

Factory Mutual Insurance Company

Key Rating Drivers

Favorable Company Profile: Factory Mutual Insurance Company (FM Global) maintains a strong franchise in the commercial property market for highly protected risks. In 2023, based on statutory results, FM Global held the No. 1 market share position in the boiler and machinery line of business among all U.S. property/casualty groups based on direct premiums written, representing roughly one-third of industrywide premiums. FM Global was also the largest writer of allied lines and fire business in 2023.

Underwriting Results Improve: The GAAP combined ratio was very strong at 67.4% in 2023, including the impact of policyholder credits, compared with 76.7% in 2022. The favorable rate environment for commercial property and manageable loss activity was reflected in very strong underwriting margin, consistent with long-term results.

FM Global's portfolio of property business is inherently volatile, as the company is one of the leading providers of large-limit commercial property capacity. However, the company's risk management sophistication, loss control and pricing expertise allowed it to achieve very strong financial performance over the long term.

Very Strong Capitalization: FM Global's capital position is very strong and remains well positioned to manage the inherent volatility of the group's results. FM Global's score in Fitch Ratings' Prism capital model remained at 'Extremely Strong' based on 2022 data. Prism results for 2023 will be available in summer 2024 and are expected to benefit from surplus growth and expectations for continued improvement in underwriting results.

GAAP policyholders' surplus increased by about 22%, to \$22.5 billion at YE 2023, largely the result of positive underwriting results and overall favorable investment returns.

Liquid Investment Portfolio: Fitch believes FM Global's high-quality, fixed-income portfolio provides ample liquidity to meet its policyholder obligations. At YE 2023, the company held nearly \$1.8 billion of consolidated cash and cash equivalents.

Investment Risk: FM Global's above-average allocation to equities moderated somewhat relative to recent periods, as the company increased diversification across risk assets in an effort to reduce expected portfolio volatility. FM Global's ratio of unaffiliated equities to total cash and invested assets on a GAAP basis was about 46% as of YE 2023. The company's long-term total return philosophy enabled it to grow its book value over time and provides greater near-term uncertainty of investment portfolio returns.

Financial Flexibility: As a mutual insurer, the company's financial flexibility is somewhat limited relative to stock company peers. However, the company has no outstanding debt, which Fitch regards as a positive credit factor relative to other 'AA' rated insurers.

Rating

Factory Mutual Insurance Company

Insurer Financial Strength

AA

Outlook

Insurer Financial Strength

Stable

Financial Data

Factory Mutual Insurance Company				
(USDm)	2022	2023		
Net premiums earned	5,773	6,411		
Net income	-296	3,749		
Combined ratio (%)	76.7	67.4		
Return on surplus (%)	-1.6	18.3		
Debt and hybrids	0.0	0.0		

Source: Fitch Ratings, Factory Mutual Insurance Company.

Applicable Criteria

Insurance Rating Criteria (Effective from July 20, 2023 to March 4, 2024)

Related Research

U.S. Property/Casualty Insurance Outlook 2024 (December 2023)

Analysts

Christopher Grimes

+1 312 368 3263

christopher.grimes@fitchratings.com

Jim Auden

+1 312 368 3146

jim.auden@fitchratings.com



Rating Sensitivities

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

- Fitch views a potential upgrade as somewhat limited by Fitch's broader view of the risks inherent in the company's profile;
- Consistent levels of strong capital associated with higher rating levels over a multiyear period, including a Prism capital model score of 'Extremely Strong';
- A material decline in common equity investments, reducing volatility in surplus.

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

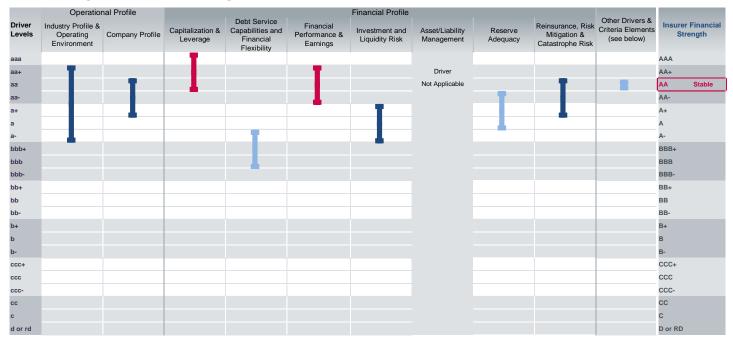
- Severe deterioration in long-term underwriting results, to the point where the company no longer outperforms its peers;
- Consolidated U.S. operating and net leverage approaching 0.75x and 1.75x, respectively;
- Significant deterioration in FM Global's capitalization as measured by Fitch's Prism capital model;
- A sustained period of net losses or catastrophe losses out of proportion with market share.

