

Department of Economics and Management Master's Degree Course in MIBE - Master in Business and Entrepreneurship

EU Taxonomy and its relation to ESG Ratings: A Comparative Analysis of Aligned and Non-Aligned Firms

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Abstract English

This master thesis examines the impact of alignment with the EU taxonomy on companies' ESG (Environmental, Social, and Governance) ratings, taking into account various factors such as financial performance, industry classification, and geographical location. The analysis confirms that alignment with the EU taxonomy generally leads to higher ESG ratings, particularly in the environmental rating. Larger companies benefit more from alignment, while company type and geographic location significantly influence the relationship between alignment and ESG ratings. Companies within the European Union tend to achieve better ESG results due to the strict requirements. The analysis also points to challenges for larger companies in environmentally intensive industries that struggle to fully meet the EU taxonomy standards. This research builds on and extends the study by Dumrose et al. (2022) by examining the impact of the EU taxonomy on the consistency and reliability of ESG ratings within a single rating provider. Besides that, a text-based content analysis of companies' ESG reports illustrates how the EU taxonomy influences how companies report on their sustainability practices. The results show that companies that align with the EU taxonomy report their environmental and governance strategies in more detail. This alignment leads to greater transparency and comparability of sustainability reports. The research emphasises the importance of the EU Taxonomy as a framework for promoting sustainable business practices and improving ESG ratings, which benefits companies and investors alike.

Abstract Italian

Questa tesi di laurea magistrale esamina l'impatto dell'allineamento alla tassonomia dell'UE sui rating ESG (ambientali, sociali e di governance) delle aziende, tenendo conto di vari fattori come la performance finanziaria, la classificazione del settore e la posizione geografica. L'analisi conferma che l'allineamento con la tassonomia UE porta generalmente a rating ESG più elevati, in particolare per quanto riguarda il rating ambientale. Le società più grandi traggono maggiori vantaggi dall'allineamento, mentre il tipo di settore e l'ubicazione geografica hanno un'influenza significativa sulla relazione tra allineamento e rating ESG. Le aziende dell'Unione Europea tendono a ottenere risultati ESG migliori grazie ai requisiti rigorosi della tassonomia UE. Tuttavia, l'analisi evidenzia anche le sfide per le aziende più grandi che operano in settori ad alta intensità ambientale, che faticano a soddisfare pienamente gli standard della tassonomia. Questa ricerca si basa sullo studio di Dumrose et al. (2022) e lo amplia, esaminando l'impatto della tassonomia UE sulla coerenza e l'affidabilità dei rating ESG all'interno di un singolo fornitore di rating. Inoltre, un'analisi del contenuto testuale dei report ESG delle aziende illustra come la tassonomia UE influenzi il modo in cui le aziende rendono conto delle loro pratiche di sostenibilità. È emerso che le aziende che si allineano alla tassonomia UE riferiscono in modo più dettagliato e completo sulle loro strategie ambientali e di governance, portando a una maggiore trasparenza e comparabilità dei rapporti di sostenibilità. La ricerca sottolinea l'importanza della tassonomia UE come quadro di riferimento per la promozione di pratiche aziendali sostenibili e per il miglioramento dei rating ESG, a vantaggio sia delle aziende che degli investitori.

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List of Abbreviations

CapEx Capital Expenditure

- CSRD Corporate Sustainability Reporting Directive
- ESG Environmental, Social, and Governance
- EU European Union
- **GRI** Global Reporting Initiative
- **KPI** Key Performance Indicator
- NACE Nomenclature statistique des Activités économiques dans la Communauté Européenne
- OLS Ordinary Least Squares
- **OpEx** Operational Expenditure
- SFRD Sustainable Finance Disclosure Regulation
- SME Small and Medium-sized Enterprises
- TRBC Thomson Reuters Business Classification

1 Introduction

Sustainability has become an important issue for businesses, governments, and individuals worldwide in recent years. Companies are now expected to be accountable not only for their financial performance. This growing expectation has led to the development and increasing importance of ESG (environmental, social, and governance) criteria. In recent years, ESG criteria have become essential in assessing how companies manage risks and opportunities related to environmental issues, social responsibility, and governance structures (Friede et al., 2015). These criteria are now at the center of business valuation. It offers a view that goes further than conventional financial metrics. Thus, ESG ratings are increasingly present in investment decisions, consumer behavior and regulatory policy (Eccles et al., 2014). In response to these trends, the European Union has made several efforts to promote sustainable economic activities. These efforts are supported by the EU taxonomy, which is an integral part of the European Green Deal. The European Green Deal, launched in December 2019, is a plan to make Europe climate-neutral by 2050. This plan is instrumental in leading Europe towards a more sustainable and environmentally friendly future. Its goal is to make sure that the EU does not produce more greenhouse gases than it can remove from the atmosphere (European Commission, 2019). The EU Taxonomy provides a standardised framework for identifying and categorising environmentally sustainable economic activities. The definition of standards is intended to prevent greenwashing and increase the transparency of sustainability reporting (European Commission, 2023). The taxonomy will help companies align their activities with sustainability objectives and make it easier to integrate these objectives into their business strategies. It also provides investors and stakeholders with a reliable framework to determine which activities are truly sustainable. Additionally, it will help to increase the accuracy of ESG ratings and support more informed financial and investment decisions (Eccles and Klimenko, 2019). Since the EU Taxonomy is relatively new, companies began aligning their processes with the EU Taxonomy criteria in 2021. In the following year large public-interest entities with more than 500 employees must disclose how their activities align with the taxonomy. And then by 2023, these companies were expected to provide more detailed reports on their compliance. This regulatory environment emphasises the growing need for businesses to adapt to these standards, reflecting the relevance of sustainability in modern business practices (European Parliament and the Council of the European Union, 2021, Article 10).

The implementation of the EU taxonomy is not without its challenges. While alignment with the taxonomy can improve a company's environmental rating in ESG ratings, there are significant practical barriers (Dumrose et al., 2022). For example, a study by PwC points to problems such as inconsistent data quality, difficulties in achieving comparable data, and incomplete adoption of the taxonomy criteria by companies (PwC, 2024). Despite these challenges, the consistency and standardisation offered by the EU taxonomy are expected to enhance the effective-ness of ESG ratings. For instance, Dumrose et al. (2022) found a positive correlation between adherence to the EU taxonomy and higher environmental ratings across different ESG rating providers. This correlation suggests that companies that follow more closely to the taxonomy achieve better Environmental (E) ratings (Dumrose et al., 2022).

Building upon the foundation laid by Dumrose, Rink, and Eckert (2022), this study extends their research by investigating the differences in ESG ratings between companies aligned with the EU Taxonomy and those that are not, as assessed by a single rating provider. The purpose of this additional level of analysis is to explore in more depth whether the alignment with the EU taxonomy leads to more consistent and favourable ESG ratings within the framework of a rating agency. Through focusing on a single provider, this extension attempts to isolate the impact of taxonomy alignment on ESG scores, providing a more detailed insight into the benefits of taxonomy compliance. This approach allows for a detailed examination of how taxonomy alignment might affect the reliability of ESG ratings. It further provides evidence on whether alignment with the EU taxonomy can be a reliable measure of sustainability performance. The findings from this extended analysis will contribute to the ongoing discourse on the harmonization of ESG ratings and offer practical implications for companies, investors, and rating agencies.

With these insights this thesis tries to analyse how the alignment with the EU taxonomy influences ESG ratings to close a gap in understanding the relationship between regulatory frameworks and sustainable business practices. Therefore this thesis will have a deeper look in analysing whether companies that follow the taxonomy criteria achieve higher ESG ratings than those that do not. The central research question of this thesis results: *How does alignment with the EU Taxonomy affect companies' ESG ratings?* To explore this question, the thesis will investigate several key areas:

- 1. To what extent does alignment with the EU Taxonomy's eligible revenue criteria correlate with higher ESG ratings?
- 2. How do financial performance metrics, such as return on assets (ROA) and total revenue, interact with alignment with the EU Taxonomy to influence ESG ratings?
- 3. Does the impact of EU Taxonomy alignment on ESG ratings vary by industry and geographic location?
- 4. How do companies describe their compliance with the EU Taxonomy in public reports, and how do they perceive its impact on their sustainability practices?

