

CREDIT OPINION

18 November 2025

Update



Send Your Feedback

RATINGS

Public Sector Pension Investment Board

Domicile	Canada
Long Term CRR	Not Assigned
Long Term Issuer Rating	Aaa
Type	LT Issuer Rating - Dom Curr
Outlook	Stable

Please see the [ratings section](#) at the end of this report for more information. The ratings and outlook shown reflect information as of the publication date.

Contacts

Robert Colangelo +1.416.214.3847
VP-Sr Credit Officer
robert.colangelo@moody's.com

Sam Lilly +1 212.553.4983
Ratings Associate
sam.lilly@moody's.com

Robert M. Callagy +1.212.553.4374
AMD - Financial Institutions
robert.callagy@moody's.com

Antonello Aquino +44.20.7772.1582
MD-Financial Institutions
antonello.aquino@moody's.com

CLIENT SERVICES

Americas 1-212-553-1653

Asia Pacific 852-3551-3077

Japan 81-3-5408-4100

EMEA 44-20-7772-5454

Public Sector Pension Investment Board

Update to credit analysis following ratings affirmation

Summary

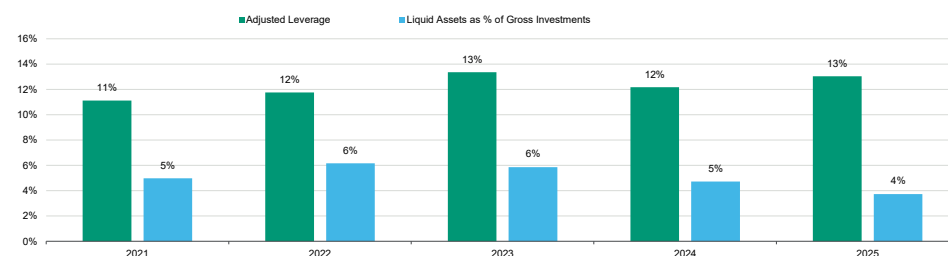
[Public Sector Pension Investment Board's](#) (PSPIB) aa2 Baseline Credit Assessment (BCA) reflects its strong liquidity and predictability of future cash flows as well as its conservative financial policies and low leverage. These credit strengths are offset by PSPIB's high proportion of high-risk assets (as defined under our methodology), reflecting the pension asset manager's higher investment allocation in less liquid Level 3 assets such as real estate, infrastructure and private equity.

PSPIB's Aaa long-term issuer rating reflects its aa2 BCA as well as our high assumption of extraordinary support from the [Government of Canada](#) (Aaa stable). In addition, the rating benefits from uplift from asset coverage considerations because of our expectation that, in the event of a default, PSPIB's creditors will have an effective priority of claim over pension obligations which provides a substantial cushion of assets and increases expected recoveries.

[PSP Capital Inc.](#), a wholly-owned subsidiary of PSPIB, has a backed senior unsecured rating of Aaa and a backed commercial paper rating of Prime-1, reflecting the unconditional and irrevocable guarantee of its debt obligations by PSPIB. While PSP Capital Inc. adds a moderate degree of leverage through the issuance of commercial paper and term debt guaranteed by PSPIB, it diversifies PSPIB's funding sources with a goal of enhancing overall returns of the fund.

Exhibit 1

Low leverage with elevated liquidity levels providing good coverage, thereby reducing refinancing risk



Fiscal year ended 31 March. Liquid assets represents cash and money market securities and securities purchased under reverse repurchase agreements.

Source: Moody's Ratings, company financials

Credit strengths

- » Governing legislation that mandates PSPIB as exclusive investment manager for certain Canadian government-sponsored pension plans without responsibility for the underlying pension obligations;

- » PSPIB's creditors have an effective priority claim over pension obligations, benefitting from very strong asset coverage;
- » Highly predictable cash flows, strong coverage of obligations by high quality liquid assets, and sound financial policies.

Credit challenges

- » Higher allocation of private investments, which weakens portfolio liquidity, although these investments are well-suited to PSPIB's long-term investment horizon;
- » High proportion of high-risk assets (as defined under our methodology) compared to other Moody's rated peers;
- » Maintaining effective risk management as PSPIB continues to grow.

Outlook

The stable outlook reflects our expectation that PSPIB's credit fundamentals, specifically its strong and stable liquidity and level of high-risk assets, will remain unchanged over the next 12 to 18 months. It also reflects the stable outlook of its government support provider, the Government of Canada.

