# **Erste Group Bank AG**

Update

### **Key Rating Drivers**

Business Profile Drives Ratings: Erste Group Bank AG's (Erste) ratings reflect its leading franchise in retail and SME banking in Austria and central and eastern Europe (CEE), resilient asset quality, strong earnings, adequate capitalisation and stable funding. The group's material operations in CEE translate into a slightly weaker operating environment compared with that of peers that solely focus on Austria. As a result, Fitch Ratings expects stronger financial metrics from Erste than from purely Austrian-focused peers to maintain a Viability Rating (VR) of 'a'.

Business Profile Drives Ratings: Erste's universal-banking business model and leading franchise in retail and SME banking in Austria, the Czech Republic, Slovakia and Romania provide stability to the group's overall credit profile. We believe that these markets will continue to deliver good risk-adjusted returns over the cycle and view the bank's consistent strategic commitment to the region as positive for the ratings.

Good Risk Controls: Erste's generally prudent risk appetite is supported by the predominance of its Austrian and Czech exposures. Credit standards are broadly in line with market practice in Austria, but are more stringent than local peers' in CEE. Structural interest-rate and foreign-currency risks are modest. Political risks will remain a source of unpredictability but will remain manageable for Erste's earnings in CEE because the sound profits of the region's banking sector represent an attractive source of funds to fill the governments' budgetary gaps.

Resilient Asset Quality: Rising interest rates, high inflation and sluggish economic growth will likely increase the impaired loans ratio in the next two years. At the same time, we expect Erste's four-year average impaired loans ratio to remain below 4%, a level commensurate with the asset quality score of 'bbb+'. This is because asset quality benefits from adequate collateralisation of the loan book and comfortable impaired loans coverage.

Strong Profit Growth: Operating profit increased to 2.8% of risk-weighted assets (RWAs) in 1Q23 (1Q22: 1.8%), largely driven by rising interest rates. We expect higher interest rates to sustain revenue growth throughout 2023 and 2024, compensating cost inflation and higher loan impairment charges (LICs). We believe that Erste's earnings will continue to benefit from sound operating margins and growth potential in the group's markets in the long term.

Adequate Capitalisation: Erste's fully loaded common equity Tier1 (CET1) ratio of 14.4% at end-2022 is commensurate with the group's risk profile. Capitalisation benefits from strong retained earnings, low unreserved impaired loans, moderate concentrations and good capitalmarket access.

Higher credit risk could offset profit retention, pushing the CET1 ratio towards the management's 13.5% target, but we expect the bank to implement capital-enhancing measures should the ratio fall below its target. Erste's leverage ratio of 6.6% at end-2022 is higher than large European peers', due to the higher RWAs density in CEE.

Stable Funding; Comfortable Liquidity: Erste's funding benefits from its strong deposit franchise, which limits the bank's reliance on capital markets. Ample, high-quality liquidity reduces refinancing risk. We believe Erste's multiple-point-of-entry (MPE) resolution strategy limits intra-group contagion risk and supports the group's policy of largely self-funded CEE operations. The MPE strategy does not constrain intra-group support, in our view, as we expect Erste to pre-emptively support its foreign subsidiaries if needed.

Banks Universal Commercial Banks Austria

а

### Ratings

Foreign Currency	
Long-Term IDR	А
Short-Term IDR	F1
Derivative Counterparty Rating	A(dcr)

Viability Rating

Government Support Rating ns

#### Sovereign Risk (Austria)

Long-Term Foreign-Currency IDR AA+ 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 Erste Group at 'A'; Stable Outlook (October 2022) Erste Group Bank AG (November 2022)

#### Analysts

Roger Schneider +49 69 768076 242 roger.schneider@fitchratings.com

Markus Glabach +49 69 768076 195 markus.glabach@fitchratings.com

### **Rating Sensitivities**

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

We could downgrade the ratings if asset quality and operating profitability deteriorate substantially and on a sustained basis, most likely due to severe damage to the SME and corporate loan portfolios. In particular, an impaired loan ratio above 5% or operating profitability/RWAs materially below 2% on a sustained basis would lead to a downgrade.

