

FitchRatings

U.S. Public Finance Quick Reference Guide



Contents

About Fitch Ratings' U.S. Public Finance (USPF) Group	3
Business & Relationship Management Coverage	4
Main Rating Products	5
Fitch Credit Rating Process	6
Data/Information Needed for a Credit Rating	7
Fitch Credit Rating Scales	8
U.S. Public Finance Sector Overview	9
Key Benefits of Engaging with Fitch	10
Issuer Portal	11
Local Government Rating Model (LGRM)	12
Fitch Analytical Comparative Tool (FACT)	13
Fitch Analytical Stress Test (FAST)	14
Environmental, Social and Governance (ESG) Factors	15
Investor Outreach	16
Appendix	17
Contact Us	20
Regional Offices	21



About Fitch Ratings' U.S. Public Finance (USPF) Group

Fitch analysts have always provided the world's largest institutional investors in-depth analysis, comprehensive research, and forward-looking ratings. They are constantly working to meet the changing needs of the credit markets in this period of uncertainty and volatility. We are committed to providing insightful commentary and transparency to our credit ratings.

Located across the country to cover all areas of U.S. Public Finance, our senior analysts have an average of 16 years of industry experience. They are attuned to local legislative and legal issues and are poised to address the specific needs of regional markets.

Our Business Relationship Management Team provides issuers, bankers and rating advisors the highest level of business services to ensure a positive engagement process, as well as a productive long-term relationship with Fitch Ratings. The USPF BRM Group is highly experienced, leveraging their expertise as former rating analysts, bankers and advisors on the behalf of issuers seeking rating services. Our managers cover the State and Local Tax-Supported Sector and various Revenue Sectors, including Utilities (Public Power and Water & Sewer), Healthcare, Housing, Higher Education, Transportation, and Municipal Structured Finance. They bring their deep knowledge of the municipal markets to governmental and other entities across many sectors, regions and capital structures.



Saavan Gatfield
Managing Director
Head of U.S. Global Infrastructure
and Municipal Transportation
New York, NY



Jessica Soltz Rudd
Senior Director
Head of U.S. Public Finance
San Francisco, CA



Jack Archibald
Senior Director
U.S. Public Finance
New York, NY



Carmine Charles
Director
U.S. Public Finance
New York, NY



James Mitchell
Senior Director
U.S. Public Finance
Tampa, FL

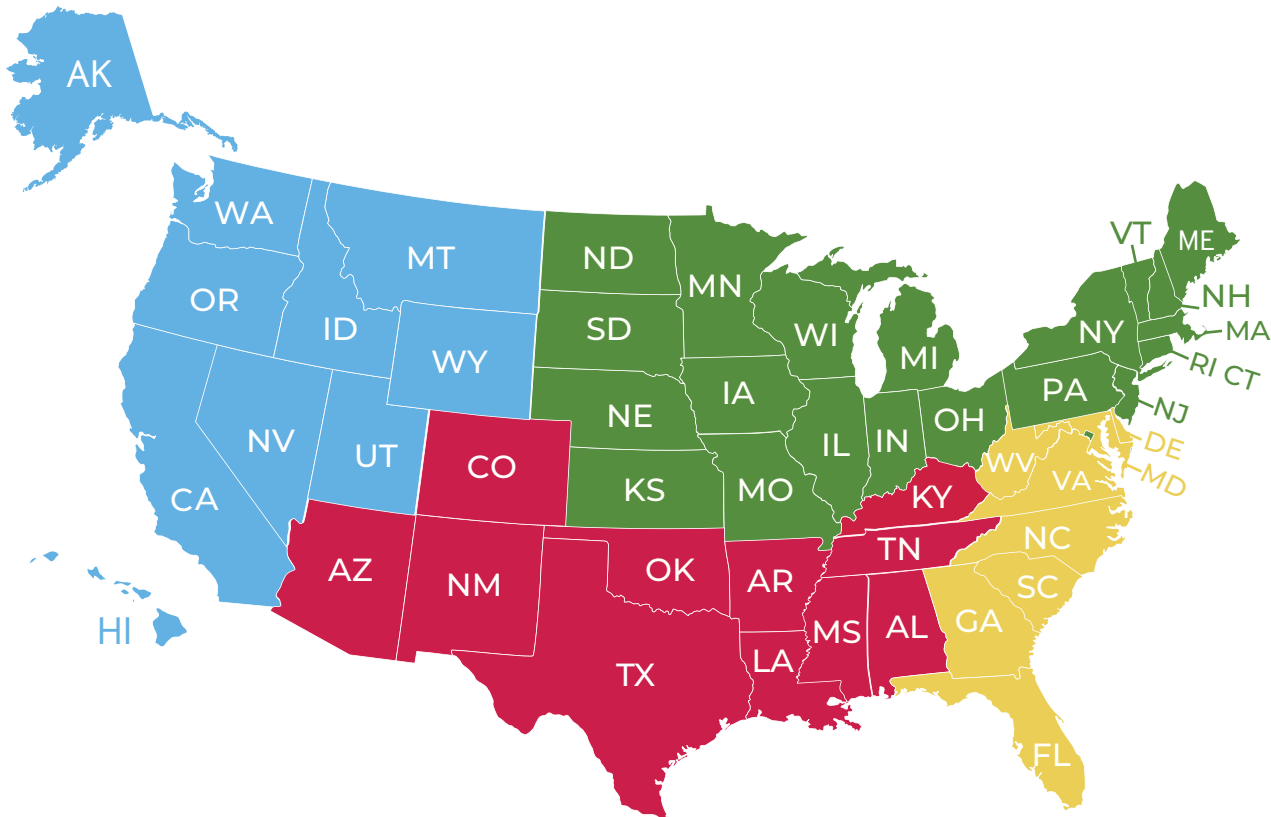


Richard Packard
Director
U.S. Public Finance
Austin, TX



Michele O'Brien
Senior Director, Global Investor Development
U.S. Public Finance
Chicago, IL