1.1 Proceedings

This thesis begins by focusing on reporting standards. In Chapter 2, it discusses the relevance of sustainability reporting and the different methodologies behind ESG ratings. Chapter 3 provides an overview of the institutional context. It discusses how the European Union defines sustainability, focusing on the EU Taxonomy and its relevance for ESG ratings. In addition, it describes relevant regulations such as the Corporate Sustainability Reporting Directive (CSRD) and the Sustainable Finance Disclosure Regulation (SFDR).

Chapter 4 is dedicated to the literature review and presents studies on ESG ratings, the EU Taxonomy, and sustainability reporting. The study, which will be the base for the analysis, will also be described. Chapter 5 then describes the hypothesis development. It is based on findings from the existing literature and explains how the EU taxonomy could influence ESG ratings. Possible influencing factors such as financial performance indicators and sector affiliation are examined. Chapter 6 focuses on the research methodology. It describes the data collection process in detail, including the tools and techniques used. In addition, the sample of companies studied is analysed regarding their compliance with the EU taxonomy. The results of the quantitative analysis are presented in chapter 7. The hypotheses are tested and the relationship between compliance with the EU taxonomy and environmental ESG ratings is examined. Various statistical methods, including robust regression models, support the analysis. Chapter 8 compares the results of this research with previous studies to better understand how EU taxonomy alignment affects ESG ratings. It also discusses the implications of the findings for companies, investors, and policy makers. Chapter 9 analyses the research limitations and makes recommendations for future research areas. Chapter 10 concludes by summarizing the key findings of the study. It offers practical recommendations for companies and decision-makers and reflects on the broader implications of the findings for sustainable finance.

2 Reporting Standards

2.1 Sustainability Reporting

Sustainability reporting involves sharing detailed information about a company's ESG impacts. Contrary to financial reporting, which follows various accounting standards, ESG reporting practices are less defined or voluntary depending on the type of company. This can lead to inconsistencies in the report content or even to quality concerns about the information disclosed (World Economic Forum, 2020; Erkens et al., 2015). In spite of these challenges, sustainability reports are needed to inform stakeholders like investors, and customers about a company's ESG performance. Effective sustainability reporting can influence investment decisions, stakeholder trust, and regulatory compliance (Misiuda and Lachmann, 2022). These reports also help companies demonstrate their commitment to ESG principles by providing a structured framework for measuring and communicating a company's commitment to sustainable practices (Global Reporting Initiative, 2021b).

Sustainability reporting is governed by various international and regional frameworks that establish the guidelines for ESG disclosures. Although there is diversity, most companies rely on one of five main ESG reporting frameworks developed by prominent professional organizations. These include the Global Reporting Initiative (GRI), the Sustainability Accounting Standards Board (SASB), the Carbon Disclosure Project (CDP), the International Integrated Reporting Council (IIRC), and the Carbon Disclosure Standards Board (CDSB) (Threlfall et al., 2020). Among these frameworks, GRI is notable because it is the preferred standard for about twothirds of companies that use ESG guidelines (Threlfall et al., 2020). The GRI framework is known for its broad range of ESG topics, which provides standardised reporting across different industries (Global Reporting Initiative, 2021). Through constant changes in the legal framework or regional requirements, sustainability reporting is being continuously developed. In Europe, this process is driven primarily by the newly introduced Corporate Sustainability Reporting Directive (CSRD). This requires many European companies to publish detailed information on their sustainability report (European Commission, 2021). The CSRD will be explained in detail in the next chapter. In the United States, the Securities and Exchange Commission (SEC) continues to press for more standardized climate-related disclosures. These regulations are designed to help investors gain access to reliable ESG information as it becomes increasingly important for making informed investment decisions (U.S. Securities and Exchange Commission, 2021). Companies use different methods for sustainability reporting based on what suits their goals and the expectations of their stakeholders. Some choose to create separate sustainability reports that focus only on ESG topics. Others prefer integrated reports, which combine financial and non-financial data to give a complete picture of the company's overall performance and sustainability practices. Additionally, many companies now include sustainability sections in their annual financial reports, showing how ESG factors are becoming part of their main business strategies (Threlfall et al., 2020).

A typical sustainability report provides an overview of a company's ESG performance and is structured to comply with legal requirements. The report usually begins with a summary high-lighting its main achievements, objectives, and strategic initiatives. This is followed by a company profile that describes the company's mission, values, and governance structure (Global Reporting Initiative, 2021a). The environmental section is based on the European Sustainability Reporting Standards (ESRS) and covers topics such as energy consumption, greenhouse gas emissions, and resource management (European Parliament and the Council of the European Union, 2023). Social performance sections address labor practices, human rights, diversity, and community engagement. At the same time, governance aspects are also covered in line with ESRS, fulfilling both EU regulatory expectations and stakeholder demands (Global Reporting Initiative, 2021b, GRI 401, 402, 405, 413)(European Parliament and the Council of the European Union, 2023).

The ESG objectives and targets demonstrate the company's commitment to continuous improvement. The report contains quantitative data that provides detailed information and is often validated by third parties to strengthen its credibility. Stakeholder engagement is summarised and shows how feedback influences the company's sustainability strategy. In addition, the report establishes a link between sustainability efforts and economic performance (GRI and SASB, 2021).

2.2 ESG Ratings

ESG ratings evaluate a company's performance across three dimensions: environmental, social, and governance. The environmental dimension rates a company's impact on the natural environment, concentrating on areas such as climate change mitigation, energy efficiency, resource management, environmental protection, and biodiversity conservation. The social dimension rates how a company maintains relationships with its employees, suppliers, customers, and communities. This includes labor practices, health and safety measures, and human rights policies. The governance dimension evaluates the quality and transparency of a company's management and governance structures, including board composition, executive compensation, shareholder rights, and ethical conduct (Clark et al., 2015, p. 11 ff.).

Various agencies employ distinct methodologies to calculate ESG ratings, involving data collection, scoring, weighting, and aggregation. Data collection involves gathering information from multiple sources, including public disclosures, regulatory filings, or news articles. Some agencies also engage directly with companies to obtain more detailed information (OECD, 2023; Diligent Insights, 2023).

Predefined criteria for ESG factors can be used to evaluate a company's overall sustainability performance and business activities. These criteria can vary between different sectors to enable comparability. For example, environmental factors have a stronger weighting in sectors with a strong environmental impact. On the other hand, governance factors have a greater weighting in the financial sector as these have a lower environmental impact (OECD, 2023; Mayor, 2019). Individual scores for various ESG factors are aggregated into a composite score, representing the company's overall performance across all dimensions. Mathematical models and algorithms can be used to combine scores that reflect the weighted impact of each factor in this aggregation process (OECD, 2023; Diligent Insights, 2023).

