

CREDIT OPINION

24 April 2025

Update



Send Your Feedback

RATINGS

Ile-de-France, Region

Domicile	France
Long Term Rating	Aa3
Type	LT Issuer Rating - Fgn 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

Raphael Auberty +33.1.5330.3414
Analyst
raphaiele.auberty@moody's.com

Juan Arias +33.1.5330.3420
Ratings Associate
juan.arias@moody's.com

Massimo Visconti, +39.02.9148.1124
MBA
VP-Sr Credit Officer/Manager
massimo.visconti@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

Region Ile-de-France (France)

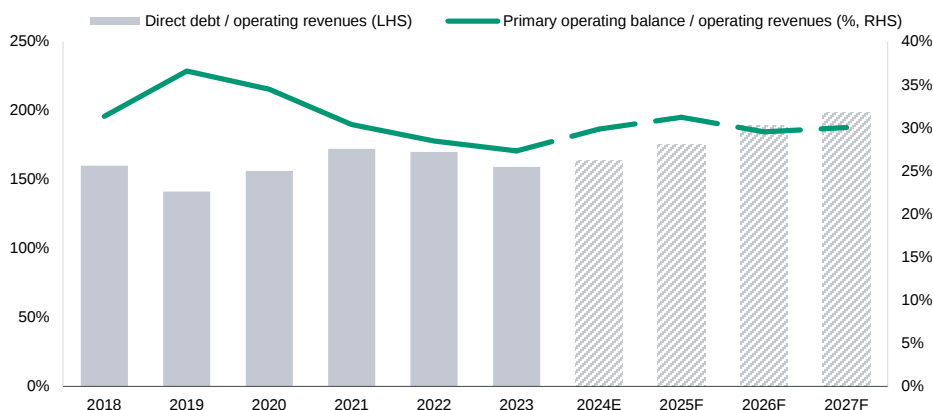
Update following outlook change to stable from negative

Summary

The credit profile of [Region Ile-de-France](#) (Aa3 stable) reflects its strong financial performance, with its primary operating balance (POB) expected to average 30.1% of operating revenue over 2024-27, which will support the region's investment capacity. The creditworthiness of Region Ile-de-France is also supported by its strong governance and sophisticated debt management, its undisputed access to financial markets and its status as the wealthiest region in France. Our assessment also captures its high debt levels because of high capital spending, and its limited revenue flexibility, as is the case for all French regions.

Exhibit 1

High POB ratios, enabling the region to sustain high debt levels



F - Forecast.

E - Estimate.

Sources: Région Ile-de-France and Moody's Ratings

Credit strengths

- » Strong operating performance, with POB to stay around 30% of operating revenue over the next three years
- » Status as the wealthiest region in France
- » Sound governance practices, which underpin unquestioned market access

Credit challenges

- » High debt levels, which will likely increase in the coming years
- » Limited revenue flexibility, similar to that of all French regions

Rating outlook

The stable outlook reflects Region Ile-de-France's capacity to maintain a very strong operating performance over the next two to three years and a manageable debt burden. It also reflects our view that Region Ile-de-France's very strong governance and its unquestioned access to financing will help it navigate the current uncertain and challenging political, economic and financial environment.

Factors that could lead to an upgrade

Given that Region Ile-de-France is rated on par with the sovereign, an upgrade would at least require an upgrade of the sovereign rating.

Factors that could lead to a downgrade

One or a combination of the following could lead to a downgrade: (1) lower operating margins for a prolonged period compared with our current expectations; (2) a materially and permanently higher debt burden compared with our current forecasts, and; (3) a significant weakening in liquidity position or market access. Moreover, a downgrade of the sovereign bond rating would have negative implications for the rating.

