

Lloyds Banking Group plc

Update

Key Rating Drivers

Business Profile, Profitability Underpin Ratings: Lloyds Banking Group plc's (LBG) Long-Term Issuer Default Rating (IDR) and Viability Rating (VR) reflect its strong business profile in the UK, where the group maintains solid retail and business banking franchises. The ratings also reflect strong core profitability and solid capitalisation and funding profiles.

Weak Economic Outlook: Fitch Ratings expects a recession, higher interest rates, high inflation and rising unemployment to push credit losses up later this year, albeit from low levels, and to slow loan growth. Net interest income growth will slow across banks, in our view, driven by materially higher funding costs and tight asset margins.

Leading Domestic Franchise: LBG is the largest domestically focused banking group in the UK, with a stable and diversified business model. Business diversification supports earnings stability through the cycle, although it is highly correlated with the UK operating environment.

Conservative Underwriting: Mortgage loans underpin credit risk and we view this asset class as low risk, due to conservative collateralisation (average loan to value: 42% at end-1Q23). However, the moderate share of higher-risk, unsecured consumer loans (6% of gross loans; including credit cards) and commercial lending (20%) increases risks in the tougher operating environment, although LBG's conservative underwriting standards mitigate these.

Asset Quality to Deteriorate: LBG's asset quality remained resilient in 1Q23. However, we expect the weaker economic outlook to increase the impaired loans ratio (end-1Q23: 2.3%) towards, but not materially above, 3% into 2024, given the group's sound underwriting standards and a high proportion of low-risk mortgage loans. Non-performance is likely to be higher in legacy, unsecured consumer finance and commercial lending, including to SMEs.

Solid Profitability: LBG's profitability is consistently strong and compares favourably with peers'. However, we expect LBG's operating profit/risk-weighted assets (RWAs) ratio (1Q23: 4.4%) to moderate, due to increasing funding costs, continued asset-margin pressures and our expectation of higher loan impairment charges. Lower business volumes and market uncertainty will weigh on fee and commission income, but LBG's record of controlling costs should support earnings in the inflationary environment.

Strong Capitalisation: Solid profitability and RWAs optimisation support LBG's capitalisation. We expect the common equity Tier 1 (CET1) ratio (end-1Q23: 14.1%) to gradually fall towards the bank's target of about 13.5% through higher capital distribution.

Stable Funding Profile: LBG's funding and liquidity profile is sound, supported by a large deposit base, leading retail franchise and good access to wholesale funding markets. Deposit outflows in 1Q23 led to a marginal increase in the loans/deposits ratio to 97% (end-1Q22: 95%), and we expect it to rise further as affordability pressures reduce savings rates and savers seek higher yields in a higher-interest-rate environment. LBG's wholesale funding needs are manageable.

The Short-Term IDRs of 'F1' for LBG and its rated subsidiaries are the lower of two options mapping to the Long-Term IDRs, as our assessment of the group's funding and liquidity profile does not warrant a higher Short-Term IDR.

Group VR Drives Ratings: LBG acts as the holding company for the group, and its VR is equalised with that of its core banks, Lloyds Bank plc (LB) and Bank of Scotland Plc (BOS), reflecting LBG's high integration with the group, and its low holding-company double leverage. The Long-Term IDRs of LBG's rated subsidiaries are one notch above LBG's VR to reflect available resolution debt buffers.

Ratings

Foreign Currency	
Long-Term IDR	Α
Short-Term IDR	F1
Viability Rating	а
Government Support Rating	ns

Sovereign Risk (United Kingdom)

Long-Term Foreign-Currency IDR	AA-
Long-Term Local-Currency IDR	AA-
Country Ceiling	AAA

IDR	
Long-Term Local-Currency IDR	AA-
Country Ceiling	AAA
Outlooks	
Long-Term Foreign-Currency IDR	Stable
Sovereign Long-Term Foreign- Currency IDR	Negative
Sovereign Long-Term Local- Currency IDR	Negative

Applicable Criteria

Bank Rating Criteria (September 2022)

Related Research

Fitch Affirms Lloyds Banking Group at 'A'; Outlook Stable (December 2022)

Stable Rating Outlooks for Major UK Banks **Despite Deteriorating Sector Outlook** (December 2022)