We would also downgrade the ratings if the CET1 ratio falls below its 13.5% target on a sustained basis. Erste's Short-Term IDR would be downgraded if both Erste's Long-Term IDR and funding and liquidity score are downgraded.

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

Rating upside for Erste is limited in the medium term. An upgrade would require an improvement of Erste's operating environment in CEE, stronger asset-quality metrics and earnings generation, together with higher capital ratios.

### Other Debt and Issuer Ratings

_

Erste's Derivative Counterparty Rating (DCR) and senior preferred (SP) debt ratings are aligned with its Issuer Default Ratings (IDRs), and its senior non-preferred (SNP) debt is rated one notch below its Long-Term IDR to reflect the risk of below-average recoveries for SNP creditors in a resolution. This is because we expect Erste to use SP debt to meet its resolution buffer requirements, and we do not expect SNP and more junior debt to sustainably exceed 10% of the Austrian resolution group's RWAs. The Tier 2 debt is rated two notches below the VR to reflect subordinated creditors' above-average loss severity.

Erste's Short-Term IDR of 'F1' reflects the group's robust funding and liquidity, which we score at 'a'. The rating of Erste Finance (Delaware) LLC's commercial paper programme is aligned with Erste's Short-Term IDR, based on Erste's guarantee of the programme.

### **Significant Changes from Last Review**

### Strong 1Q23 Performance Underpins Earnings Growth

The increase in Erste's operating profit/RWAs ratio to 2.8% in 1Q23 (1Q22: 1.8%) was largely due to higher interest rates in all its markets.

Net interest income (NII) increased 27% yoy, driven by a sharp pick up in net interest margin (+36bp yoy to 2.50% in 1Q23,) and 12% loan growth in 2022, mainly from corporates and SMEs. Loan growth has subsided in 1Q23, with retail mortgages unchanged from the quarter before. Erste targets organic loan growth of about 5% in 2023 and acquired a EUR1.9 billion loan portfolio from Sberbank Europe's Czech subsidiary. Erste's management expects the reinvestment of the bank's large bond portfolio, along with slow repricing of deposits, to lead to about 15% yoy increase in NII in 2023.

Net commission income (NCI) increased 4.4% yoy, mainly driven by higher payment fees. We expect payment fees to grow also in the remainder of 2023 and view the bank's target of NCI growth of about 5% as plausible. The positive trading result was almost entirely offset by valuation losses in Erste's bond portfolio and own issuances.

Total non-interest expenses were up about 16% yoy, adjusted for a non-recurring EUR69 million deposit insurance contribution in 1Q22 related to the insolvency of Sberbank Europe AG. The increase was largely driven by higher bank levies and salaries. Erste expects operating expenses, excluding bank levies, to increase 9% yoy in 2023 due to inflationary pressures and currency appreciation in CEE.

Asset quality remained resilient in 1Q23, with impaired loans accounting for 2.1% of gross loans at end-1Q23, close to their record low. Erste released 4bp loan loss allowances in 1Q23 following recoveries and rating upgrades in its portfolio, and lowered its LIC guidance for 2023 to less than 25bp of gross loans (previously from guidance of less than 35bp). The revision mainly reflects the improved macroeconomic outlook and strong labour markets. We believe the



updated guidance is reasonable, as the bank maintains substantial EUR900 million management overlays and macroeconomic model provisions (44bp of end-1Q23 gross loans).

Erste's commercial real estate (CRE) portfolio of EUR37.3 billion accounted for 18% of net customer loans at end-1Q23, with 53% of the exposure related to Austrian-focused residential real estate with an average loan/value (LTV) ratio of 48%, a third of which related to low risk state-subsidised, non-profit housing associations. The remaining CRE portfolio comprises mainly retail and office properties with average LTVs of 50% and 57%, respectively, and a moderate share of development. LTVs are based on mortgage values, with material haircuts from market values.

Erste's fully loaded CET1 ratio (end-1Q23: 14%) comfortably exceeds the regulatory requirement for 2023 of 10.81% and the management's floor of 13.5%. Erste is seeking regulatory approval for a EUR300 million share buyback, which would lower the bank's CET1 ratio by about 20bp at end-1Q23.