The stable outlook on PSP Capital Inc.'s ratings reflect the outlook of its parent, PSPIB.

Factors that could lead to an upgrade

- » Given PSPIB's Aaa long-term issuer rating, an upgrade is not possible.
- » An upgrade of its aa2 BCA could be driven by a sustained decrease in PSPIB's high risk assets.

Factors that could lead to a downgrade

- » PSPIB's BCA could be downgraded if there was a material reduction in PSPIB's liquid assets or if leverage was to increase above 25% for a sustained period.
- » The ratings could also be downgraded if there was a change in PSPIB's governing legislation or a legal precedent that casts doubt on the status of PSPIB's obligations as having priority of claim over pension obligations.
- » However, a downgrade of the BCA would not likely lead to a downgrade of PSPIB's long-term issuer rating because of our expectation of extraordinary support from the Government of Canada as well as asset coverage considerations.
- » PSP Capital Inc.'s supported ratings could be downgraded if PSPIB's rating was downgraded or if we believe that PSPIB would not honour its unconditional and irrevocable guarantee of PSP Capital Inc.'s debt obligations.

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

Key indicators table

Exhibit 2

Statistics for Public Sector Pension Investment Board	2025	2024	2023	2022	2021	2020
Total Assets (C\$ millions)	345,696	302,868	283,595	264,044	232,793	207,603
Net Assets (C\$ millions)	299,368	264,551	243,315	230,273	204,299	169,682
Government Fixed Income % Net Investments	24%	24%	21%	20%	21%	19%
Public Equities % Net Investments	27%	21%	22%	26%	29%	29%
Private & Real Assets % Net Investments	49%	55%	57%	54%	50%	52%
Liabilities C\$ millions	46,328	38,317	40,280	33,771	28,494	37,921
Liabilities % Gross Assets	13%	13%	14%	13%	12%	18%
Unsecured Debt (C\$ millions)	34,644	27,175	24,158	22,791	16,802	15,902
Unsecured Debt % Gross Assets	10%	9%	9%	9%	7%	8%
Secured Funding (C\$ millions)	8,675	10,102	14,520	9,484	9,730	20,563
Secured Funding % Gross Assets	3%	3%	5%	4%	4%	10%
Other Liabilities % Gross Assets	0%	0%	1%	1%	1%	1%
Derivative Notionals (C\$ millions)	423,145	384,122	469,509	372,714	355,320	357,047
Annual Reported Return (%)	12.6%	7.2%	4.4%	10.9%	18.4%	-0.6%
Benchmark Return (%)	17.4%	6.4%	-2.8%	9.4%	16.5%	-1.6%

As at fiscal year end March 31.

Source: Moody's Ratings

Profile

PSPIB was established by the Public Sector Pension Investment Board Act (PSPIB Act) in 1999 to invest the pension contributions (net of benefit payments) of Canada's national public service (representing 73% of net assets as of 31 March 2025), its military, the Canadian Forces and Reserve Force (representing 20% of net assets), and the national police service, the Royal Canadian Mounted Police (representing 7% of net assets). The funds for which amounts are currently transferred to PSPIB by the Government of Canada relate to pension obligations under the Plans for service on or after 1 April 2000, and in the case of the Reserve Force Plan, for service on or after March 1, 2007. As such, PSPIB is responsible for managing assets only related to those pension obligations.

Detailed credit considerations

Funded Status - PSPIB operates as a reserve fund with no direct responsibility for pension liability

As a pension reserve fund, PSPIB is not responsible for the administration of benefits, nor in setting actuarial assumptions of the underlying obligations, both of which are the responsibility of the sponsoring government. In contrast to a pension fund, the sponsor is the beneficiary of the net assets. As such, for analytical purposes, we consider PSPIB to be fully funded and therefore assign a Funding Ratio score of aaa.

Liquidity - Benefits of liquid fixed income portfolio mitigated by asset encumbrance from funding activities

PSPIB has strong coverage of obligations by high quality liquid assets. At 31 March 2025, the ratio of discounted liquid asset inflows to recognized obligation outflows was 471%, which is supported by high levels of sovereign debt securities and publicly traded equity. This level is up from 359% last year. Overall, PSPIB's liquidity position remains strong while its asset encumbrance from short-sold securities is modest relative to many of its Canadian pension fund peers.

