. The changed legislation implies a higher severity of loss in resolution for senior unsecured debt instruments, i.e., bonds and notes issued to the market or privately placed with non-retail investors, because these will no longer benefit from their current pari-passu status with junior deposits. Conversely, for junior deposits the new law implies a lower severity of loss as these will benefit from the subordination of debt instruments.

To mirror the revised creditor ranking in resolution for German banks in our rating assessment for DekaBank, we adjusted our Advanced Loss Given Failure (LGF) analysis, which takes into account the severity of loss faced by the different liability classes in resolution. These adjustments resulted in three notches of uplift (instead of two previously) for deposits and an unchanged two notches for senior debt.

DekaBank's long-term senior unsecured debt and deposit ratings reflect: (1) the bank's baa2 BCA; (2) its a3 adjusted BCA, which incorporates very high affiliate support from Sparkassen-Finanzgruppe (corporate family rating Aa2 stable, BCA a2), because DekaBank is fully-owned by the savings bank members of this group, which continues to result in two notches of rating uplift; (3) the results of our LGF analysis, which provides three notches of rating uplift for deposits and two notches for senior debt from the a3 adjusted BCA; and (4) our assumption of moderate government support, yielding one notch of support uplift for DekaBank's debt and deposit ratings.

DekaBank's baa2 BCA reflects not only the group's modest asset risk, satisfactory regulatory capital ratios and strong funding position, but also the constraints of its considerable balance-sheet leverage. The BCA level incorporates our expectation that DekaBank will continue to address this weakness and further improve its absolute capital levels.

With our January rating action, we also withdrew certain "backed" Aaa/Prime-1 legacy ratings of DekaBank for liabilities that fall under the grandfathering (a statutory guaranty) of the bank's public sector owners, but have become obsolete following final expiries. The withdrawals relate to backed ratings for long-term deposits, long-term subordinated debt and short-term debt and deposit. DekaBank's Aaa backed long-term senior debt rating remains in place for grandfathered instruments that continue to be outstanding.

RATING DRIVERS

- Capitalisation is sound in the context of its low-risk asset profile, although leverage remains high
- Risk-adjusted profitability is robust
- Dependence on wholesale funds is mitigated by DekaBank's highly liquid balance sheet
- DekaBank's ratings are supported by its Strong+ Macro Profile
- DekaBank enjoys strong support from Sparkassen-Finanzgruppe
- Senior creditors benefit from ample subordinated instruments, which provide a buffer in resolution

Rating Outlook

The outlook on the Aa2 long-term deposit ratings and the Aa3 long-term senior unsecured debt ratings is stable.

What Could Change the Rating - Up

Upward pressure on the baa2 BCA would develop in the event of a sustained lowering of the bank's concentration risk to financial intermediaries, along with a significant improvement in its absolute capital levels and the leverage ratio.

Positive pressure on the long-term debt ratings could also arise should DekaBank materially raise its volume of subordinated instruments, thereby lowering the loss-given-failure for this liability class in resolution. The same does not apply to DekaBank's deposit ratings because, with three notches of rating uplift from the adjusted BCA, the deposit ratings already benefit from the highest possible LGF result.

What Could Change the Rating - Down

A downgrade of DekaBank's BCA or a deterioration in the financial profile of the German Savings Banks Association would adversely influence the ratings. The BCA could come under pressure if additional risks emerge from DekaBank's commercial banking activities, or if the bank fails to gradually improve its leverage ratio.

Negative pressure on the long-term debt ratings could arise if DekaBank's volume of unsecured debt instruments decreases relative to its total banking assets.

DETAILED RATING CONSIDERATIONS

DekaBank is a fully fledged asset management and securities service provider for Sparkassen-Finanzgruppe. It supports the savings banks in the entire investment and advisory process for securities-related business. It also provides capital-market-related trading and sales services, as well as treasury facilities, including liquidity, asset and liability management, and funding to private and institutional clients.

CAPITALISATION IS SOUND IN THE CONTEXT OF THE LOW-RISK ASSET PROFILE, ALTHOUGH LEVERAGE REMAINS HIGH

The prospect of resilient core earnings and good capital retention capacity underpin our view that DekaBank will be able to improve its capital base further during 2016, following good progress made in H1 2015. Despite a satisfactory common equity Tier 1 (CET1) ratio and sound economic capital buffers, DekaBank's absolute capital base remains modest compared with similarly rated peers, based on its fully phased-in regulatory leverage ratio of 3.9% as of June 2015. However, this ratio marks an improvement from the level as of year-end 2014. Additionally, the bank's current leverage is balanced by its strong asset profile, which benefits from the mostly secured nature of its lending to financial intermediaries.

