

Fitch Group: ESG Solutions

ESG-Integrated Credit Research & Analysis

Short-term Long-term

ESG Relevance Scores

- ESG Relevance Scores (ESG.RS) articulate the level of influence an environmental, social or governance issue has had on a credit rating decision.
- ESG.RS are forward-looking and based on the base-case forecasts for the credit ratings of entities and transactions.
- Fitch Ratings' credit analysts systematically evaluate ESG credit considerations incorporated in its ratings methodologies.
- The scores cover Environmental, Social, and Governance (E, S, and G, respectively) risks under a transparent sector-based, cross-asset, global framework.
- Sector-based templates provide clear articulation of credit-relevant ESG risks

Sector/Entity/Transaction

Climate Vulnerability Scores

- Vulnerability Scores (Climate VS) help investors understand the ways in which climate-related risks may impact their portfolios, and how these risks may evolve in the coming years in the event that global warming is limited to 2°C.
- Assess the vulnerability of the financial profile of a sector, entity or instrument at five-year intervals between 2025 and 2050.
- Based on the UN-backed Principles for Responsible Investment's Inevitable Policy Response scenario, refined and adjusted for the in-depth sector knowledge of Fitch's analysts.

Sector/Entity/Transaction

Medium-term

ESG Research

- Dedicated global ESG Research team based across three continents that covers thematic and cross-sector ESG credit risk, as well as supporting credit analysts with themed issuer- and transaction-specific research.
- Thematic reports analysing ESG themes at a macro level, a sector level, and an entity/transaction level with an emphasis on how they are likely to affect sectors and entities from a credit perspective.
- The ESG Research team prioritises emerging ESG themes that are most material and likely to disrupt industries and business models.

Sector/Thematic

Pure ESG Analysis & Reports

Short-term Medium-term

ESG Ratings

 Holistic ESG analytical tools that help market participants to discriminate the ESG quality of financial instruments and companies/issuers.

Three main pillars:

- ESG Entity Rating, with ESG peer comparison tool.
- ESG Framework Rating for Green/Social/ Sustainability/Sustainability-linked bonds and loans.
- ESG Instrument Rating (bond and loan) for both framework and conventional bonds and loans. Financial instrument assessment which takes account of the ESG credentials of the issuer as well as the debt instrument to produce an absolute comparative grade for every piece of debt issued.

Entity/Transaction



ESG Relevance Scores: Key Concepts



Focus on Credit and Rating Impact

- Not concerned with ESG merit of company or how much it talks about, cares about or invests in its ESG profile.
- There is no moral or ethical opinion attached to the ESG.RS (eg'How'green' is this company?').



Highlight Relevance and Materiality

- Scores of '1' and '2' are different forms of irrelevance to the credit (sector versus entity).
- Scores of '3', '4' or '5' signal different materiality (impact) on the credit rating; these scores are relevant to the sector and issuer.



Observations on Rating Decisions

- ESG.RS are observations on the rating decision that has been taken, not inputs into the rating process.
- Fitch has "extracted the existing ESG issues from its ratings criteria, and assessed their credit impact in order to transparently display how this sub-category of risks affects individual credit rating decisions".

General Issues in ESG Relevance Scores Framework

Environmental	Social	Governance
GHG Emissions & Air Quality (EAQ)	Human Rights, Community Relations, Access & Affordability (SCR)	Management Strategy (GEX)
Energy Management (EFM)	Customer Welfare; Fair Messaging, Privacy & Data Security (SCW)	Governance Structure (GGV)
Water & Waste Management (EWT)	Labour Relations & Practices (SLB)	Group Structure (GST)
Waste & Hazardous Materials Management; Ecological Impacts (EHZ)	Employee Wellbeing (SEW)	Financial Transparency (GTR)
Exposure to Environmental Impacts (EIM)	Exposure to Social Impacts (SIM)	Political Stability & Rights (GPS)
Water Resources Management (EWR)	Human Rights & Political Freedoms (SHR)	Rule of Law, Institutional & Regulatory Quality, Control of Corruption (GRL)
Biodiversity &NaturalResourcesManagement(EBN)	Human Development, Health & Education (SHD)	International Relations & Trade (GIR)
Natural Disasters & Climate Change (ENC)	Employment & Income Inequality (SEI)	Creditor Rights (GCR)
	Public Safety & Security (SPS)	Data Quality & Transparency (GDQ)
	Demographic Trends & Population Demographics (SDT)	Transaction & Collateral Structure (GTC)
	Privacy & Data Security (SPD)	Transaction Parties & Operational Risk (GOR)
		Data Quality & Privacy (GDT)
		Policy Status & Mandate Effectiveness (GSM)

Applies to all analytical groups

Applies to Corporates, Financial Institutions (FI), International Public Finance (IPF; Government-Related Entities), US Public Finance (USPF; Revenue, Infrastructure), Structured Finance (SF) & Covered Bonds, Supranationals

Applies to Sovereigns, IPF (Local & Regional Governments), USPF (Tax), Supranationals

Applies to Corporates, FIs, IPF (Government-Related Entities), USPF (Revenue & Infrastructure), Supranationals

Applies to SF & Covered Bonds

Applies to Supranationals

Applies to Sovereigns, IPF (Local & Regional Governments), USPF (Tax), Supranationals, SF & Covered Bonds

Applies to Corporates, FIs, IPF (Government-Related Entities), USPF (Revenue, Infrastructure), SF & Covered Bonds, Supranationals

Applies to Sovereigns, IPF (Local & Regional Governments), USPF

Applies to Corporates, FIs, SF & Covered Bonds, IPF (Government-Related Entities), USPF