#### Stable, Diversified Funding and Slower Loan Growth Limit Liquidity Deployment

The perception of Erste as a safe haven led to customer deposits increasing by 5% in 1Q23, mainly driven by corporate clients. Retail clients still accounted for 65% of customer deposits at end-1Q23. Erste also funded EUR2.6 billion in 1Q23 out of EUR4 billion planned for 2023 through two covered bonds and a green senior preferred bond issuance. The focus in the remaining of 2023 will be on resolution buffers-eligible instruments both in public and private placement format.

The bank's liquidity remains sound and comprised EUR43 billion cash and another EUR55.1 billion bonds (combined equal to about 30% of total assets), with EUR43 billion of the bank's bond portfolio held at amortised cost. Rising interest rates increased unrealised valuation losses to about EUR4.5 billion at end-1Q23 (equivalent to about one fifth of CET1 capital). However, the bonds' moderate average maturity of 4.7 years, along with Erste's large central bank cash holdings and stable funding profile, minimise the risk of fire sales. Erste had EUR15.2 billion outstanding central bank tenders (TLTRO) at end-1Q23, which will reduce to EUR6.8 billion at end-2023.

### **Ratings Navigator**

<b>Fitch</b> Ratings	Erste	Grou	up Ban	nk AG					ESG Relevance:			Banks Ratings Navigator
	_					Financia						
		Operating Environment	Business Profile	Risk Profile	Asset Quality	Earnings & Profitability	Capitalisation & Leverage	Funding & Liquidity	Implied Viability Rating	Viability Rating	Government Support	lssuer Default Rating
Navigator date: October 2022			20%	10%	20%	15%	25%	10%				
Last rating action: 17 Oct 2022	aaa								aaa	aaa	aaa	AAA
	aa+								aa+	aa+	aa+	AA+
Sector Details:	aa								aa	aa	aa	AA
Bank sector: Universal Commerce	aa-								aa-	aa-	aa-	AA-
Region: DM Europe	a+								a+	a+	a+	A+
Jurisdiction: Austria	a								а	а	a	A Sta
Sovereign IDR: AA+ Negative	a-								a-	a-	a-	A-
Last action: 07 Oct 22 Affirme	bbb+								bbb+	bbb+	bbb+	BBB+
Country Ceiling: AAA	bbb								bbb	bbb	bbb	BBB
Macro prudential indicator: 2	bbb-								bbb-	bbb-	bbb-	BBB-
Bank systemic indicator: None	bb+								bb+	bb+	bb+	BB+
	bb								bb	bb	bb	BB
Bank Rating History	bb-								bb-	bb-	bb-	BB-
Viability Rating (VR)	b+								b+	b+	b+	B+
17 Oct 22 a Affirme	b								b	b	b	В
27 Oct 21 a Affirme	b-								b-	b-	b-	B-
01 Dec 20 a Affirme	ccc+								ccc+	ccc+	ccc+	CCC+
Issuer Default Rating (IDR)	ccc								ccc	ccc	ccc	CCC
17 Oct 22 A Stable Affirme	ccc-								ccc-	ccc-	ccc-	CCC-
27 Oct 21 A Stable Affirme	сс								сс	сс	сс	CC
01 Dec 20 A Negative Affirme	с								с	с	с	С

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 'a' is below the 'aa' category implied score due to the following adjustment reason: international operations (negative).