Global Banks 2023 Outlook Compendium (January 2023)

Fitch Affirms United Kingdom at 'AA-'; Outlook Negative (December 2022)

Global Economic Outlook (March 2023)

Major UK Banks' Strong Performance to Soften as Funding Costs, Impairments Rise (May 2023)

UK Banks' Net Interest Margins Are Close to Peaking (February 2023)

Analysts

Husevin Sevinc +44 20 3530 1027 huseyin.sevinc@fitchratings.com

Maria Shishkina +44 20 3530 1379 maria.shishkina@fitchratings.com

1

Update | 24 May 2023 fitchratings.com



Rating Sensitivities

Factors that Could, Individually or Collectively, Lead to Negative Rating Action/Downgrade

LBG's ratings are primarily sensitive to its VR. LBG retains rating headroom, even in the case of a one-notch downgrade of the operating environment score for UK banks to 'a+' from 'aa-'. However, the VR could come under pressure if the operating environment deteriorated more significantly than we expect, resulting in the four-year average impaired loans ratio increasing above 3% without a clear path to reduction, and there being significant and sustained deterioration in operating profit to below 1.5% of RWAs that also led to the CET1 ratio falling below LBG's target of 13.5% on a sustained basis.

Factors that Could, Individually or Collectively, Lead to Positive Rating Action/Upgrade

An upgrade of the VR is unlikely given the weaker macroeconomic outlook in the UK and the negative outlooks on the operating environment score and the UK sovereign. Over the medium term, and with a stabilisation of the operating environment at the current level, an upgrade of LBG's VR could result from an improvement in asset quality and continued record of strong profitability, which together could support our assessment of LBG's capitalisation, particularly in terms of the group's sustained internal capital generation capacity.

Other Debt and Issuer Ratings

Issuer Ratings (Including Main Issuing Entities)

Rating level	LBG	LB	BOS	HBOS plc	LBCM	LBCMW
Long-Term IDR/outlook	A/Stable	A+/Stable	A+/Stable	A+/Stable	A+/Stable	A+/Stable
Short-Term IDR	F1	F1	F1	F1	F1	F1
Viability Rating	а	а	а	-	-	-
GSR ^a /SSR ^b	nsª	nsª	ns ^a	a ^b	a ^b	a ^b
Derivative Counterparty Rating	-	-	-	-	A+(dcr)	-

LB, BOS and HBOS are the ring-fenced entities of the group and Lloyds Bank Corporate Markets plc (LBCM) and Lloyds Bank Corporate Markets Wertpapierhandelsbank GmbH (LBCMW) are the group's non-ring-fenced entities

Opco Rating Uplift

The 'A+' Long-Term IDRs of LB and BOS are notched up once from their VRs to reflect the presence of a large (more than 10% of RWAs) buffer of qualifying junior debt and senior holding company debt downstreamed in a subordinated manner, underpinned by minimum requirement for own fund and eligible liabilities regulations. We also incorporate this benefit into the IDRs of HBOS, LBCM and LBCMW. The latter have not been assigned VRs as Fitch believes that these entities cannot be assessed meaningfully on a standalone basis. Their IDRs reflect a very high probability of shareholder support from LBG, if needed.

The 'a' Shareholder Support Ratings of HBOS, LBCM and LBCMW reflect a very high probability of shareholder support in case of need, given the issuers' strategic roles in the wider group, their high level of ownership by LBG, and reputational risks for LBG in case of their potential default.

Debt Ratings, Derivative Counterparty Rating (DCR)

Rating level	LBG	LB	BOS	HBOS plc	LBCM
Senior unsecured debt	A/F1	A+/F1	A+	A+	A+/F1
Tier 2 subordinated debt	BBB+	BBB+		BBB+	-
Legacy upper Tier 2	BBB	BBB	BBB	BBB	-
Legacy innovative Tier 1 non-discretionary/preference stock	BBB-	-	-	-	-
Additional Tier 1 debt	BBB-	-	-	-	-

LB, BOS and HBOS are the ring-fenced entities of the group and Lloyds Bank Corporate Markets plc (LBCM) and Lloyds Bank Corporate Markets Wertpapierhandelsbank (LBCMW) are the group's non-ring-fenced entities Source: Fitch Ratings

^a Government Support Rating

^b Shareholder Support Rating

Source: Fitch Ratings



The long-term senior unsecured debt and DCR of LBG and of its subsidiaries, where available, are in line with the respective Long-Term IDRs.

