# Erste Group Bank AG - Mortgage Covered Bonds

# Covered Bonds / Austria

Contacts		9 (697) 073-0714 - Stanislav.Nastassine@moodys.com 72-1779 - Zoe.Gorton@moodys.com	
Monitoring Client Service Desk	Monitor.CB@moodys.com London: +44 20 7772-5454, csdlondon@moodys.com		Click on the icon to download data into Excel & to see Glossary of terms used Click <u>here</u> to access the covered bond programme webpage on moodys.com
Reporting as of:	30/06/2022	All amounts in EUR (unless otherwise specified)	For information on how to read this report, see the latest Moody's Covered Bonds Sector Update

#### Data as provided to Moody's Investors Service (note 1)

Overvlew		Chart 1: Rating history
Year of initial rating assignment:	2006	
Total outstanding liabilities:	EUR 18,110,040,796	Aa1 Aa
Total assets in the Cover Pool:	EUR 25.560.893.519	Aa2 Aa3
Issuer name / CR Assessment:	Erste Group Bank AG / A1(cr)	A1 A2
Group or parent name / CR Assessment:	n/a	A3 A3
Main collateral type:	Residential	Baa1 Baa2
, jp		Baa3 Ba
Ratings		Ba1 Ba2
Covered bonds rating:	Aaa	Ba3 Ba
Entity used in Moody's EL & TPI analysis:	Erste Group Bank AG	
CB anchor:	Aa3	Jun-2020 Sep-2020 Jan-2021 Apr-2021 Jul-2021 Oct-2021 Feb-2022 May-2022 Aug-2022 Dec
CR Assessment:	A1(cr)	
Adjusted BCA / SUR:	baa1/A2	Covered Bond Sovereign Adjusted BCA CR Assessment (RHS) CB
Unsecured claim used for Moody's EL analysis:	Yes	
II. Value of the Cover Pool		Chart 2:
		Asset types in cover pool
Collateral quality		Non-profit Housing, Other/Supplementary assets, 1.5%
Collateral Score:	13.5%	8.6%
Collateral Score excl. systemic risk:	13.5%	Multi-family assets
		18.5%
Cover Pool losses		
Collateral Risk (Collateral Score post-haircut):	9.1% 43%	
Market Risk:	12.2% 57%	

#### III. Over-Collateralisation Levels (notes 2 & 3)

Over-Collateralisation (OC) figures presented below can include Eligible and Non-Eligible collateral. Over-Collateralisation (OC) figures presented below can include Eligible and Non-Eligible collateral. Over-Collateralisation levels are provided on any of the following: nominal basis or unstressed NPV basis or on stressed NPV basis.

Current situation		
Committed OC (NPV):	2.0%	
Current OC (Unstressed NPV):	53.9%	
OC consistent with current rating (note 4)	12.0%	
Current OC according to the Austrian Mortgage Bank Act's issuance lin	mit is 20.59%	

#### Timely Payment Indicator 8 TDLLC

Timely Payment Indicator (TPI):		Probable-High
TPI Leeway:		
Extract from TPI table		
CB Anchor	Probable-High	
Aaa	Aaa	
Aa1	Aaa	
Aa2	Aaa	
Aa3	Aaa	
A1	Aaa	
A2	Aaa	
A3	Aaa	
Baa1	Aa1	

#### Sensitivity scenario CB anchor

Commercial assets, 22.2%

		consistent with current rating	,
Scenario 1: CB anchor is lowered by	1 notch	16.0%	

#### Legal framework

Does a specific covered bond law apply for this programme:	Yes
Main country in which collateral is based:	Austria
Country in which issuer is based:	Austria

Timely payment

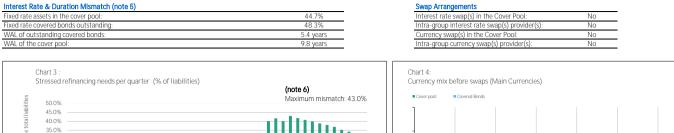
Refinancing period for principal payments of 6 months or greater:	No
Liquidity reserve to support timely payments on all issuances:	No
Principal Payment	Hard Bullet and Soft Bullet