Latest Developments

FM Global announced a \$350 million resilience credit in September 2023, provided to members to invest in climate resilience, providing them additional resources to guard against extreme weather hazards, such as floods, high winds and wildfires. The credit will be applied as a 5% premium offset against FM Global policies with renewals or anniversaries between Oct. 1, 2023, and Sept. 30, 2024.



Key Rating Drivers – Scoring Summary



Other Drivers & Criteria Elements					
Provisional Insurer Financial Strength Rating					
Non-Insurance Attributes	Positive	Neutral	Negative	+0	
Ownership / Group Support	Positive	Neutral	Negative	+0	
Transfer & Convertibility / Country Ceiling	Yes	No	AAA	+0	
Insurer Financial Strength Rating			Final:	AA	
IFS Recovery Assumption	Good			-1	
Issuer Default Rating (IDR)			Final:	n.a	





Company Profile

Strong Franchise in Commercial Property Insurance Market

Fitch ranks FM Global's business profile as a 'Favorable' compared with all other U.S. non-life insurers, due to the company's unique franchise, largely derived from its engineering capabilities and loss prevention services that are difficult for competitors to replicate. Given the favorable ranking, Fitch scores FM Global's business profile at 'aa-' under its rating guidelines and it carries a moderate weight.

FM Global maintains a strong franchise in the commercial property market for highly protected risks. In 2023, based on statutory results, FM Global held the No. 1 market share position in the boiler and machinery line of business among all U.S. property/casualty groups based on direct premiums written, representing roughly one-third of industrywide premiums. FM Global was also the largest writer of both fire and allied lines in 2023.

FM Global conducts onsite loss prevention and engineering reviews at the majority of its insured sites, including all of its larger policyholder sites, and Fitch believes that these reviews have a significant positive effect on the company's underwriting results. These results, Fitch believes, are due in part to the extensive engineering and loss prevention studies the company conducts at its state-of-the-art engineering test facility. Fitch views FM Global's ability to conduct these studies and the insights they bring to the company's underwriting process as key competitive advantages.

Fitch views FM Global's risk appetite as greater than that of the industry as the company provides capacity for large commercial risks and has the ability to offer large limits on property exposures. The company's underwriting portfolio of large property risks brings inherent volatility to FM Global's year to year operating performance. Fitch considers FM Global the industry leader in incorporating engineering expertise into insurance products and underwriting processes, which helps to mitigate the volatility in results.

FM Global writes business for commercial clients around the globe, providing the company with significant geographic diversification. The company maintains robust underwriting standards that are employed in the same manner for all of the properties around the world for which the company provides coverage. The organization employs approximately 2,000 loss prevention engineers that provide loss control expertise and provide consistency in underwriting practices around the globe.

Fitch also believes FM Global's dual product distribution methods provide diversification as the company uses direct distribution and brokers to market its products and maintains a relatively high degree of operational control over its distribution. The operations staff is comprised of engineers and underwriters, which complement the company's distribution channels and have a significant amount of client interaction.

Company Profile Scoring

Business profile assessment	Favorable
Business profile subfactor score	aa-
Corporate governance assessment	Favorable
Corporate governance impact (notches)	0 notches
Company profile factor score	aa-
Source: Fitch Ratings	

Ownership

Mutual Ownership Is Neutral to the Ratings

FM Global is a mutual insurance company that specializes in providing engineered loss prevention services and high-limit commercial property coverage to its member clients. FM Global was formed in mid-1999 through the merger of Allendale Mutual Insurance Company, Protection Mutual Insurance Company and Arkwright Mutual Insurance Company. Prior to the merger, these companies shared an engineering and research facility, as well as ownership of FM Insurance Company, Ltd. (FMI), and participated in various reinsurance agreements with one another.