Business & Relationship Management Coverage



Regional & National Coverage

Jessica Soltz Rudd

Pacific/Mountain
Tax-Supported and Water & Sewer
National Housing
jessica.soltzrudd@fitchratings.com
415-732-7575 Office
415-535-5054 Cell

Richard Packard

South/Southwest
Tax-Supported and Water & Sewer
National Municipal Transportation
richard.packard@fitchratings.com
512-215-3728 Office
737-600-6322 Cell

Carmine Charles

Northeast/Midwest
Tax-Supported and Water & Sewer
National Higher Education and
Not-For-Profit
carmine.charles@fitchratings.com
212-908-0230 Office
917-446-5021 Cell

Saavan Gatfield

National Infrastructure
Municipal Transportation
saavan.gatfield@fitchratings.com
212-908-0542 Office
917-859-0144 Cell

Jack Archibald

National Public Power and States
jack.archibald@fitchratings.com
212-908-0664 Office
917-689-0305 Cell

James Mitchell

Southeast
Tax-Supported and Water & Sewer
National Healthcare
james.mitchell@fitchratings.com
941-921-4823 Office
941-356-4393 Cell

Main Rating Products

	Indicative Rating	Public Rating	Private Rating	Rating Assessment Service (RAS)	Credit Opinion
Description	<ul style="list-style-type: none"> Utilized for first time issuers and new securities to Fitch Confidential 	<ul style="list-style-type: none"> General purposes Financing purposes 	<ul style="list-style-type: none"> Non-public financing transactions 	<ul style="list-style-type: none"> Assessment of given scenarios Transaction specific Not limited to Fitch-rated entities Can consider multiple financing scenarios 	<ul style="list-style-type: none"> Opinion which omits one or more characteristics of a full rating
Reference	<ul style="list-style-type: none"> Point-in-Time (PiT) 	<ul style="list-style-type: none"> Monitored 	<ul style="list-style-type: none"> Monitored Point-in-time (PiT) 	<ul style="list-style-type: none"> Point-in-time (PiT) 	<ul style="list-style-type: none"> Typically Point-in-Time (PiT)
Notch Specific	<ul style="list-style-type: none"> Yes 	<ul style="list-style-type: none"> Yes 	<ul style="list-style-type: none"> Yes 	<ul style="list-style-type: none"> Yes 	<ul style="list-style-type: none"> Notch or category specific
Output	<ul style="list-style-type: none"> Confidential rating letter can be provided 	<ul style="list-style-type: none"> Rating Commentary Full report 	<ul style="list-style-type: none"> Confidential rating letter 	<ul style="list-style-type: none"> Confidential rating letter 	<ul style="list-style-type: none"> Confidential rating letter



Fitch Credit Rating Process

Link to: [Rating Process Video](#)



Data/Information Needed for a Credit Rating*

Audited Financial Statements: Audited Financial Statements will be requested (if not publicly available)

Budget: Current budget and upcoming budget (if available)

Debt: Information on any private debt

Dedicated Tax Bonds: Pledge revenue history, bond indenture and resolution, flow of funds, information on parity/subordinate debt outstanding or plans for future issuance

Labor: Information on labor unions/collective bargaining groups and contract terms

Pension Plan: If municipality operates its own pension plan, last three years of plan audits/valuations

POS: Preliminary Offering Statement (if applicable)

Refunding analysis: Refunding analysis (if applicable)

* If additional information is required, the analyst may contact you



Fitch Credit Rating Scales

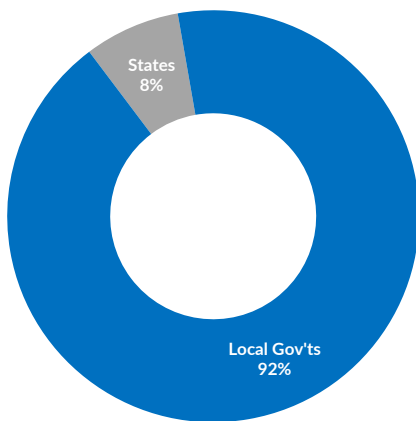
Quality	Long-Term Rating	Short-Term Rating
Highest Credit Quality	AAA	F1+
Very High Credit Quality	AA+	F1+
	AA	F1+
	AA-	F1+
High Credit Quality	A+	F1 or F1+
	A	F1 or F1+
	A-	F2 or F1
Good Credit Quality	BBB+	F2 or F1
	BBB	F3 or F2
	BBB-	F3
Speculative	BB+	B
	BB	B
	BB-	B
Highly Speculative	B+	B
	B	B
	B-	B
Substantial Credit Risk	CCC+ / CCC / CCC-	C
Very High Levels of Credit Risk	CC	C
Exceptionally High Levels of Credit Risk	C	C
Restricted Default Default	RD D	RD D

