

ASSESSMENT

15 July 2025



Analyst Contacts

Serena Canjani Associate Lead Analyst-SF serena.canjani@moodys.com

Virginia Barbosa Sustainable Fin Associate virginia.barbosa@moodys.com

Gonzalo Marambio Sustainable Finance Analyst gonzalo.marambio@moodys.com

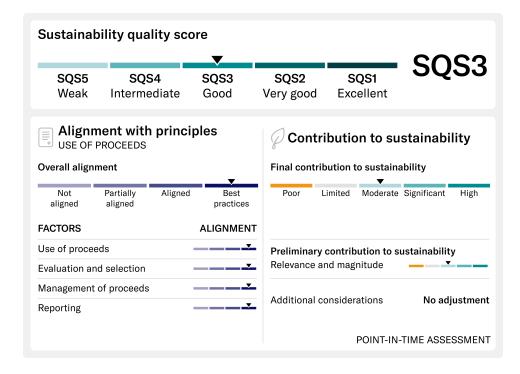
Matthew Kuchtyak SVP-Sustainable Finance matthew.kuchtyak@moodys.com

APP GICA S.A.

Second Party Opinion – Social Financing Framework Assigned SQS3 Sustainability Quality Score

Summary

We have assigned an SQS3 sustainability quality score (good) to APP GICA S.A.'s (APP GICA) social financing framework dated July 2025. The issuer has established a use-of-proceeds framework with the aim of financing projects across two eligible social categories: (1) affordable basic infrastructure and access to essential services and (2) socioeconomic advancement and empowerment. The framework is aligned with the four core components of the International Capital Market Association's (ICMA) Social Bond Principles (SBP) 2025, as well as the Social Loan Principles 2025 of the Loan Market Association, Asia Pacific Loan Market Association and Loan Syndications and Trading Association (LMA/APLMA/LSTA). The issuer has also incorporated Moody's-identified best practices for all four components. The framework demonstrates a moderate contribution to sustainability.



Scope

We have provided a Second Party Opinion (SPO) on the sustainability credentials of APP GICA's social financing framework, including the framework's alignment with the ICMA's SBP 2025, and the SLP 2025 of the LMA/APLMA/LSTA. Under its framework, APP GICA plans to issue use-of-proceeds social bonds and loans with the aim of financing projects across two eligible social categories, as outlined in Appendix 3 of this report.

Our assessment is based on the last updated version of the framework received on 15 July 2025, and our opinion reflects our point-in-time assessment¹ of the details contained in this version of the framework, as well as other public and non-public information provided by the company.

We produced this SPO based on our Assessment Framework: Second Party Opinions on Sustainable Debt, published in March 2025.

Issuer profile

APP GICA is a Colombian public-private partnership formed by Constructora Colpatria, Mincivil, Termotécnica Coindustrial, Latinco and HB Estructuras Metálicas. It was established to execute the concession contract APP No. 002 dated 12 February 2015, which includes the construction, operation and maintenance of the second lane of the Ibagué-Cajamarca road.

The APP GICA toll road concession project is part of the Colombian government-led infrastructure initiative 4G Program, in partnership with the National Infrastructure Agency (ANI). The project, with a duration of 23 years, entered its construction phase in 2016 and was completed in August 2024, when the project officially entered the operation and maintenance phase. The concessionaire location is part of the Bogotá-Buenaventura road corridor, which is an important axis in the country's economy and foreign trade, connecting the center with the coffee axis (Valle del Cauca) and Port of Buenaventura.

Strengths

- » The project has adopted guidance established by the International Finance Corporation's (IFC) environmental and social performance standards.
- » The project's established environmental and social management plan is subject to ongoing review by an independent engineer.
- » Impact reporting will be externally verified during the life of the transaction.

Challenges

- » Despite discounted toll fares for residents in the area of the project, barriers to affordable access may still be present for some members of the target population.
- » Most of the project's benefits to the local economy from hiring and procurement provided medium-term benefits during the construction phase of the project.
- » There are some potential negative environmental externalities inherent to roadways, including increase in air pollution and habitat fragmentation.

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.moodys.com for the most updated credit rating action information and rating history.

Alignment with principles

APP GICA's social financing framework is aligned with the four core components of the ICMA's SBP 2025 and the SLP 2025 of the LMA/APLMA/LSTA, and incorporates Moody's-identified best practices for all four components. For a summary alignment with the principles scorecard, please see Appendix 1.