Key indicators

Exhibit 2

	2018	2019	2020	2021	2022	2023	2024E	2025F	2026F	2027F
Primary Operating Balance / Operating Revenue (%)	31.3%	36.6%	34.5%	30.4%	28.5%	27.3%	29.8%	31.2%	29.5%	30.0%
Capital Expenditure / Total Expenditure (%)	38.3%	40.9%	45.6%	45.6%	42.6%	41.1%	48.0%	49.6%	48.6%	48.4%
Self-financing ratio	1.1	1.1	0.9	0.8	0.8	0.8	0.7	0.6	0.6	0.6
Direct Debt / Operating Revenue (%)	160.0%	141.3%	156.1%	172.1%	170.0%	159.0%	163.7%	175.6%	189.4%	198.2%
Net Direct and Indirect Debt (NDID) / Operating revenue	160.0%	141.3%	156.1%	172.2%	170.1%	159.1%	163.7%	175.7%	189.5%	198.3%
Interest Expenses / Operating Revenue (%)	3.4%	3.3%	2.7%	2.6%	2.3%	2.7%	2.9%	4.1%	5.2%	6.1%
Debt Repayment / Operating Revenue (%)	14.9%	12.5%	25.3%	5.4%	11.7%	11.7%	12.3%	19.1%	17.4%	17.4%

F - Forecast ; E - Estimate.

Sources: Region Ile-de-France and Moody's Ratings

Detailed credit considerations

On 18 April 2025, we changed Region Ile-de-France's outlook to stable from negative and affirmed the Aa3/Prime-1 ratings.

The credit profile of Region Ile-de-France's, as expressed in its Aa3 rating, reflects its Baseline Credit Assessment (BCA) of aa3 and a moderate likelihood of extraordinary support from the Government of France in the event the entity faces acute liquidity stress.

Baseline Credit Assessment

Very strong operating performance, which provides shock-absorption capacity

Over the coming years, we expect Region Ile-de-France to continue to post very high operating surpluses. In 2024, the region's primary operating balance (POB) stood at an estimated €1,256 million, equivalent to 29.8% of operating revenue and up from 27.3% in 2023. The increase in the tax rate on the registration on new vehicles, from €46.15 to €54.95, in 2024, and robust car sales in the region, coupled with restraint on operating expenditure, supported the region's operating performance, despite sluggish growth in value-added tax (VAT) proceeds. Since 2021, the region receives an additional share of national VAT in replacement to the local business tax (CVAE). VAT proceeds accounted for an estimated 43% of operating revenue in 2024.

We expect the POB ratio to stabilise at close to 30% of operating revenue in 2025-27 (see Exhibit 1), as the region adjusts to the funding cuts implemented in 2025. On the revenue side, the 2025 Finance Bill lowers revenue by €123 million or 3.0% of operating revenue. The funding cuts consist of VAT proceeds (impact estimated around 1.7% of operating revenue) unilaterally capped by the central government to the 2024 proceeds, as well as a levy on revenue to build a reserve fund, known as "Dilico", equivalent to 1.3% of operating revenue for the region. These funding cuts will be partially offset by the removal of an exemption on clean vehicle

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's.com> for the most updated credit rating action information and rating history.

registration and our expectations for robust car sales to continue. The region will also benefit from a compensation grant for health and social training programmes.

The intensification of the region's effort to contain operating expenditure will allow it to maintain a very strong operating performance over the coming years. Based on its 2025 budget, the region targets a €150 million (3.6% of 2024 operating revenue) reduction in operating expenditure (excluding interest payments) compared to 2024 estimates, despite the increase in the contribution rate to the civil servants pension scheme. Beyond 2025, the region aims to contain operating expenditure growth, excluding interest payments, below 2% annually.

Status as the wealthiest region in France

Home to France's capital city Paris, Région Ile-de-France draws its strength from a combination of political and economic powers. The French financial industry and the country's major transportation hubs are concentrated in Région Ile-de-France. With 12.4 million inhabitants, the region is home to 18% of France's metropolitan population, and the average age of its residents is lower than the national average. It is the wealthiest region in the country, accounting for 30% of national wealth, or 5% of the European Union's GDP, larger than that of Greater London in the United Kingdom or [Lombardy](#) (Baa2 stable) in Italy. The region's 2023 GDP per capita was 1.7x the national GDP per capita.

Sound governance and sophisticated financial management underpin unquestioned market access

The regional administration follows a prudent budgetary approach, presenting credible long-term budget targets. The quality of governance and management is high, with a clear focus on preserving the region's financial health. Région Ile-de-France has undertaken continued efforts to rationalise its operating expenditure, as illustrated by the efforts to rationalise its office use in its regional headquarters. Targets — such as having less than €9 billion of debt by the end of the current mandate and debt-to-GOB ratio equal to or below 9x in 2028 — are clear and achievable.