U.S. Public Finance Sector Overview

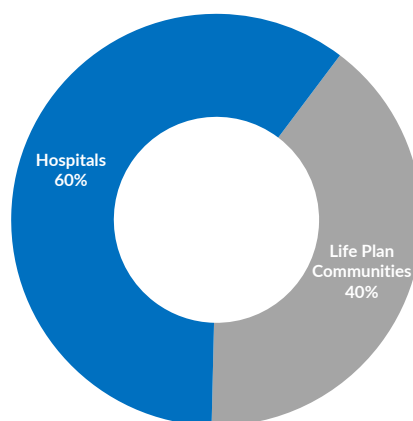
Sector	Portfolio Distribution
Tax-Supported	48%
Healthcare	19%
Water & Sewer	14%
Public Power	10%
Education & Nonprofits	7%
Community Development & Social Lending	2%

U.S. Public Finance by Subsector

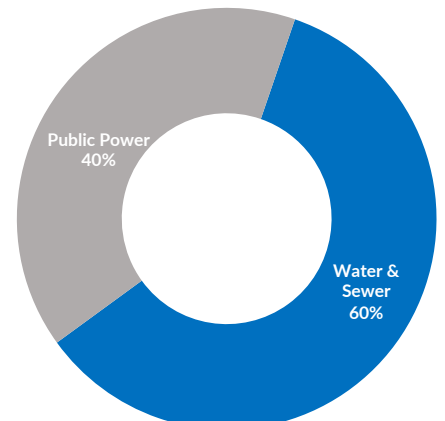
Tax-Supported



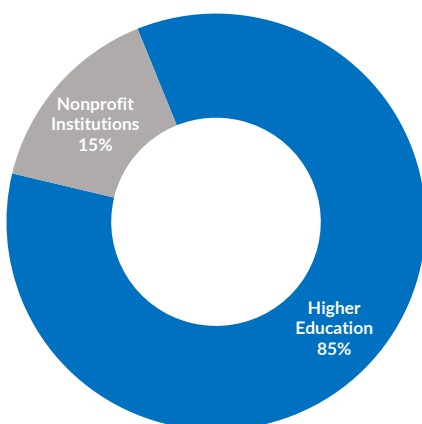
Healthcare



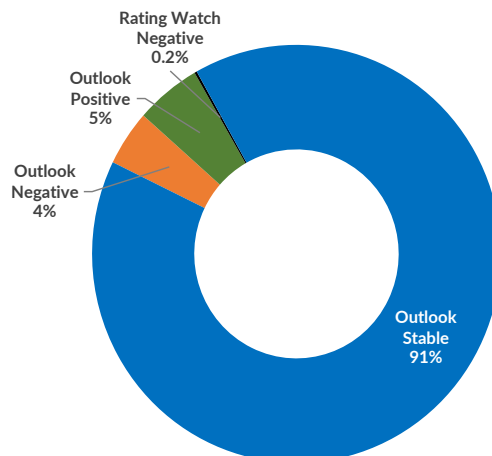
Utilities



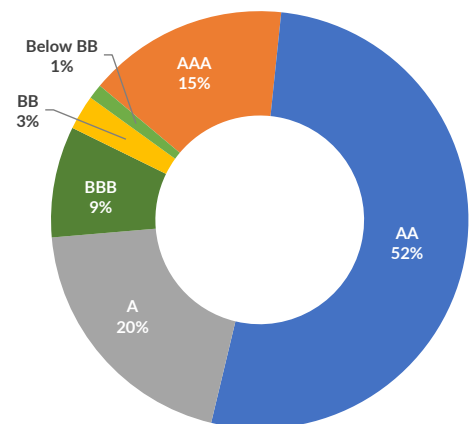
Education & Nonprofits



Subsector Distribution



Ratings Distribution



Key Benefits of Engaging with Fitch

Resources

[Medians](#)

[Issuer Portal](#)

[FACT](#)

[Criteria](#)

[Local Government Rating](#)

[FAST](#)

[Webinars](#)

[Model \(LGRM\)](#)

[ESG](#)

Sophisticated Tools

Issuer Portal

This is a dedicated customer service portal through which users will now have the ability to find all the latest Fitch Ratings content on their organizations or entities quickly and easily. Users will have access to the following features:

- Rating History
- Entity Peers
- Webinars
- Thought Leadership
- Research
- Multimedia

Local Government Rating Model (LGRM)

Fitch's U.S. Local Government Rating Model represents a comparative evaluation of an issuer's overall credit quality relative to the Fitch local government rating portfolio. This rating model will provide a quantitative, objective and consistent metric analysis.

Fitch Analytical Comparative Tool (FACT) (Tax-Supported and certain revenue sectors)

This Excel-based tool provides statistics and metrics for U.S. Public Finance issuers within a particular sector. The program allows for analyses of rating trends, custom peer groups, and individual agencies.

Fitch Analytical Stress Test (FAST) (Tax-Supported and certain revenue sectors)

A suite of tools covering U.S. Public Finance's Tax-Supported and Revenue Sectors. Our scenario analysis framework incorporates two distinct elements that work together to highlight how an issuer's financial position can change through an economic or market cycle and what level of change can be considered consistent with the existing rating.