The company's primary domestic insurance subsidiaries are Affiliated FM Insurance Company (with its Canada branch) and Appalachian Insurance Company. The organization conducts insurance operations internationally through subsidiaries in Luxembourg (FM Insurance Europe S.A.), the U.K. (FMI) and Mexico (FM Global de Mexico, S.A.) and branch offices in Canada, Australia, New Zealand, Singapore, Hong Kong, India, South Korea and Labuan. Risk Engineering Insurance Company Limited is a wholly owned subsidiary of FM Global that only assumes business ceded to it from other FM Global group companies.



Capitalization and Leverage

Very Strong Capitalization Supports Rating Level

FM Global consistently grew policyholders' surplus in recent years, as the company remains well positioned to manage the inherent volatility of the group's results. GAAP policyholders' surplus increased by approximately 22%, to \$22.5 billion at YE 2023, largely the result of positive underwriting results and overall favorable investment returns.

The insurer continues to use a conservative amount of operating leverage. At YE 2023, the company's annualized ratio of net premiums written to statutory surplus was 0.3x, which is equal to the company's five-year average. Fitch believes FM Global's operating leverage remains supportive of the current rating level. FM Global issues no debt and accordingly uses zero financial leverage, which Fitch considers to be a positive rating factor.

FM Global's YE 2023 NAIC risk-based capital (RBC) ratio was 408% of the company action level, as the company maintains very strong levels of policyholders' surplus at the lead company. Fitch views the company's RBC ratio as being higher than many comparably rated peers.

The Prism capital model score remained in the 'Extremely Strong' category based on 2022 data, despite available capital declining during the period as consolidated surplus reported on a GAAP basis was pressured by unrealized investment losses. The Prism score remains supportive of current ratings. Prism results for 2023 will be available in summer 2024 and are expected to benefit from surplus growth and expectations for continued improvement in underwriting results.

Financial Highlights

	2022	2023
Policyholders' surplus (USD Mil.)	17,560	21,340
Net premiums written/PHS (x)	0.3	0.3
Net leverage (x)	0.8	0.8
NAIC RBC ratio ^a (%)	388	408

^aLead company RBC of the company action level. PHS – Policyholders' surplus. Note: Statutory accounting. Source: Fitch Ratings, S&P Global Market Intelligence

2022 Prism Score



AC – Available capital. TC – Target capital. N.A. – Not applicable. Source: Fitch Ratings, S&P Global Market Intelligence

Fitch's Expectations

- FM Global to maintain very strong capitalization in 2024, measured by the low levels of underwriting and net leverage, solid NAIC RBC ratio, and a 'Very Strong' Prism score or better.
- Fitch forecasts GAAP net premiums written/surplus to remain near 0.3x in 2024. (See *Appendix C* for discussion of Fitch forecasts.)

2022 Prism Score

Other

(\$ Mil.)	20)20	20	021	20	022
	Extrem	ely	Extrem	nely	Extren	nely
Prism score	Str	ong	Str	ong	Str	ong
AC/TC at Prism score (%)	2	159	:	141		130
AC/TC at higher Prism score (%)	١	۱.A.	١	۱.A.	1	N.A.
Statutory surplus	15,359		17,858		17,560	
Affiliated investments		_		_		_
Unrealized bond gains/losses		_		_		_
Other adjustments	967		1,326		704	
Available capital	16,326		19,184		18,264	
Target Capital Contribute	ors (%)					
Underwriting		33		30		32
Reserves		3		5		3
Investments		19		18		18
Catastrophe		23		22		23

AC – Available capital. TC – Target capital. N.A. – Not applicable. Source: Fitch Ratings, S&P Global Market Intelligence

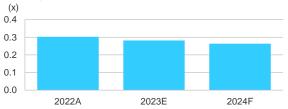
22

25

25



Fitch Forecast — Net Premiums Written to Surplus



A – Actual. E- Estimate. Note: Fitch estimate of consolidated Property/Casualty statutory results. See *Appendix C* for more information on forecasts.

Source: Fitch Ratings

Debt Service Capabilities and Financial Flexibility

Strong Liquidity with No Debt to Service

Fitch views FM Global's financial flexibility and debt service to be weaker than that of peers with public ownership and lower than the current rating category. Overall, financial flexibility has a lower influence in determining FM Global's ratings.

As a mutual insurer, FM Global has no access to the equity capital markets. The company also has limited access to the debt capital markets, thus reducing the financial flexibility of the company. However, management's strategy accounts for this and manages the company's cash flows accordingly.