The earnings & profitability score of 'a-' is above the 'bbb' category implied score due to the following adjustment reason: revenue diversification (positive)

The funding & liquidity score of 'a' is above the 'bbb' category implied score due to the following adjustment reason: deposit structure (positive)

## Financials

### **Financial Statements**

	31 Mar 2	23	31 Dec 22	31 Dec 21	31 Dec 20 Year end	
	3 months - 1st quarter	3 months - 1st quarter	Year end	Year end		
	(USDm)	(EURm)	(EURm)	(EURm)	(EURm)	
Summary income statement						
Net interest and dividend income	1,931	1,775	5,980	5,009	4,795	
Net fees and commissions	699	643	2,452	2,304	1,977	
Other operating income	88	81	63	397	390	
Total operating income	2,718	2,499	8,495	7,709	7,162	
Operating costs	1,651	1,518	4,973	4,617	4,441	
Pre-impairment operating profit	1,067	981	3,522	3,092	2,721	
Loan and other impairment charges	-23	-21	300	159	1,295	
Operating profit	1,089	1,002	3,222	2,933	1,426	
Other non-operating items (net)	2	1	0	0	-58	
Тах	202	186	556	525	343	
Net income	889	818	2,666	2,408	1,026	
Other comprehensive income	399	367	-119	-6	-161	
Fitch comprehensive income	1,288	1,184	2,547	2,402	864	

### Summary balance sheet

Assets					
Gross loans	224,761	206,677	206,043	184,206	170,053
- Of which impaired	4,624	4,252	4,210	4,415	4,599
Loan loss allowances	4,360	4,009	3,981	3,938	4,003
Net loans	220,402	202,668	202,062	180,268	166,050
Interbank	29,688	27,299	18,482	21,001	21,466
Derivatives	2,013	1,851	1,840	2,338	3,165
Other securities and earning assets	67,015	61,623	59,695	52,503	45,366
Total earning assets	319,117	293,441	282,078	256,110	236,047
Cash and due from banks	47,094	43,305	35,685	45,495	35,839
Other assets	6,716	6,176	6,102	5,823	5,508
Total assets	372.927	342.921	323.865	307.428	277.394

Liabilities					
Customer deposits	254,575	234,092	222,575	209,895	189,801
Interbank and other short-term funding	41,910	38,538	35,163	34,750	27,592
Other long-term funding	36,504	33,567	30,960	29,894	29,124
Trading liabilities and derivatives	3,811	3,504	3,636	2,783	2,814
Total funding and derivatives	336,800	309,701	292,333	277,322	249,332
Other liabilities	7,327	6,738	6,227	6,593	5,651
Preference shares and hybrid capital	2,432	2,236	2,236	2,236	2,733
Total equity	26,368	24,247	23,069	21,277	19,677
Total liabilities and equity	372,927	342,921	323,865	307,428	277,394
Exchange rate		USD1 = EUR0.91954	USD1 = EUR0.93756	USD1 = EUR0.884173	USD1 = EUR0.821963

Source: Fitch Ratings, Fitch Solutions, Erste Group Bank AG

# **Fitch**Ratings

### **Key Ratios**

31 Mar 23	31 Dec 22	31 Dec 21	31 Dec 20
· · · · ·	<u> </u>		
2.8	2.3	2.3	1.2
2.5	2.2	2.0	2.0
60.9	58.7	60.0	62.1
14.0	12.1	11.7	5.3
2.1	2.0	2.4	2.7
0.3	11.9	8.3	4.0
94.3	94.6	89.2	87.0
0.0	0.1	0.0	0.7
· · · ·	<u>.</u>		
14.1	14.4	14.8	14.5
14.0	14.2	14.5	14.2
6.6	6.6	6.5	6.6
6.2	6.6	6.5	6.7
1.2	1.1	2.5	3.5
· · · · ·	<u> </u>		
88.3	92.6	87.8	89.6
146.0	138.0	168.6	189.3
75.7	76.3	75.6	76.0
139.0	139.1	150.2	n.a.
	2.8 2.5 60.9 14.0 2.1 0.3 94.3 0.0 14.1 14.1 14.0 6.6 6.2 1.2 1.2 88.3 146.0 75.7	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c c c c c c c c c c c c c c c c c c c $

## **Fitch**Ratings

### Support Assessment

Commercial Banks: Government Suppo	ort
Typical D-SIB GSR for sovereign's rating level (assuming high propensity)	A+ to 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	Neutral
Structure of banking system	Neutral
Sovereign financial flexibility (for rating level)	Neutral
Government propensity to support D-SIBs	
Resolution legislation	Negative
Support stance	Neutral
Government propensity to support bank	
Systemic importance	Neutral
Liability structure	Neutral
Ownership	Neutral

The colours indicate the weighting of each KRD in the assessment.