FAST supports our through-the-cycle analysis and provides analytical information used in the rating process. However, FAST by itself does not generate ratings, nor should the output be considered a forecast or a precise estimate.

Environmental, Social, and Governance (ESG) Relevance Scores

Fitch launched a new integrated scoring system which shows how ESG factors impact individual credit rating decisions. We are the only credit rating agency currently offering this level of granularity or transparency about the impact of ESG on fundamental credit.

Issuer Portal

A customized hub that allows you to conveniently locate the most pertinent information

As shown below, each issuer now has its own Issuer Portal 'landing page' with the most relevant research in one centralized location.

To access your Issuer Portal, go to: <https://login.fitchconnect.com/login>

Username is your corporate email address and select "Forgot Password" to create a new password.

The menu bar allows you to create bookmarks, set up email alerts, build portfolios of transactions to monitor, and change your settings

The most up-to-date ratings and public finance issuer information will be displayed for the Issuer credit listed on the top of the page

Your dedicated Fitch business and analytical team contacts will be listed on the center of the page so that it's easy to contact the correct person whenever you have a question or feedback.

The features and content of your customized Issuer Portal are now grouped in several tabs, which makes it easier to locate information on the homepage.

Below is the list of the tabs included on your Issuer Portal homepage:

- Ratings History
- Instrument Detail
- Entity Peers
- ESG Relevance Score
- Research
- Thought Leadership
- Multimedia
- Webinars
- Products and Services

FitchConnect Search [Q] Advanced [v]

Fitch Ratings

City of Contentment [General Government]

City of Contentment [General Government] v

CURRENT RATINGS

Fitch Ratings
A

Long Term Issuer Default Rating
Action Upgrade
06 Jul 2022
Rating Outlook Stable

Key Rating Drivers

- Revenue Framework aa
- Expenditure Framework a
- Long Term Liability Burden aa
- Operating Performance a

TRANSACTION PROFILE

Market Sector(s)	City General Obligation	Ultimate Parent	Headquarters
Country / Region	United States	Foreign Owned Subs	5th Floor, 1101 Market Street
Sovereign / Reg			UNITED STATES
Fitch Entity ID		SEC	
		ISS Ticker	
		ISIN	

BUSINESS & ANALYTICAL CONTACTS

BUSINESS Charles, Carmine Director +1 212 908 0230	ANALYTICAL McCue, Shannon Primary Rating Analyst +1 212 908 0593	ANALYTICAL Cane, Ewette Secondary Rating Analyst +1 212 908 0376
--	--	--

Ratings History | Instrument Detail | Entity Peers | ESG Relevance Score | Research | Thought Leadership | Multimedia | Webinars | Products and Services

RATINGS HISTORY

	Ratings	Rating Action	Rating Date
Long Term Issuer Default Rating	A	Upgrade	06 Jul 2022

ALERTS

No recent alerts.

PORTFOLIOS

This entity is cited in the following Portfolios:

Cities Portfolio including City of Contentment

Refinancing Portfolio

Fitch Group is a global leader in financial information services with operations in more than 30 countries. Fitch Group is comprised of: Fitch Ratings, Fitch Solutions and Fitch Learning. Explore our other businesses below or contact your Primary Relationship Manager for more information.

Fitch Solutions Research: For more than 30 years, our forecasts, data and analysis have been used by multinationals, governments and financial institutions to guide critical strategic, tactical and investment decisions.

Fitch Connect: Access comprehensive credit intelligence, including the world's leading bank fundamental data set, ratings and research covering the fixed-income universe, as well as financial data on insurance firms, corporates and sovereigns.

Fitch Learning: partners with clients to create knowledge and skills and enhance conduct. Our people advise and build learning solutions to accelerate the achievements of the individual and the company, across the entire employee lifecycle.

BACK TO TOP

Contact Client Services

New York (20.05)	+1 212 908 0800	Credit Ratings and Research
London (11.05)	+44 (0)20 3300 3440	Government Risk Ratings
Hong Kong (16.05)	+852 2369 9999	Fitch Ratings Definitions
Singapore (16.05)	+65 6396 7281	CDS data
Tokyo (19.05)	+81 3 5568 2715	provided by World CDS Pricing, updated nightly and represents the most liquid dataset

Data Sourcing

Fitch Solutions

Copyright © 2022 Fitch Solutions, Inc., Fitch Ratings, Inc. and their subsidiaries. TERMS OF USE | PRIVACY POLICY | THIRD PARTY RATINGS

Contact us for a demo or to sign up for access to the USPF Issuer Portal.

Regional Head for U.S. Public Finance
Jessica Soltz Rudd
415-732-7575 | jessica.soltzrudd@fitchratings.com

Senior Market Research Associate
Sohan Patwary
212-908- 0880 | sohan.patwary@fitchratings.com

Local Government Rating Model (LGRM)

The U.S. Local Government Rating Model (LGRM) is used to assign credit ratings for U.S. local governments. The LGRM replicates the principal elements of the U.S. Public Finance Local Government Rating Criteria and combines different quantitative inputs, weighting the various factors to arrive at a Metric Profile (MP) for the subject issuer. A series of Additional Analytical Factors (AAF) are also considered. Consequently, the LGRM incorporates both of these elements to generate the Model Implied rating (MIR).