The bank's 14.4% transitional CET1 ratio and the 13.2% fully phased-in CET1 ratio as of June 2015 under the Capital Requirements Regulation and Directive (CRR/CRD IV), illustrate that DekaBank's regulatory capitalisation is satisfactory.

Notwithstanding DekaBank's sound risk profile and strong mitigants to asset risks in the form of collateral, we take the view that its low 2.4% three-year average problem loan ratio does not adequately capture all relevant risks. To take account of risks relating to the bank's substantial market risk, as well as borrower and sector concentrations, we adjust the Asset Risk score downward to baa2. Our downward adjustment of the Capital score to baa2 captures the bank's relatively high TCE-based leverage (Tangible Common Equity relative to Tangible Assets), which was a modest 3.8% as of June 2015 .

Risk to capital, while not negligible, remains manageable. DekaBank runs considerable market risk related to investments and derivative positions, which represented 35% of the bank's risk-weighted assets (RWAs) as of June 2015. We acknowledge that RWA movements often reflect small duration mismatches of hedged positions (under the standardised approach for market risk, which DekaBank uses), rather than higher economic risk. However, we also note the resulting scope for capital ratio volatility. RWAs for market risk was broadly stable at EUR10.3 billion under CRR/CRD IV during the six months to June 2015.

RISK-ADJUSTED PROFITABILITY IS ROBUST

Despite significant pressures on its net interest income (NII) and higher bank levies, DekaBank improved its performance during the nine months to September 2015, which was mostly driven by strong fee income. We expect a mildly weakening trend for Q4 2015 and 2016, even though net sales in the mutual funds business are likely to remain robust. However, the nine-months result included a positive one-off effect relating to pension provisions, and we expect the low risk charges during the period to gradually normalise from 2016.

Investors' rising risk aversion, resulting from an extended high volatility in global markets, could have adverse

implications on DekaBank's net sales performance of mutual and institutional funds. Implementation of the Markets in Financial Instruments Directive (MiFID II), which will govern the permissibility of sales commission and other requirements for strengthening investor protection, could negatively affect DekaBank's profitability from 2017.

Owing to its strong and profitable asset-management franchise, DekaBank's risk-adjusted profitability is robust and represents an important cushion for credit and market-related losses. As the preferred retail asset manager of the savings bank sector and a leading provider of institutional investment funds, DekaBank commands a resilient fee and commission income from asset-management activities, which accounted for 71% of core revenues (including the trading result) in the nine months to September 2015. DekaBank's NII could remain under pressure for an extended period, which is expressed in its ba2 Profitability score.

DekaBank reported an improved economic result of EUR456 million for the nine months to September 2015, a 1% increase year-on-year. This broadly st able result benefitted from higher total income of EUR1.14 billion (+4%) which was offset by higher administrative costs of EUR685 million. The latter marks a 6% increase year-on-year which, however, was mostly driven by a materially higher bank levy. DekaBank's earnings quality remains robust, given that a 12% increase in fee and commission income to EUR807 million could largely offset the 44% erosion of NII to EUR143 million. The bank's reported economic result includes several items not shown in the IFRS income statement, such as valuation gains and losses from hedged lending, as well as issuance business to better represent the true economic position, possible future charges and actuarial gains and losses from pension provisions.

DEPENDENCE ON WHOLESALE FUNDS IS MITIGATED BY DEKABANK'S HIGHLY LIQUID BALANCE SHEET

DekaBank is highly dependent on wholesale funds. Almost two thirds of the balance sheet is funded through interbank repo and other short-term products, specifically institutional deposits and commercial paper. This dependence is balanced by DekaBank's easy access to recurring funds from the savings banks sector, substantial regular excess cash from its mutual funds franchise and high liquidity balances. The modest volume of EUR24 b illion customer loans (as of June 2015) is sufficiently matched by medium- and long-term funds.

Structurally, DekaBank is slightly overfunded, with no liquidity shortfalls in short- and long-term buckets. Full coverage also applies in its combined stress scenario, a stress test introduced in compliance with domestic regulatory requirements. The German savings bank sector regularly provides stable funding, especially with medium- and long-term maturities. Taken together, sector funds and excess cash from the mutual funds franchise provide material liquidity. To capture these benefits, we adjust the initial Funding Structure score to ba3, while the Combined Liquidity score is higher at baa3.

DEKABANK'S RATINGS ARE SUPPORTED BY ITS STRONG+ MACRO PROFILE

Almost three quarters of DekaBank's assets are in Germany (Aaa), with the remainder mostly in the stronger European Union (EU) countries, resulting in a Macro Score of Strong+.