Tier 2 debt issued by LBG, Lloyds Bank plc and HBOS is rated two notches below their VRs (LBG's VR for HBOS). This is the baseline notching under our criteria, reflecting high loss severity for this type of debt.

The ratings of legacy upper Tier 2 subordinated debt issued by LBG, LB, HBOS and BOS are notched down three times: twice for loss severity and once for incremental non-performance risk.

Additional Tier 1 and legacy Tier 1 and preferred stock issued by LBG are four notches below the anchor VR, two each for loss severity and incremental non-performance risk. Our assessment is based on the group operating with a CET1 ratio comfortably above the maximum distributable amount thresholds and we expect this will continue.

Significant Changes from Last Review

Higher Funding Costs and Impairment Charges to Soften Performance

LBG's performance remained solid in 1Q23, with a strong operating profit/RWAs of 4.4%. A significant increase in net interest income yoy as a result of higher policy rates more than offset moderately higher risk charges, resulting in a 40% increase in operating profit yoy. Gross loans contracted in 1Q23, largely due to a sale of a legacy mortgage portfolio. Deposits decreased by 2% yoy, more so in retail current accounts, given higher spending and increased competition for savings. The bank is proactively managing deposit movements and holds a substantial liquidity buffer (high-quality liquid assets of GBP140.5 billion, or 30% of customer deposits) together with significant central bank borrowing capacity.

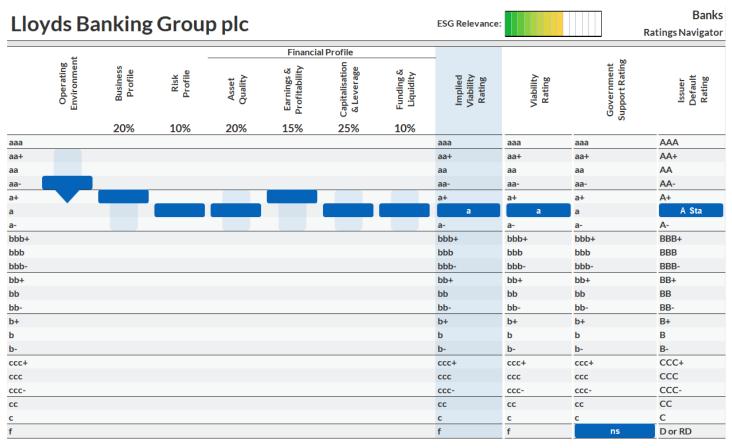
We expect the higher-interest-rate environment to continue to support the bank's strong profitability. However, for the rest of the year the incremental benefit will gradually be eroding by the increasing pass-through rate on deposits together with the increasing share of interest-bearing deposits, while asset margins, particularly on mortgage loans, remain tight due to competitive pressures.

LBG's underlying asset quality remained resilient in 1Q23. The increase in 1Q23 impairment charges yoy was largely driven by credit deterioration in the legacy mortgage book, additional charges on a pre-existing corporate default case and stage 1 loans. Non-legacy assets performed well, with the stage 3 ratio unchanged at 2.3% in 1Q23. We expect it to edge up towards 3% later this year, especially as unemployment increases. The bank is guiding for loan impairment charges/gross loans of about 30bp in 2023, broadly in line with our expectations, barring a worse-than-expected deterioration in the UK operating environment.

LBG's CET1 ratio was 14.1% at end-March 2023, and we expect it to gradually fall towards the management's ongoing target of about 13.5% by end-2024 with the distribution of excess capital. Strong profitability and excess capital provide headroom against economic uncertainty.



Ratings Navigator



The Key Rating Driver (KRD) weightings used to determine the implied VR are shown as percentages at the top. In cases where the implied VR is adjusted upwards or downwards to arrive at the VR, the KRD associated with the adjustment reason is highlighted in red. The shaded areas indicate the benchmark-implied scores for each KRD.

VR - Adjustments to Key Rating Drivers

The operating environment score of 'aa-' is at the lower end of the range because it is constrained by the UK sovereign rating of 'AA-'/Negative (negative).