Issuer Type Current Fiscal Year Metric Profile Metric Profile Mapping		Fitch City City General Obligation AA, R0:Sta (2023/2024) 2021 8.09 AA	Financial Profile Demographic & Economic Strength Long-Term Liability Burden AAF Notching Total(4) MIR - Metric MIR - Mapping	0.0 0.0 0.0 0.0 8.09 AA	Model Version 319 Cart ID 752002 Model Status <div>RECOMMENDED FINAL</div>	<div>Run Model</div> <div>Copy MP to Summary</div> <div>Refresh FDR Data</div>	Issuer Position Within AA Rating <div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div>				
--	--	---	--	--	--	--	--	--	--	--	--

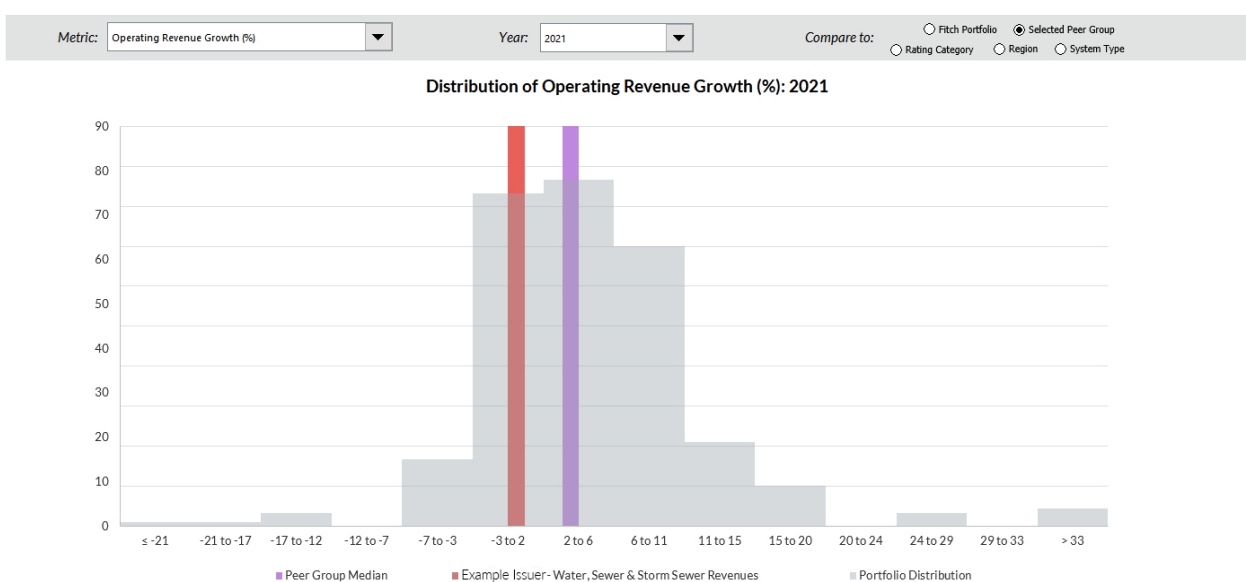


Fitch Analytical Comparative Tool (FACT)

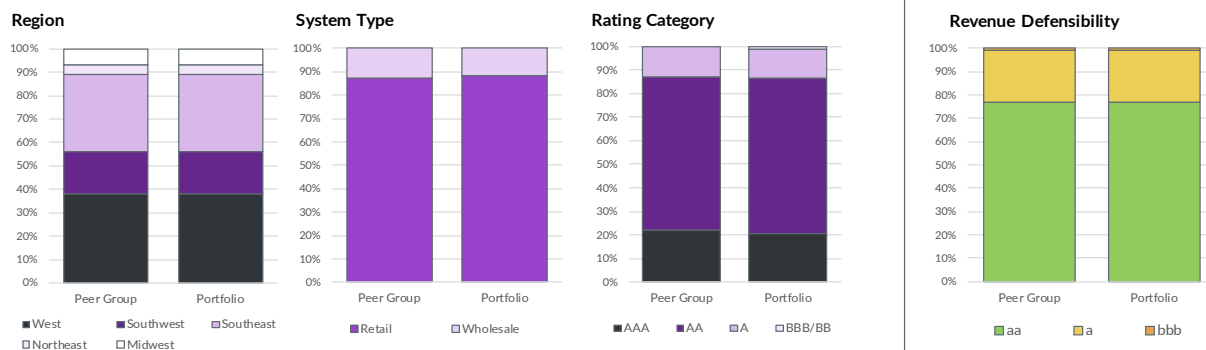
Sophisticated Tools Developed by Fitch Ratings' U.S. Public Finance Team

- Compares an entity's key financial metrics with peers in their sector
- User-friendly approach to analysis
- Interactive excel-based analytical tool
- Facilitates an understanding of key credit metrics used in Fitch's analysis

Metric Analysis: Operating Revenue Growth



Distribution of Characteristics and Key Rating Factors (as of July 2022)



The FACT Tool is available for the following Sub-Sectors:

- Airports, Infrastructure, Ports & Toll Roads
- Not-for-Profit Life Plan Communities
- Not-for-Profit Hospitals & Health Systems
- Public Housing
- Public Power
- State & Local Governments
- Water & Sewer

Fitch Analytical Stress Test (FAST)

Sophisticated Tools Developed by Fitch Ratings' U.S. Public Finance Team

What FAST Is:

