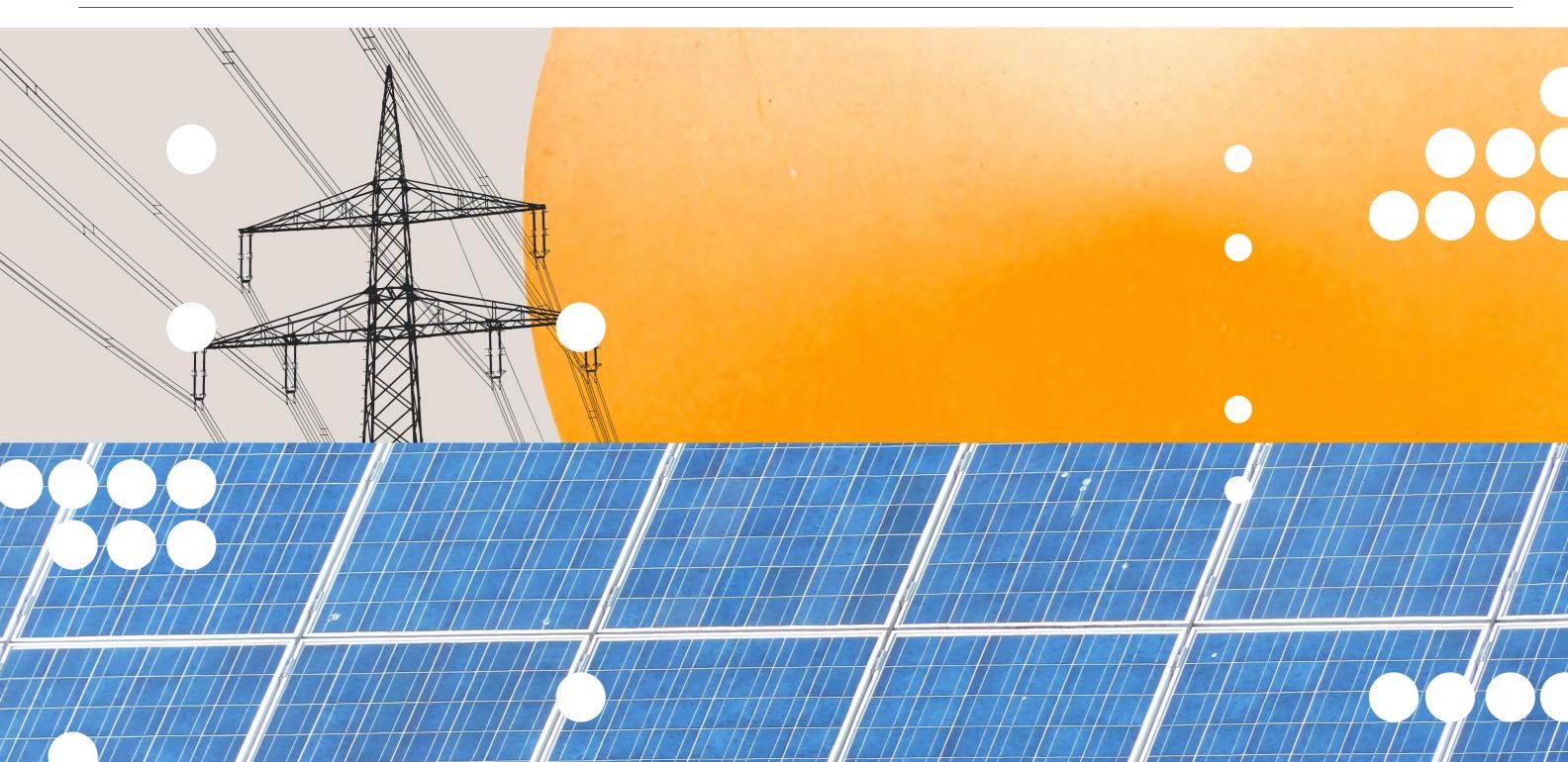
## ESG RATING: social and environmental come first



**ENVIRONMENTAL, SOCIAL, GOVERNANCE** 

AUGUST 2022





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### 1.

# Main results

The infographic below shows the ESG SCORES for each subsector of the electricity sector



60

fair performance level

very good performance level

80

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## ENVIRONMENTAL, SOCIAL, GOVERNANCE

The term ESG (Environmental, Social and Governance) was first coined in 2004 in the report "Who Cares Wins", a UN-led initiative to promote sustainable development.