FM Global has never issued debt through the capital markets and its capital structure consists entirely of policyholder-owned funds.

The company maintains a significant balance of cash and cash equivalents that provides liquidity to fund losses in the underwriting portfolio and limits the need for additional liquidity from third-party sources.

Financial Highlights

(USD Mil.)	2022	2023
Cash and cash equivalents	2,132	1,779
Long-term debt	-	-
Interest expense	-	-
Note: Reported on a GAAP basis		

Note: Reported on a GAAP basis.

Source: Fitch Ratings, Factory Mutual Insurance Company annual reports

Fitch's Expectations

FM Global to maintain the current strong level of liquidity.

Financial Performance and Earnings

Long-Term Underwriting Success with Potential for Volatility

FM Global's 2023 GAAP combined ratio was very strong at 67.4%, compared to its prior five-year average (2018-2022) of 92.3%. The company's portfolio of property business is inherently volatile, as the company is one of the leading providers of large limit commercial property capacity. However, the company's risk management sophistication, loss control and pricing expertise allowed the company to achieve very strong financial performance over the long term. Fitch continues to view FM Global's long-term results as supportive of its ratings.

The company's operating performance over the long term has been very strong, despite exposure to periodic catastrophe losses, reflecting the company's underwriting expertise, expense efficiencies and generally favorable market conditions. Fitch believes there is a significant amount of inherent volatility in FM Global's year-to-year operating performance because of the company's large book of property insurance and its corresponding exposure to natural and man-made catastrophe-related losses. Due to this potential volatility, Fitch believes FM Global's underwriting results are best viewed on a cumulative basis over a relatively long period.

FM Global announced that eligible policyholders would collectively receive an estimated \$800 million in policyholder credits when renewing their policies in 2023. The payment of policyholder credits effectively reduces the level of net earned premium reported by the company. The GAAP combined ratio through 2023 included 7pp related to policyholder credits, compared to 4.9pp in 2022.

Financial Highlights

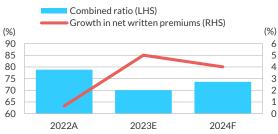


(USD Mil.)	2022	2023
Net premiums earned	5,773	6,411
Net income	-296	3,749
Combined ratio (%)	76.7	67.4
Operating ratio (%)	66.3	55.5
Return on surplus (%)	-1.6	18.3

Note: Reported on a GAAP basis.

Source: Fitch Ratings, Factory Mutual Insurance Company annual reports

Fitch Forecast — Financial Performance



A – Actual. E - Estimate. Note: Fitch estimate of consolidated P/C statutory results. See *Appendix C* for more information on forecasts. Source: Fitch Ratings

Fitch's Expectations

- FM Global's underwriting results in 2024 are expected to remain at levels comparable with the company's long-term results, assuming normal catastrophe experience.
- Net premium growth to remain strong through 2024 in the mid-single digits.

Investment and Asset Risk

Large Allocation to Equity Risk with Strong Liquidity

FM Global's investment portfolio is managed on a total return basis with a long-term investment horizon. The company invests in fixed-income securities to support the relatively short-duration liabilities generated by its property insurance reserves and equities to support surplus growth. As a result, FM Global is significantly overweight in common stock investments relative to the industry.

FM Global's above-average allocation to equities moderated relative to recent periods, as the company increased diversification across risk assets in an effort to reduce expected portfolio volatility. FM Global's ratio of unaffiliated equities to total cash and invested assets on a GAAP basis was approximately 46%, as of YE 2023. The company's long-term total return philosophy enabled it to grow its book value over the years and produces greater near-term uncertainty of investment portfolio returns.

FM Global's bond portfolio exhibits high credit quality and liquidity, with modest exposure to below-investment-grade bonds. At YE 2023, approximately 90% of the statutory combined group fixed-income portfolio consisted of NAIC 1 and 2 bonds, compared with 91% in 2022. Statutory surplus exposure to risky assets was 75% at YE 2023, compared with 74% at YE 2022.

Financial Highlights

(USD Mil.)	2022	2023
Cash and invested assets	24,119	28,368
Cash and invested assets/surplus (x)	1.4	1.3
Investment yield (%)	1.1	1.9
Risky-asset ratio (%)	74	75
Risk-weighted liquidity ratio (%)	422	541

Note: Statutory accounting. Source: Fitch Ratings, S&P Global Market Intelligence

Fitch's Expectations

 The company to maintain an above-average investment allocation to equity securities, which is consistent with its long-term total return strategy.