Applies to Sovereigns, IPF (Local & Regional Governments), USPF

Applies to Corporates, FIs, IPF (Government-Related Entities), USPF, Supranationals

Applies to Sovereigns

Applies to Sovereigns, IPF (Local & Regional Governments), USPF

Applies to Sovereigns, SF & Covered Bonds, USPF, IPF (Local & Regional Governments)



ESG Relevance Scores: Definitions

Score	Relevant to Sector	Relevant to Issuer	Material to Rating	Description
5	Yes	Yes	Key Rating Driver	Highly relevant to the rating. A key rating driver
4	Yes	Yes	Rating Driver	 Moderately relevant to the rating. Not a key rating driver by itself, but has a moderate impact on the rating in combination with other factors
3	Yes	Yes	Minimal	 Minimally relevant to the rating. Either has a very low impact or is actively managed in a way that results in no impact on the entity rating
2	Yes	No	No	 Irrelevant to the entity rating but relevant to the sector
1	No	No	No	 Irrelevant to the entity rating and irrelevant to the sector



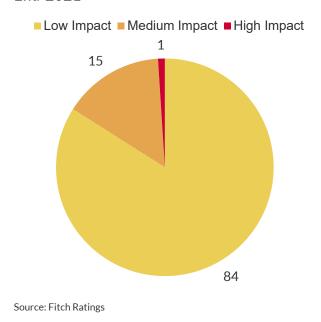
ESG Credit Impact Is Limited for Financial Institutions

• At end-2021:

- ESG factors affected only 16% of FI ratings
- Governance issues have greatest impact
- Social impact is slightly relevant
- Environmental issues have minimal credit impact

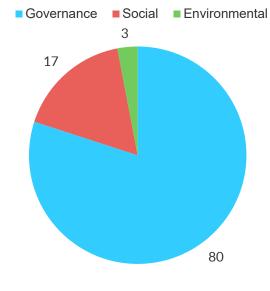
ESG Impact on Global Financial Institution Ratings (%)

End-2021



Governance Issues Dominate

High & Medium ESG Impact on Global FI Ratings at End-2021 (%)



Source: Fitch Ratings



Examples of Governance Impact on FI Ratings

Governance impact is never positive for FI credit

- Credit Suisse Group AG (BBB+/Stable); 'Governance Structure' scored at '4', as governance issues contributed to recent downgrade
- Wells Fargo & Company (A+/Stable); 'Management Strategy' scored at '4' due to process of remediating risk control issues and response to regulatory findings
- ORIX Corporation (A-/Stable), one of Japan's largest non-bank financial companies, is scored '4' for Group Structure to reflect its complex organisational structure
- Vietnam Joint Stock Commercial Bank for Industry and Trade (BB-/Positive), one of the largest state-owned Vietnamese banks, is scored '4' for 'Financial Transparency' to reflect issues surrounding quality and accuracy financial reporting standards



Examples of Social Impact on FI Ratings

Some positive impact from social issues:

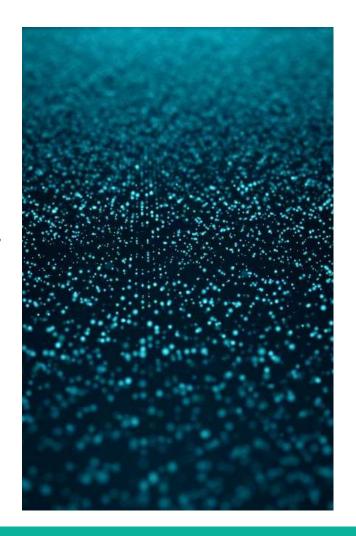
- International Personal Finance plc (BB-/Stable), a UK-based high cost consumer finance provider, is scored '4' for 'Exposure to Social impacts' as its business model exposes the company to shifts in consumer preference and regulatory scrutiny
- IDFinance Spain S.A. (B-/Stable), a Spanish online consumer finance lender targeting underbanked borrowers, is scored '4' for 'Customer Welfare, fair messaging & data security' to reflect regulatory scrutiny around pricing structures
- Freddie Mac and Fannie Mae (both AAA/Negative), two US government-sponsored entities that play core roles in the country's housing finance system, are scored '4[+]' for 'Human Rights, Community Relations, Access & Affordability' because their public missions underpin government support for them
- BNG Bank N.V. (AAA/Stable), a large Dutch policy bank, is scored '4[+]' for Human Rights, Community Relations, Access & Affordability' because its role in financing housing associations at low cost underpins government support for the bank



Examples of Environmental Impact on FI Ratings

Rare cases of environmental impact:

- Banks' well-diversified loan and investment portfolios, plus mitigating factors such as insurance cover, minimise physical climate-related risks associated with extreme weather events
- Kenyan bank ratings are negatively affected by 'Exposure to environmental impacts', scored at '3', to reflect the risk of droughts and related locust plagues on agricultural loans, for example
- TechnoLeasing LLC (B-/Stable), a Kazakhstan agricultural equipment lessor, is scored '4' for 'Exposure to environmental impacts' due to higher credit risk associated with weak harvests in periods of poor weather



Looking Ahead to ESG Impact Trends

- Governance issues likely to continue to dominate
- Environmental impact is likely to increase for banks as borrowers' transition pathways force up costs and alter debt repayment capacity, regulatory climate change stress-testing heightens awareness and possible prudential regulation change, and increased requirements for environmental disclosure adds to transparency. The insurance sector will likely face additional environmental impacts through market value disruption and mounting extreme weather-related claims (physical risk)
- Positive **Social** impact likely to continue to feed through to FI credit ratings given that social issues and sustainability strategies are rising in prominence for investors, regulators, and stakeholders generally



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