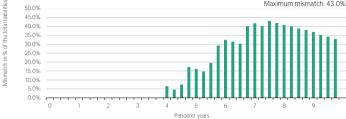
(note 1) The data reported in this PO is based on information provided by the issuer and may include certain assumptions made by Moody's Moody's accepts no responsibility for the information provided to it and, whilst it believes the assumptions it has made are reasonable, cannot savelle on request. Credit ratings, TPI and TPI Leeway shown in this PO are so of publication date. (note 2) This assumes the Covered Bonds rating is not constrained by the TPI Also to the extent rating assumptions change following a downgrade or an upgrade of the issuer, the necessary OC stated here may also change. This is especially significant in the case of CR assessments of CR assessments of CR assessments to for a state of the submit at the vare or critically by Moody's at his time. In any event, the necessary OC following a 1 notch downgrade may the be substantially higher than the amount suggested here as market risks are considered more critically by Moody's at his time. In any event, the necessary OC calculated to be consistent with the current rating under Moody's expected loss model. However, the level of OC consistent with a given rating level may differ from this amount where ratings are capped under the TPI framework and, for example, where committee discretion is applied. (note 4) The OC consistent with the current rating is the minimum level of over-collateralisation which is necessary to support the covered bond rating at 1ts current level on the basis of the pool as per the cut-off date. The sensitivity run is based on certain assumptions, including that the Current rating may be higher than shown. The OC required may also differ from the model output only and therefore a simplification as it does not take into account eertain assumptions stated here are subject to change at any time at Moody's discretion. Free Group Bank AG - Mortgage Covered Bonds **State Covered Bonds State Cover** 

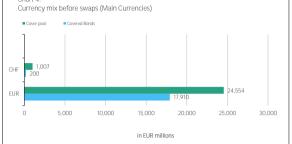
Residential assets, 49.2%

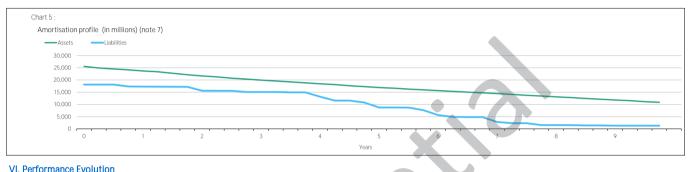
COVERED BONDS

## V. Asset Liability Profile



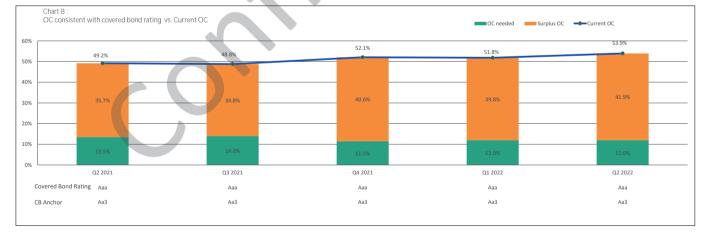






## VI. Performance Evolution

	Chart 6 : Collateral Score							Chart 7 : Cover Pool	Losses			
16%	13.5%	13.7%	13.5%	13.7%	13.5%					Collateral Risk	Market Risk	Cover Pool Losses
12%	•		•			11	25%	22.6%	22.8%	21.3%	21.4%	21.2%
10%						И	20%					
8%							15%					
4%							10%					
2%							5%					
<sub>0%</sub> L	Q2 2021	Q3 2021	Q4 2021	Q1 2022	Q2 2022		<sub>0%</sub> L	Q2 2021	Q3 2021	Q4 2021	Q1 2022	Q2 2022



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

(note 5) This assumes no prepayment. (note 5) Based on principal flows only. Assumptions include no prepayments, principal collections limited to the portion of assets that make up the amount of the liabilities plus committed OC, no further CB issuance and no further assets added to the cover pool. (note 7) Assumptions include no swap in place in Cover Pool, no prepayment and no further CB issuance. Erste Group Bank AG - Mortgage Covered Bonds

## VII. Cover Pool Information - Residential Assets EUR

Overview

Asset type:	Residential
Asset balance:	11,666,994,492
Average loan balance:	139,511
Number of loans:	83,628
Number of borrowers:	73,332
Number of properties:	111,308
WA remaining term (in months):	253
WA seasoning (in months):	53

#### Details on LTV

WA unindexed LTV	74.1%
WA Indexed LTV:	69.0%
Valuation type:	Lending Value
LTV threshold:	n/a
Junior ranks:	n/d
Loans with Prior Ranks:	21.7%

## Specific Loan and Borrower characteristics

Loans with an external guarantee in addition to a mortgage:	n/a
Interest only Loans	1.7%
Loans for second homes / Vacation:	0.0%
Buy to let loans / Non owner occupied properties:	0.0%
Limited income verified:	n/d
Adverse credit characteristics (**)	n/d