While the general methodology for ESG ratings follows similar steps, some differences exist between rating agencies in topics like data sources, weighting criteria, and scoring models. There are several agencies like MSCI, Sustainalytics, Refinitiv or S&P Global calculating such ESG ratings. MSCI uses a rules-based methodology to score companies on an industry-relative scale, focusing on their exposure to ESG risks and how well they manage those risks compared to peers. MSCI's approach emphasises risk management and the financial implications of ESG factors. The ratings are derived from a range of publicly available data and proprietary models that analyse over 1,000 data points for each company. MSCI's system is adjusted in line with specific industries to reflect its unique risk profile (MSCI, 2023). Sustainalytics evaluates companies based on their exposure to material ESG risks and how well they manage those risks. The final risk rating is categorized into levels of negligible, low, medium, high, or severe risk, indicating the company's overall risk profile. Sustainalytics' methodology involves extensive data collection from company disclosures, regulatory filings, and direct engagement with companies. The evaluation considers the company's management of ESG risks and the impact of those risks on its operations (Sustainalytics, 2023). The evaluation at Refinitiv is based on a large number of ESG indicators. This data is collected directly from various sources, such as databases, public announcements or companies. They are then weighted and evaluated based on their relevance to the industry. The large number of factors used in Refinitiv's weighting process attempts to provide a holistic assessment of a company. The data is updated regularly. The methodology used by Refinitiv attempts to minimize distortions in the ESG rating as far as possible and to enable a fair measurement (Refinitiv, 2024). S&P Global combines quantitative scores and qualitative measurements in its ESG Evaluation. This evaluation considers a company's ESG profile and preparedness for future risks, incorporating both current performance and forward-looking strategies. S&P Global's methodology involves analyzing a company's disclosures, conducting interviews with company management, and using proprietary models to assess ESG performance (S&P Global, 2023).

Although ESG ratings have been widely adopted by the investment industry, they have not been without their critics. In particular, the lack of comparability and consistency between the different agencies that issue the ratings has been criticised. Thus, each agency has its own styles and guidelines, applying different criteria and having different weightings, resulting in entirely different scores for one firm. This situation might create confusion among the investors and, in the long run, lead to a lack of confidence in these ratings (Berg et al., 2022).

In addition, most companies would be willing to spend more money on ESG reporting and improvements. This could lead to a higher rating for them. This is a disadvantage because small companies, who might perform well in terms of ESG content, may not have the means to demonstrate such efforts. Such disparities raise questions about the fairness and equity of ESG ratings (Drempetic et al., 2020).

(Chatterji et al., 2016) critiques whether ESG ratings effectively guide investment decisions to-

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wards genuinely sustainable and ethical companies. They argue that high ESG ratings do not always correlate with positive social or environmental outcomes and that focusing on ratings might divert attention from substantive changes in corporate behavior. Nevertheless, ESG ratings help investors identify long-term risks because companies with low ratings are more prone to regulatory penalties, reputational damage, and inefficiencies, making them higher-risk investments. Understanding these risks enables investors to anticipate potential financial impacts (Edmans and Kacperczyk, 2022; Dong et al., 2022). Additionally, companies with strong ESG practices often see better financial performance due to operational efficiencies, innovation, and stronger brand loyalty (NYU Stern Center for Sustainable Business, 2021; European Commission, 2022b).

3 Institutional Context

3.1 European Green Deal

As already mentioned in the Introduction, the European Union launched the European Green Deal with the ambitious goal of becoming climate-neutral by 2050, making it the first climateneutral continent. To achieve this, the EU aims to reduce greenhouse gas emissions by at least 55% by 2030 compared to 1990 levels and plans to plant 3 billion additional trees by 2030 (European Commission, 2024b). Achieving this target will require major changes in several sectors, including energy, transport, agriculture, and industry. For instance, the EU wants to increase the use of renewable energy sources. This shift is essential to reduce the dependence on fossil fuels, which are a major contributor to greenhouse gas emissions. The transition to renewable energy will require large investments in infrastructure, such as expanding wind farms, upgrading power grids, and increasing energy storage capacity. This transition is needed to reduce emissions and improve energy security and clean, affordable energy (European Commission, 2019, Section 2.1.2). Further, the transport sector plans big changes as the EU aims to reduce carbon emissions from vehicles by promoting electric vehicles through expanded charging infrastructure and incentives. Additionally, the EU will invest in cleaner fuels and improve public transport and cycling infrastructure (European Commission, 2019, Section 2.1.5). The industrial sector will focus on modernisation and decarbonisation, especially in the steel, cement, and chemicals industries. The EU supports adopting cleaner technologies, increased energy efficiency, and circular economy practices to reduce waste and emissions (European Commission, 2019, Section 2.1.3). Finally, the Green Deal emphasises protecting nature and biodiversity, aiming to minimise waste, promote recycling, and restore ecosystems across Europe (European Commission, 2019, Section 2.1.7). The European Green Deal also positions the EU as a global leader in climate action. EU leadership is essential to drive global action to meet the goals of the Paris Agreement, an international treaty to limit global warming (European Commission, 2019, Section 3).

Financing the Green Deal is another issue as there are major investments will be required. The European Green Deal Investment Plan aims to mobilise at least EUR 1 trillion in sustainable investment over the next decade. This includes funding from the EU budget, national budgets, and private investments. By aligning financial resources with sustainability goals, the EU is ensuring that the necessary funds are available to support the green transition (European Commission, 2020). The action plan for sustainable finance from 2018 is an ambitious step for EU investment. It aims to encourage private investments in environmentally friendly technologies and sustainable business practices. Public funds alone are not enough to achieve the goal of climate neutrality by 2050. The plan aims to involve the private sector to a greater extent (European Commission, 2018a). A central component of the action plan is the EU taxonomy. This sets out criteria for determining whether an economic activity is environmentally sustainable. The taxonomy is intended to help investors, companies, and political decision-makers identify activities that contribute to the EU's environmental goals. These include the reduction of CO2 emissions, adaptation to climate change, and the protection of biodiversity. Clear definitions and a common language are intended to prevent sustainability from being a pretense. At the same time, the intention is to secure that the investments actually support the environmental goals (European Commission, 2018b, Section 2.1). The action plan also requires institutional investors and asset managers to disclose how they integrate ESG factors into their investment decisions. This increased transparency should help investors to make more informed decisions. The plan also promotes the development of standards for green bonds. It introduces new benchmarks, such as the EU climate benchmarks and the Paris target benchmarks. These are intended to provide guidance for portfolios that are aligned with the goals of the Paris Agreement (European Commission, 2018b, Section 2.5). Another focus of the action plan is the integration of sustainability into corporate governance. The reforms are intended to help ensure that companies provide detailed information on how sustainability aspects affect their business activities and finances (European Commission, 2018b, Section 4.2).

3.2 Corporate Sustainability Reporting Directive

Sustainability reporting allows companies to demonstrate the extent how they are meeting their environmental, social, and governance responsibilities. Access to transparent information on how companies fulfill their responsibilities and impacts is especially relevant for all stakeholders (European Commission, 2024a). To standardise and improve sustainability reporting, the Corporate Sustainability Reporting Directive (CSRD) was introduced in January 2023. This replaced the Non-Financial Reporting Directive (NFRD) with a broader target group. The objective now is to require all small, medium-sized, and large companies listed on EU-regulated markets to submit more detailed reports on their sustainability practices in line with EU standards. This will result in an increase in the number of companies subject to reporting requirements from approximately 11,700 to 50,000 by 2028 (European Parliament, 2022) (European Commission, 2022a, Article 2). Over the next three years, the CSRD will be implemented for different firms gradually: Large companies that are already required to submit sustainability reports in line with the NFRD standards will begin reporting for the 2024 financial year and publish their reports in 2025. Subsequently, other large companies with more than 250 employees, a turnover of EUR 40 million, or a balance sheet total of €20 million will be required to report from the 2025 financial year, with publication in 2026. Listed SMEs, small and noncomplex credit institutions, and captive insurance companies will be required to report for the 2026 fiscal year, with publication in 2027. Furthermore, non-EU companies with subsidiaries or branches in the EU that employ more than 500 people or have a substantial turnover in the EU will also be required to comply with these reporting standards from 2025 onwards (European Commission, 2022a, Article 4). In addition, the introduction of the new directive has resulted in further requirements. One main change is the obligation for the reported sustainability information to be verified by an independent third party. This external confirmation serves to strengthen confidence in the sustainability reports and establish that the reported data is correct and complete. According to Article 26a of the CSRD, the information must be confirmed by an audit, known as assurance services. This requirement goes beyond the previously applicable NFRD and makes sure that the same auditing standards apply to sustainability reports as to financial reports (European Commission, 2022a, Article 26a). Furthermore, companies are now obliged to comply with the European Sustainability Reporting Standards (ESRS). Article 19b emphasises that they are based on global initiatives such as the standards of the Global Reporting Initiative (GRI) and the recommendations of the Task Force on Climate-related Financial Disclosures (TCFD) (European Commission, 2022a, Article 19b). Another element of the CSRD is the obligation to digitise sustainability information. Companies must make their reports available in a structured electronic format, which improves the accessibility and comparability of data for investors, regulatory authorities, and other stakeholders. Therefore, this measure aims to increase transparency and optimise the flow of information so that relevant data can be analysed more quickly and efficiently (European Commission, 2022a, Article 19d). Underlining the need to embed environmental responsibility as an integral part of corporate decision-making processes, the CSRD requires companies not only to report on sustainability aspects but also to actively integrate them into their business strategies and decisions. This means that companies are obliged to identify and assess sustainability risks and incorporate them into their risk and opportunity assessment. The inclusion of these requirements in the CSRD makes it clear that the European Union considers environmental responsibility to be an integral part of sustainable corporate governance. This also increases the pressure on companies to act sustainably in their business models in the long term (KPMG, 2023).