Région Ile-de-France also undertakes sophisticated financial management. As of year-end 2024, 96% of the region's outstanding debt (€6.9 billion) was green and sustainable. In January 2025, Region Ile-de-France issued €1 billion under its €9 billion EMTN programme.

Région Ile-de-France has a €1 billion Negotiable European Commercial Paper (NEU-CP) programme. While the region does not plan to issue new short-term debt using this vehicle and has reduced the size of the programme from €1.5 billion to €1 billion in 2023, its unquestioned debt market access remains a key credit strength. The region also has access to a €100 million revolving credit facility to meet its liquidity needs, accessible with a 24-hour notice. Given the support of predictable and regular cash flow, in particular central government transfers and tax revenue, we expect Région Ile-de-France's liquidity to remain sound and secure. The region also benefits from funding from the [European Investment Bank](#) (EIB, Aaa stable). We expect the region to maintain close ties with the EIB and to continue to benefit from its secure and highly competitive funding as most of the region's capital expenses (including high schools and public transportation) are eligible for loans from the EIB.

High debt levels, which will likely increase in the coming years

Région Ile-de-France's stock of net direct and indirect debt will remain high, and will increase in the coming years. We expect the region's direct debt to exceed €8.2 billion in 2027 (198% of operating revenues), up from 6.9 billion in 2024 (164% of estimated operating revenues). Région Ile-de-France's capital investment reached an estimated €2.3 billion in 2024, including supporting measures for small and medium-sized enterprises (SMEs) and targeted spending in other key areas such as professional training, transportation and economic development.

Over the coming years, we forecast the level of capital expenditure to decline in nominal amounts as the region adjusts to the funding cuts imposed by the central government. That said, capital expenditure will remain high as a share of total expenditure, averaging around 48.5 % over 2025-27 compared to 43.9% over 2022-24. This trend should continue over the medium term, given the region's decision to reduce capital commitment appropriations in the 2025 budget, which will likely trigger a slowdown in investment and borrowing needs.

At the same time, debt will remain affordable despite a gradual increase in interest payments amid an increase in debt and higher interest rates. We expect interest payments — which represented an estimated 2.9% of operating revenue in 2024 — to average 5.1% of operating revenue over 2025-27. The region will retain flexibility in its investment plan.

Limited revenue flexibility, like all French regions

Région Ile-de-France has to contend with limited revenue flexibility and increasing exposure to the national economy. The only fiscal leeway regions have in terms of modulating tax rates is through the tax on vehicles, as demonstrated by the decision to increase the tax rate from 2024 and the termination of the exemption on clean cars since summer 2023. For Région Ile-de-France, proceeds from this tax represented 10.0% of operating revenue in 2024. The region is exposed to the national economy with 43% of its revenue derived from national VAT in 2024. This share has increased significantly over the past decade, most recently with the decision of the central government to suppress the local business tax CVAE and replace it with an additional share of VAT in 2021.

On the spending side, French regions have high flexibility because of the high proportion of capital spending as a share of their total expenses. If needed, Région Ile-de-France could adjust or postpone its commitments in terms of capital spending projects.