O Green Bond Principles (GBP)

Green Loan Principles (GLP)

Social Bond Principles (SBP)

Social Loan Principles (SLP)

Sustainability-Linked Bond Principles (SLBP)

Sustainability Linked Loan Principles (SLLP)

Use of proceeds

			_
Not aligned	Partially aligned	Aligned	Best practices

Clarity of the eligible categories – BEST PRACTICES

APP GICA has clearly defined and communicated the nature of expenditures, the eligibility criteria and the location of eligible projects (Colombia). The issuer has specified the eligibility criteria in its social financing framework for both categories: affordable basic infrastructure and access to essential services, which includes the construction and improvement of associated infrastructure for roads, tolls and signage; and socioeconomic advancement and empowerment, which includes community support and employment generation, particularly for reintegrated individuals from violence and women. The issuer has communicated that proceeds will be solely used to refinance the concessionaire project, excluding any activities that are not compliant with applicable environmental and social regulations.

Clarity of the environmental or social objectives – BEST PRACTICES

The issuer has clearly outlined the social objectives for each eligible category, which include connectivity improvements and local socioeconomic development. They are relevant for both the eligible categories and coherent with international standards. The issuer has referenced the United Nations' (UN) Sustainable Development Goals (SDGs) and associated targets to articulate its objectives. For details, see Appendix 2.

Clarity of the expected benefits - BEST PRACTICES

The issuer has clearly identified social benefits that are measurable and detailed for both eligible categories. The proceeds from the transaction will be exclusively allocated to refinance the expenditures associated with the eligible project, encompassing a look-back period that includes all project development stages.

Process for project evaluation and selection



Transparency and clarity of the process for defining and monitoring eligible projects – BEST PRACTICES

The issuer has a clearly defined and structured decision-making process for the selection of projects outlined in the framework. Construction of the APP GICA project began in 2016 as part of the 4G program, led by the Colombian government, in partnership with the ANI, and concluded in August 2024 when the project officially entered the operational phase.

The issuer has established a comprehensive environmental and social management plan, which addresses the risk mitigation process. Furthermore, the project will be continuously monitored throughout its life by an independent engineer, and technical reports will be regularly delivered to the ANI.

Management of proceeds



Allocation and tracking of proceeds - BEST PRACTICES

APP GICA has defined a clear process for the management and allocation of proceeds, which has been publicly disclosed in the framework. The issuer has communicated that it plans only one transaction under this framework. Under the project financing structure, net proceeds will be fully allocated to refinancing the APP GICA project. Therefore, there will be no temporarily unallocated funds.

Reporting



Reporting transparency - BEST PRACTICES

The issuer will publicly report the impact indicators on an annual basis until instrument maturity. Because the proceeds will be fully allocated to refinancing, there will be only a one-time allocation report. The issuer has informed us that the project's financial statements were verified by an independent firm, and investors have been granted access to these documents.

The issuer has included in the framework a list of social benefit indicators to be reported. The methodology and assumptions used to report on the social benefits of the eligible project will be disclosed to investors. These impact indicators will be independently assessed by an external party and reported throughout the life of the instrument.

Contribution to sustainability

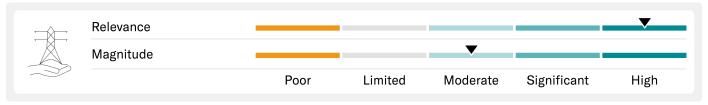
The framework demonstrates a moderate overall contribution to sustainability. This reflects a preliminary contribution to sustainability score of moderate, based on the relevance and magnitude of the eligible project categories, and we have not made an adjustment to the preliminary score based on additional contribution to sustainability considerations.



Preliminary contribution to sustainability

The preliminary contribution to sustainability is moderate, based on the relevance and magnitude of the eligible project categories. Based on the eligible project's expenditures allocated to each category, we assigned a higher weight to the affordable basic infrastructure and access to essential services category when assessing the overall framework's contribution to sustainability. A detailed assessment by eligible category has been provided below.

Affordable basic infrastructure and access to essential services



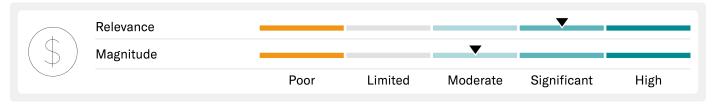
Expenditures under this category have high relevance because of the challenges with respect to infrastructure quality and socioeconomic conditions in the region. The 4G project has been developed by the Colombian government to close the infrastructure gap identified in the country, with Colombia's road infrastructure among the most outdated in the world at the time the 4G projects were planned. According to the 2019 World Economic Forum Global Competitiveness report, Colombia ranks 104th among 141 countries in terms of road infrastructure quality. Also, significant poverty rates in the region and the need for greater connectivity and access to essential services suggest that the improvement in infrastructure quality supports other related social objectives.

The magnitude of investments in this category is moderate. The improvements in the roadways contributed to facilitating the integration of the country's central region with the Buenaventura port, one of the main exit points for foreign trade. The enhancement in infrastructure has contributed to reducing travel time by about 71% and improving road safety by 77%. Other direct benefits have included cost savings in vehicle operation.