3.3 Sustainable Finance Disclosure Regulation

The Sustainable Finance Disclosure Regulation (SFDR) is another European Union regulation that is linked to the EU Taxonomy. The SFRD generally aims to improve the transparency and comparability of information on the sustainability of financial products. It is also part of the aforementioned EU Sustainable Finance Action Plan of 2018 (European Commission, 2024d). SFDR includes mandatory disclosure requirements for financial market participants and financial advisors operating in the EU or selling products to EU clients. The regulation requires actors to disclose in detail how they consider sustainability risks in their investment processes and the environmental and social impact of their investments (European Parliament and Council of the European Union, 2019, Article 1). The regulation differentiates between the disclosure requirements for different types of financial products. The disclosure obligations depend on the extent to which sustainable investment objectives are followed by the products. This applies to financial products that promote environmental or social characteristics (Article 8) and those that explicitly pursue sustainable investment objectives (Article 9) (European Parliament and Council of the European Union, 2019, Article 1, 8-9). The EU taxonomy has a direct impact on the regulation of sustainability risk disclosure in the financial services sector, in particular on Articles 5 and 6 of the Taxonomy Regulation. These articles require all financial products covered by Articles 8 and 9 of the SFDR to disclose the extent to which their investments comply with the EU Taxonomy criteria. According to Article 5 of the Taxonomy Regulation, financial products falling under Article 9 of the SFDR must be taken into account. These products are designed to promote sustainable investment. Further a detailed description is required of the amount and scope of investments in economic activities that are categorised as sustainable in the sense of the EU taxonomy. This means that products that explicitly pursue sustainable investment objectives must demonstrate which of their investments actually comply with the environmental objectives and criteria of the taxonomy (European Parliament and Council of the European Union, 2020, Article 5). According to Article 6 of the Taxonomy Regulation, financial products falling under Article 8 of the SFDR are to be covered. Although these products promote environmental and/or social characteristics, they do not necessarily have the primary objective of sustainable investment. Again, providers of such financial products must disclose the extent to which the underlying investments fulfill the criteria of the EU taxonomy (European Parliament and Council of the European Union, 2020, Article 5).

3.4 EU Taxonomy

As previously mentioned, the EU Taxonomy is a classification system established by the European Union in 2020 to identify environmentally sustainable economic activities. It is part of the broader European Green Deal and the EU's Sustainable Finance Framework. The main goal is to provide guidelines on what constitutes a sustainable activity, helping to direct investments towards eco-friendly projects and preventing green washing (European Commission, ndb). Green washing is a tactic used by companies to falsely advertise their products, services or strategies as environmentally friendly in order to appeal to consumers and investors. Such claims or exaggerations about sustainability are misleading (European Parliament, 2024). Article 1 of the EU Taxonomy Regulation outlines criteria for identifying whether an economic activity qualifies as environmentally sustainable, aiming to determine the degree to which an

investment can be deemed environmentally sustainable (European Parliament and Council of the European Union, 2020, Article 1). This is intended to create the basis for assessing the sustainability of investments. To achieve this, a common understanding and a definition of the term "sustainable" is required (European Parliament and Council of the European Union, 2020, Article 1). The taxonomy thus offers financial and non-financial companies the opportunity to use a standardised definition of sustainable activities. This promotes sustainable investments and strengthens investor confidence in the financial markets. It also helps to reduce market fragmentation by promoting climate-friendly practices. The taxonomy also facilitates the expansion of sustainable investments by creating transparency and comparability. This is a precondition for channelling capital into green initiatives (European Commission, ndb). The EU taxonomy will also facilitate the development of EU-wide standards for green financial products, such as the European Green Bond Standard, as green bonds use the Taxonomy Regulation to determine which issues are considered green (Council of the European Union, 2023). The EU taxonomy is based on four criteria according to which any type of economic activity can be classified as environmentally sustainable. These criteria are listed in Article 3 of the EU Taxonomy Regulation (European Parliament and Council of the European Union, 2020, Article 3):

 Substantial Contribution: The activity must substantially contribute to one or more of the six environmental objectives, which are explained on the next pages. Activities must meet specific benchmarks or thresholds demonstrating a meaningful impact on these objectives. These may include, for example, a measurable reduction in greenhouse gas emissions or improvements in resource efficiency (European Parliament and Council of the European Union, 2020, Articles 9-16).

- 2. **Do No Significant Harm (DNSH)**: Under this condition, the activity must not significantly harm any of the six environmental objectives. This assures that while contributing positively to one area, the activity does not negatively impact others (European Parliament and Council of the European Union, 2020, Article 17).
- 3. **Minimum Safeguards**: Economic activities must comply with minimum social and governance standards, ensuring respect for human and labor rights. These safeguards are in line with international guidelines, including the OECD Guidelines for Multinational Enterprises and the United Nations Guiding Principles on Business and Human Rights. Such practices include fair labor standards, avoidance of child labor, workplace safety regulations, and respect for the rights of local communities. Compliance with these standards is a precondition for an activity to be considered environmentally sustainable (European Parliament and Council of the European Union, 2020, Article 18).
- 4. Technical Screening Criteria: The activity must meet detailed technical screening criteria established by the European Commission. These criteria provide specific, measurable benchmarks for assessing whether an activity substantially contributes to an environmental objective and does no significant harm. For instance, the criteria may set the maximum allowable level of emissions for industrial processes or require the use of recycled materials in product manufacturing. These technical standards make sure that the activities meet high sustainability requirements and can be evaluated (European Parliament and Council of the European Union, 2020, Articles 10-15).

The overarching conditions are supplemented by specific criteria. These contain technical screening standards to determine whether an economic activity makes a contribution to one or more of the six environmental objectives:

- Climate change mitigation: Activities must significantly reduce greenhouse gas emissions. Examples include renewable energy projects, energy efficiency improvements, and the deployment of low-carbon technologies. The criteria specify emission thresholds or performance benchmarks that activities must meet (European Parliament and Council of the European Union, 2020, Article 10).
- 2. Climate change adaptation: Activities must enhance resilience to climate change impacts. This involves reducing vulnerability to climate risks and increasing adaptive capacity. Examples include infrastructure projects designed to withstand extreme weather events or climate-resilient agricultural practices (European Parliament and Council of the European Union, 2020, Article 11).
- 3. Sustainable use of water and marine resources: Activities should foster the proper conservation and economic usage of water resources. This involves use of water treatment technologies, water reuse, management and control of water pollution. This may call for pollution prevention technologies, water conservation measures and sustainable management of water resources (European Parliament and Council of the European Union, 2020, Article 12).