As the Plan's actuarial profile matures, net contributions (transfers from the government) to PSPIB will gradually represent a decreasing proportion of PSPIB's net assets. As of 31 March 2025, PSPIB's net assets increased by 0.5% year over year, before investment returns. Including investment returns, net assets for fiscal 2025 grew 13.2% year over year, reflecting a net annual return of 12.6%. PSPIB is also not subject to plan redemptions or loss of mandate, except in the unlikely event of a change in legislation. These characteristics allow PSPIB to adopt a long-term investment horizon. As such, we make no adjustments to PSPIB's initial Liquidity score, resulting in an assigned Liquidity score of aaa.

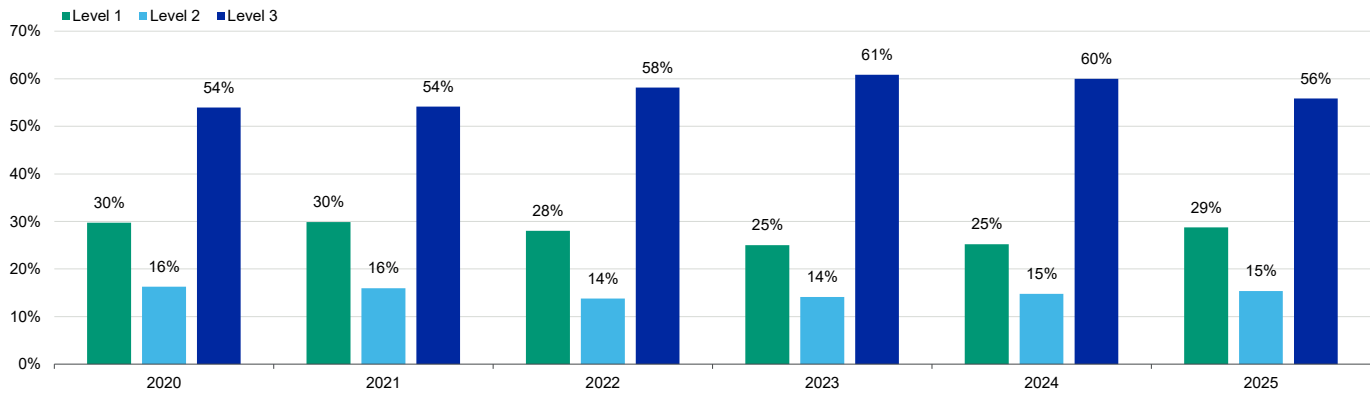
Asset Risk - High levels of less liquid assets, although broadly diversified by geography and sector

PSPIB's ratio of high risk asset (defined as all investments other than investment grade fixed income assets) to gross assets was 78.8% as of 31 March 2025, which is broadly in line with its peers. PSPIB's high risk asset ratio reflects the pension asset manager investing a

larger percentage of fund assets in less liquid Level 3 assets such as real estate, infrastructure and private equity. PSPIB's investment in Level 3 assets declined to represent 56% as of 31 March 2025 (Exhibit 3), which is comparatively higher relative to its peers. We view PSPIB as well positioned to execute this type of investment strategy given its long-term investment horizon, and liquidity profile, which reflects the expected positive net transfers over the next five years. PSPIB's investment risks are well managed, although this capability will need to continue to keep pace with asset growth and rising complexity of its investment strategy.

Exhibit 3

Less liquid Level 3 assets have remained stable over recent years, aligning with PSPIB's long-term investment horizon
Fair value hierarchy as a % of gross assets



Fiscal year end 31 March. For periods prior to 2025, Level 1 and Level 2 assets have been adjusted for cash and money market securities, as Fixed income included Cash and Cash Equivalents.