#### Performance

Loans in arrears ( ≥ 2months - < 6months):	0.0%
Loans in arrears ( ≥ 6months - < 12months):	0.0%
Loans in arrears ( ≥ 12months):	0.0%
Loans in a foreclosure procedure:	0.0%

#### Multi-Family Properties

Loans	to tenants of tenant-owned Housing Cooperatives:	n/a
Other	type of Multi-Family loans (***)	n/a



#### VIII. Cover Pool Information - Residential Assets CHF

Asset type:	Residentia
Asset balance:	916,163,063
Average loan balance:	197,875
Number of loans:	4,630
Number of borrowers:	4,473
Number of properties:	5,868
WA remaining term (in months):	91
WA seasoning (in months):	193

#### Details on LTV

WA unindexed LTV	113.3%
WA Indexed LTV:	93.1%
Valuation type:	Lending Value
LTV threshold:	n/a
Junior ranks:	n/d
Loans with Prior Ranks:	43.6%

#### Specific Loan and Borrower characteristics

Loans with an external guarantee in addition to a mortgage:	n/a
Interest only Loans	72.6%
Loans for second homes / Vacation:	0.0%
Buy to let loans / Non owner occupied properties:	0.0%
Limited income verified:	n/d
Adverse credit characteristics (**)	n/d

# Performance

Loans in arrears ( ≥ 2months - < 6months):	0.0%
Loans in arrears ( ≥ 6months - < 12months):	0.0%
Loans in arrears ( ≥ 12months):	0.0%
Loans in a foreclosure procedure:	0.0%

#### Multi-Family Properties

Loans to tenants of tenant-owned Housing Cooperatives:	n/a
Other type of Multi-Family loans (***)	n/a



## IX. Cover Pool Information - Non-profit Housing

Asset type:	Residenti
Asset balance:	2,193,894,18
Average loan balance:	775,50
Number of loans:	2,82
Number of borrowers:	12
Number of properties:	5,99
WA remaining term (in months):	22
WA seasoning (in months):	10

#### Details on LTV

WA unindexed LTV	51.8%
WA Indexed LTV:	51.3%
Valuation type:	Lending Value
LTV threshold:	n/a
Junior ranks:	n/d
Loans with Prior Ranks:	98.3%

# Specific Loan and Borrower characteristics

Loans with an external guarantee in addition to a mortgage:	n/a
Interest only Loans	0.3%
Loans for second homes / Vacation:	0.0%
Buy to let loans / Non owner occupied properties:	97.4%
Limited income verified:	n/d
Adverse credit characteristics (**)	n/d

#### Performance

Loans in arrears ( ≥ 2months - < 6months):	0.0%
Loans in arrears ( ≥ 6months - < 12months):	0.0%
Loans in arrears ( ≥ 12months):	0.0%
Loans in a foreclosure procedure:	0.0%

#### Multi-Family Properties

Loans to tenants of tenant-owned Housing Cooperatives:	n/a
Other type of Multi-Family loans (***)	n/a



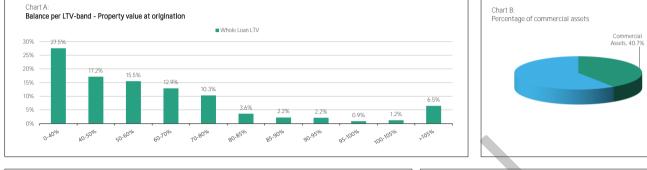
## X. Cover Pool Information - Commercial Assets

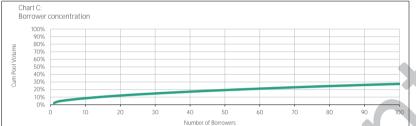
Overview	
Asset type:	Commercia
Asset balance:	10,396,841,779
Average loan balance:	647,173
Number of loans:	16,065
Number of borrowers:	10,120
Largest 10 borrowers:	8.5%
Number of properties:	34,203
Main countries:	Austria (95.5%), Others - EEA (4.5%)

Sherilir	LUali	JITOWEI	Ullala	~ <u>~</u>
Pullot lo	anc			

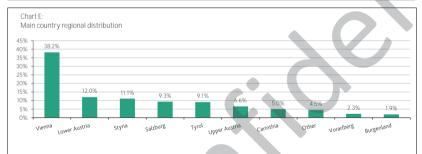
Bullet loans:	22.7%
Main currencies:	EUR (99.1%)
Fixed rate loans:	34.1%
Non-recourse to sponsor/initiator:	0.0%

