

DATA REPORT

22 April 2021

CLIENT SERVICES

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

Cross-Sector

Market Data Highlights

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

SPREADS

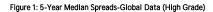
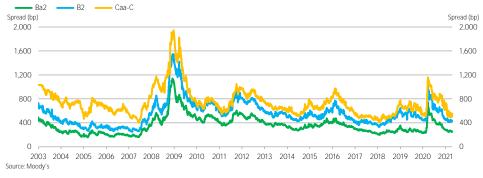




Figure 2: 5-Year Median Spreads-Global Data (High Yield)



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 (April 14, 2021 – April 21, 2021)

CDS Implied Rating Rises	CDS Impli	CDS Implied Ratings		
Issuer	Apr. 21	Apr. 14	Senior Ratings	
PPG Industries, Inc.	A3	Baa2	A3	
Raytheon Technologies Corporation	A2	A3	Baa1	
Philip Morris International Inc.	A1	A2	A2	
Bank of New York Mellon Corporation (The)	A1	A2	A1	
PNC Financial Services Group, Inc.	A2	A3	A3	
Dish DBS Corporation	Caa1	Caa2	B2	
ERP Operating Limited Partnership	A2	А3	А3	
WEC Energy Group, Inc.	A3	Baa1	Baa1	
Liberty Interactive LLC	В3	Caa1	B2	
iStar Inc.	B1	B2	Ba3	

CDS Implied Rating Declines	CDS Impli	CDS Implied Ratings		
Issuer	Apr. 21	Apr. 14	Senior Ratings	
Altria Group Inc.	Baa2	A3	А3	
JPMorgan Chase & Co.	A3	A2	A2	
Bank of America Corporation	A3	A2	A2	
Ally Financial Inc.	Ba1	Baa3	Ba1	
Apple Inc.	A1	Aa3	Aa1	
Comcast Corporation	A3	A2	А3	
Oracle Corporation	A2	A1	Baa2	
American Express Credit Corporation	A3	A2	A2	
CVS Health Corporation	Baa1	A3	Baa2	
Amazon.com, Inc.	A2	A1	A2	

CDS Spread Increases	_		CDS Spreads	
Issuer	Senior Ratings	Apr. 21	Apr. 14	Spread Diff
Carnival Corporation	B2	348	315	33
Royal Caribbean Cruises Ltd.	B2	382	352	30
Encompass Health Corp.	B1	178	161	17
Univision Communications Inc.	Caa2	320	304	16
Murphy Oil Corporation	Ba3	428	412	16
American Airlines Group Inc.	Caa1	787	771	16
Altria Group Inc.	A3	59	45	14
Walgreen Co.	Baa2	65	51	14
Pactiv Corporation	Caa1	411	396	14
Nordstrom, Inc.	Baa3	253	240	13

CDS Spread Decreases	_		CDS Spreads	
Issuer	Senior Ratings	Apr. 21	Apr. 14	Spread Diff
R.R. Donnelley & Sons Company	В3	463	511	-48
Staples, Inc.	В3	692	734	-41
Dish DBS Corporation	B2	367	393	-26
iStar Inc.	Ba3	277	304	-26
Dell Inc.	Ba2	86	108	-22
Talen Energy Supply, LLC	В3	1,127	1,147	-20
Levi Strauss & Co.	Ba2	123	142	-19
Marathon Oil Corporation	Baa3	157	169	-12
Cameron International Corporation	Baa1	85	97	-12
United Airlines, Inc.	Ba3	416	427	-11

Source: Moody's, CMA

22 April 2021 Cross-Sector: Market Data Highlights

Figure 4. CDS Movers - Europe (April 14, 2021 – April 21, 2021)

