

DATA REPORT

10 December 2020

CLIENT SERVICES

Americas 1-212-553-1653
Asia Pacific 852-3551-3077
Japan 81-3-5408-4100
EMEA 44-20-7772-5454

ABOUT CAPITAL MARKETS RESEARCH

Analyses from Moody's Capital Markets Research, Inc. (CMR) focus on explaining signals from the credit and equity markets. The publications address whether market signals, in the opinion of the group's analysts, accurately reflect the risks and investment opportunities associated with issuers and sectors. CMR research thus complements the fundamentally-oriented research offered by Moody's Investors Service (MIS), the rating agency.

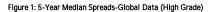
CMR is part of Moody's Analytics, which is one of the two operating businesses of Moody's Corporation. Moody's Analytics (including CMR) is legally and organizationally separated from Moody's Investors Service and operates on an arm's length basis from the ratings business. CMR does not provide investment advisory services or products.

View the CMR FAQ **⊘** Contact us **⊘** Follow us on Twitter **⊘** Cross-Sector

Market Data Highlights

The latest market data from Weekly Market Outlook. Click <u>here</u> for access to the full WMO.

SPREADS



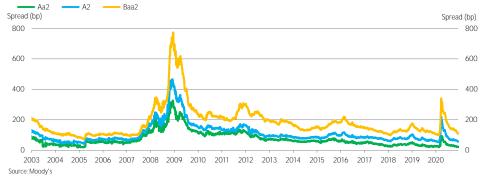
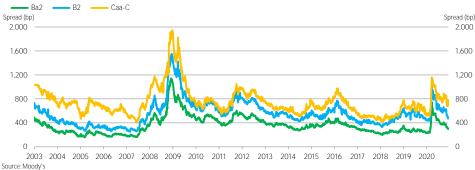


Figure 2: 5-Year Median Spreads-Global Data (High Yield)



Moody's Analytics markets and distributes all Moody's Capital Markets Research, Inc. materials. Moody's Capital Markets Research, Inc. is a subsidiary of Moody's Corporation. Moody's Analytics does not provide investment advisory services or products. For further detail, please see the last page.

CDS MOVERS

Figure 3. CDS Movers - US (December 2, 2020 – December 9, 2020)

CDS Implied Rating Rises	CDS Impli	CDS Implied Ratings		
Issuer	Dec. 9	Dec. 2	Senior Ratings	
Toyota Motor Credit Corporation	Aa1	Aa2	A1	
John Deere Capital Corporation	Aa3	A1	A2	
Exxon Mobil Corporation	A1	A2	Aa1	
Coca-Cola Company (The)	Aa1	Aa2	A1	
Intel Corporation	Aa3	A1	A1	
Chevron Corporation	A1	A2	Aa2	
Burlington Northern Santa Fe, LLC	Aa1	Aa2	A3	
Eli Lilly and Company	Aa1	Aa2	A2	
PNC Financial Services Group, Inc.	A2	A3	A3	
Nissan Motor Acceptance Corporation	B1	B2	Baa3	

CDS Implied Rating Declines	CDS Impli	_	
Issuer	Dec. 9	Dec. 2	Senior Ratings
Tyson Foods, Inc.	A2	Aa2	Baa2
Conagra Brands, Inc.	A3	Aa3	Baa3
Campbell Soup Company	A3	Aa3	Baa2
D.R. Horton, Inc.	A3	Aa3	Baa2
Pepco Holdings, LLC	A2	Aa2	Baa2
CVS Health	Baa2	A3	Baa2
Amgen Inc.	A2	Aa3	Baa1
Cox Communications, Inc.	A1	Aa2	Baa2
Carnival Corporation	Caa3	Caa1	B2
Kroger Co. (The)	Baa1	A2	Baa1

CDS Spread Increases	_		CDS Spreads	
Issuer	Senior Ratings	Dec. 9	Dec. 2	Spread Diff
K. Hovnanian Enterprises, Inc.	Caa3	1,083	976	107
Beazer Homes USA, Inc.	В3	314	279	35
KB Home	Ba3	194	167	28
R.R. Donnelley & Sons Company	В3	722	699	24
Carnival Corporation	B2	531	510	22
Gap, Inc. (The)	Ba3	192	170	22
PulteGroup, Inc.	Baa3	95	74	21
Royal Caribbean Cruises Ltd.	B2	641	621	20
AutoNation, Inc.	Baa3	426	407	19
L Brands, Inc.	B2	222	206	16