Higher influence Moderate influence Lower influence

Erste's 'no support' Government Support Rating reflects Fitch's view that senior creditors can no longer rely on full extraordinary state support. This is driven by the EU's Bank Recovery and Resolution Directive and the Single Resolution Mechanism, which provide a resolution framework that is likely to require senior creditors participating in losses, if necessary, instead, or ahead, of a bank receiving sovereign support.

### **Environmental, Social and Governance Considerations**

### Overall ESG



	How relevant are E, S and G issues to the overall credit rating?							
5	Highly relevant, a key rating driver that has a significant impact on the rating on an individual basis. Equivalent to "higher" relative importance within Navigator.							
4	Relevant to rating, not a key rating driver but has an impact on the rating in combination with other factors. Equivalent to "moderate" relative importance within Navigator.							
3	Minimally relevant to rating, either very low impact or actively managed in a way that results in no impact on the entity rating. Equivalent to "lower" relative importance within Navigator.							
2	Irrelevant to the entity rating but relevant to the sector.							
1	Irrelevant to the entity rating and irrelevant to the sector.							

Reference

#### Environmental (E)

General Issues	Score	Impact	Sector-Specific Issues	Reference	E Sc	ale
GHG Emissions & Air Quality	1		n.a.	n.a.	5	
Energy Management	1		n.a.	n.a.	4	
Water & Wastewater Management	1		n.a.	n.a.	3	
Waste & Hazardous Materials Management; Ecological Impacts	1		n.a.	n.a.	2	
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	

#### Social (S)

Governance (G)

General Issues

Score Impact

General Issues	Score	Impact	Sector-Specific Issues	Reference
Human Rights, Community Relations, Access & Affordability	2		Services for underbanked and underserved communities: SME and community development programs; financial literacy programs	Business Profile (incl. Management & governance); Risk Profile
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
Labor Relations & Practices	2		Impact of labor negotiations, including board/employee compensation and composition	Business Profile (incl. Management & governance)
Employee Wellbeing	1		n.a.	n.a.
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

S Scale				
5				
4				
3				
2				
1				

Management Strategy	3		Business Profile (incl. Management & governance)
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
Group Structure	3	Organizational structure; appropriateness relative to business model; opacity; intra-group dynamics; ownership	Business Profile (incl. Management & governance)
Financial Transparency	3	Quality and frequency of financial reporting and auditing processes	Business Profile (incl. Management & governance)

Sector-Specific Issues

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.

The ratings above were solicited and assigned or maintained at the request of the rated entity/issuer or a related third party. Any exceptions follow below.

#### DISCLAIMER & DISCLOSURES

All Fitch Ratings (Fitch) credit ratings are subject to certain limitations and disclaimers. Please read these limitations and disclaimers by https://www.fitchratings.com/understandingcreditratings. following this link: In addition. the following 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 adult 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 free prote. 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 of financial and other information of current facts, ratings and forecast

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 are based on established criteria and methodologies that Fitch is continuously evaluating and updating. Therefore, ratings and reports are the collective work product of Fitch are no individuals, 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 or 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, sell, or hold any security. Ratings do not comment on the adequacy of market price, the suitability of any security for a particular investor, or the tax-exempt nature or taxability of payments made in respect to any security. Fitch receives fees from issuers, insurers, guarantors, other obligors, and underwriters for rating securities. Such fees generally vary from US\$1,000 to US\$1,500,000 (or the applicable currency equivalent) per issue. In certain cases, Fitch will rate all or a number of issues issued by a particular insurer or guarantor, for a single annual fee. Such fees are expected to vary fro

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's certedit ratings.com/site/regulatory), other credit rating subsidiaries are not listed on Form NRSRO (see https://www.fitchratings.com/site/regulatory). Note: credit rating subsidiaries are not listed on Form NRSRO (the "non-NRSROs") and therefore credit rating subsidiaries are not listed 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.