Financials

Financial Statements

	31 Mar :	23	31 Dec 22	31 Dec 21	31 Dec 20
	3 months - 1st	3 months - 1st			
	quarter	quarter	Year end	Year end	Year end
	(USDm)	(GBPm)	(GBPm)	(GBPm)	(GBPm)
	Unaudited	Unaudited	Audited - unqualified	Audited - unqualified	Audited - unqualified
Summary income statement			-		
Net interest and dividend income	4,375	3,535.0	13,957.0	9,366.0	10,749.0
Net fees and commissions	n.a.	n.a.	1,503.0	1,423.0	1,160.0
Other operating income	1,556	1,257.0	2,749.0	5,535.0	3,217.0
Total operating income	5,930	4,792.0	18,209.0	16,324.0	15,126.0
Operating costs	2,818	2,277.0	9,781.0	10,802.0	9,656.0
Pre-impairment operating profit	3,112	2,515.0	8,428.0	5,522.0	5,470.0
Loan and other impairment charges	301	243.0	1,500.0	-1,380.0	4,155.0
Operating profit	2,812	2,272.0	6,928.0	6,902.0	1,315.0
Other non-operating items (net)	-15	-12.0	n.a.	n.a.	-89.0
Tax	766	619.0	1,373.0	1,017.0	-161.0
Net income	2,031	1,641.0	5,555.0	5,885.0	1,387.0
Other comprehensive income	n.a.	n.a.	-6,829.0	-950.0	110.0
Fitch comprehensive income	2,031	1,641.0	-1,274.0	4,935.0	1,497.0
	, , , , , , , , , , , , , , , , , , , ,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	, , , , , , , , , , , , , , , , , , , ,	,	,
Summary balance sheet					
Assets					
Gross loans	565,715	457,126.0	459,417.0	452,387.0	445,960.0
- Of which impaired	12,930	10,448.0	10,753.0	8,694.0	9,089.0
Loan loss allowances	6,007	4,854.0	4,518.0	3,820.0	5,760.0
Net loans	559,708	452,272.0	454,899.0	448,567.0	440,200.0
Interbank	n.a.	n.a.	10,632.0	7,001.0	8,060.0
Derivatives	n.a.	n.a.	24,753.0	22,051.0	29,613.0
Other securities and earning assets	n.a.	n.a.	267,506.0	306,733.0	295,608.0
Total earning assets	559,708	452,272.0	757,790.0	784,352.0	773,481.0
Cash and due from banks	n.a.	n.a.	91,388.0	76,420.0	73,257.0
Other assets	536,388	433,428.0	28,651.0	25,753.0	24,531.0
Total assets	1,096,096	885,700.0	877,829.0	886,525.0	871,269.0
Liabilities	<u> </u>				
Customer deposits	585,484	473,100.0	475,331.0	476,344.0	450,651.0
Interbank and other short-term funding	n.a.	n.a.	86,877.0	66,851.0	72,268.0
Other long-term funding	n.a.	n.a.	64,101.0	69,394.0	82,563.0
Trading liabilities and derivatives	n.a.	n.a.	30,760.0	26,221.0	34,963.0
Total funding and derivatives	585,484	473,100.0	657,069.0	638,810.0	640,445.0
Other liabilities	451,333	364,700.0	172,769.0	192,414.0	178,706.0
Preference shares and hybrid capital	n.a.	n.a.	5,767.0	8,055.0	8,611.0
Total equity	59,279	47,900.0	42,224.0	47,246.0	43,507.0
Total liabilities and equity	1,096,096	885,700.0	877,829.0	886,525.0	871,269.0
Exchange rate		SD1 = GBP0.80805		USD1 = GBP0.74438	USD1 = GBP0.745156