- Through-the-Cycle Analysis
- Models an issuer's historical revenue performance over multiple economic cycles to estimate possible future revenue behavior in a hypothetical, user-specified downturn

What FAST Is Not:

- Does not generate ratings
- Is not a forecast

FAST's Key Benefits:

- Gain insight into issuer financial and operating metric volatility and sensitivity to changing economic/cyclical conditions
- Specify a user-defined scenario and discover patterns in macroeconomic or cyclical impacts among certain peer groups
- Drill-down to a specific issuer and examine impact of a top-down stress on issuer finances and key credit metrics through a multi-year scenario analysis

FAST Public Power - Fitch Analytical Stress Test - Demand Generator										
Scenario Yr	1	2	3	4	5	<p>Enter assumed stress in standard deviation terms to the left.* User may filter issuers using drop down menus in row 10.</p> <p>*Stated in terms of standard deviations to GDP, which is used as a scaling factor. Use of GDP does not imply causality in this context with regard to demand result with the possible exception of those issuers that show a result under "Econometric" approach to the right. Scenario estimates should not be construed as a forecast. See description tab and special report for more details and limitations.</p> <p>Source: Fitch Ratings, EIA, Federal Reserve Bank of St. Louis.</p>				
Std Devs*	-2.00	-1.00	1.00	0.75	0.25					
Implied GDP	-1.0%	0.5%	3.3%	3.0%	2.3%					
Geographical Location					Issuer		Total Electric Demand, Size and Growth (1 = Smallest, 10 = Largest)			Data Descriptive
Region1	Region2	State	User Field 1	User Field 2	Chart Abbrev	Issuer Name	2016 Retail + Wholesale Total KWH	Size Decile	5-yr Growth Decile	Data Type Segment
USA	Far West	CA				California Public Power Agency	343270	1	1	Demand - KWH Electric - Retail
USA	Far West	AK				Alaska Electric Light & Power Co.	1354366	4	8	Demand - KWH Electric - Retail
USA	Rocky	UT				Utah Public Service Co.	288409	1	3	Demand - KWH Electric - Retail
USA	Southeast	VA				Virginia Electric Power Co.	481990	2	1	Demand - KWH Electric - Retail
USA	Southwest	TX				Texas Electric Power Co.	1271903	4	4	Demand - KWH Electric - Retail
USA	Southeast	NC				North Carolina Electric Power Co.	1328155	4	9	Demand - KWH Electric - Retail
USA	Southeast	TN				Tennessee Valley Electric Power Co.	5523239	7	3	Demand - KWH Electric - Retail

Environmental, Social and Governance (ESG) Factors

Fitch is the first credit rating agency to apply a systematic approach to publishing opinions about how ESG issues are relevant and material to individual entities' credit ratings.

Characteristics

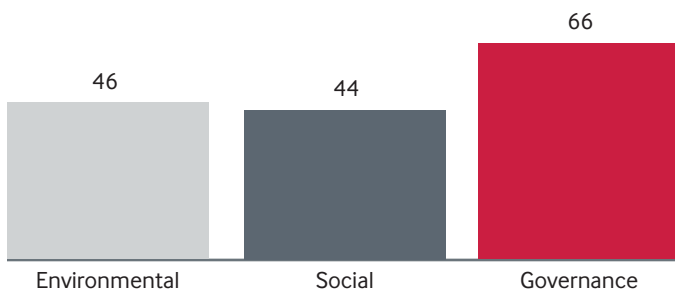
- ESG Scoring provides transparency into a pre-existing part of Fitch Ratings' criteria to the credit evaluation process
- Satisfies investors demand for more thorough and robust reporting on how ESG affects credit risk
- Observational and augments transparency of risk evaluation
- Reviewed at the time of every rating action
- Based on qualitative and quantitative information used for ratings (annual management interviews, and public and proprietary issuer information)

ESG Scoring Definitions

Score	Relevancy Definition
5	Highly relevant, and a key rating driver
4	Relevant to rating, but not a key rating driver
3	Minimally relevant to rating (most commonly assigned)
2	Irrelevant to the entity rating, but relevant to sector
1	Irrelevant to the entity rating, and irrelevant to sector

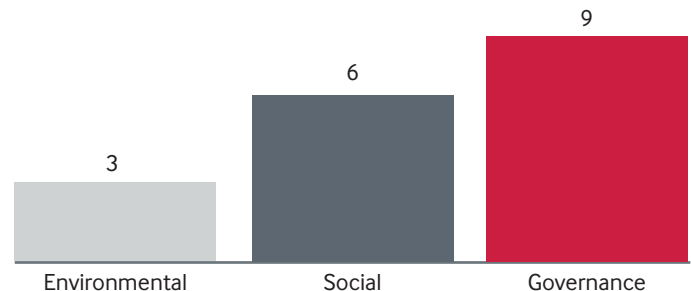
US Public Finance

Number of Credits Score = either 4 or 5
(A score of 3 is the most commonly assigned)



Global Infrastructure

Number of Credits Score = either 4 or 5
(A score of 3 is the most commonly assigned)



ESG Factors*

ESG Relevance Scores identify 14 or 15 ESG Factors.

Each ESG Factor is scored on a credit relevance scale of 1 – 5 by our credit analyst.