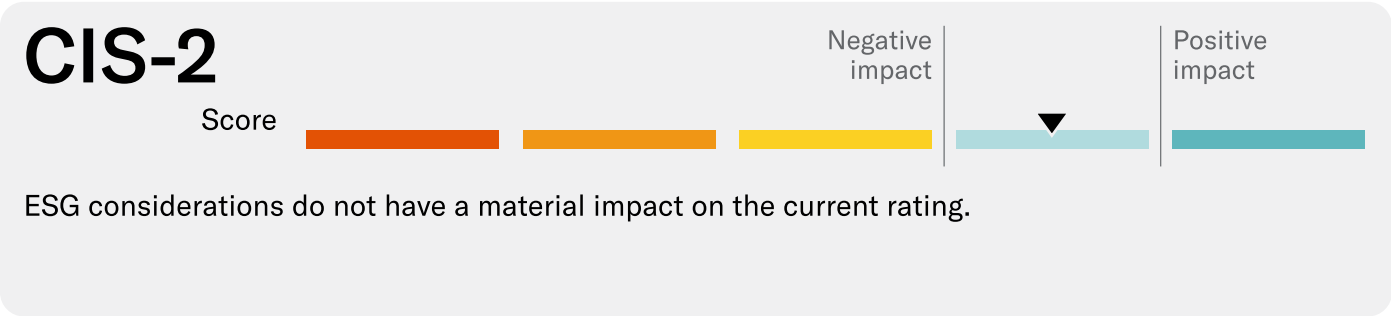
Extraordinary support considerations

We assign a high level of extraordinary support from the Government of France. This support mainly reflects the strategic role of Région Ile-de-France because of its economic importance, large population, the capital city status of Paris and the region's international reputation. It is also the result of Région Ile-de-France's status as a high-profile and important issuer of bonds in international capital markets.

ESG considerations

Ile-de-France, Region's ESG credit impact score is CIS-2

Exhibit 3
ESG credit impact score



Source: Moody's Ratings

Region Ile-de-France's ESG Credit Impact Score of **CIS-2** reflects low exposure to environmental and social risks and very strong governance, as well as strong resilience to shocks thanks to its intrinsic fiscal strength, unquestioned access to external funding and external support (including central government support in case of major natural disaster).

Exhibit 4
ESG issuer profile scores



Source: Moody's Ratings

Environmental

Region Ile-de-France's **E-2** environmental issuer profile score (IPS) reflects low risks across all categories.

Social

Region Ile-de-France's **S-2** social IPS reflects very high-quality education, good housing availability, high quality of health & safety and very high-quality access to basic services. As for France, population ageing is a longer-term challenge, balanced at the regional level by the attractiveness and wealth of the territory.

Governance

Region Ile-de-France's **G-1** governance IPS is underpinned by its prudent budgetary practices and planification, its budgetary flexibility and its financial management, including sophisticated debt management.

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

The assigned BCA of aa3 is in line with the BCA scorecard-indicated outcome.

For details about our rating approach, please refer to our [Regional and Local Governments rating methodology](#), published on 28 May 2024.

Exhibit 5

Ile-de-France, Region

Regional & Local Governments

Baseline Credit Assessment – Scorecard	Score	Value	Sub-factor Weighting	Sub-factor Score	Factor Weighting	Total
Factor 1: Economy					25%	0.58
Regional Income [1]	0.50	107189.97	15%	0.08		
Economic Growth	9.00	baa	5%	0.45		
Economic Diversification	1.00	aaa	5%	0.05		
Factor 2: Institutional Framework and Governance					30%	0.90
Institutional Framework	3.00	aa	15%	0.45		
Governance	3.00	aa	15%	0.45		
Factor 3: Financial Performance					20%	0.93
Operating Margin [2]	1.04	27.31%	10%	0.10		
Liquidity Ratio [3]	15.47	3.36%	5%	0.77		
Ease of Access to Funding	1.00	aaa	5%	0.05		
Factor 4: Leverage					25%	2.18
Debt Burden [4]	9.95	159.09%	15%	1.49		
Interest Burden [5]	6.85	2.68%	10%	0.69		
Preliminary BCA Scorecard-Indicated Outcome (SIO)						(4.58) a1
Idiosyncratic Notching						0.0
Preliminary BCA SIO After Idiosyncratic Notching						(4.58) a1
Sovereign Rating Threshold						Aa3
Operating Environment Notching						0.5
BCA Scorecard-Indicated Outcome						(4.08) aa3
Assigned BCA						aa3

[1] Regional GDP per capita in terms of purchasing power parity (PPP) terms, in international dollars

[2] Primary Operating Balance / Operating Revenue

[3] Cash and Cash Equivalents / Operating Revenue

[4] Net Direct and Indirect Debt / Operating Revenue

[5] Interest Payments / Operating Revenue

Source: Moody's Ratings; Fiscal 2023.

Ratings

Exhibit 6

Category	Moody's Rating
ILE-DE-FRANCE, REGION	
Outlook	Stable
Baseline Credit Assessment	aa3
Issuer Rating	Aa3
Senior Unsecured	Aa3
Commercial Paper -Dom Curr	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