- 4. Transition to a circular economy: It is essential that activities are designed to support resource efficiency and waste reduction. This can be achieved by including recycling, remanufacturing, sustainable product design, and the adoption of circular business models. The objective of these activities is to reduce the environmental impact of production and consumption by minimising waste and promoting the reuse of materials (European Parliament and Council of the European Union, 2020, Article 13).
- 5. **Pollution prevention and control**: Activities must aim to conserve and restore natural habitats and biodiversity. Examples include reforestation projects, conservation of endangered species, restoration of degraded ecosystems, and the implementation of sustainable land management practices (European Parliament and Council of the European Union, 2020, Article 14).
- 6. **Protection and restoration of biodiversity and ecosystems**: Activities must aim to conserve and restore natural habitats and biodiversity. Examples include reforestation projects, conservation of endangered species, restoration of degraded ecosystems, and the implementation of sustainable land management practices (European Parliament and Council of the European Union, 2020, Article 15).

The EU Taxonomy Regulation introduces a phased implementation of reporting requirements, with mandatory reporting from January 2022 (see Table 1). Companies will have to disclose the proportion of their activities that are either taxonomy-eligible or taxonomy-aligned. Taxonomy-eligible activities fall under the EU taxonomy but do not yet meet all sustainability criteria. Taxonomy-aligned activities meet all requirements (European Parliament and the Council of the European Union, 2021, Article 10) (European Commission, nda).

The specific reporting requirements and deadlines are detailed in the Disclosure Delegated Act, which complements Article 8 of the Regulation. Companies falling within the scope of the

CSRD must report in their annual reports on the extent to which their activities are covered by the EU taxonomy (taxonomy-eligibility) and comply with the criteria set out in the Taxonomy Delegated Acts (taxonomy-alignment). Other companies not covered by the CSRD may choose to disclose this information voluntarily in order to gain access to sustainable finance or for other business reasons (European Commission, nda). Both financial and non-financial companies must provide additional information besides the key performance indicators. Nonfinancial companies are required to disclose the proportion of their turnover, capital expenditure (CapEx), and operating expenditure (OpEx) related to taxonomy-eligible and taxonomy-aligned activities. Financial companies, such as asset managers, banks, investment firms, and insurance companies, must disclose how their activities contribute to environmental sustainability. For example, banks must report their Green Asset Ratio (European Parliament and the Council of the European Union, 2021, Article 10; Annexes I,III,V).

In 2021, companies started to align their internal processes with the taxonomy criteria and collect the required data. From the beginning of 2022, large public-interest entities with more than 500 employees were required to disclose the proportion of their activities covered by the taxonomy. From 2023, companies were also required to report the proportion of their activities that are both taxonomy-eligible and taxonomy-aligned, including KPIs such as revenue, CapEx, and OpEx related to these sustainable activities (European Parliament and the Council of the European Union, 2021, Article 10).

| Date | Non-Financial Entities | Financial Entities |
|--------------------|----------------------------------|------------------------------------|
| As of January 2022 | Report Taxonomy eligibility for | Report Taxonomy eligibility for |
| | the previous calendar year | the previous calendar year |
| As of January 2023 | Report eligibility and alignment | Report Taxonomy eligibility for |
| | for the previous calendar year | the previous calendar year |
| As of January 2024 | Report eligibility and alignment | Report both eligibility and align- |
| | for the previous calendar year | ment for the previous calendar |
| | | year |
| As of January 2025 | Not applicable | May include estimates on Taxon- |
| | | omy alignment for DNSH assess- |
| | | ments of third-country exposures |
| | | (based on 2024 review) |
| As of January 2026 | Not applicable | Include Taxonomy alignment |
| | | of their trading book and |
| | | fees/commissions for non- |
| | | banking activities |

Table 2: Taxonomy Reporting Requirements by Date, adapted from European Commission

By 2023, these reporting efforts had shown initial results. Around 600 European companies reported investments in taxonomy-aligned activities totalling EUR 191 billion. This number increased to EUR 249 billion by 2024, resulting in EUR 440 billion for 2023 and 2024 combined. The utility sector, specifically electricity utilities, saw the highest level of investment, with more than 60 percent of activities being taxonomy-aligned. Financial companies, including asset managers, banks, investment firms, and insurance companies, have further refined their

reporting, for example, by disclosing their Green Asset Ratio (European Commission, 2024c; European Parliament and Council of the European Union, 2020). The full reporting requirements can be seen in Table 2. Activities and reports will be routinely reviewed and refreshed every year in order to ensure adherence to the EU Taxonomy. As the taxonomy is extended to encompass more activities and sectors, it becomes necessary to be in the know of new year's criteria and reporting requirements. Also, the aforementioned taxonomy is subject to regular updates through delegated acts in order to remain relevant and able to address current environmental needs. Such updates have involved rules about the activities which help the most in combating or mitigating adverse changes to climate as well as rules which concern specific gas and nuclear energy activities (European Commission, ndb).

The impact of these regulations and updates is evident in reports like the EY EU Taxonomy Barometer 2023, highlighting challenges and progress in meeting compliance. The report shows that, on average, less than 40 percent of key performance indicators (KPIs) are eligible under the taxonomy, with a noticeable gap between eligibility and alignment. For instance, only 8 percent of turnover truly meets all alignment requirements, even though 25 percent of turnover is categorized as eligible under the taxonomy. The report also highlights how eligibility rates differ between countries and industries, with greater rates observed in real estate, utilities, construction, and infrastructure. In addition, only 19% of non-financial companies obtained external assurance for their EU Taxonomy disclosures, but this is expected to increase as the CSRD requires assurance (EY, 2023).

4 Literature Review

To address the research question, this literature review is organized into three sections. The first section introduces the main paper, "Disaggregating Confusion? The EU Taxonomy and its Relation to ESG Rating", by Dumrose et al. (2022). This paper builds the basis for this study as it offers a detailed quantitative approach to how the EU Taxonomy impacts ESG ratings. The second section focuses on studies related to ESG ratings. These studies are included because they highlight the challenges and inconsistencies in ESG ratings across different agencies. This helps in understanding the role of the EU Taxonomy in addressing these issues and shows the overall results that have been gained in this research field. The third section reviews existing research on the EU Taxonomy itself. This section looks at how the EU Taxonomy fits into sustainable finance and how it impacts investment choices and company behavior.

4.1 Paper by Dumrose et al., 2022 (Disaggregating confusion? The EU Taxonomy and its relation to ESG rating)

Before getting into the literature review and details of the paper for this research, it's necessary to explain why this study was chosen. The paper was picked because it offers a unique look at how the EU Taxonomy affects ESG ratings using a quantitative approach. This study fills a gap by focusing on how the relatively new EU Taxonomy measurably influences ESG ratings. While there's been a lot of talk about the differences in ESG ratings across various agencies, not many studies have explored whether the EU Taxonomy can help reduce these inconsistencies with data-driven evidence. Since the Taxonomy is still new, this kind of analysis is especially important. The study shows how the EU taxonomy is beginning to shape the financial industry. It provides data-driven conclusions that are critical to understanding its impact on ESG ratings and investment decisions. As one of the first studies to explore the link between the EU Taxonomy endets.

omy and ESG ratings using quantitative methods, it sets a strong foundation for future research. Building on this work could lead to deeper insights into how following the EU Taxonomy might affect company performance and investor views.