Reserve Adequacy

History of Moderate Favorable Reserve Experience

Fitch believes FM Global's loss reserves are adequate and that the company follows a disciplined approach when establishing reserves. Fitch also believes that the relatively short duration of FM Global's reserves reduces reserve uncertainty. The vast majority of the company's loss reserves tend to develop into paid losses within three years.

Fitch uses a reserve adequacy model, and reported paid loss and incurred loss data from Schedule P are used to estimate ultimate accident-year losses and required accident-year reserves. Using FM Global's YE 2023 data, Fitch's model estimates an adequate level of reserves using paid loss data and case-incurred data.

FM Global's long-term reserve experience has displayed conservatism in setting the company's reserves that compare favorably with peers and the overall industry.

Fitch believes that FM Global's reserves for asbestos-related claims are strong and, unlike many of its peers, FM Global bolstered its asbestos reserves while still generating strong calendar-year profitability. Unfavorable development on asbestos-related reserves has not been reported since 2017.

The company's gross and net survival ratios based on three-year average paid asbestos losses were 26.2x and 27.4x, respectively, at YE 2023. Fitch also believes that FM Global has solid reserves for environmental claims. At YE 2023, the company's gross and net survival ratios based on three-year average paid environmental losses were 52.6x and 34.3x, respectively. Net asbestos and environmental reserves totaled \$550 million at YE 2023, representing approximately 16% of FM Global's overall statutory net loss and loss adjustment expense reserves.

Financial Highlights

(USD Mil.)	2022	2023
Loss reserves	3,463	3,255
Loss adjustment expense reserves	249	220
Discontinued lines reserve development	-	-
Other adverse (favorable) reserve development	190	-122
Reserve development/premiums earned (%)	3.6	-2.1

Note: Statutory accounting.

 $Source: Fitch\ Ratings, S\&P\ Global\ Market\ Intelligence$

Fitch's Expectations

Maintenance of the adequate reserve position.



Reinsurance, Risk Mitigation and Catastrophe Risk

Strong Focus on Risk Management

Fitch believes FM Global's reinsurance programs provide adequate protection against the large losses the company could face and that the credit quality of the company's reinsurers is good. FM Global has a significant exposure to natural and man-made catastrophic losses from its large book of property insurance. As a result, Fitch believes reinsurance is a very important component of FM Global's risk management process.

FM Global's excess of loss reinsurance program consists of a per-risk program and a catastrophe program. The perrisk program provides the company with coverage on individual claim losses in excess of \$300 million for FM Global, with a \$75 million retention for Affiliated FM. The company's catastrophe reinsurance program separately provides coverage on catastrophe losses from all perils in excess of \$450 million.

FM Global uses a diverse mix of financially sound reinsurers, and Fitch believes the overall credit quality of the company's reinsurance recoverable is strong. FM Global's most substantial reinsurance recoverable exposures are to large companies with high credit ratings, such as Swiss Re Group and Munich Re Group, which provide Fitch with confidence in FM Global's ability to recover funds owed to the company in the wake of a large claim.

FM Global manages its capital by examining catastrophe exposure using a probabilistic approach relative to capital and by evaluating growth in total insured values relative to growth in surplus. The company uses location-based insured data to determine its exposure in catastrophe-prone areas. As such, the company performs a ground-up analysis and does not rely solely on catastrophe model simulations to determine its potential shock losses.

Fitch also believes the quality of data FM Global uses in its catastrophe exposure analysis is enhanced by the engineering standards it maintains and data collected in relation to its insured properties.

Financial Highlights

	2022	2023
Net premium written/gross premium written (x)	71	79
Note: Statutory accounting. Source: Fitch Ratings, S&P Global Market Intelliger	ice	

Fitch's Expectations

- FM Global to continue to use industry-leading risk assessment and loss prevention expertise in its underwriting of its commercial property portfolio.
- The company to maintain use of its robust risk transfer program as part of its overall risk management strategy.



Appendix A: Peer Analysis

Peer Comparison

Click here for a report that shows a comparative peer analysis of key rating driver scoring.

Appendix B: Industry Profile and Operating Environment

Industry Profile and Operating Environment (IPOE)

Click here for a link to a report that summarizes the main factors driving the above IPOE score.