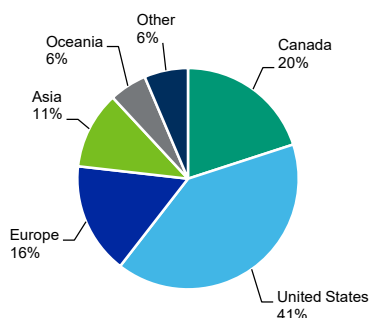
Source: Moody's Ratings, company financials

As of 31 March 2025, PSPIB's investment portfolio was comprised of 24% fixed income, 27% public equity, and 49% private equity and real investments, which is in line with its long-term target weight. PSPIB's investment portfolio has shifted in recent years, similar to its peers, toward less liquid Level 3 assets such as real estate, infrastructure and private equity. While these asset classes align to the pension manager's mandate to invest over a longer time horizon and offer attractive returns from a liquidity premium, they also add incremental liquidity and operational risks to the fund. That said, PSPIB's investment portfolio is diversified globally (Exhibit 4) and across many asset classes (Exhibit 5). In our view, the benefits of this diversification strategy mitigates the higher liquidity and operational risks associated with its reliance on Level 3 assets. This diversification also reduces common credit risks related to the Canadian economy, providing diversification away from the geographic location of its underlying pension obligation and related contribution cash inflows.

The pension manager generated another strong return during its fiscal year ending 31 March 2025, with a one-year overall portfolio return of 12.6%, which compares with a return of 7.2% in fiscal 2024. This strong performance reflects positive contributions across almost all asset classes, while the one-year return on real estate was flat. The largest contributors were public market equities (+15.1%), infrastructure (+17.8%) and credit investments (+15.4%). PSPIB's 10-year annualized return (as of 31 March 2025) was 8.2%, which compares favorably to its 10-year reference portfolio return of 6.9%.

Exhibit 4

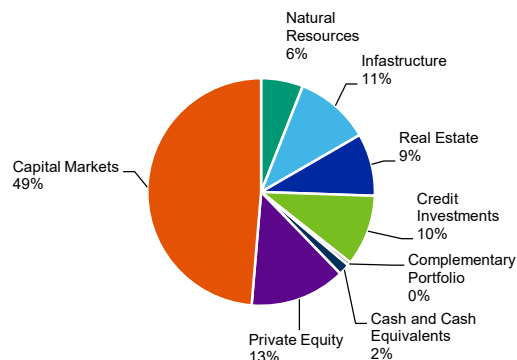
PSPIB's investments are globally diversified with 80% invested outside of Canada...
As of 31 March 2025



Source: Company financials, Moody's Ratings

Exhibit 5

...and remain broadly diversified across asset classes
As of 31 March 2025



Source: Company financials, Moody's Ratings

PSPIB has an initial Asset Risk score is ba3, which we adjust upward by three notches to baa3 to account for the benefits of geographic and sector diversification.

Financial Policy - Conservative financial policies and investment profile provides natural hedge to creditor obligations

PSPIB's financial policies are broadly conservative as expressed in our aa-score. Overall, the pension manager has good liquidity and risk management practices which mitigate a modest level of leverage through PSP Capital, Inc. that creates refinancing and counterparty risks. In addition, PSPIB hedges certain currency risks within its portfolios and has natural currency matches between its investments and funding. We note that a large portion of PSPIB's investment portfolio is invested in USD and CAD assets, which aligns with its creditor obligations, much of which are denominated in USD.

Support, structural and other considerations

High expectation of extraordinary support reflecting PSPIB's mandate as exclusive investment manager of Canada's public sector employees

Extraordinary support represents the probability that a government owner of a government-related issuer (GRI) would provide financial support, or other contractual protections, to a GRI to avoid a default on its debt obligations. The expectation of a continuation of ordinary support does not constitute extraordinary support and is instead considered in our assessment of the GRI's BCA.

PSPIB has special legal status as the exclusive asset manager for investments related to active and retired members of Canada's civil service, which we believe is a key element of the national government's compensation program and, therefore, an important contributor to the Canadian economy. In our view, a default of PSPIB would be politically embarrassing to the Government of Canada and would have implications for its own ability to access debt markets. As such, we believe the Government of Canada would provide extraordinary support, financial or otherwise, to PSPIB if necessary.

PSPIB's creditors effectively rank ahead of amounts due to the plans

PSPIB is an exclusive asset manager of the pension plans of the Public Service, the Canadian Armed Forces and the Reserve Force, and the Royal Canadian Mounted Police, but does not have legal responsibility for their pension liabilities, which remains the responsibility of the Government of Canada. We note that the legislative acts constituting PSPIB do not explicitly define the priority of PSPIB's unsecured creditors relative to the amounts due to the Plans. However, it is our view that PSPIB creditors have an effective priority claim on PSPIB's assets because the statutory framework provides that the Government of Canada may only call upon the net assets of PSPIB to pay Plan benefits. In this context, net assets means assets with a fair market value in excess of liabilities, including the unsecured obligations that PSPIB guarantees. As a result, PSPIB's obligations under the PSP Capital Inc. guarantee rank senior to the amounts that become due to the pension Plans and pari passu with PSPIB's other senior unsecured obligations. Similarly, the Plans are

only entitled to the net returns after PSPIB's operational costs. On a gross asset base of CAD346 billion at 31 March 2025, PSPIB had net assets of CAD299 billion, which we view as a loss absorbing cushion that benefits PSPIB's creditors.