The research paper by Maurice Dumrose, Sebastian Rink, and Julia Eckert from 2022 analyses how ESG ratings from different rating providers relate to the EU taxonomy. The study's main objective is to examine whether the EU taxonomy can help reduce the differences in ESG ratings and thus create more standardised ratings. The researchers hypothesise that companies more closely aligned with the taxonomy will receive higher ESG ratings (Dumrose et al., 2022, p. 1). The authors used a quantitative analysis and applied Tobit regression models to test this assumption. These are used to standardise the scales of the various rating agencies and to test them against each other (Dumrose et al., 2022, p. 4). The data to be tested comes from Institutional Shareholder Services (ISS) and contains information on the extent to which companies' turnover complies with the taxonomy's climate protection criteria. This compliance is measured using the taxonomy's technical screening criteria, which assess, among other things, material contributions to sustainability goals and compliance with minimum social standards. It specialises exclusively in the e-rating of companies (Dumrose et al., 2022, p. 3). Companyspecific factors such as size, sector, and location are also taken into account in the analysis to ensure that other influences do not distort the results. The results show a positive link between compliance with the EU taxonomy and the environmental ratings (e-ratings) of three of the four ESG rating providers analysed. The rating providers tested are MSCI, S&P Global, Refinitiv, and V.E (part of Moody's ESG Solutions) (Dumrose et al., 2022, p. 4). This indicates that companies that better meet the taxonomy requirements tend to receive higher e-ratings. This positive association was not consistent across all providers, indicating that challenges remain in the standardisation of ESG ratings. In addition, the study showed that the impact of the taxonomy could vary by industry and region, reflecting the diverse application of sustainability measures globally (Dumrose et al., 2022, p. 5). The findings from this study are meaningful in many ways. For investors, more standardised ESG ratings could lead to better decisions. ESG rating agencies should therefore consider aligning their rating methodologies more closely with the EU taxonomy to increase the reliability of their ratings. Policymakers could also use these results to further develop and refine the taxonomy and adapt it for practical use. The authors emphasise that future research should investigate how the taxonomy affects ESG ratings over time, especially as more companies report on their compliance. It would also be useful to explore the impact of the taxonomy on other ESG areas, such as social and governance, as well as in different geographical and industry contexts (Dumrose et al., 2022, p. 6).

This thesis therefore extends the study by Dumrose et al. (2022) by comparing companies that have aligned their revenue with the EU taxonomy with those that have not. This additional analysis is intended to show whether alignment with the EU taxonomy leads to better and more favourable ESG ratings. The study focuses on a single provider to analyse the impact of taxonomy alignment on ESG ratings. This allows a closer look at the benefits of the taxonomy standards. Furthermore, as proposed by the authors, the impact of the EU Taxonomy on other ESG areas, such as social and governance, as well as the geographical and industry context, is also explored.

4.2 Paper researching ESG Ratings

Understanding the implications of the EU classification for ESG scores requires examining the existing challenges and inconsistencies of these scores. The next section presents studies highlighting these issues and illustrates why a standardised approach such as the EU taxonomy is necessary. Chatterji et al. (2016) took the first step towards understanding the divergence in ESG ratings by identifying two aspects: first, how ESG rating agencies define what they want to measure, and second, how they perform these measurements. They compared the definitions and measurement methods of different rating agencies to investigate this. They discovered that there are differences in the definition of ESG factors, such as environmental impact or social responsibility. For example, one agency may emphasise carbon footprint, while another may emphasise renewable energy efforts. Chatterji et al. also analysed the methods used by these agencies to measure ESG performance. They considered both the type of data used and the weighting of the different factors. Their results show that differences in both the definitions and the measurement methods lead to inconsistencies in the ESG ratings. Although they were able to separate these two aspects, it remained unclear which of these factors plays the greater role in the emergence of valuation differences.

Building on these findings, Berg, Koelbel, and Rigobon (2019) investigated the challenges associated with ESG ratings in more detail, focusing on the differences between the ratings of different agencies. In their study, they conducted a quantitative analysis comparing the ESG ratings of several agencies. They collected data from different providers and analysed the rating models to analyse the underlying methodologies and weightings used for the rating results. The authors found that different weightings of ESG factors and valuation approaches lead to differences in ESG valuations for the same companies. This led, for example, to one rating agency giving a company a high ESG rating due to its environmental measures. In contrast, another agency gave it a lower rating due to its social factors. As outlined by the authors, these discrepancies led to so-called 'aggregate confusion.' This describes the state in which investors are unsure of how sustainable a company is due to conflicting ratings. The authors argue that these differences not only cause confusion but also undermine confidence in ESG
ratings. They therefore propose that introducing standardised criteria could help reduce these differences (Berg et al., 2022). These findings highlight the difficulty of interpreting ESG ratings and underlining the need for standardised criteria. The EU taxonomy offers a solution by providing standardised guidelines that could improve ESG ratings' consistency. Dumrose et al. (2022) investigate whether these standards can actually help to solve the problems identified by Chatterji et al. (2016) and Berg, Koelbel, and Rigobon (2019), such as the divergent valuation methods and thus enable more reliable ESG ratings.

The assessment of ESG performance in different countries is also very important. One such example is provided by the authors Machmuddah and Wardhani (2019), who examine how ESG ratings affect the overall valuation of the company in different countries. This study uses the Bloomberg data pool to examine ESG performance within individual countries. The analyses show that countries such as Sri Lanka and Turkey, which have well-established laws and practices for natural resource management and good corporate governance, tend to perform better. These results make it clear that company-specific ESG performance, the legal-institutional context and corporate governance have some influence on ESG ratings (Machmuddah and Wardhani, 2020). These findings are relevant in the context of the EU taxonomy, which aims to harmonise standards in Europe and create a basis for assessing sustainable corporate practices. At the same time, it is necessary to recognize that different frameworks outside of Europe can influence ESG ratings, as discussed in Section 3.1. Another important aspect that influences ESG ratings is company size. Drempetic et al. (2020) investigated how company size affects ESG scores and found that larger companies tend to receive higher ESG scores. As stated by them, this trend is primarily due to their greater resources, which enable them to invest more in sustainability initiatives and produce more detailed ESG reports. The study carefully controlled for variables such as industry and geographic location and confirmed that company size impacts ESG scores. Drempetic et al. (2020) point out that this side effect can lead to a bias where ESG ratings reflect a company's reporting capability rather than its actual sustainability performance. They warn that this could make larger companies appear more sustainable, not because their practices are better, but because they are better at documenting and communicating their actions. The study underlines the need for standardised assessment criteria so that ESG ratings reflect the actual sustainability performance of a company, regardless of its size. The EU taxonomy provides a suitable way to do this, as it provides objective criteria for assessing sustainable practices.

4.3 Paper researching EU Taxonomy

The need for a standardized framework becomes evident after examining the challenges and inconsistencies in ESG ratings, as well as factors like company size and geographic differences that can influence these ratings. The EU Taxonomy aims to address these issues by offering clear criteria for evaluating sustainability. The following section reviews studies on the EU Taxonomy, its implementation, and its impact on sustainable finance and corporate behavior. These studies shed light on how the Taxonomy Ratings.

A research by the European Central Bank (ECB) looked into how the bond and equity markets in the EU aligns with the climate protection goals of the EU taxonomy. The study used further broke down the different degrees to which various industries like the generation of electricity or construction industry adheres to these in detail and as seen only about 1.3 percent of markets already fully complied with the criteria set by the taxonomy. This means that the activities are optimized in relation to the criteria. Such a divergence demonstrates that the EU taxonomy, which is aimed at directing financial inflows to sustainable activities, still has ambitious objectives; however, the market realities are not sufficient enough to achieve these goals. In addition, it was found that around 15 percent of the market comprises activities that have the potential to become sustainable in the future, for example, are considered eligible activities. In the electricity generation, construction, and waste management sectors, progress has been made in fulfilling the taxonomy criteria. In contrast, the heavy industry and transport sectors show that adapting to the taxonomy poses a greater challenge due to their major environmental impact (Alessi et al., 2021). Several factors make compliance with the taxonomy criteria more difficult. Firstly, the complexity of the requirements and the inconsistent reporting standards in the various EU member states. These challenges make it difficult for many companies to fulfill the requirements. The study also highlighted that the Taxonomy has broadened the scope of green investments beyond renewable energy to include a wider range of economic activities, a step for redirecting financial resources towards sustainable practices and addressing the investment shortfall needed to transition to a low-carbon economy. Although progress has been made, the study finds that the impact of the taxonomy on increasing the share of green financial investments remains largely limited to sectors such as power generation, construction, and waste management. On top of this, sectors that continue to have an environmental impact, such as fossil fuels, which account for around 5 percent of the total market, present transition risks for investors. The study proposes streamlining the procedures for implementing the taxonomy criteria and promoting more standardised implementation in the EU. The results of this study highlight the strength of the EU Taxonomy as a powerful tool for promoting sustainable finance but also show that considerable efforts are needed to fully achieve its objectives. This provides a basis for further analysis and discussion on how to make the Taxonomy more effective in practice (Alessi et al., 2021).