Environmental**

- GHG Emissions & Air Quality
- Energy Management
- Water & Wastewater Management
- Waste & Hazardous Materials Management; Ecological Impacts / Biodiversity and Natural Resource Management
- Exposure to Environmental Impacts / Natural Disasters and Climate Change

Social**

- Human Rights, Community Relations, Access & Affordability / [Human Rights and Political Freedoms](#)
- Customer Welfare – Fair Messaging Privacy & Data Security (Cyber Security) / [Human Development, Health and Education](#)
- Labor Relations & Practices
- Employee Wellbeing / [Public Safety and Security](#)
- Exposure to Social Impacts / [Demographic Trends](#)

Governance**

- Management Strategy
- Governance Structure
- Group Structure
- Financial Transparency
- USPF Tax-Supported-only:**
 - [Political Stability and Rights](#)
 - [Rule of Law, Institutional & Regulatory Quality, Control of Corruption](#)
 - [International Relations and Trade](#)
 - [Creditor Rights](#)
 - [Data Quality and Transparency](#)

* All ESG Factors in black text are shared in common, except when blue text appears.

** Blue bulleted text items are exclusive to USPF Tax-Supported sector on this page.

Investor Outreach

Fitch's Public Finance Group has a broad and active investor relations program.

In the past 12 months, we had significant interactions with institutional investors to share our views and comments on specific credits, sectors and trends.

- Alliance Bernstein
- Allspring
- Allstate
- American Century
- BlackRock
- BNY Mellon
- Bank of America Wealth Management
- Breckinridge Capital
- Capital Group
- Cavanal Hill Investment Management
- Charles Schwab
- Columbia Threadneedle
- Conning Asset Management
- Dodge & Cox
- DWS Investments
- Eaton Vance
- Evercore Asset Management
- Federated
- Fidelity
- Franklin Templeton
- Genworth Financial
- Goldman Sachs
- Guggenheim
- Gurtin Fixed Income Management
- Hartford Investment Management
- Insight
- Invesco
- J.P. Morgan
- Lazard Asset Management
- Loews
- Loomis, Sayles & Company
- Lord Abbett
- Mackay Shields LLC
- Macquarie Investment Management
- Manulife
- MetLife
- MFS
- Morgan Stanley
- Nationwide Asset Management
- Neuberger Berman
- New York Life
- Northern Trust
- Northwestern Mutual
- Nuveen
- Pacific Life
- PGIM
- PIMCO
- PNC Capital
- Principal
- Prudential Financial, Inc.
- Putnam Investment Management
- SIT Investment
- State Farm
- State Street Global Advisors
- T. Rowe Price
- The Travelers Indemnity Company
- Thrivent Financial
- TIAA
- UBS Global Asset Management
- USAA
- Vanguard
- Wellington Management
- Western Asset Management
- Wilmington Trust



Appendix

Main Rating Products

Product	Definition
Credit Rating	<ul style="list-style-type: none"> • An opinion of the ability of the issuer to make timely payments of principal and interest to investors • Assigned to a security • Provides a forward-looking and relative assessment of credit risk • Helps bridge the information gap between seller and buyer of bonds • An opinion that indicates the level of credit risk of bonds to bond investors
Credit Opinion	<ul style="list-style-type: none"> • A relative credit view that provides a category, or notch specific level that does not take into consideration all of the analytical factors considered for a rating, under the applicable criteria • Considered more preliminary in nature
Indicative Rating (IR)	<ul style="list-style-type: none"> • Private Point-in-Time rating (PPiT) • Non-monitored • Confidential • Convertible to a Public Rating
Private Rating	<ul style="list-style-type: none"> • Monitored or Point-in-Time (PiT) • Confidential • Private Monitored Ratings involves Fitch's analysis, committee process and ongoing surveillance
Public Rating	<ul style="list-style-type: none"> • Monitored • Non-confidential • Involves Fitch's analysis, committee process and ongoing surveillance • Publication of these ratings are administered through Fitch's global website via a Rating Action Commentary (RAC)
Rating Assessment Service (RAS)	<ul style="list-style-type: none"> • An indication of what a rating might be given a set of hypothetical circumstances • Private Point-in-Time (PPiT) rating • Up to three scenarios • Can be done on a Fitch rated or non-Fitch-rated entity • Notch specific

Glossary of Terms

Term	Definition
Issuer Default Rating (IDR)	<ul style="list-style-type: none"> Fitch assigns IDRs to debt issuers to communicate the relative general creditworthiness of the issuer and its ability to meet its financial commitments
Long-Term Rating	<ul style="list-style-type: none"> Assigned to debt with a maturity of greater than an approximate 365 days Ratings are based on all information known to and considered relevant by Fitch, including publicly available information and/or non-public documents and information provided to the agency by an issuer and other parties Publication and maintenance of all ratings are subject to there being sufficient information, consistent with the relevant criteria, to form an opinion on the relative vulnerability to default expressed in a rating
Point-in-Time (PiT)	<ul style="list-style-type: none"> Not monitored Rating products, such as Credit Opinions (COs), Indicative Ratings (IRs) and Rating Assessment Services (RAS) are point-in-time ratings
Rating Affirmation	<ul style="list-style-type: none"> The rating has been reviewed with no change in rating. Ratings affirmations may also include an affirmation of, or change to, an Outlook when an Outlook is used
Rating Confirmation	<ul style="list-style-type: none"> A rating has been reviewed at the request of the rated entity or its representatives to confirm that there would be no rating effect from a proposed limited change to specific terms or other provisions or circumstances in relation to an entity, its issues or a transaction
Rating Outlook	<ul style="list-style-type: none"> Indicates the direction a rating is likely to move in, over a one-to-two-year period. Reflects financial or other trends that have not yet reached or been sustained the level that would cause a rating action, but which may do so if such trends continue
Reviewed No Action	<ul style="list-style-type: none"> The rating has been reviewed with no change in rating. Such action will be published on the agency's website, however, a rating action commentary will not be issued This is not applicable to ratings or rating modifiers that have changed (including Rating Watch, Rating Outlook or Recovery Ratings)