Now part of everyday business vocabulary, ESG rating draws attention to the need to evaluate and tailor projects and investments to the demands of consumers, clients, lenders, and public and multilateral institutions related to environmental and social impacts.

Ratings are scores awarded by rating agencies or financial institutions to help inform capital allocation and investment decision-making. They assess the degree of risk and return on capital employed.

Currently, initiatives in the economic and business spheres use accurate methodologies to assess the main risks of projects and investments in terms of the ESG criteria – in other words, methodologies that are capable of measuring company performance in key ESG areas<sup>1</sup>.

While governance indicators have long been included in this assessment by lenders and investors, calls for a just and inclusive transition to a low-carbon economy mean that social and environmental issues must gain special relevance in this context.

That is why, following on from the publication of our environmental risk matrix – also geared towards financial institutions – and the guide How to include the environment in business math, Instituto Escolhas now offers an innovative tool to help banks and investment funds incorporate social and environmental aspects into investment decision-making.

More comprehensive and accurate ESG RATING places unprecedented emphasis on these aspects, ensuring they are properly weighted by financial institutions when allocating resources. The tool also helps organizations differentiate between initiatives that are truly committed to the desired ESG criteria and those which only adopt superficial procedures – commonly known as greenwashing.

2004

The term ESG was first coined in

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#### I.

## The electricity sector as an example

ESG RATING
methodology allows
adaptions to be
made to broaden the
scope of analysis
to include projects
and investments in
other infrastructure
sectors. To this end,
a weight is assigned
to each indicator
according to its
influence on the
overall rating.

As a point of reference, the ESG RATING design used data from different electricity generation projects: wind, solar, hydroelectric, gas-fired, and oil-fired power plants. Rather than obtain absolute values, the aim was to test the rating's sensitivity against selected variables to determine how identified impacts influence performance.

The results clearly show that wind and solar projects are better equipped to meet the ESG criteria. The indicators used in the assessment also show the disadvantages of investing in oil-fired and gas-fired power plants.

Prepared by the state-owned Energy Research Company (EPE), the document envisages significant investment to meet growing electricity demand, which is projected to rise by up to 40% between 2021 and 2031.

Escolhas believes that ESG RATING also addresses the challenge of setting standardized metrics and criteria for reporting socioenvironmental impacts in assessments of applications for financial support.

Hence, this proposal provides an instrument to help society and the market make strategic capital allocation decisions that meet expectations for corporate social responsibility in the twenty-first century.

BY CALCULATING AND APPLYING DETAILED SCORES TO SOLID BUSINESSES, ESG RATING PROVIDES BANKS, CUSTOMERS, AND INVESTORS WITH:

- The practical capacity to comply with Central Bank environmental, social, and climate risk requirements when deciding on capital allocation in electricity sector projects.
- The possibility of using clear and accurate metrics to prioritize investment in projects with high levels of social and environmental responsibility and that positively impact society.
- **Evidence of** the grave risk of "dirtying" Brazil's energy matrix if resources are allocated to fossil fuel-fired power plants as envisioned by the Eletrobras privatization law.

Growth forecast for electricity demand 2021 to 2031

2022

40%

Results show that wind and solar projects are better equipped to meet ESG criteria

# 3. Methodology

## How was the ESG RATING designed

**Although each rating** is free to choose indicators and their respective weightings in the calculation of the final score, this proposal is aligned with the criteria found in the literature and practical applications.

However, maintaining explicit emphasis on the socioenvironmental dimension of ESG RATIING, greater weight was assigned to the elements of E (environmental) and S (Social), ensuring they play a pivotal role in the decision-making process.

The indicators were selected based on six criteria — generality, relevance, materiality, measurability, availability, and impossibility of correlation with the other indicators — and subdivided into the following areas:

S E C T O R A L

directly linked to sector characteristics such as water usage and greenhouse gas emissions. estufa ORGANIZATIONAL

related to company management culture and capacity and response



2022

The ESG RATING is the sum of 57 separate indicators scored on a scale of 1 to 100.

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## ESG RATING in practice

To illustrate the applicability of ESG RATING simulations were performed for four subsectors of the electricity sector. We assessed real projects that are already in operation; however, ESG RATING may and should also be used to assess new projects and investments.

Two simulations were performed for each project applying different quality scenarios for the organizational indicators relating to GOVERNANCE: 60 (fair) and 80 (excellent)<sup>2</sup>.