German banks benefit from operating in an environment with very high economic, institutional and government financial strength and very low susceptibility to event risk. Low and declining private sector debt and a stable housing price cycle support credit conditions. Funding conditions benefit from a strong domestic deposit base and good wholesale market access. However, operating conditions for the German banking system are constrained by high fragmentation in an over-saturated market, low fee income generation and intensifying competition for domestic business.

NOTCHING CONSIDERATIONS

AFFILIATE SUPPORT

DekaBank benefits from cross-sector support from Sparkassen-Finanzgruppe. Cross-sector support materially reduces the probability of default, as it would be available to stabilise a distressed member bank and not just compensate for losses in resolution.

We consider the readiness of the sector to support DekaBank to be very high, given the bank's key service function for the sector and its 100% ownership by the sector's savings banks. Cross-sector support continues to provide two notches of rating uplift to DekaBank's debt, deposit and subordinated instrument ratings.

LOSS GIVEN FAILURE

In our Advanced LGF analysis, we consider the risks faced by the different debt and deposit classes across the liability structure in resolution. We assume residual tangible common equity of 3% and losses post-failure of 8% of tangible banking assets, a 25% run-off in "junior" wholesale deposits and a 5% run-off in preferred deposits. These ratios are in line with our standard assumptions. In line with the new German insolvency legislation that will effectively subordinate senior bonds and notes to deposits in resolution from January 2017, we base our calculation on the assumption that deposits are preferred to most senior unsecured debt instruments.

For deposits, our LGF analysis indicates an extremely low loss-given-failure, leading to a three-notch uplift from the bank's a3 adjusted BCA.

For senior debt, our LGF analysis indicates a very low loss-given-failure, leading to a two-notch uplift from the bank's a3 adjusted BCA.

For senior subordinated debt, rated Baa1, our LGF analysis indicates a high loss-given-failure, leading to a positioning one-notch below the bank's adjusted BCA.

The perpetual Additional Tier 1 (AT1) notes issued in 2014 are rated Baa3(hyb), three notches below the adjusted BCA, in line with our framework for rating non-viability Contingent Convertible Securities.

GOVERNMENT SUPPORT

Although German banks operate in an environment of materially weakened prospects for financial assistance from the government, we maintain one notch of rating uplift in our senior unsecured debt and deposit ratings for members of the Sparkassen-Finanzgruppe, reflecting our assumptions of a moderate support probability. Our government support assumptions reflect the large size and high systemic relevance of Sparkassen-Finanzgruppe.

ABOUT MOODY'S BANK RATINGS

About Moody's Bank Scorecard

Our Scorecard is designed to capture, express and explain in summary form our Rating Committee's judgment. When read in conjunction with our research, a fulsome presentation of our judgment 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 Factors

DekaBank Deutsche Girozentrale

Macro Factors	
Weighted Macro Profile	Strong +

Financial Profile						
Factor	Historic Ratio	Macro Adjusted Score	Credit Trend	Assigned Score	Key driver #1	Key driver #2
Solvency						
Asset Risk						
Problem Loans / Gross Loans Capital	2.4%	a2	$\leftarrow \rightarrow$	baa2	Market risk	Non lending credit risk
TCE / RWA	14.8%	a1	← →	baa2	Nominal leverage	Risk- weighted capitalisation
Profitability Net Income / Tangible Assets	0.4%	ba2	← →	ba2		

Combined Solvency Score		а3		baa3		
Liquidity Funding Structure Market Funds / Tangible Banking Assets	69.1%	caa1	← →	ba3	Market funding quality	Term structure
Liquid Resources Liquid Banking Assets / Tangible Banking Assets	43.7%	aa3	← →	a3	Asset encumbrance	
Combined Liquidity Score		ba1		baa3		

| Complexity | Com

Opacity and Complexity 0
Corporate Behavior 0

Total Qualitative 0
Adjustments

Sovereign or Affiliate Aaa constraint

Scorecard Calculated
BCA range
baa2 - ba1

Assigned BCA baa2

Affiliate Support notching 2

Adjusted BCA a3

Instrument Class	Loss Given Failure notching	Additional notching	Preliminary Rating Assessment	Government Support notching	Local Currency rating	Foreign Currency rating
Deposits	3	0	aa3	1	Aa2	Aa2
Senior unsecured bank debt	2	0	a1	1	Aa3	
Dated subordinated bank debt	-1	0	baa1	0	Baa1	
Non-cumulative bank preference shares	-1	-2	baa3	0	Baa3(hyb)	

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



affiliates (collectively, "MOODY'S"). All rights reserved.