CDS Spread Decreases		CDS Spreads			
Issuer	Senior Ratings	Dec. 9	Dec. 2	Spread Diff	
Nabors Industries, Inc.	Caa2	1,882	2,418	-536	
American Airlines Group Inc.	Caa1	1,170	1,484	-314	
Talen Energy Supply, LLC	В3	1,142	1,326	-184	
Rite Aid Corporation	Caa3	629	763	-133	
United States Steel Corporation	Caa2	483	578	-95	
United Airlines, Inc.	Ba3	523	603	-80	
United Airlines Holdings, Inc.	Ba3	511	589	-79	
Murphy Oil Corporation	Ba3	351	412	-61	
Macy's Retail Holdings, LLC	B1	552	611	-59	
Nissan Motor Acceptance Corporation	Baa3	270	323	-53	

Source: Moody's, CMA

Figure 4. CDS Movers - Europe (December 2, 2020 – December 9, 2020)

CDS Implied Rating Rises	CDS Impli	CDS Implied Ratings		
Issuer	Dec. 9	Dec. 2	Senior Ratings	
Portugal, Government of	Aa2	A1	Baa3	
HSBC Holdings plc	A1	A3	A2	
Raiffeisen Bank International AG	A3	Baa2	A3	
United Utilities Water Limited	Aa2	A1	A3	
UPM-Kymmene	Aa2	A1	Baa1	
Spain, Government of	A2	А3	Baa1	
Societe Generale	Aa1	Aa2	A1	
BNP Paribas	Aa1	Aa2	Aa3	
ABN AMRO Bank N.V.	Aaa	Aa1	A1	
ING Groep N.V.	Aa2	Aa3	Baa1	

CDS Implied Rating Declines	CDS Impli	_	
Issuer	Dec. 9	Dec. 2	Senior Ratings
Banca Monte dei Paschi di Siena S.p.A.	Ba3	Ba2	Caa1
Alpha Bank AE	Caa1	В3	Caa1
Casino Guichard-Perrachon SA	Ca	Caa3	Caa1
Piraeus Bank S.A.	Caa3	Caa2	Caa2
Bayer AG	Baa3	Baa2	Baa1
Bank of Scotland plc	Baa3	Baa2	A1
Novo Banco, S.A.	В3	B2	Caa2
Ardagh Packaging Finance plc	Ba3	Ba2	Caa1
Jaguar Land Rover Automotive Plc	Caa3	Caa2	B1
Eksportfinans ASA	Caa1	В3	Baa1

CDS Spread Increases				
Issuer	Senior Ratings	Dec. 9	Dec. 2	Spread Diff
Vedanta Resources Limited	Caa1	1,887	1,628	259
Banca Monte dei Paschi di Siena S.p.A.	Caa1	198	167	31
TUI AG	Caa1	585	556	29
Permanent tsb p.l.c.	Baa2	220	209	10
EWE AG	Baa1	111	105	6
Bayerische Landesbank	Aa3	61	56	5
Bank of Scotland plc	A1	66	61	5
Nationwide Building Society	A1	38	34	4
Electrabel SA	Baa1	79	74	4
Smiths Group plc	Baa2	80	76	4

DS Spread Decreases			CDS Spreads	
Issuer	Senior Ratings	Dec. 9	Dec. 2	Spread Diff
Piraeus Bank S.A.	Caa2	564	614	-49
Stena AB	Caa1	500	543	-43
Casino Guichard-Perrachon SA	Caa1	644	686	-42
CMA CGM S.A.	Caa1	442	480	-38
Novafives S.A.S.	Caa2	693	730	-37
Rolls-Royce plc	Ba3	242	274	-32
Hammerson Plc	Baa3	296	323	-26
Deutsche Lufthansa Aktiengesellschaft	Ba2	239	262	-24
Vue International Bidco plc	Ca	663	684	-21
thyssenkrupp AG	B1	225	244	-19

Source: Moody's, CMA

ISSUANCE

Figure 5. Market Cumulative Issuance - Corporate & Financial Institutions: USD Denominated