CDS Implied Rating Rises	CDS Impli	CDS Implied Ratings			
Issuer	Apr. 21	Apr. 14	Senior Ratings		
Rabobank	Aa2	Aa3	Aa3		
Barclays PLC	Baa1	Baa2	Baa2		
Portugal, Government of	Aa3	A1	Baa3		
Commerzbank AG	A3	Baa1	A1		
NatWest Group plc	Baa1	Baa2	Baa2		
NatWest Markets Plc	A3	Baa1	A3		
FCE Bank plc	Ba2	Ba3	Ba2		
Credit Suisse AG	Baa1	Baa2	Aa3		
BAWAG P.S.K. AG	Baa2	Baa3	A2		
Bertelsmann SE & Co. KGaA	Aa3	A1	Baa2		

CDS Implied Rating Declines	CDS Impli	CDS Implied Ratings			
Issuer	Apr. 21	Apr. 14	Senior Ratings		
Schaeffler Finance B.V.	Baa1	A2	Ba2		
Banca Monte dei Paschi di Siena S.p.A.	Ba3	Ba2	Caa1		
Merck KGaA	Aa2	Aa1	Baa1		
United Utilities PLC	A2	A1	Baa1		
Henkel AG & Co. KGaA	Aa2	Aa1	A2		
Caixa Geral de Depositos, S.A.	Ba1	Baa3	Ba1		
thyssenkrupp AG	B1	Ba3	B1		
Italy, Government of	Baa3	Baa3	Baa3		
France, Government of	Aa2	Aa2	Aa2		
United Kingdom, Government of	Aaa	Aaa	Aa3		

CDS Spread Increases		CDS Spreads			
Issuer	Senior Ratings	Apr. 21	Apr. 14	Spread Diff	
Novafives S.A.S.	Caa2	769	743	26	
Iceland Bondco plc	Caa2	420	397	23	
thyssenkrupp AG	B1	243	227	17	
Deutsche Lufthansa Aktiengesellschaft	Ba2	284	270	14	
Piraeus Financial Holdings S.A.	Caa3	521	506	14	
Casino Guichard-Perrachon SA	Caa1	524	511	13	
Rolls-Royce plc	Ba3	269	259	10	
Schaeffler Finance B.V.	Ba2	53	43	9	
CMA CGM S.A.	В3	403	395	8	
Ziggo Bond Company B.V.	В3	236	228	8	

CDS Spread Decreases	CDS Spreads			
Issuer	Senior Ratings	Apr. 21	Apr. 14	Spread Diff
FCE Bank plc	Ba2	152	194	-43
Stena AB	Caa1	557	569	-12
GKN Holdings Limited	Ba1	137	147	-10
Hammerson Plc	Baa3	233	240	-8
Stagecoach Group Plc	Baa3	77	85	-8
Unibail-Rodamco-Westfield SE	Baa2	110	117	-7
BAWAG P.S.K. AG	A2	63	70	-6
Smiths Group plc	Baa2	71	77	-6
Schneider Electric SE	A3	26	31	-5
VERBUND AG	A3	33	38	-5

Source: Moody's, CMA

22 April 2021 Cross-Sector: Market Data Highlights

ISSUANCE

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

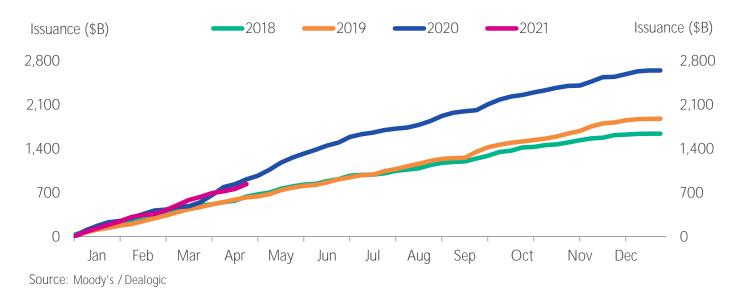
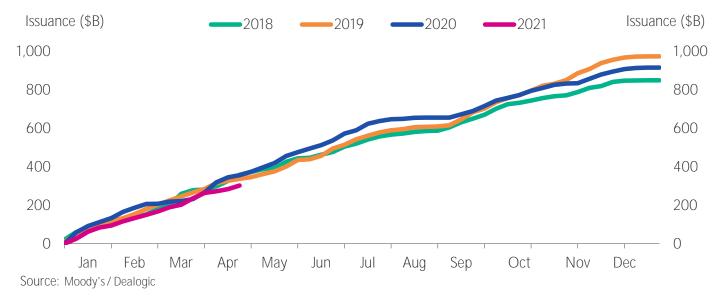