WA DSCR:	n/d
WA loan seasoning (in months):	47
WA remaining term (in months):	154
Details on LTV	
WA LTV(*):	60.5%
WA Current LTV(**):	60.0%
Valuation type:	Lending Value
LTV Threshold:	0.0%
Performance	
Loans in arrears ≥ 2 months:	0.0%
Loans in a foreclosure procedure:	0.0%









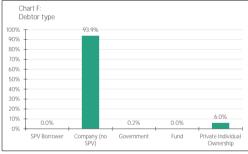
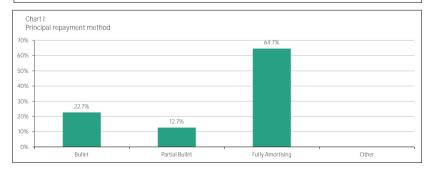
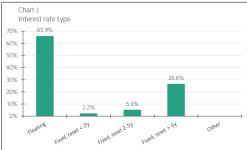




Chart H: Remaining term (in years) 40% 31.6% 30% 24.2% 19.39 20% 10% 7.8% 0.0% 0% -0-5 5-10 10-15 15-25 25-50 >50





(note \*) Based on whole loan and property value at origination. (note  $^{\star\star})$  Based on whole loan and updated property value.

Erste Group Bank AG - Mortgage Covered Bonds

# XI. Cover Pool Information - Supplementary Assets

Dvervlew	
Asset type:	Supplementary Assets
Asset balance:	387,000,000
WA remaining Term (in months):	-
Number of assets:	1
Number of borrowers:	1
Average assets size:	387,000,000
Average exposure to borrowers:	387,000,000

Repo eligible assets:	0.09		
Percentage of fixed rate assets:	0.09		
Percentage of bullet assets:	0.0		
Assets in non-domestic currency:	0.0		
rformance			
Assets in arrears ( ≥ 2months - < 6months):	0.09		
Assets in arrears ( ≥ 6months - < 12months):	0.09		
Assets in arrears ( > 12months):	0.09		
Assets in a enforcement procedure:	0.09		