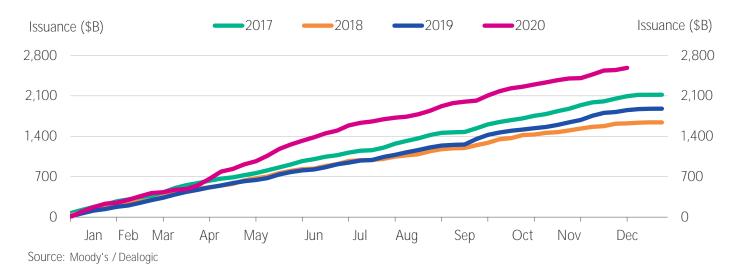


Figure 6. Market Cumulative Issuance - Corporate & Financial Institutions: Euro Denominated

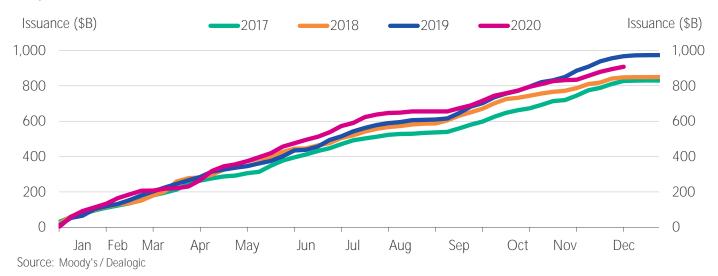


Figure 7. Issuance: Corporate & Financial Institutions

		USD Denominated					
	Investment-Grade	High-Yield	Total*				
	Amount \$B	Amount \$B	Amount \$B				
Weekly	23.566	12.470	38.436				
Year-to-Date	1,969.887	529.994	2,584.859				

		Euro Denominated				
	Investment-Grade	High-Yield	Total*			
	Amount \$B	Amount \$B	Amount \$B			
Weekly	6.716	4.022	13.212			
Year-to-Date	750.722	118.234	908.152			

^{*} Difference represents issuance with pending ratings.

Source: Moody's/ Dealogic

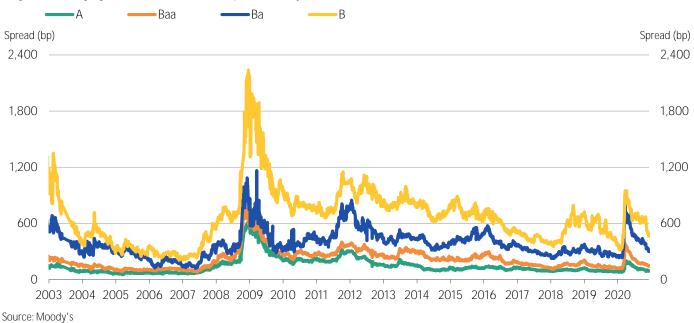
EMERGING MARKET CREDIT SPREADS

Figure 8. Emerging Market Median OAS

Emerging Market		Median	Spreads			Bond (Counts	
Duration	Α	Baa	Ba	В	Α	Baa	Ba	В
>=1 and <3	68	113	299	459	75	119	54	38
>=3 and <5	93	141	298	468	48	100	35	37
>=5 and <7	110	171	320	539	40	83	25	21
>=7	137	248	451	622	78	144	34	32
Emerging Market Sovereign		Median	Spreads			Bond (Counts	
Duration	Α	Baa	Ba	В	Α	Baa	Ba	В
>=1 and <3	38	83	125	381	22	31	16	17
>=3 and <5	43	96	238	464	13	34	16	24
>=5 and <7	85	127	307	536	11	33	19	20
>=7	53	218	446	610	44	74	29	31
Emerging Market Corporate		Median	Spreads			Bond (Counts	
Duration	Α	Baa	Ba	В	Α	Baa	Ba	В
>=1 and <3	90	134	328	542	53	88	38	21
>=3 and <5	101	166	356	479	35	66	19	13
>=5 and <7	121	189	450	831	29	50	6	1
>=7	169	291	657	857	34	70	5	1

Source: Moody's

Figure 9: Emerging Markets Median Credit Spreads (3-5 year duration)