Appendix C: Other Rating Considerations

Below is a summary of additional ratings considerations that are part of Fitch's Insurance Rating Criteria.

Group Insurance Financial Strength (IFS) Rating Approach

Fitch considers all rated subsidiaries as 'Core', thus Fitch applies a group rating methodology as the company has the willingness and ability to provide support to group members. FM Global is a party to a pooling arrangement with its wholly owned subsidiaries Appalachian Insurance Co. and Affiliated FM Insurance Co. As a result of the pooling agreement, Fitch considers these U.S.-based insurance subsidiaries to be Core. U.K.-domiciled FMI; Luxembourg-domiciled FM Insurance Europe S.A.; and Mexico-domiciled FM Global de Mexico, S.A. benefit from significant reinsurance support from FM Global as well policy level guarantees. Risk Engineering Insurance Company Limited is a wholly owned subsidiary of FM Global that only assumes business ceded to it from other FM Global group companies, leading to the status of 'Core'. All operating companies have a 'AA' IFS rating based on a combined group assessment.

Group Ratings Table

	Туре	Rating	Outlook
Factory Mutual Insurance Company	IFS	AA	Stable
Affiliated FM Insurance Company	IFS	AA	Stable
Appalachian Insurance Company	IFS	AA	Stable
FM Insurance Company Limited	IFS	AA	Stable
FM Insurance Europe S.A.	IFS	AA	Stable
FM Global de Mexico, S.A. de C.V.	IFS	AA	Stable
Risk Engineering Insurance Company Limited	IFS	AA	Stable

Source: Fitch Ratings

Notching

Notching Summary

IFS ratings

A baseline recovery assumption of 'Good' applies to the IFS rating, and standard notching was used from the IFS anchor rating to the implied operating company IDR.

Holding company IDR

No holding company relationship exists.

Holding company debt

The company issues no debt.

Hybrids

The company issues no hybrid securities.

IFS – Insurer Financial Strength. IDR – Issuer Default Rating Source: Fitch Ratings

Short-Term Ratings

Not applicable.



Hybrid - Equity/Debt Treatment

Not applicable.

Transfer and Convertibility Risk (Country Ceiling)

None

Criteria Variations

None.

About Fitch Forecasts

The forecasts shown in the main body of this report reflect Fitch's forward views from a credit perspective. They are based on a combination of Fitch's macroeconomic forecasts and viewpoints, outlook at the sector level and company-specific considerations developed by Fitch. As a result, Fitch's forecasts may differ, at times materially, from earnings and other guidance provided by a rated entity to the market. To the extent Fitch is aware of material, nonpublic information on likely future events, such as a planned recapitalization or M&A activity, Fitch will not reflect these likely future events in its forecasts. This practice is to assure that such material nonpublic information is not inadvertently disclosed. However, as relevant, such information is considered by Fitch as part of the broader ratings process.



Appendix D: Environmental, Social and Governance Considerations

FitchRatings	Factory Mutual Insurance Company			Insu	rance	Navigato US Non-Life
Credit-Relevant ESG Derivation					ESG F	Relevance to Credit Rating
Factory Mutual Insurance Company has 8 ESG potenti	•	key driver	0	issues	5	
	is exposure to underwriting/reserving exposed to asbestos/hazardous materials risks but this has very low impact on the rating. ss exposure to underwriting/reserving exposed to environmental and natural catastrophe risks; impact of catastrophes on own operations or asset quality; credit pact on the rating.	driver	0	issues	4	
Factory Mutual Insurance Company ha has very low impact on the rating.	s exposure to compliance risk; treating customers fairly; pricing transparency; privacy/data security; legal/regulatory fines; exposure to insured and own cyber risk but this	potential driver	8	issues	3	
Factory Mutual Insurance Company ha Governance is minimally relevant to the	se exposure to social responsibility and its effect on brand strength; increased vulnerability due to credit concentrations but this has very low impact on the rating. e rating and is not currently a driver.	not a rating driver	1	issues	2	
		not a rading driver	5	issues	1	
Environmental (E) Relevance Scores						