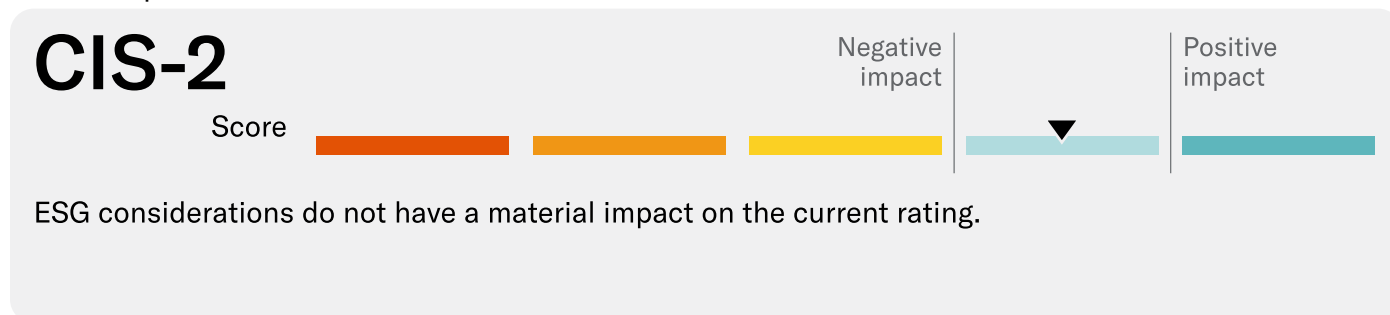
As at 31 March 2025, PSPIB's total adjusted leverage (adjusting for nettable repurchase agreements and derivatives that are not offset for accounting purposes) was about 13%.

ESG considerations

Public Sector Pension Investment Board's ESG credit impact score is CIS-2

Exhibit 6

ESG credit impact score

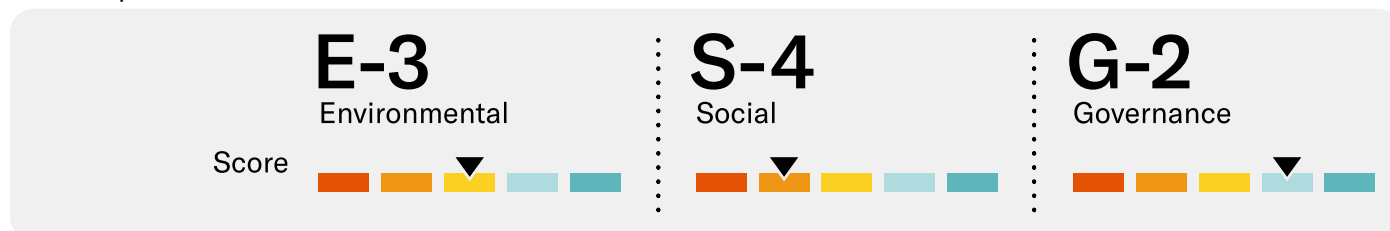


Source: Moody's Ratings

PSPIB's ESG **CIS-2** score reflects the limited impact of environmental, social and governance considerations on the current rating.

Exhibit 7

ESG issuer profile scores



Source: Moody's Ratings

Environmental

PSPIB faces moderate exposure to environmental risks related to carbon-intensive investments in its portfolio, such as oil & gas, transportation and financial services (insurance) holdings. As well, the fund's real estate and infrastructure portfolios are exposed to physical climate risk where assets could be damaged by extreme weather or rising sea levels. In addition, natural capital assets, such as agriculture, are used as a hedge against inflation.

Social

PSPIB faces high industry-wide exposure to social risks, primarily from changes in unemployment or immigration rates, which can impact contribution cash flows. However, in contrast to a pension fund, PSPIB does not have direct exposure to an aging population because it is not responsible for making benefit payments nor in managing the pension benefit obligation, both of which are the responsibility of the national government. This also reduces the impact of a privacy or data breach because PSPIB does not warehouse beneficiary data.