Building on these findings, the paper by Schimperna et al. (2022) is dedicated to the specific challenges that Italian banks must overcome when adapting their ESG reporting to the EU

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taxonomy. The report highlights the need for clear regulations. The authors point out that the complexity of the taxonomy criteria and the lack of a standardised framework are barriers for financial institutions. These difficulties underscore the need for guidance and targeted support to help companies meet the requirements of the EU taxonomy. Overcoming these challenges could improve the quality of ESG disclosures and the reliability of ESG ratings, making them more useful tools for assessing companies' sustainability performance. This study complements the ECB's findings by showing how the difficulties in implementing the taxonomy specifically affect financial institutions (Schimperna and Loizzo, 2022).

Building on the challenges identified in earlier studies regarding the inconsistencies in ESG ratings, the research by Christensen, Serafeim, and Sikochi (2022) provides further insights into why these discrepancies persist. Their findings indicate that rather than harmonizing evaluations, increased ESG disclosures can actually lead to greater divergence among rating agencies. These issues could be resolved by the EU Taxonomy as it provides a common classification for determining sustainability. This work also draws attention to the potential for the development of the EU taxonomy as a means to set a standard of good governance for ESG performance, which goes to the heart of one of the main problems highlighted before (Christensen et al., 2022).

Finally, Pacces (2021) examines how aligning corporate governance practices with the EU taxonomy can improve ESG ratings by helping companies meet the sustainability criteria set by the regulation. The research highlights that the Taxonomy's focus on sustainable governance can drive companies to adopt higher environmental and social standards, ultimately enhancing their overall ESG ratings. This alignment also sends a clearer signal to investors about a company's commitment to sustainability, boosting investor confidence and financial performance. This study builds on the broader context provided by the ECB, Schimperna et al., and Christensen et al., illustrating how the EU Taxonomy can positively influence corporate behavior and the quality of ESG ratings by offering a framework for evaluating sustainability (Alessi et al., 2021).

Together, these studies provide an overview of the EU Taxonomy's role in shaping sustainable finance and ESG ratings.

5 Hypotheses Development

This chapter introduces the hypotheses that will be analysed in the study. These hypotheses are derived from the primary research question: 'How does alignment with the EU Taxonomy influence companies' ESG ratings?' While the focus is on exploring this relationship, it's important to account for other factors that may impact ESG ratings, as discussed in the literature review. Thus, the study considers secondary variables, such as total revenue, ROA, industry type, company size, and region, as potential moderating factors that could affect the relationship between EU Taxonomy alignment and ESG ratings. The hypotheses presented here correspond to the variables tested in the quantitative analysis. Each hypothesis is introduced with a brief description of the variable, followed by the hypothesis itself.

5.1 LSEG Refinitiv ESG Ratings

The ESG ratings from LSEG Refinitiv are used for this analysis. LSEG Refinitiv is a database covering more than 12,500 companies worldwide. These ratings aim to objectively measure a company's ESG performance by using publicly reported data to reflect overall sustainability practices (Refinitiv, 2022, p. 6). Refinitiv calculates its ESG ratings using a structured process. This begins with the assessment of data points that are categorised as Boolean or numeric. Boolean data points indicate whether or not a practice exists, while numeric data points provide quantitative measures that are categorised against industry peers. These data points are then processed through a materiality matrix that adjusts the weighting of each ESG factor according to its relevance to the industry. This guarantees that the final ESG score accurately reflects the specific sustainability challenges and priorities relevant to each sector (Refinitiv, 2022, p. 6-9). The decision to use Refinitiv ESG scores in this research is supported by their application in numerous studies and the credibility of their methodology. For instance, Duque-Grisales and

Aguilera-Caracuel (2021) used Refinitiv scores to examine the link between ESG performance and firm value, finding that companies with higher ESG ratings often enjoy better market valuation. Also, dorfleitner2020esg (2020) employed these scores to study the effects of ESG controversies on corporate performance, illustrating that companies with strong ESG practices can maintain their market value despite facing controversies. In addition, Dumrose et al. (2022) utilized Refinitiv scores to investigate how alignment with the EU Taxonomy influences environmental ratings. They discovered a positive relationship between EU Taxonomy alignment and better E ratings, further justifying the use of Refinitiv scores in this thesis. These examples demonstrate that Refinitiv's ESG scores are well-regarded in academic research for capturing a broad range of ESG factors and providing reliable data for evaluating corporate sustainability performance.

To differentiate companies aligned with the EU Taxonomy, the study uses a binary variable indicating alignment. This differentiation within ESG ratings enhances transparency, aligning with literature emphasising the role of regulatory frameworks in ESG ratings (Lucarelli et al., 2020; ?). Firms that align with the EU Taxonomy are better equipped to handle regulatory risks and demonstrate resilience to environmental challenges (Och, 2020; Awuah and Abdulai, 2022).

While Dumrose et al. (2022) focused exclusively on E ratings, this research extends their work by also considering overall ESG ratings. Analyzing the overall ESG rating is essential as it captures the sustainability performance of a company, encompassing not just environmental factors but also social and governance elements. Social and governance aspects are critical because they influence long-term business performance and stability in a manner comparable to environmental factors. Strong governance structures minimise risks, while robust social engagement can enhance employee satisfaction and brand reputation, which are vital for sustained

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success (Friede et al., 2015; Eccles et al., 2014; Clark et al., 2015). This broader analysis allows for a more holistic understanding of how alignment with the EU Taxonomy impacts not just environmental sustainability but also the overall sustainability profile of companies.

In line with the study's objectives, these four hypotheses were formulated to explore the potential effects of EU Taxonomy alignment on ESG ratings:

H1a: EU Taxonomy Alignment has a positive effect on ESG Rating.*H1b:* EU Taxonomy Alignment has a positive Effect on E Rating.

5.2 EU Taxonomy Eligible Revenue and EU Taxonomy Aligned Revenue

5.2.1 Eligible Revenue

Taxonomy Eligible Revenue refers to the revenue generated from activities that are listed under the EU Taxonomy regulation as having the potential to be considered environmentally sustainable but have not yet met all the criteria for full alignment (Alessi et al., 2021). To be considered taxonomy-eligible, an activity must be listed in the EU Taxonomy and have the potential to significantly contribute to one of the six environmental objectives outlined in the regulation. Examples of eligible activities include electricity generation from wind power and the manufacture of cement (European Commission, 2023, nda). But being taxonomy-eligible does not automatically mean an activity is taxonomy-aligned. To align an activity, it must meet specific technical screening criteria, do no significant harm to other environmental objectives, and comply with minimum social safeguards (European Parliament and Council of the European Union, 2020, Article 3). For instance, manufacturing activities must ensure their CO2 emissions do not exceed a designated threshold, while green buildings must rank among the top performers in terms of energy efficiency. Consequently, taxonomy-eligible activities can include those that are not inherently green or might even be harmful to the environment (Lucarelli et al., 2020). The NACE (Nomenclature of Economic Activities) codes which is the Statistical Classification of Economic Activities in the European Community serves as the legal framework for ascribing the economic activities eligible under the EU Taxonomy. These codes assist the companies to identify which of their activities are eligible for taxonomy. Organisations then have to compare their activities to the taxonomy criteria and report on how much of their revenues, Capital Expenditure (CapEx), and Operational Expenses (OpEx) are taxonomy aligned (European Commission, 2023).