For the environmental and social dimensions, we used real project parameters to establish some indicators. For example, measurement of greenhouse gas emissions, water usage, loss of vegetation cover, and other indicators specific to each type of plant for which there is data in the relevant literature or from financial and economic models developed by the authors of the study.

For other indicators, we created quality scenarios using the following scores applied equally across all cases to avoid distortions: 60 (fair), 80 (excellent), or 70 (average). The same was done for indicators whose scores should be 100 or zero, such as encroachment onto indigenous or Quilombola lands or conflicts for example.

Further details on the parameters can be found in the technical report <u>available here</u> (only in Portuguese).

#### **APPLICATION**

To illustrate the applicability of ESG RATING, simulations were performed for four subsectors of the electricity sector

- 1. Hydropower, focusing on the Amazon.
- 2. Thermoelectric power (oil and gasfired plants).
- 3. Wind power.
- 4. Solar power, focusing on the northeast of Brazil.

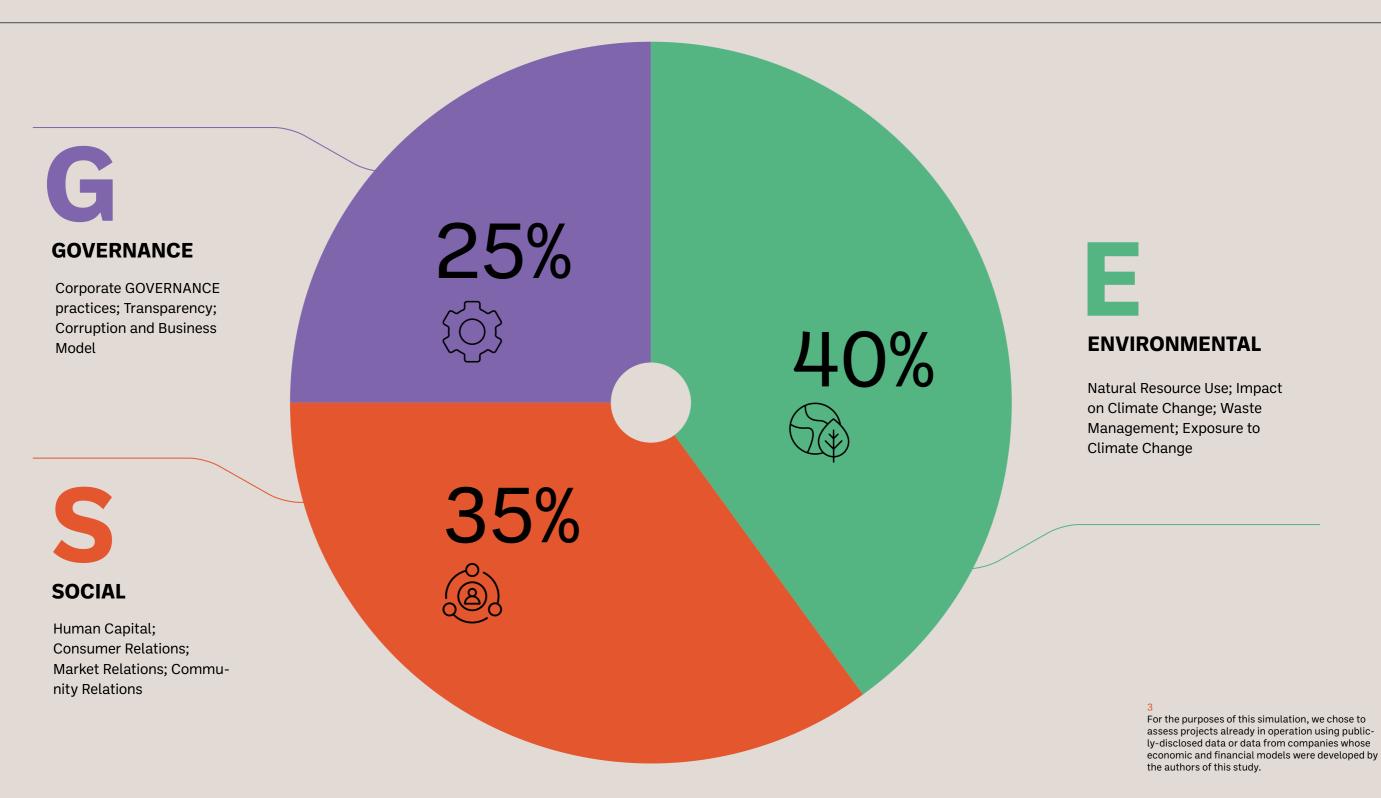


Pror the Business Model indicator, a different indicator relating to product sustainability was used from the well-known Canadian magazine Corporate