Governance

PSPIB faces low governance risks, with governance practices that are in line with most standards within the Canadian financial services sector. This includes a defined risk appetite statement, risk and performance benchmarks and a professional board of directors and standing Board control committees.

ESG Issuer Profile Scores and Credit Impact Scores for the rated entity/transaction are available on Moodys.com. In order to view the latest scores, please click [here](#) to go to the landing page for the entity/transaction on MDC and view the ESG Scores section.

Rating methodology and scorecard factors

Public Pension Manager						
Public Sector Pension Investment Board						
2025						
	Historical		Assigned			
	Factor Weights	Historic Ratio	Initial Score	Assigned Score	Key driver #1	Key driver #2
Funding Ratio*						
Net Assets / PBO	40%	100.0%	aaa	aaa		
Liquidity						
Liquidity Inflows / Outflows	20%	471.4%	aaa	aaa		
Asset Quality						
High Risk Assets / Gross Assets	20%	78.8%	ba3	baa3	Asset Class Diversification	
Financial Policy						
Financial Policy	20%	aa	aa	aa		
Financial Profile Outcome	100%		aa3	aa2		
Qualitative Notching						
Political Independence				0		
Corporate Behavior				0		
Scorecard-Indicated Outcome Before Constraint				aa2		
Consideration of:					Comment	
Sovereign Constraint (Y/N)				Yes		
Sovereign Rating				Aaa		
Sponsor Constraint (Y/N)				Yes		
Sponsor Rating				Aaa		
Scorecard-Indicated Outcome				aa2		

Ratings

Exhibit 8

Category	Moody's Rating
PUBLIC SECTOR PENSION INVESTMENT BOARD	
Outlook	Stable
Baseline Credit Assessment	aa2
Issuer Rating -Dom Curr	Aaa
PSP CAPITAL INC.	
Outlook	Stable
Bkd Senior Unsecured	Aaa
Bkd Commercial Paper	P-1

Source: Moody's Ratings

© 2025 Moody's Corporation, Moody's Investors Service, Inc., Moody's Analytics, Inc. and/or their licensors and affiliates (collectively, "MOODY'S"). All rights reserved.

CREDIT RATINGS ISSUED BY MOODY'S CREDIT RATINGS AFFILIATES ARE THEIR CURRENT OPINIONS OF THE RELATIVE FUTURE CREDIT RISK OF ENTITIES, CREDIT COMMITMENTS, OR DEBT OR DEBT-LIKE SECURITIES, AND MATERIALS, PRODUCTS, SERVICES AND INFORMATION PUBLISHED OR OTHERWISE MADE AVAILABLE BY MOODY'S (COLLECTIVELY, "MATERIALS") MAY INCLUDE SUCH CURRENT OPINIONS. MOODY'S DEFINES CREDIT RISK AS THE RISK THAT AN ENTITY MAY NOT MEET ITS CONTRACTUAL FINANCIAL OBLIGATIONS AS THEY COME DUE AND ANY ESTIMATED FINANCIAL LOSS IN THE EVENT OF DEFAULT OR IMPAIRMENT. SEE APPLICABLE MOODY'S RATING SYMBOLS AND DEFINITIONS PUBLICATION FOR INFORMATION ON THE TYPES OF CONTRACTUAL FINANCIAL OBLIGATIONS ADDRESSED BY MOODY'S CREDIT RATINGS. CREDIT RATINGS DO NOT ADDRESS ANY OTHER RISK, INCLUDING BUT NOT LIMITED TO: LIQUIDITY RISK, MARKET VALUE RISK, OR PRICE VOLATILITY. CREDIT RATINGS, NON-CREDIT ASSESSMENTS ("ASSESSMENTS"), AND OTHER OPINIONS INCLUDED IN MOODY'S MATERIALS ARE NOT STATEMENTS OF CURRENT OR HISTORICAL FACT. MOODY'S MATERIALS MAY ALSO INCLUDE QUANTITATIVE MODEL-BASED ESTIMATES OF CREDIT RISK AND RELATED OPINIONS OR COMMENTARY PUBLISHED BY MOODY'S ANALYTICS, INC. AND/OR ITS AFFILIATES. MOODY'S CREDIT RATINGS, ASSESSMENTS, OTHER OPINIONS AND MATERIALS DO NOT CONSTITUTE OR PROVIDE INVESTMENT OR FINANCIAL ADVICE, AND MOODY'S CREDIT RATINGS, ASSESSMENTS, OTHER OPINIONS AND MATERIALS ARE NOT AND DO NOT PROVIDE RECOMMENDATIONS TO PURCHASE, SELL, OR HOLD PARTICULAR SECURITIES. MOODY'S CREDIT RATINGS, ASSESSMENTS, OTHER OPINIONS AND MATERIALS DO NOT COMMENT ON THE SUITABILITY OF AN INVESTMENT FOR ANY PARTICULAR INVESTOR. MOODY'S ISSUES ITS CREDIT RATINGS, ASSESSMENTS AND OTHER OPINIONS AND PUBLISHES OR OTHERWISE MAKES AVAILABLE ITS MATERIALS 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 MATERIALS ARE NOT INTENDED FOR USE BY RETAIL INVESTORS AND IT WOULD BE RECKLESS AND INAPPROPRIATE FOR RETAIL INVESTORS TO USE MOODY'S CREDIT RATINGS, ASSESSMENTS, OTHER OPINIONS OR MATERIALS WHEN MAKING AN INVESTMENT DECISION. IF IN DOUBT YOU SHOULD CONTACT YOUR FINANCIAL OR OTHER PROFESSIONAL ADVISER.