Key Ratios

	31 Mar 23	31 Dec 22	31 Dec 21	31 Dec 20
Ratios (annualised as appropriate)				
Profitability				
Operating profit/risk-weighted assets	4.4	3.3	3.5	0.7
Net interest income/average earning assets	2.4	1.8	1.3	1.7
Non-interest expense/gross revenue	47.5	53.7	66.2	63.8
Net income/average equity	14.8	12.6	13.0	3.2
Asset quality				
Impaired loans ratio	2.3	2.3	1.9	2.0
Growth in gross loans	-0.5	1.6	1.4	0.5
Loan loss allowances/impaired loans	46.5	42.0	43.9	63.4
Loan impairment charges/average gross loans	0.2	0.3	-0.3	0.9
Capitalisation				
Common equity Tier 1 ratio	14.1	15.1	17.3	16.2
Fully loaded common equity Tier 1 ratio	14.0	14.9	16.9	15.0
Fitch Core Capital ratio	n.a.	n.a.	n.a.	n.a.
Tangible common equity/tangible assets	5.4	3.4	4.3	4.0
Basel leverage ratio	4.8	4.9	5.2	5.3
Net impaired loans/common equity Tier ¹	18.8	19.6	14.4	10.1
Net impaired loans/Fitch Core Capital	n.a.	n.a.	n.a.	n.a.
Funding and liquidity				
Gross loans/customer deposits	96.6	96.7	95.0	99.0
Liquidity coverage ratio	143.0	144.0	135.0	136.0
Customer deposits/total non-equity funding	100.0	74.4	75.8	72.5
Net stable funding ratio	129.0	n.a.	n.a.	n.a.
Source: Fitch Ratings	·			



Support Assessment

Commercial Banks: Government Supp	oort				
Typical D-SIB GSR for sovereign's rating level (assuming high propensity)	a or a-				
Actual jurisdiction D-SIB GSR	ns				
Government Support Rating	ns				
Government ability to support D-SIBs					
Sovereign Rating	AA-/ Negative				
Size of banking system	Negative				
Structure of banking system	Negative				
Sovereign financial flexibility (for rating level)	Positive				
Government propensity to support D-SIBs					
Resolution legislation	Negative				
Support stance	Negative				
Government propensity to support bank					
	Neutral				
Systemic importance					
Systemic importance Liability structure	Neutral				

The GSRs of 'no support' for LBG, LB and BOS reflect Fitch's view that senior creditors cannot rely on extraordinary support from the UK authorities if these issuers become non-viable, due to UK legislation and regulations that provide a framework requiring senior creditors to participate in losses after a failure.