MEDIAN CREDIT SPREADS

Figure 10. Global Financial Institutions Median Credit Spreads

			N	ledian Spread	ds		
Duration	Aaa	Aa	Α	Baa	Ba	В	Caa
>=1 and <3	9	29	42	83	244	542	525
>=3 and <5	11	33	57	101	273	485	257
>=5 and <7	24	31	78	137	312	-	743
>=7	39	61	112	186	184	-	390
				Debt Counts			
Duration	Aaa	Aa	Α	Baa	Ba	В	Caa
>=1 and <3	190	265	378	271	65	17	6
>=3 and <5	120	124	276	243	49	6	1
>=5 and <7	79	94	183	143	14	-	1
>=7	80	185	395	196	6	-	4
				Issuer Counts	S		
Duration	Aaa	Aa	Α	Baa	Ba	В	Caa
>=1 and <3	27	80	158	156	38	15	6
>=3 and <5	24	57	125	148	29	6	1
>=5 and <7	21	45	86	92	12	-	1
>=7	29	71	134	101	4	-	1

Source: Moody's

Figure 11. Global Corporate Median Credit Spreads

			N	dedian Spread	ds		
Duration	Aaa	Aa	Α	Baa	Ba	В	Caa
>=1 and <3	29	33	35	57	251	392	614
>=3 and <5	33	40	49	70	260	420	603
>=5 and <7	48	62	70	102	263	462	918
>=7	91	122	135	184	363	504	896
				Debt Counts	;		
Duration	Aaa	Aa	Α	Baa	Ba	В	Caa
>=1 and <3	19	105	465	788	260	152	35
>=3 and <5	10	89	374	764	220	76	26
>=5 and <7	7	66	339	671	107	37	5
>=7	20	224	1001	1331	152	18	5
				Issuer Counts	S		
Duration	Aaa	Aa	Α	Baa	Ba	В	Caa
>=1 and <3	5	49	255	472	182	119	29
>=3 and <5	4	46	215	478	149	71	23
>=5 and <7	4	37	214	417	76	32	4
>=7	6	44	303	457	67	9	4
irce: Moody's							

Source: Moody's

MEDIAN 5-YEAR CDS SPREADS

Figure 12. Global Median CDS Spreads By Rating Category

Global Median Spreads by Fine Rating Category

Aaa	Aa1	Aa2	Aa3	A 1	A2	A3	Baa1	Baa2	
19	27	38	40	41	43	47	50	55	
	Baa3	Ba1	Ba2	Ba3	B1	B2	B3	Caa	
	79	113	162	200	246	304	355	570	

Global Median Spreads by Broad Rating Category

Aaa	Aa	Α	Baa	Ba	В	Caa
24	38	43	55	162	304	483

Global Issuer Counts by Broad Rating Category

Aaa	Aa	Α	Baa	Ba	В	Caa
9	52	172	344	101	48	32

Source: Moody's, CMA

Figure 13. Median CDS Spreads By Region

Median CDS Spreads

Region	Aaa	Aa	Α	Baa	Ba	В	Caa
North America	24	38	40	68	168	277	369
Europe	10	27	38	57	127	212	471
Asia Pacific (ex.Japan)	13	21	34	61	154	415	-
Japan	-	31	24	31	52	68	-

Issuer Counts

Region	Aaa	Aa	Α	Baa	Ba	В	Caa
North America	3	19	85	211	61	36	14
Europe	6	33	82	121	29	9	16
Asia Pacific (ex.Japan)	3	18	31	35	5	2	-
Japan	-	1	34	13	3	2	-

Source: Moody's, CMA

Figure 14. Global Median CDS Spreads by Sector

Median CDS Spreads

Sector	Aaa	Aa	Α	Baa	Ba	В	Caa
Corporates	25	32	35	61	162	237	491
Financials	11	27	37	67	154	552	390
Sovereigns	11	16	37	62	134	545	1,088
Banks	-	28	38	69	172	-	366

Issuer Counts

Sector	Aaa	Aa	Α	Baa	Ba	В	Caa
Corporates	3	24	149	318	88	48	26
Financials	9	47	88	74	21	4	6
Banks	-	35	53	28	10	-	5
Sovereigns	9	7	7	12	4	3	1