ALL INFORMATION CONTAINED HEREIN IS PROTECTED BY LAW, INCLUDING BUT NOT LIMITED TO, COPYRIGHT LAW, AND NONE OF SUCH INFORMATION MAY BE COPIED OR OTHERWISE REPRODUCED, REPACKAGED, FURTHER TRANSMITTED, TRANSFERRED, DISSEMINATED, REDISTRIBUTED OR RESOLD, OR STORED FOR SUBSEQUENT USE FOR ANY SUCH PURPOSE, IN WHOLE OR IN PART, IN ANY FORM OR MANNER OR BY ANY MEANS WHATSOEVER, BY ANY PERSON WITHOUT MOODY'S PRIOR WRITTEN CONSENT. FOR CLARITY, NO INFORMATION CONTAINED HEREIN MAY BE USED TO DEVELOP, IMPROVE, TRAIN OR RETRAIN ANY SOFTWARE PROGRAM OR DATABASE, INCLUDING, BUT NOT LIMITED TO, FOR ANY ARTIFICIAL INTELLIGENCE, MACHINE LEARNING OR NATURAL LANGUAGE PROCESSING SOFTWARE, ALGORITHM, METHODOLOGY AND/OR MODEL.

MOODY'S CREDIT RATINGS, ASSESSMENTS, OTHER OPINIONS AND MATERIALS ARE NOT INTENDED FOR USE BY ANY PERSON AS A BENCHMARK AS THAT TERM IS DEFINED FOR REGULATORY PURPOSES AND MUST NOT BE USED IN ANY WAY THAT COULD RESULT IN THEM BEING CONSIDERED A BENCHMARK.

All information contained herein is obtained by MOODY'S from sources believed by it to be accurate and reliable. Because of the possibility of human or mechanical error as well as other factors, however, all information contained herein is provided "AS IS" without warranty of any kind. MOODY'S adopts all necessary measures so that the information it uses in assigning a credit rating is of sufficient quality and from sources MOODY'S considers to be reliable including, when appropriate, independent third-party sources. However, MOODY'S is not an auditor and cannot in every instance independently verify or validate information received in the credit rating process or in preparing its Materials.

To the extent permitted by law, MOODY'S and its directors, officers, employees, agents, representatives, licensors and suppliers disclaim liability to any person or entity for any indirect, special, consequential, or incidental losses or damages whatsoever arising from or in connection with the information contained herein or the use of or inability to use any such information, even if MOODY'S or any of its directors, officers, employees, agents, representatives, licensors or suppliers is advised in advance of the possibility of such losses or damages, including but not limited to: (a) any loss of present or prospective profits or (b) any loss or damage arising where the relevant financial instrument is not the subject of a particular credit rating assigned by MOODY'S.