# XII. Liabilities Information: Last 50 Issuances

ISIN	Serles Number	Currency	Outstanding Amount	Issuance Date	Expected Maturity	Extended Maturity	Interest Rate Type	Coupon	Principal Payment
AT0000A2UXN9	n/d	EUR	750.000.000	12/01/2022	12/01/2037	12/01/2038	Fixed rate	0.500%	Soft Bullet
AT0000A2UXM1	n/d	EUR	750.000.000	12/01/2022	12/07/2028	12/07/2029	Fixed rate	0.010%	Soft Bullet
AT0000A2QBR4	n/d	EUR	2,000,000,000	05/03/2021	05/06/2029	05/06/2030	Floating rate	3M EURIBOR + 0 bps	Soft Bullet
AT0000A2HB37	n/d	EUR	2,000,000,000	12/06/2020	12/06/2028	12/06/2029	Floating rate	3M EURIBOR + 0 bps	Soft Bullet
AT0000A2CDT6	n/d	EUR	750.000.000	15/01/2020	15/01/2030	15/01/2031	Fixed rate	0.100%	Soft Bullet
AT0000A2A6W3	n/d	EUR	500,000,000	11/09/2019	11/09/2029	11/09/2030	Fixed rate	0.010%	Soft Bullet
AT0000A286W1	n/d	EUR	500.000.000	15/05/2019	15/05/2034	15/05/2035	Fixed rate	0.875%	Soft Bullet
AT0000A286M2	n/d	EUR	30,000,000	09/05/2019	09/05/2024	09/05/2025	Floating rate	3M EURIBOR + 8 bps	Soft Bullet
XS1845161790	n/d	EUR	750,000,000	26/06/2018	26/06/2024	26/06/2025	Fixed rate	0.250%	Soft Bullet
QOXDBA032436	n/d	EUR	20.000.000	27/04/2018	27/04/2027	27/04/2027	Fixed rate	0.840%	Hard Bullet
X\$1807495608	n/d	EUR	750,000,000	17/04/2018	17/04/2026	17/04/2027	Fixed rate	0.625%	Soft Bullet
X\$1750974658	n/d	EUR	1.000.000.000	17/01/2018	17/01/2028	17/01/2028	Fixed rate	0.750%	Hard Bullet
X\$1550203183	n/d	EUR	750.000.000	18/01/2017	18/01/2027	18/01/2027	Fixed rate	0.625%	Hard Bullet
QOXDBA032360	n/d	EUR	3,000,000	17/11/2016	17/11/2027	17/11/2027	Fixed rate	0.750%	Hard Bullet
AT0000A1LLC8	n/d	EUR	1.500.000.000	27/06/2016	28/09/2026	28/09/2026	Floating rate	3M EURIBOR + 0 bps	Hard Bullet
AT0000A1JVS7	n/d	EUR	10.000.000	29/01/2016	29/01/2031	29/01/2031	Fixed rate	1.360%	Hard Bullet
X\$1346557637	n/d	EUR	750,000,000	19/01/2016	19/01/2023	19/01/2023	Fixed rate	0.625%	Hard Bullet
QOXDBA032329	n/d	EUR	10.000.000	11/12/2015	11/12/2028	11/12/2028	Fixed rate	1.382%	Hard Bullet
XS1181448561	n/d	EUR	500.000.000	05/02/2015	05/02/2025	05/02/2025	Fixed rate	0.750%	Hard Bullet
AT0000A1AKL4	n/d	EUR	20,000,000	13/11/2014	13/05/2024	13/05/2024	Fixed rate	1.000%	Hard Bullet
QOXDBA028251	n/d	EUR	2,000,000	04/11/2014	04/11/2033	04/11/2033	Fixed rate	2.010%	Hard Bullet
QOXDBA028269	n/d	EUR	5.000.000	04/11/2014	04/11/2033	04/11/2033	Fixed rate	2.010%	Hard Bullet
AT0000A192G4	n/d	EUR	1.000.000	01/08/2014	01/08/2022	01/08/2022	Fixed rate	1.090%	Hard Bullet
AT0000A192J8	n/d	EUR	11,000,000	01/08/2014	01/08/2024	01/08/2024	Fixed rate	1.500%	Hard Bullet
AT0000A191G6	n/d	EUR	21.000.000	28/07/2014	28/07/2024	28/07/2024	Fixed rate	1.430%	Hard Bullet
AT0000A18XH4	n/d	EUR	2,500,000	17/07/2014	30/12/2029	30/12/2029	Fixed rate	2.150%	Hard Bullet
AT0000A17ZX8	n/d	EUR	800,000,000	21/05/2014	21/05/2024	21/05/2024	Floating rate	3M EURIBOR + 0 bps	Hard Bullet
AT0000A17ZV2	n/d	EUR	1,000,000,000	21/05/2014	21/05/2024	21/05/2026	Floating rate	3M EURIBOR + 0 bps	Hard Bullet
AT0000A17ZZ3	n/d	EUR	2,000,000,000	21/05/2014	21/05/2027	21/05/2027	Floating rate	3M EURIBOR + 0 bps	Hard Bullet
AT0000A16TM6	n/d	EUR	12,500,000	25/03/2014	25/03/2024	25/03/2024	Floating rate	3M EURIBOR + 20 bps	Hard Bullet
QOXDBA028194	n/d	EUR	5.000.000	16/01/2014	16/01/2034	16/01/2034	Fixed rate	2.890%	Hard Bullet
QOXDBA028186	n/d	EUR	5.000.000	16/01/2014	16/01/2034	16/01/2034	<ul> <li>Fixed rate</li> </ul>	3.070%	Hard Bullet
QOXDBA028202	n/d	EUR	15.000.000	16/01/2014	16/01/2034	16/01/2034	Fixed rate	2.890%	Hard Bullet
AT000B120340	n/d	EUR	35.000.000	19/12/2013	19/12/2023	19/12/2023	Fixed rate	2.125%	Hard Bullet
QOXDBA028160	n/d	EUR	15.000.000	13/11/2013	15/12/2028	15/12/2028	Fixed rate	3.000%	Hard Bullet
QOXDBA028145	n/d	EUR	10,000,000	12/11/2013	15/12/2023	15/12/2033	Fixed rate	3.010%	Hard Bullet
QOXDBA028012	n/d	EUR	20,000,000	24/10/2013	24/10/2025	24/10/2025	Fixed rate	2.525%	Hard Bullet
QOXDBA028053	n/d	EUR	5.000.000	24/10/2013	24/10/2025	24/10/2025	Fixed rate	2.525%	Hard Bullet
QOXDBA028038	n/d	EUR	5,000,000	24/10/2013	24/10/2025	24/10/2025	Fixed rate	2.525%	Hard Bullet
QOXDBA028061	n/d	EUR	3,000,000	24/10/2013	24/10/2025	24/10/2025	Fixed rate	2.525%	Hard Bullet
QOXDBA028020	n/d	EUR	12,000,000	24/10/2013	24/10/2025	24/10/2025	Fixed rate	2.525%	Hard Bullet
QOXDBA028020	n/d	EUR	5.000.000	24/10/2013	24/10/2025	24/10/2025	Fixed rate	2.525%	Hard Bullet
QOXDBA028040	n/d	EUR	5,000,000	14/10/2013	14/10/2025	14/10/2025	Fixed rate	2.525%	Hard Bullet
QOXDBA027949 QOXDBA027998	n/d	EUR	1,000,000	14/10/2013	14/10/2025	14/10/2025	Fixed rate	2.520%	Hard Bullet
QOXDBA027998 QOXDBA027972	n/d	EUR	1,000,000	14/10/2013	14/10/2025	14/10/2025	Fixed rate	2.520%	Hard Bullet
OOXDBA027972	n/d								
QOXDBA027964 QOXDBA027956	n/d	EUR	1,000,000	14/10/2013	14/10/2025	14/10/2025	Fixed rate	2.520%	Hard Bullet
QOXDBA027936 QOXDBA027931	n/d	EUR	3,000,000	14/10/2013	14/10/2025	14/10/2025	Fixed rate	2.520%	Hard Bullet Hard Bullet
QOXDBA027931 QOXDBA027923	n/d						Fixed rate		
QOXDBA027923 QOXDBA027915	n/d	EUR	15,000,000	14/10/2013	14/10/2025	14/10/2025	Fixed rate	2.520%	Hard Bullet
QUADBAUZ/913	n/u	EUR	32,000,000	14/10/2013	14/10/2025	14/10/2025	Fixed rate	2.520%	Hard Bullet