Environmental, Social and Governance Considerations

Fitch Ratings		Lloyds Banking Group	plc						Ra	Banks tings Navigator
Credit-Relevant ESG Derivat	ion								Overal	I ESG Scale
Lloyds Banking Group plc has 5 ESG		-	mis-selling, repossession/foreclosure practices, consumer data	key	driver	0	issu	es	5	. 200 000.0
protection (data securi	ity) but th	is has very low impact on the rating. In to the rating and is not currently a driver.	3 , 1,	dr	iver	0	issu	es	4	
				potenti	ial driver	5	issu	es	3	
						4	4 issues 2			
				not a rai	ting driver	5	issu	es	1	
Environmental (E)										
General Issues	E Score	e Sector-Specific Issues	Reference	ES	icale	1 u	and Thin D			
GHG Emissions & Air Quality	1	n.a.	n.a.	5		ESG sc		from 1 to		on a 15-level color (1) is least relevant.
Energy Management	1	n.a.	n.a.	4		tables br hand box	eak out the shows the	individual con aggregate E	nponents o	I Governance (G) if the scale. The right- core. General Issues ctor-Specific Issues
						unique to each se	a particula ctor-specific	ar industry g issue. The	roup. Scores	es are assigned to signify the credit- the issuing entity's
Water & Wastewater Management	1	n.a.	n.a.	3		overall co within w	redit rating.	The Referen orresponding	ice box hig	hlights the factor(s) es are captured in
Waste & Hazardous Materials Management; Ecological Impacts	1	n.a.	n.a.	2		The Cre	dit-Relevan	nt ESG Deriv	he credit re	e shows the overall levance of combined . The three columns
Exposure to Environmental Impacts	2	Impact of extreme weather events on assets and/or operations and corresponding risk appetite & management; catastrophe risk; credit concentrations	Business Profile (incl. Management & governance); Risk Profile; Asset Quality	1		to the left sub-comp some of	of the overa conent ESG the main ES	all ESG score S scores. The SG issues that	e summarize e box on t at are drive	e the issuing entity's he far left identifies s or potential drivers nding with scores of
0i-1(0)								s a brief expl		
Social (S) General Issues	S Score	e Sector-Specific Issues	Reference	SS	icale					veloped from Fitch's
Human Rights, Community Relations, Access & Affordability		Services for underbanked and underserved communities: SME and community development programs; financial literacy programs	Business Profile (incl. Management & governance); Risk Profile	5		Issues d United N	raw on the ations Princ	classificatio	n standard ponsible Inv	and Sector-Specific s published by the sesting (PRI) and the SASB).
Customer Welfare - Fair Messaging, Privacy & Data Security	3	Compliance risks including fair lending practices, mis- selling, repossession/foreclosure practices, consumer data protection (data security)	Operating Environment; Business Profile (incl. Management & governance); Risk Profile	4						elow refer to Sector e 1 of the navigator.
Labor Relations & Practices	2	Impact of labor negotiations, including board/employee compensation and composition	Business Profile (incl. Management & governance)	3						
Employee Wellbeing	1	n.a.	n.a.	2						
Exposure to Social Impacts	2	Shift in social or consumer preferences as a result of an institution's social positions, or social and/or political disapproval of core banking practices	Business Profile (incl. Management & governance); Financial Profile	1						
Governance (G)							CREDI	T-RELEVA	NT ESG S	CALE
General Issues	G Scor	e Sector-Specific Issues	Reference	G S	cale		How relev	ant are E, S overall cred	and G issu	
Management Strategy	3	Operational implementation of strategy	Business Profile (incl. Management & governance)	5		5	S	significant imp	act on the ra	g driver that has a ating on an individual r" relative importance
Governance Structure	3	Board independence and effectiveness; ownership concentration; protection of creditor/stakeholder rights; legal /compliance risks; business continuity; key person risk; related party transactions	Business Profile (incl. Management & governance); Earnings & Profitability; Capitalisation & Leverage	4		4	a	an impact on t	he rating in e Equivalent to	y rating driver but has combination with "moderate" relative or.
Group Structure	3	Organizational structure; appropriateness relative to business model; opacity; intra-group dynamics; ownership	Business Profile (incl. Management & governance)	3		3	i	mpact or activ n no impact or	ely manage n the entity r	, either very low d in a way that results ating. Equivalent to within Navigator.
Financial Transparency	3	Quality and frequency of financial reporting and auditing processes	Business Profile (incl. Management & governance)	2		2		rrelevant to the sector.	e entity rating	g but relevant to the
				1		1		rrelevant to the sector.	e entity rating	g and irrelevant to the

Unless otherwise disclosed in this section, the highest level of ESG credit relevance is a score of '3'. This means ESG issues are credit neutral or have only a minimal credit impact on the entity, either due to their nature or the way in which they are being managed by the entity. For more information on Fitch's ESG Relevance Scores, visit www.fitchratings.com/esg



For information on the solicitation status of the ratings included within this report, please refer to the solicitation status shown in the relevant entity's summary page of the Fitch Ratings website.

For information on the participation status in the rating process of an issuer listed in this report, please refer to the most recent rating action commentary for the relevant issuer, available on the Fitch Ratings website.

DISCLAIMER & DISCLOSURES

All Fitch Ratings (Fitch) credit ratings are subject to certain limitations and disclaimers. Please read these limitations and disclaimers by following this link: https://www.fitchratings.com/rating-definitions-document details Fitch's rating definitions for each rating scale and rating categories, including definitions relating to default. Published ratings, criteria, and methodologies are available from this site at all times. Fitch's code of conduct, confidentiality, conflicts of interest, affiliate firewall, compliance, and other relevant policies and procedures are also available from the Code of Conduct section of this site. Directors and shareholders' relevant interests are available at https://www.fitchratings.com/site/regulatory. Fitch may have provided another permissible or ancillary service to the rated entity or its related third parties. Details of permissible or ancillary service(s) for which the lead analyst is based in an ESMA- or FCA-registered Fitch Ratings company (or branch of such a company) can be found on the entity summary page for this issuer on the Fitch Ratings website.