Glossary of Terms

Term	Definition
Rating Watch	<ul style="list-style-type: none"> • Most likely event driven • A Rating Watch must be reviewed and a Rating Action Commentary be published every six months after a rating has been placed on Rating Watch
Rating Action Commentary (RAC)	<ul style="list-style-type: none"> • A press release which includes Fitch's rating actions and related regulatory disclosures
Non-Rating Action Commentary (NRAC)	<ul style="list-style-type: none"> • A press release used to comment on market developments or to alert market participants to Fitch publications • NRACs do not disclose rating actions
Short-Term Rating	<ul style="list-style-type: none"> • Assigned to debt with a maturity less than approximately 365 days
Surveillance	<ul style="list-style-type: none"> • Monitored credit ratings are subject to a review by a rating committee, at least once annually • Fitch's ratings are monitored on an ongoing basis in accordance with Fitch's policies and procedures
Under Criteria Observation (UCO)	<ul style="list-style-type: none"> • A rating has been placed "Under Criteria Observation" (UCO) upon the publication of new or revised criteria that is applicable to the rating, where the new or revised criteria has yet to be applied to the rating and where the new or revised criteria could result in a rating change when applied

Contact Us

Saavan Gatfield

National Infrastructure
Municipal Transportation
saavan.gatfield@fitchratings.com
212-908-0542 Office
917-859-0144 Cell

Jack Archibald

National Public Power and States
jack.archibald@fitchratings.com
212-908-0664 Office
917-689-0305 Cell

James Mitchell

Southeast
Tax-Supported and Water & Sewer
National Healthcare
james.mitchell@fitchratings.com
941-921-4823 Office
941-356-4393 Cell

Michele O'Brien

Global Investor Development
michele.obrien@fitchratings.com
312-368-2087 Office
312-504-1380 Cell

Jessica Soltz Rudd

Pacific/Mountain
Tax-Supported and Water & Sewer
National Housing
jessica.soltzrudd@fitchratings.com
415-732-7575 Office
415-535-5054 Cell

Carmine Charles

Northeast/Midwest
Tax-Supported and Water & Sewer
National Higher Education and
Not-For-Profit
carmine.charles@fitchratings.com
212-908-0230 Office
917-446-5021 Cell

Richard Packard

South/Southwest
Tax-Supported and Water & Sewer
National Municipal Transportation
richard.packard@fitchratings.com
512-215-3728 Office
737-600-6322 Cell

Regional Offices

Hearst Tower, 35th Floor 300 West 57th Street
New York, NY 10019
212-908-0500

One North Wacker Drive 22nd Floor
Chicago, IL 60606
312-368-3100

2600 Via Fortuna, Suite 330
Austin, TX 78746
512-215-3737

1 Post Street, Suite 900
San Francisco, CA 94104
415-732-5770

ALL FITCH CREDIT RATINGS ARE SUBJECT TO CERTAIN LIMITATIONS AND DISCLAIMERS. PLEASE READ THESE LIMITATIONS AND DISCLAIMERS BY FOLLOWING THIS LINK: [HTTPS://WWW.FITCHRATINGS.COM/SITE/DEFINITIONS](https://www.fitchratings.com/site/definitions). IN ADDITION, RATING DEFINITIONS AND THE TERMS OF USE OF SUCH RATINGS ARE AVAILABLE ON THE AGENCY'S PUBLIC WEB SITE AT WWW.FITCHRATINGS.COM. 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. FITCH MAY HAVE PROVIDED ANOTHER PERMISSIBLE SERVICE TO THE RATED ENTITY OR ITS RELATED THIRD PARTIES. DETAILS OF THIS SERVICE FOR RATINGS FOR WHICH THE LEAD ANALYST IS BASED IN AN EU-REGISTERED ENTITY CAN BE FOUND ON THE ENTITY SUMMARY PAGE FOR THIS ISSUER ON THE FITCH WEBSITE. 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. 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 of financial and other information are inherently forward-looking and embody assumptions and predictions about future events that by their nature cannot be verified as facts. As a result, despite any verification of current facts, ratings and forecasts can be affected by future events or conditions that were not anticipated at the time a rating or forecast was issued or affirmed. 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 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, 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\$750,000 (or the applicable currency equivalent) per issue. In certain cases, Fitch will rate all or a number of issues issued by a particular issuer, or insured or guaranteed by a particular insurer or guarantor, for a single annual fee. Such fees are expected to vary from US\$10,000 to US\$1,500,000 (or the applicable currency equivalent). The assignment, publication, or dissemination of a rating by Fitch shall not 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 United Kingdom, or the securities laws of any particular jurisdiction. Due to the relative efficiency of electronic publishing and distribution, Fitch research may be available to electronic subscribers up to three days earlier than to print subscribers. 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. DC-177