CREDIT RATINGS ISSUED BY MOODY'S INVESTORS SERVICE, INC. AND ITS RATINGS AFFILIATES ("MIS") ARE MOODY'S CURRENT OPINIONS OF THE RELATIVE FUTURE CREDIT RISK OF ENTITIES, CREDIT COMMITMENTS, OR DEBT OR DEBT-LIKE SECURITIES, AND CREDIT RATINGS AND RESEARCH PUBLICATIONS PUBLISHED BY MOODY'S ("MOODY'S PUBLICATIONS") MAY INCLUDE MOODY'S CURRENT OPINIONS OF THE RELATIVE FUTURE CREDIT RISK OF ENTITIES, CREDIT COMMITMENTS, OR DEBT OR DEBT-LIKE SECURITIES. 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. CREDIT RATINGS DO NOT ADDRESS ANY OTHER RISK, INCLUDING BUT NOT LIMITED TO: LIQUIDITY RISK, MARKET VALUE RISK, OR PRICE VOLATILITY. CREDIT RATINGS AND MOODY'S OPINIONS INCLUDED IN MOODY'S PUBLICATIONS ARE NOT STATEMENTS OF CURRENT OR HISTORICAL FACT. MOODY'S PUBLICATIONS MAY ALSO INCLUDE QUANTITATIVE MODEL-BASED ESTIMATES OF CREDIT RISK AND RELATED OPINIONS OR COMMENTARY PUBLISHED BY MOODY'S ANALYTICS, INC. CREDIT RATINGS AND MOODY'S PUBLICATIONS DO NOT CONSTITUTE OR PROVIDE INVESTMENT OR FINANCIAL ADVICE, AND CREDIT RATINGS AND MOODY'S PUBLICATIONS ARE NOT AND DO NOT PROVIDE RECOMMENDATIONS TO PURCHASE, SELL, OR HOLD PARTICULAR SECURITIES. NEITHER CREDIT RATINGS NOR MOODY'S PUBLICATIONS COMMENT ON THE SUITABILITY OF AN INVESTMENT FOR ANY PARTICULAR INVESTOR. MOODY'S ISSUES ITS CREDIT RATINGS AND PUBLISHES MOODY'S PUBLICATIONS 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 AND MOODY'S PUBLICATIONS ARE NOT INTENDED FOR USE BY RETAIL INVESTORS AND IT WOULD BE RECKLESS AND INAPPROPRIATE FOR RETAIL INVESTORS TO USE MOODY'S CREDIT RATINGS OR MOODY'S PUBLICATIONS 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.

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 rating process or in preparing the Moody's Publications.

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 SUCH RATING OR 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 rating, agreed to pay to Moody's Investors Service, Inc. for appraisal and rating services rendered by it fees ranging from \$1,500 to approximately \$2,500,000. MCO and MIS also maintain policies and procedures to address the independence of MIS's ratings and rating processes. Information regarding certain affiliations that may exist between directors of MCO and rated entities, and between entities who hold ratings from MIS 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 — Director and Shareholder Affiliation Policy."

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. It would be reckless and inappropriate for retail investors to use MOODY'S credit ratings or publications when making an investment decision. If in doubt you should contact your financial or other professional adviser.

Additional terms for Japan only: Moody's Japan K.K. ("MJKK") is a wholly-owned credit rating agency subsidiary of Moody's Group Japan G.K., which is wholly-owned by Moody's Overseas Holdings Inc., a wholly-owned subsidiary of MCO. Moody's SF Japan K.K. ("MSFJ") is a wholly-owned credit rating agency subsidiary of MJKK. MSFJ is not a Nationally Recognized Statistical Rating Organization ("NRSRO"). Therefore, credit ratings assigned by MSFJ are Non-NRSRO Credit Ratings. Non-NRSRO Credit Ratings are assigned by an entity that is not a NRSRO and, consequently, the rated obligation will not qualify for certain types of treatment under U.S. laws. MJKK and MSFJ are credit rating agencies registered with the Japan Financial Services Agency and their registration numbers are FSA Commissioner (Ratings) No. 2 and 3 respectively.

MJKK or MSFJ (as applicable) hereby disclose that most issuers of debt securities (including corporate and municipal bonds, debentures, notes and commercial paper) and preferred stock rated by MJKK or MSFJ (as applicable) have, prior to assignment of any rating, agreed to pay to MJKK or MSFJ (as applicable) for appraisal and rating services rendered by it fees ranging from JPY200,000 to approximately JPY350,000,000. MJKK and MSFJ also maintain policies and procedures to address Japanese regulatory requirements.