In issuing and maintaining its ratings and in making other reports (including forecast information), Fitch relies on factual information it receives from issuers and underwriters and from other sources Fitch believes to be credible. Fitch conducts a reasonable investigation of the factual information relied upon by it in accordance with its ratings methodology, and obtains reasonable verification of that information from independent sources, to the extent such sources are available for a given security or in a given jurisdiction. The manner of Fitch's factual investigation and the scope of the third-party verification it obtains will vary depending on the nature of the rated security and its issuer, the requirements and practices in the jurisdiction in which the rated security is offered and sold and/or the issuer is located, the availability and nature of relevant public information, access to the management of the issuer and its advisers, the availability of pre-existing third-party verifications such as audit reports, agreed-upon procedures letters, appraisals, actuarial reports, engineering reports, legal opinions and other reports provided by third parties, the availability of independent and competent third-party verification sources with respect to the particular security or in the particular jurisdiction of the issuer, and a variety of other factors. Users of Fitch's ratings and reports should understand that neither an enhanced factual investigation nor any third-party verification can ensure that all of the information Fitch relies on in connection with a rating or a report will be accurate and complete. Ultimately, the issuer and its advisers are responsible for the accuracy of the information they provide to Fitch and to the market in offering documents and other reports. In issuing its ratings and its reports, Fitch must rely on the work of experts, including independent auditors with respect to financial statements and attorneys with respect to legal and tax matters. Further, ratings and forecasts

The information in this report is provided "as is" without any representation or warranty of any kind, and Fitch does not represent or warrant that the report or any of its contents will meet any of the requirements of a recipient of the report. A Fitch rating is an opinion as to the creditworthiness of a security. This opinion and reports made by Fitch and no individual, or group of individuals, is solely responsible for a rating or a report. The rating does not address the risk of loss due to risks other than credit risk, unless such risk is specifically mentioned. Fitch is not engaged in the offer or sale of any security. All Fitch reports have shared authorship. Individuals identified in a Fitch report were involved in, but are not solely responsible for, the opinions stated therein. The individuals are named for contact purposes only. A report providing a Fitch rating is neither a prospectus nor a substitute for the information assembled, verified and presented to investors by the issuer and its agents in connection with the sale of the securities. Ratings may be changed or withdrawn at any time for any reason in the sole discretion of Fitch. Fitch does not provide investment advice of any sort. Ratings are not a recommendation to buy, soll, or hold any security. Ratings do not comment on the adequacy of market price, the suitability of any security or a particular investor, or the tax-exempt nature or taxability of payments made in respect to any securities. Such fees generally vary from US\$1,000 to US\$750,000 (or the applicable currency equivalent). The assignment, publication, or dissemination of a rating by Fitch shall fee such fees are expected to vary from US\$1,000 to US\$1,500,000 (or the applicable currency equivalent). The assignment, publication, or dissemination of a rating by Fitch shall to constitute a consent by Fitch to use its name as an expert in connection with any registration statement filed under the United States securities laws, the Financial Services and Markets Act of 2000 of the Un

For Australia, New Zealand, Taiwan and South Korea only: Fitch Australia Pty Ltd holds an Australian financial services license (AFS license no. 337123) which authorizes it to provide credit ratings to wholesale clients only. Credit ratings information published by Fitch is not intended to be used by persons who are retail clients within the meaning of the Corporations Act 2001.

Fitch Ratings, Inc. is registered with the U.S. Securities and Exchange Commission as a Nationally Recognized Statistical Rating Organization (the "NRSRO"). While certain of the NRSRO's credit rating subsidiaries are listed on Item 3 of Form NRSRO and as such are authorized to issue credit ratings on behalf of the NRSRO (see https://www.fitchratings.com/site/regulatory), other credit rating subsidiaries are not listed on Form NRSRO (the "non-NRSROs") and therefore credit ratings issued by those subsidiaries are not issued on behalf of the NRSRO. However, non-NRSRO personnel may participate in determining credit ratings issued by or on behalf of the NRSRO.

Copyright © 2023 by Fitch Ratings, Inc., Fitch Ratings Ltd. and its subsidiaries. 33 Whitehall Street, NY, NY 10004. Telephone: 1-800-753-4824, (212) 908-0500. Fax: (212) 480-4435. Reproduction or retransmission in whole or in part is prohibited except by permission. All rights reserved.