General Issues	E Score	Sector-Specific Issues	Reference	E Relevance
HG Emissions & Air Quality	1	n.a.	n.a.	5
nergy Management	1	n.a.	n.a.	4
Vater & Wastewater Ianagement	1	n.a.	n.a.	3
Vaste & Hazardous Materials lanagement; Ecological npacts	3	Underwriting/reserving exposed to asbestos/hazardous materials risks	Capitalization & Leverage; Financial Performance & Earnings; Reserve Adequacy; Reinsurance, Risk Mitigation & Catastrophe Risk	2
xposure to Environmental npacts	3	Underwriting/reserving exposed to environmental and natural catastrophe risks; impact of catastrophes on own operations or asset quality; credit concentrations	Capitalization & Leverage; Financial Performance & Earnings; Reserve Adequacy; Reinsurance, Risk Mitigation & Catastrophe Risk; Investment & Asset Risk	1
Social (S) Relevance S	cores			
General Issues	S Score	Sector-Specific Issues	Reference	S Relevance
luman Rights, Community elations, Access & ffordability	1	n.a.	n.a.	5

General Issues	S Score	Sector-Specific Issues	Reference	S Re	levance
Human Rights, Community Relations, Access & Affordability	1	n.a.	n.a.	5	
Customer Welfare - Fair Messaging, Privacy & Data Security	3	Compliance risk; treating customers fairly; pricing transparency; privacy/data security; legal/regulatory fines; exposure to insured and own cyber risk	Industry Profile & Operating Environment; Company Profile; Reserve Adequacy	4	
Labor Relations & Practices	2	Impact of labor negotiations, including board/employee compensation and composition	Company Profile	3	
Employee Wellbeing	1	n.a.	n.a.	2	
Exposure to Social Impacts	3	Social responsibility and its effect on brand strength; increased vulnerability due to credit concentrations	Company Profile; Investment & Asset Risk; Financial Performance & Earnings; Reinsurance, Risk Mitigation & Catastrophe Risk	1	

Governance (G) Relevance Scores					
General Issues	G Score	Sector-Specific Issues	Reference	G Relevance	
Management Strategy	3	Operational implementation of strategy	Company Profile	5	
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	Company Profile	4	
Group Structure		Organizational structure; appropriateness relative to business model; opacity; intra-group dynamics; ownership	Company Profile; Ownership	3	
Financial Transparency	3	Quality and timing of financial reporting and auditing processes	Company Profile	2	
				1	

How to Read This Page
ESG relevance scores range from 1 to 5 based on a 15-level color gradation. Red (5) is most relevant to the credit rating and green (1) is least relevant.
The Environmental (E), Social (3) and Governance (6) tables break out the ESG general issues and the sector-specific issues that are most relevant to each industry group. Relevance scores are assigned to each sector-specific issue signaling the credit-relevance of the sector-specific issues to the issuer's overall credit rating. The Criteria Reference column highlights the factor(s) within which the corresponding ESG issues are captured in Fixth's credit analysis. The vertical color bars are visualizations of the frequency of occurrence of the highest constituent relevance scores. They do not represent an aggregate of the relevance score or aggregate ESG credit relevance.
The Credit-Relevant ESG Derivation table's far right column is a visualization of the frequency of occurrence of the highest ESG relevance scores across the combined £, S and G categories. The three columns to the left of ESG Relevance to Credit Rating summarize rating relevance and impact to credit from ESG issues. The box on the far left identifies any ESG Relevance Sub-factor issues that are drivers or potential drivers of the issuer's credit rating (corresponding with scores of 3.4 or 5 and provides a brief explanation for the relevance score. All scores of 14 and 5 are assumed to result in a negative impact unless indicated with a 1+' sign for positive impact.

Classification of ESG issues has been developed from Fitch's sector ratings criteria.

Place of the score of the classification standards published by the United Nations Principles for Responsible Investing (PRI), the Sustainability Accounting Standards Board (SASB), and the World Bank.

	CREDIT-RELEVANT ESG SCALE		
Ho	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.		

ESG Considerations

The highest level of ESG credit relevance, if present, is a score of '3'. This means ESG issues are credit neutral or have only a minimal credit impact on the entity(ies), either due to their nature or to the way in which they are being managed by the entity(ies). Fitch's ESG Relevance Scores are not inputs in the rating process; they are an observation on the relevance and materiality of ESG factors in the rating decision. For more information on Fitch's ESG Relevance Scores, visit www.fitchratings.com/esg.



SOLICITATION & PARTICIPATION STATUS

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.

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