Source: Moody's, CMA

Figure 15. Global Financial Institutions Median CDS Spreads by Region

Median CDS Spreads

Region	Aaa	Aa	Α	Baa	Ba	В	Caa
North America	15	43	43	76	203	560	-
Europe	10	27	44	69	121	-	366
Asia Pacific (ex.Japan)	13	21	33	62	93	445	-
Japan	-	-	27	40	-	-	-

Issuer Counts

Region	Aaa	Aa	Α	Baa	Ba	В	Caa
North America	1	8	22	24	8	1	-
Europe	6	26	40	28	5	-	5
Asia Pacific (ex.Japan)	2	13	13	14	3	1	-
Japan	-	-	11	2	-	-	-

Source: Moody's, CMA

Figure 16. Global Corporates Median CDS Spreads by Region

Median CDS Spreads

Region	Aaa	Aa	Α	Baa	Ba	В	Caa
North America	24	35	39	68	167	277	369
Europe	-	33	36	52	127	212	503
Asia Pacific (ex.Japan)	30	28	36	61	159	386	-
Japan	-	31	24	27	52	68	-

Issuer Counts

Region	Aaa	Aa	Α	Baa	Ba	В	Caa
North America	2	11	63	187	53	35	14
Europe	-	7	42	93	24	9	11
Asia Pacific (ex.Japan)	1	5	18	21	2	1	-
Japan	-	1	23	11	3	2	-

Source: Moody's, CMA

© 2020 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 INVESTORS SERVICE, INC. AND/OR ITS CREDIT RATINGS AFFILIATES ARE MOODY'S 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 BY MOODY'S (COLLECTIVELY, "PUBLICATIONS") MAY INCLUDE SUCH CURRENT OPINIONS. MOODY'S INVESTORS SERVICE 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 MOODY'S RATING SYMBOLS AND DEFINITIONS PUBLICATION FOR INFORMATION ON THE TYPES OF CONTRACTUAL FINANCIAL OBLIGATIONS ADDRESSED BY MOODY'S INVESTORS SERVICE 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 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. AND/OR ITS AFFILIATES. MOODY'S CREDIT RATINGS, ASSESSMENTS, OTHER OPINIONS AND PUBLICATIONS DO NOT CONSTITUTE OR PROVIDE INVESTMENT OR FINANCIAL ADVICE, AND MOODY'S CREDIT RATINGS, ASSESSMENTS, OTHER OPINIONS AND PUBLICATIONS ARE NOT AND DO NOT PROVIDE RECOMMENDATIONS TO PURCHASE, SELL, OR HOLD PARTICULAR SECURITIES. MOODY'S CREDIT RATINGS, ASSESSMENTS, OTHER OPINIONS AND PUBLICATIONS AND 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, 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 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 fees ranging from \$1,000 to approximately \$2,700,000. 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 processors. 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 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 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 credit rating, agreed to pay to MJKK or MSFJ (as applicable) for credit ratings opinions and services rendered by it fees ranging from JPY125,000 to approximately JPY250,000,000.

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

For Publications Issued by Moody's Capital Markets Research, Inc. only:

The statements contained in this research report are based solely upon the opinions of Moody's Capital Markets Research, Inc. and the data and information available to the authors at the time of publication of this report. There is no assurance that any predicted results will actually occur. Past performance is no guarantee of future results.

The analysis in this report has not been made available to any issuer prior to publication.

When making an investment decision, investors should use additional sources of information and consult with their investment advisor. Investing in securities involves certain risks including possible fluctuations in investment return and loss of principal. Investing in bonds presents additional risks, including changes in interest rates and credit risk.

Moody's Capital Markets Research, Inc., is a subsidiary of MCO. Please note that Moody's Analytics, Inc., an affiliate of Moody's Capital Markets Research, Inc. and a subsidiary of MCO, provides a wide range of research and analytical products and services to corporations and participants in the financial markets. Customers of Moody's Analytics, Inc. may include companies mentioned in this report. Please be advised that a conflict may exist and that any investment decisions you make are your own responsibility. The Moody's Analytics logo is used on certain Moody's Capital Markets Research, Inc. products for marketing purposes only. Moody's Analytics, Inc. is a separate company from Moody's Capital Markets Research, Inc.

REPORT NUMBER

1256835

CLIENT SERVICES

 Americas
 1-212-553-1653

 Asia Pacific
 852-3551-3077

 Japan
 81-3-5408-4100

 EMEA
 44-20-7772-5454