Figure 6. Market Cumulative Issuance - Corporate & Financial Institutions: Euro Denominated



4 22 April 2021 Cross-Sector: Market Data Highlights

Figure 7. Issuance: Corporate & Financial Institutions

		USD Denominated				
	Investment-Grade	High-Yield	Total*			
	Amount \$B	Amount \$B	Amount \$B			
Weekly	57.100	18.440	77.370			
Year-to-Date	574.652	241.945	836.371			

	Euro Denominated				
	Investment-Grade	High-Yield	Total*		
	Amount \$B	Amount \$B	Amount \$B		
Weekly	10.789	7.414	18.364		
Year-to-Date	239.495	52.728	302.090		

^{*} Difference represents issuance with pending ratings.

Source: Moody's/ Dealogic

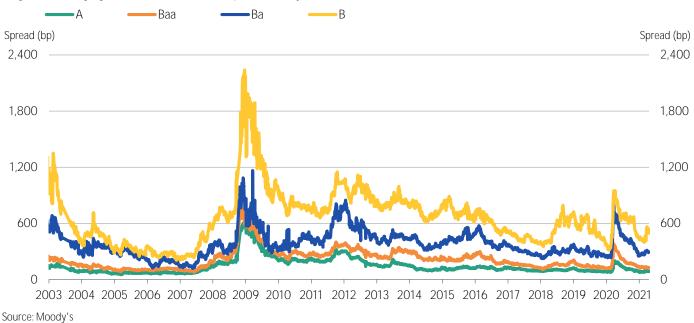
EMERGING MARKET CREDIT SPREADS

Figure 8. Emerging Market Median OAS

Emerging Market		Median	Spreads			Bond (Counts	
Duration	Α	Baa	Ba	В	Α	Baa	Ba	В
>=1 and <3	62	110	270	437	66	133	53	45
>=3 and <5	86	126	292	500	72	118	59	52
>=5 and <7	96	161	315	537	46	93	27	21
>=7	118	209	368	563	125	218	57	40
Emerging Market Sovereign		Median	Spreads			Bond (Counts	
Duration	Α	Baa	Ba	В	Α	Baa	Ba	В
>=1 and <3	38	61	83	429	15	32	15	19
>=3 and <5	44	91	205	486	18	35	24	30
>=5 and <7	76	122	265	539	18	33	19	20
>=7	71	191	336	563	82	115	46	39
Emerging Market Corporate		Median	Spreads			Bond (Counts	
Duration	Α	Baa	Ba	В	Α	Baa	Ba	В
>=1 and <3	67	122	297	477	51	101	38	26
>=3 and <5	91	156	347	566	54	83	35	22
>=5 and <7	115	195	373	277	28	60	8	1
>=7	143	227	543	636	43	103	11	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	<mark>1edian Sprea</mark> d	ds		
Duration	Aaa	Aa	Α	Baa	Ba	В	Caa
>=1 and <3	10	25	41	72	206	450	567
>=3 and <5	8	32	55	104	259	566	502
>=5 and <7	21	29	67	137	291	344	-
>=7	26	39	80	160	232	397	393
				Debt Counts			
Duration	Aaa	Aa	Α	Baa	Ba	В	Caa
>=1 and <3	191	277	446	284	71	24	5
>=3 and <5	201	209	368	290	66	18	2
>=5 and <7	107	137	213	146	19	3	-
>=7	128	315	558	265	16	1	2
				Issuer Counts	8		
Duration	Aaa	Aa	Α	Baa	Ba	В	Caa
>=1 and <3	26	85	175	159	45	23	5
>=3 and <5	30	80	152	157	42	17	2
>=5 and <7	27	62	98	90	15	3	-
>=7	31	88	153	115	12	1	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	10	30	38	57	264	415	566
>=3 and <5	20	37	50	75	281	410	548
>=5 and <7	28	53	67	101	286	356	541
>=7	43	97	113	151	298	420	569
				Debt Counts			
Duration	Aaa	Aa	Α	Baa	Ba	В	Caa
>=1 and <3	35	122	517	868	310	225	50
>=3 and <5	36	126	511	1010	301	216	73
>=5 and <7	24	87	402	839	189	107	24
>=7	44	299	1478	2070	224	46	6
				Issuer Counts	8		
Duration	Aaa	Aa	Α	Baa	Ba	В	Caa
>=1 and <3	10	53	261	502	222	182	44
>=3 and <5	9	52	273	577	195	174	63
>=5 and <7	10	39	225	498	134	93	23
>=7	7	55	352	611	104	28	5
ource: 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