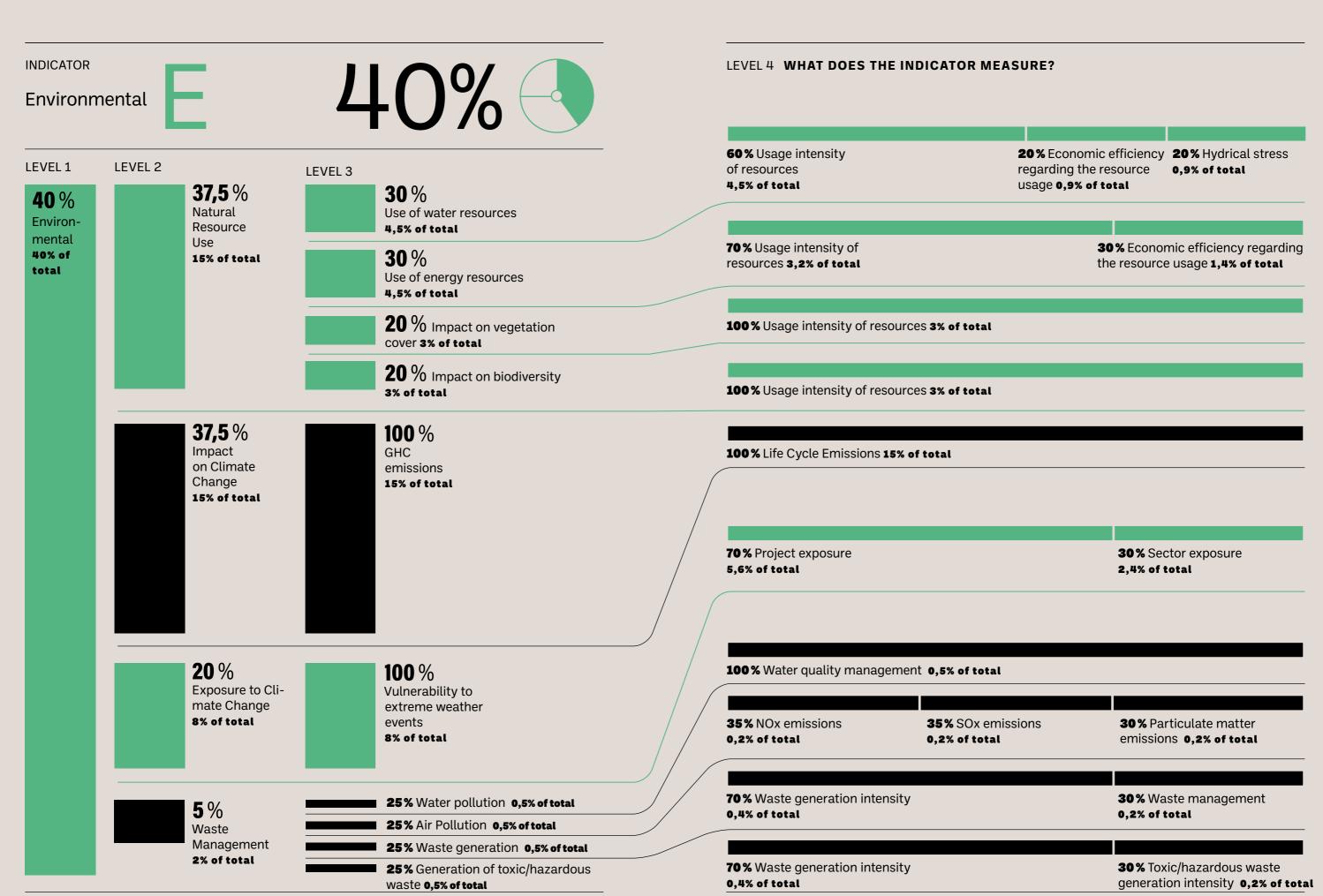
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**LEVEL 1** Indicators were divided into thee subgroups: E (environmental), S (social) and G (GOVERNANCE). E and S were given higher weighting in the calculation of the final score<sup>3</sup>. Also see the infographics on the following pages