However, some of the benefits have a medium-term nature or are difficult to quantify, limiting our ability to assess the full extent of the expected impact. The project directly serves several communities in the Tolima and Cundinamarca departments, addressing road infrastructure gaps and connectivity between urban and rural areas. While new roadways reduce travel time and improve municipal integration, quantifying and assigning the expected benefits to the target population from the project – such as expanded access to essential services like education and healthcare – is difficult. Furthermore, to maintain the social benefits, it is important to carry on maintenance, provide assistance services and foster driver awareness. In addition, road construction inherently involves some potential environmental externalities, such as habitat fragmentation and increases in traffic, leading to potential greenhouse gas and other pollutant emissions from transportation.

As of 2023, around 60% of private vehicles in Colombia were motorcycles,³ which are not required to pay the toll. Although local residents can benefit from toll discounts on other vehicles, affordable access may still be a difficulty for some residents because of the high economic vulnerability of the target population.

Socioeconomic advancement and empowerment



Under this category, the issuer invested in community projects and employment generation, particularly for women and individuals reintegrated from armed conflicts. As of year-end 2024, the incidence of multidimensional poverty was 12.6% in Tolima and 7.4% in Cundinamarca. These departments face challenges such as informal employment, armed conflict and a dispersed rural sector because of inadequate road infrastructure. While not the primary focus of the company's operations, the investments in these areas are significantly relevant to address socioeconomic issues, especially because of the region's high poverty rates.

The magnitude of this category is moderate. Project construction began in 2016, creating more than 7,000 jobs and providing around 5,000 training opportunities during the development of the project. During construction, 12.5% of the workforce consisted of victims of regional armed conflicts and 12.6% were women. While the issuer's efforts to engage vulnerable populations and contribute positively to regional economic development and workforce diversity are positive, infrastructure projects typically employ the most people during the construction phase. Therefore, we expect the benefits will largely be short-medium term in nature, and will be lower during the operation phase than during the construction phase.

Additional contribution to sustainability considerations

We have not made an adjustment to the preliminary contribution to sustainability score based on additional considerations.

The eligible project is part of the 4G concession program in Colombia and it follows the governmental plan to develop and modernize roadways in the country. As a public-private partnership, the concessionaire's aim is to comply with the concession contract signed with the ANI while respecting the environment, surrounding communities and users of the roadway.

The project follows the IFC Performance Standards, and robust environmental and social management plans are being carried out. Social programs and environmental actions included the Labor Linkage Program, which generated jobs for people previously displaced because of violence in Colombia, and the Road Culture Programme, which aimed to raise awareness about the proper use of roads, compliance with traffic regulations and accident prevention.

Appendix 1 - Alignment with principles scorecard for APP GICA's social financing framework

Factor	Sub-factor	Component	Component score	Sub-factor score	Factor score
eligi		Nature of expenditure	Α		
	Clarity of the	Definition of content, eligibility and exclusion criteria for nearly all categories	А	Best	
	eligible categories	ation A		practices	
		BP: Definition of content, eligibility and exclusion criteria for all categories	Yes		Best practices
	Clarity of the objectives	Relevance of objectives to project categories for nearly all categories	Α		
		Coherence of project category objectives with standards for nearly all categories	А	Best practices	
		BP: Objectives are defined, relevant and coherent for all categories	Yes		
		Identification and relevance of expected benefits for nearly all categories	А		
		Measurability of expected benefits for nearly all categories	А		
	Clarity of expected	BP: Relevant benefits are identified for all categories	Yes	Best	
	benefits	BP: Benefits are measurable for all categories	Yes	practices	
		BP: Disclosure of refinancing prior to issuance and in post-allocation reporting	Yes		
		BP: Commitment to communicate refinancing look-back period prior to issuance	Yes		
	Transparency and	Clarity of the process	Α		Best practices
Process for	clarity of the process for defining and monitoring eligible projects	Disclosure of the process	А	Best	
project evaluation and selection		Transparency of the environmental and social risk mitigation process	А	practices	
		BP: Monitoring of continued project compliance	Yes		
		Tracking of proceeds	Α		Best practices
	Allocation and	Periodic adjustment of proceeds to match allocations	Α		
Management of	tracking of	Disclosure of the intended types of temporary placements of unallocated proceeds	Α	Best practices	
	p. cocodo	BP: Disclosure of the proceeds management process	Yes		
		BP: Allocation period is 24 months or less	Yes		
Reporting Reportency		Reporting frequency	Α	Best practices	Best practices
		Reporting duration	Α		
		Report disclosure	Α		
		Reporting exhaustivity	Α		
	transparency	BP: Allocation reporting at least until full allocation of proceeds, and impact reporting until full bond maturity or loan payback	Yes		
		BP: Clarity and relevance of the indicators on the sustainability benefits	Yes		
		BP: Disclosure of reporting methodology and calculation assumptions	Yes		
		BP: Independent external auditor, or other third party, to verify the tracking and allocation of funds	Yes		
		BP: Independent impact assessment on environmental and social benefits	Yes		
		Overall alignment with prin	nciples score:		Best practices