-	Aa1 17				_
		Ba2			_

Global Median Spreads by Broad Rating Category

Aaa	Aa	Α	Baa	Ba	В	Caa
19	38	41	58	167	332	399

Global Issuer Counts by Broad Rating Category

Aaa	Aa	Α	Baa	Ba	В	Caa
9	53	168	345	100	44	31

Source: Moody's, CMA

Figure 13. Median CDS Spreads By Region

Median CDS Spreads

Region	Aaa	Aa	Α	Baa	Ba	В	Caa
North America	19	36	41	65	165	293	408
Europe	9	29	40	57	141	238	522
Asia Pacific (ex.Japan)	17	23	41	68	146	341	-
Japan	-	-	23	28	52	72	-

Issuer Counts

Region	Aaa	Aa	Α	Baa	Ba	В	Caa
North America	3	20	84	209	61	31	15
Europe	6	33	80	124	28	10	14
Asia Pacific (ex.Japan)	3	18	31	35	5	2	-
Japan	-	-	32	15	3	1	-

Source: Moody's, CMA

Figure 14. Global Median CDS Spreads by Sector

Median CDS Spreads

Sector	Aaa	Aa	Α	Baa	Ba	В	Caa
Corporates	22	31	37	61	159	275	557
Financials	10	29	41	61	155	370	296
Sovereigns	10	11	40	52	100	370	-
Banks	-	30	41	65	203	-	213

Issuer Counts

Sector	Aaa	Aa	Α	Baa	Ba	В	Caa
Corporates	4	24	147	329	89	46	25
Financials	8	47	84	66	19	1	6
Banks	-	35	53	28	10	-	5
Sovereigns	8	6	4	6	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	10	43	44	66	191	-	528
Europe	9	29	42	61	129	-	213
Asia Pacific (ex.Japan)	16	22	41	67	100	370	-
Japan	-	-	26	45	-	-	-

Issuer Counts

Region	Aaa	Aa	Α	Baa	Ba	В	Caa
North America	1	8	22	24	7	-	1
Europe	5	26	38	26	6	-	5
Asia Pacific (ex.Japan)	2	13	13	12	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	22	34	38	65	162	293	402
Europe	9	24	36	53	141	238	615
Asia Pacific (ex.Japan)	31	26	41	68	155	313	-
Japan	-	-	22	28	52	72	-

Issuer Counts

Region	Aaa	Aa	Α	Baa	Ba	В	Caa
North America	2	12	62	185	54	31	14
Europe	1	7	42	98	22	10	9
Asia Pacific (ex.Japan)	1	5	18	23	2	1	-
Japan	-	-	21	13	3	1	-

Source: Moody's, CMA

© 2021 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 BY MOODY'S (COLLECTIVELY, "PUBLICATIONS") 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 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 AND OTHER OPINIONS 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 \$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 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 JPY550,000,000.

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

REPORT NUMBER 1279912

10 22 April 2021 Cross-Sector: Market Data Highlights

CLIENT SERVICES

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



22 April 2021 Cross-Sector: Market Data Highlights