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**INDICATOR** Social LEVEL 1 LEVEL 2 LEVEL 3 **50**% 100% **35**% Community Company Social relations impact on the 35% of community 17,5% of total total 17,5% of total 35% 25 % Diversity 3,1% of total Human Capital 12,3% of **25** % Health, security and legalit total 3.1% of total **20** % Non-discrimination 2,5% of total 15% Payment 1,8% of total 10% Training and education 1,2% of total 5% Turnover 0,6% of total **70** % Product and service 10 % non-compliance 2,5% of total Consumer relations 30% Client safety 1,1% of total 3,5% of total **70** % Supplier relations **5**% 1,2% of total Market relations 30% Anticompetitive practices 0,5% of total 1,8% of total

august

LEVEL 4 WHAT DOES THE INDICATOR MEASURE? **10%** Payroll **1,8%** of **6%** Community actions total 1,1% of total 23% Project impact 23% Encroachment 23% Social conflicts **7,5%** Jobs **7,5%** Taxes on indigenous or arising from the on surrounding area created 1,3% of generated Quilombola lands project 4% of total 4% of total 1,3% of total 4% of total 40% Presence of underrepresented groups 60% Presence of women in leadership in leadership positions 1,2% of total positions 1,8% of total **40%** Employment 50% Health and safety law claims leave Absenteeism 1,5% of total 1,2% of total 0,3% of total 30% Cases of 40% Adequacy of measures **30%** Training to combat taken in response to cases of discrimination discrimination discrimination 1% of total 0,7% of total 0,7% of total 60% Equal pay - by gender **40%** Remuneration relative to level of and race 1,1% of total hierarchy 0,7% of total 60% Duration of training **40%** Resources invested in training 0,7% of total 0,5% of total 100% Staff turnover 0,6% of total 70% Non-compliance contingency measures 30% Non-compliance penalties paid 1,7% of total 0,7% of total 70% Non-compliance contingency measures 30% Non-compliance penalties paid 0.7% of total 0,3% of total **70%** Non-compliance contingency measures 30% Non-compliance penalties paid 0,9% of total 0,4% of total 70% Non-compliance contingency measures 30% Non-compliance penalties paid

contents

0,2% of total

2022

0,4% of total

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**INDICATOR** LEVEL 4 WHAT DOES THE INDICATOR MEASURE? Governance LEVEL 1 LEVEL 2 LEVEL 3 30% **70**% **25**% 100% Presence of women and underrepresented groups in the Corporate Gover-**Board diversity** board by race and sex 5,3% of total Governance practices 5,3% of total nance 7,5% of total 40% of total 100% ESG-linked pay mechanisms 2,3% of total 30% Variable pay policy variável 2,3% of total **70%** Non-compliance contingency measures **30%** Non-compliance 2,6% of total penalties paid 1,1% of total 30% **50**% Transparency Litigation 7,5% of total 3,8% of total 100% Political exposure of the business 2,3% of total 30 % Political engagement 2,3% of total 100% Quality and scope of disclosed data 1,5% of total 20 % Reports 1,5% of total 30% 100% Quality and scope of anti-corruption policies 3% of total 40% Corruption Internal policies 7,5% of total 3% of total 100% Adequacy of measures taken in response to cases of corruption 3% of total 40% Actions 3% of total 100% Anti-corruption training 1,5% of total **20** % Dissemination of internal anti-corruption policies 1,5% of total **50** % ESG innovation 100% P&D geared towards ESG 1,3% of total 10% 1,3% of total **Business Model 50** % Clean revenue – based on the 2,5% of total 100% Sustainability of products/services provided Global 100 report 1,3% of total 1,3% of total

2022

# Which numbers and results matter most?



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The application of ESG RATING can help make the allocation of resources to energy generation compatible with the country's international commitments to the global response to the climate emergency. It is also an important tool for guiding policy-making and optimizing the application of resources, taking into account the costs hidden by current risk assessment methodologies employed for this type of investment.

Recent decisions in the sector demonstrate the need for an urgent change to the assessment system. A regrettable step in the wrong direction, the Eletrobras privatization law provides for the purchase of 8GW of electricity from gas-fired power stations: 6GW between 2026 and 2028, with a minimum of 70% inflexibility, and an additional 2 GW between 2029 and 20304. Besides being more expensive, this energy source is a waste of resources for investors when environmental costs are included in the equation – as highlighted by our report How to include the environment in business math?

Fossil-fuel plants are not the only bad investments that should be avoided by banks, funds and other investors when making lending or investment decisions. On the other side of the coin, however, there are good investments with potentially outstanding returns in the medium- to long-term that are underexplored or undervalued. Just as well we now have ESG RATING to help differentiate between investments.

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