To the extent permitted by law, MOODY'S and its directors, officers, employees, agents, representatives, licensors and suppliers disclaim liability for any direct or compensatory losses or damages caused to any person or entity, including but not limited to by any negligence (but excluding fraud, willful misconduct or any other type of liability that, for the avoidance of doubt, by law cannot be excluded) on the part of, or any contingency within or beyond the control of, MOODY'S or any of its directors, officers, employees, agents, representatives, licensors or suppliers, arising from or in connection with the information contained herein or the use of or inability to use any such information.

NO WARRANTY, EXPRESS OR IMPLIED, AS TO THE ACCURACY, TIMELINESS, COMPLETENESS, MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE OF ANY CREDIT RATING, ASSESSMENT, OTHER OPINION OR INFORMATION IS GIVEN OR MADE BY MOODY'S IN ANY FORM OR MANNER WHATSOEVER.

Moody's Investors Service, Inc., a wholly-owned credit rating agency subsidiary of Moody's Corporation ("MCO"), hereby discloses that most issuers of debt securities (including corporate and municipal bonds, debentures, notes and commercial paper) and preferred stock rated by Moody's Investors Service, Inc. have, prior to assignment of any credit rating, agreed to pay Moody's Investors Service, Inc. for credit ratings opinions and services rendered by it. MCO and all MCO entities that issue ratings under the "Moody's Ratings" brand name ("Moody's Ratings"), also maintain policies and procedures to address the independence of Moody's Ratings' 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, Inc. and have also publicly reported to the SEC an ownership interest in MCO of more than 5%, is posted annually at ir.moody.com under the heading "Investor Relations — Corporate Governance — Charter and Governance Documents - Director and Shareholder Affiliation Policy."

Moody's SF Japan K.K., Moody's Local AR Agente de Calificación de Riesgo S.A., Moody's Local BR Agência de Classificação de Risco LTDA, Moody's Local MX S.A. de C.V., I.C.V., Moody's Local PE Clasificadora de Riesgo S.A., and Moody's Local PA Clasificadora de Riesgo S.A. (collectively, the "Moody's Non-NRSRO CRAs") are all indirectly wholly-owned credit rating agency subsidiaries of MCO. None of the Moody's Non-NRSRO CRAs is a Nationally Recognized Statistical Rating Organization.

Additional terms for Australia only: Any publication into Australia of this document is pursuant to the Australian Financial Services License of MOODY'S affiliate, Moody's Investors Service Pty Limited ABN 61 003 399 657 AFSL 336969 and/or Moody's Analytics Australia Pty Ltd ABN 94 105 136 972 AFSL 383569 (as applicable). This document is intended to be provided only to "wholesale clients" within the meaning of section 761G of the Corporations Act 2001. By continuing to access this document from within Australia, you represent to MOODY'S that you are, or are accessing the document as a representative of, a "wholesale client" and that neither you nor the entity you represent will directly or indirectly disseminate this document or its contents to "retail clients" within the meaning of section 761G of the Corporations Act 2001. MOODY'S credit rating is an opinion as to the creditworthiness of a debt obligation of the issuer, not on the equity securities of the issuer or any form of security that is available to retail investors.

Additional terms for India only: Moody's credit ratings, Assessments, other opinions and Materials are not intended to be and shall not be relied upon or used by any users located in India in relation to securities listed or proposed to be listed on Indian stock exchanges.

Additional terms with respect to Second Party Opinions and Net Zero Assessments (as defined in Moody's Ratings Rating Symbols and Definitions): Please note that neither a Second Party Opinion ("SPO") nor a Net Zero Assessment ("NZA") is a "credit rating". The issuance of SPOs and NZAs is not a regulated activity in many jurisdictions, including Singapore. JAPAN: In Japan, development and provision of SPOs and NZAs fall under the category of "Ancillary Businesses", not "Credit Rating Business", and are not subject to the regulations applicable to "Credit Rating Business" under the Financial Instruments and Exchange Act of Japan and its relevant regulation. PRC: Any SPO: (1) does not constitute a PRC Green Bond Assessment as defined under any relevant PRC laws or regulations; (2) cannot be included in any registration statement, offering circular, prospectus or any other documents submitted to the PRC regulatory authorities or otherwise used to satisfy any PRC regulatory disclosure requirement; and (3) cannot be used within the PRC for any regulatory purpose or for any other purpose which is not permitted under relevant PRC laws or regulations. For the purposes of this disclaimer, "PRC" refers to the mainland of the People's Republic of China, excluding Hong Kong, Macau and Taiwan.

CLIENT SERVICES

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