#### MOODY'S INVESTORS SERVICE

© 2022 Moody's Corporation, Moody's Investors Service, Inc., Moody's Analytics, Inc. and/or their licensors and affiliates (collectively, "MOODY'S"). All rights reserved.

MOODY'S CREDIT RATINGS, ASSESSMENTS, OTHER OPINIONS, AND 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, ASSESSMENTS, OTHER OPINIONS OR 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.

MOODY'S CREDIT RATINGS, ASSESSMENTS, OTHER OPINIONS AND PUBLICATIONS 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 rating process or in preparing its Publications.

To the extent permitted by law, MOODY'S and its directors, officers, employees, agents, representatives, licensors and suppliers disclain 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 rating sopinions and services rendered by it fees ranging from \$1,000 to approximately \$5,000,000. 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 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 338569 (a spplicable). This document is intended to be provided only to "wholesale clienst" within the meaning of section 761G of the Corporations Act 2001. By continuing to access this document form within Australia, you represent to MOODY'S that you are, or are accessing the document as a representative of, a "wholesale client" and than neither you nor the entity you represent will directly disseminate this document to its contents to "retail clients" within the meaning of section 761G of the Corporations Act 2001. By continuing to access this document form within Australia, you represent of the Corporations Act 2001. WOODY'S credit rating is an opinion as to the creditworthiness of a deb tobligation of the sum or on the equity securities of the Issuer or any form of security that is available to retail investors.

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 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 MCO. Moody's SF Japan K.K. ("MSFJ"). Therefore, credit rating agency subsidiary of MCO. Moody's SF Japan K.K. ("MSFJ") is a wholly-owned subsidiary of MCO. Moody's SF Japan K.K. ("MSFJ"). Therefore, credit rating agency subsidiary of MCO. Moody's SF Japan K.K. ("MSFJ"). Therefore, credit rating agency subsidiary of MCO. Moody's SF Japan K.K. ("MSFJ"). No. 2 and 3 respectively. 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.

MIKK 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 MIKK or MSFJ (as applicable) have, prior to assignment of any credit rating, agreed to pay to MIKK or MSFJ (as applicable) for credit ratings opinions and services rendered by it fees ranging from JPY100,000 to approximately.JPY550.000,000.

MJKK and MSFJ also maintain policies and procedures to address Japanese regulatory requirements.