Legend: BP - Best practice, A - Aligned, PA - Partially aligned, NA - Not aligned

Appendix 2 - Mapping eligible categories to the United Nations' Sustainable Development Goals

The two eligible categories included in APP GICA's framework are likely to contribute to four of the UN's SDGs, namely:

UN SDG 17 Goals		SDG Targets
GOAL 8: Decent Work and Economic Growth	Socioeconomic advancement and empowerment	8.5: Achieve full, productive employment and decent work for all women and men, and equal pay for work of equal value
GOAL 9: Industry, Innovation and Infrastructure	Affordable basic infrastructure and Access to essential services	9.1: Develop sustainable infrastructure to support economic development and human well-being, focusing on equitable access
GOAL 10: Reduced Inequality	Socioeconomic advancement and empowerment	10.2: Empower and promote the social, economic and political inclusion of all
GOAL 11: Sustainable Cities and Communities	Affordable basic infrastructure and Access to essential services	11.2: Provide access to safe, affordable, accessible and sustainable transport systems for all

The mapping of the UN's SDGs in this SPO considers the eligible project categories and associated sustainability objectives/benefits documented in the issuer's financing framework, as well as resources and guidelines from public institutions, such as the ICMA's SDG Mapping Guidance and the UN's SDG targets and indicators.

Appendix 3 - Summary of eligible categories in APP GICA's framework

Eligible Categories	Description	Sustainability Objectives	Impact Reporting Metrics
Affordable Basic Infrastructure and Access to Essential Services	- Road infrastructure, including the construction of 221 km, which involves building a second carriageway between the Combeima River and the Cocora Valley, with a total length of 19.1 km, and the operation and maintenance of the Girardot-Ibagué-Cajamarca Corridor with a length of 206 km - Construction and improvement of associated infrastructure, toll booths, among others - Vertical and horizontal signage (including reflective strips)	- Connectivity improvement - Local economic development	- Average number of vehicles per day (total of light and heavy vehicles) - Average travel time (minutes/km) - Kilometers of roads constructed or improved - Reduction in freight costs - Annual reduction in toll rates - Reduction in toll rates processed over total traffic - Number of annual accidents per 100,000 vehicles - Average response time to accidents (minutes) - Number of heavy vehicles - Number of vehicles paying with COLPAS (electronic tolls) - Number of vehicles assisted due to mechanical failures
Socioeconomic Advancement and Empowerment	- Investments in infrastructure improvement for market connectivity and economic development - Strategy to support productive projects in the communities - Road safety culture program and support for users and communities in the Project's area of influence - Employment generation strategy through the local workforce integration program, with a special focus on individuals reintegrating from violence and women	- Connectivity improvement - Local economic development	- Number of projects developed with peace-promoting actors - Number of landmines removed from the region - Number of jobs provided - Percentage of female workforce - Percentage of workforce reintegrated from violence

Endnotes

- 1 Point-in-time assessment is applicable only on date of assignment or update.
- 2 World Economic Forum (WEF), The Global Competitiveness Report 2019.
- 3 Registro Unico Nacional de Tránsito de Colombia (RUNT), RUNT EN CIFRAS, Balance del sector tránsito y transporte 2023.
- 4 Departamento Administrativo Nacional de Estadística (DANE), Pobreza multidimensional en Colombia, Año 2024.

Moody's assigns SPOs in alignment with the main tenets of the ICMA Guidelines for Green, Social, Sustainability and Sustainability-Linked Bonds External Reviews and the LSTA/ LMA/APLMA Guidance for Green, Social and Sustainability-Linked Loans External Reviews, as applicable; Moody's practices may however diverge in some respects from the practices recommended in those documents. Moody's approach to assigning SPOs is described in its Assessment Framework, and is subject to the ethical and professional principles set forth in the Moody's Investors Service Code of Professional Conduct.

Additional terms with respect to Second Party Opinions (as defined in Moody's Investors Service Rating Symbols and Definitions): Please note that a Second Party Opinion ("SPO") is not a "credit rating". The issuance of SPOs is not a regulated activity in many jurisdictions, including Singapore. JAPAN: In Japan, development and provision of SPOs 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.

© 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

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 Credit ratings and credit rating processes. Information regarding criatin 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.moodys.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 Calificadora 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 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 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.

REPORT NUMBER

1453995