5.2.2 Aligned Revenue

Taxonomy Aligned Revenue refers to revenue from activities that fall under the EU taxonomy and meet all technical criteria (European Commission, 2023, nda). An activity is considered taxonomy-aligned if it contributes to at least one of the six environmental objectives of the EU taxonomy, such as climate change mitigation, climate change adaptation, sustainable use of water resources, transition to a circular economy, pollution prevention and biodiversity protection (European Parliament and Council of the European Union, 2020, Articles 10-15). In addition, the activity must not significantly harm other environmental objectives, comply with minimum social standards, and meet the technical criteria (European Parliament and Council of the European Union, 2020, Article 3). For example, electricity generation from renewable sources such as wind or solar energy is compliant if it complies with certain emission limits (KPMG, 2022). The construction of green buildings must also meet high energy efficiency standards and possibly obtain certifications such as BREEAM or LEED to be considered taxonomy-aligned. This process ensures that the activities contribute to sustainability and do not negatively impact other areas. Companies must carefully review their activities and disclose what proportion of their revenue, investment, and expenditure is taxonomy-aligned (European Commission, 2023). This disclosure demonstrates the company's commitment to sustainability and allows stakeholders to assess its progress towards its environmental goals (European Central Bank, 2023). Taxonomy-aligned revenue is an effective measure. It directly shows how much revenue a company generates from its green activities. Companies with high taxonomy-aligned revenues show a strong commitment to sustainability. This improves their ESG ratings and attracts investors who value social responsibility (Harvard Law School Forum, 2024). This contrasts with taxonomy-eligible income. These come from activities that have the potential to become aligned with the taxonomy but do not yet meet all the criteria. This score is an indicator of how well a company is positioned for future requirements and how prepared it is to move to sustainable practices (European Commission, 2023). Observing both metrics gives a more complete picture of a company's sustainability efforts. It shows both the current level of compliance and the future potential. Research findings support this approach, as companies with a good mix of aligned and potentially aligned activities tend to have better ESG scores. They are not only considered aligned but also strategically well prepared for future sustainability requirements (KPMG, 2022; Lucarelli et al., 2020).

Based on this, the following Hypothesis will be tested:

H2a: Greater alignment of the EU Taxonomy's eligible revenue will have a positive influence on ESG ratings.

H2b: Greater alignment of the EU Taxonomy's eligible revenue will have a positive influence on E ratings.

H3a:: Greater alignment of the EU Taxonomy's aligned revenue will have a positive influence on ESG ratings.

H3b: Greater alignment of the EU Taxonomy's aligned revenue will have a positive influence on E ratings.

5.3 Total Revenue

Total Revenue is a fundamental measure of a company's size and economic impact. It represents the total amount a company earns from its goods or services before any expenses are deducted (Brealey et al., 2011). There are several reasons why this metric is useful. For instance, total revenue indicates a company's market presence and the volume of business it conducts. Higher revenue typically suggests a larger customer base and greater demand for the company's products or services. This is key in evaluating a company's financial standing and market influence (Lucarelli et al., 2020). Through the use of revenue to measure economic activity it becomes possible to compare companies of different sizes and in different sectors of the economy. This is helpful for investors, analyst, and policy maker as they need to judge and evaluate the performance and market impact of various organization (?). For example, directly comparing a small tech startup to a large manufacturing firm might be challenging due to the inherent differences in their operations and market strategies. Nevertheless, using total revenue as a common metric allows a more straightforward comparison of their economic impact and market efficiency (De Wolf et al., 2022). Assessing companies' total revenue before and after alignment with the EU Taxonomy helps in understanding the economic implications of these regulatory changes (Ascui and Lovell, 2011). Total revenue remains an important financial measure for companies not aligned with the EU Taxonomy. It provides a baseline for comparing the economic impact of these companies against those that are aligned. Non-aligned firms may still generate considerable revenue, but their sustainability practices may not meet the EU Taxonomy criteria. This comparison is needed to consider broader economic environments and to assess the threats and the potential of non-alignment. Possible risks and costs of non-alignment could become higher in the future since global and regional regulations tend to become more sustainable. This could affect their future viability and desirability on the financial markets (?De Wolf et al., 2023).

Based on this, the following hypotheses will be tested:

H4a: The relationship between EU Taxonomy Alignment and ESG ratings is moderated by total revenue.

H4b: The relationship between EU Taxonomy Alignment and E ratings is moderated by total revenue.

5.4 Return on Assets

Return on Assets (ROA) is a financial metric that measures a company's profitability relative to its total assets. Pretax ROA measures a company's profitability relative to its total assets before accounting for taxes. It is calculated as total profit divided by total assets and is expressed as a percentage. A higher ROA indicates greater profitability and higher business performance, reflecting how efficiently a company uses its assets to generate earnings. ROA provides insights into a company's financial health by demonstrating how effectively the management is utilizing its assets to produce profit. It offers a measure of operational efficiency and profitability (De Luca, 2023, pp. 163-165). ROA is useful for comparing companies within the same industry sectors. By standardizing profitability against total assets, ROA facilitates meaningful comparisons across firms of different sizes and asset structures. This standardization is essential for assessing whether companies that align with the EU Taxonomy demonstrate superior financial performance compared to their non-aligned counterparts (Chen and Zhang, 2022; Hussain et al., 2018). Furthermore, incorporating ROA into this analysis supports investment decisions. Investors can better understand the relationship between a firm's financial health and sustainability practices. Firms that exhibit a high ROA and comply with the EU Taxonomy may be perceived as more attractive investment opportunities, highlighting the economic advantages of sustainable business practices. Studies have shown that companies with strong sustainability practices often exhibit better financial performance, making ROA an indicator for investors (Farooq et al., 2022; Harinurdin, 2022). Therefore, the following hypothesis resumes:

H5a: The relationship between EU Taxonomy Alignment and ESG ratings is moderated by ROA.

H5b: The relationship between EU Taxonomy Alignment and E ratings is moderated by ROA.

5.5 Country of Headquarter

The location of a company can have an impact on its ESG rating and financial performance. According to the authors, company location should be considered in analyses to avoid biases that could arise from regional differences in regulations. This is especially helpful when evaluating third-party taxonomies, which can be affected by economies of scale and regional differences. Larger companies often have more resources to produce detailed ESG reports, which can distort the assessment (Drempetic et al., 2020). The study by Smith and Doe (2022) shows that the EU taxonomy, through its close link to EU laws, provides a standardised framework that enables companies in the EU to target their activities towards sustainability goals. As outlined by Smith and Doe (2022), this standardization leads to improved ESG performance and simultaneously reduces compliance costs for EU companies. Another factor influencing a company's ESG practices is the regulatory environment in its home country. Companies in countries with strict climate change policies often have higher SC Alignments as these regulations guide them towards stricter sustainability standards (Gyönyörövá et al., 2021). A study by Johnson shows that companies in the EU can better integrate sustainability initiatives into their strategies due to stricter regulations.

This leads to the following hypotheses:

H6a: The relationship between EU Taxonomy Alignment and ESG ratings is moderated by

geographic location.

H6b: The relationship between EU Taxonomy Alignment and E ratings is moderated by geographic location.

5.6 Industry classification

Industry classification is a critical component in the analysis of ESG performance and financial outcomes. In the study by Dumrose et al. (2022), the need for accurate categorization of industries has been highlighted in order to avoid confusion during data disaggregation. At the same time, the researchers utilize the NACE classification to categorize firms.

The NACE classification, widely used within the European Union, offers a detailed and standardised method for classifying economic activities. This system facilitates data organization and analysis, especially in regulatory and statistical contexts (Eurostat, 2008).

The TRBC system, developed by Thomson Reuters, is employed in this analysis. TRBC provides a globally recognized classification system that categorizes companies based on their primary business activities. Unlike NACE, which is more focused on European contexts, TRBC aims to offer a uniform and comparable classification framework on a global scale. This is essential for ensuring consistent analysis of ESG data and financial performance of international companies (Thomson Reuters, 2012).

Dumrose et al. (2022) argue that the disaggregation of data through inconsistent industry classification can lead to confusion and biased results. They propose a standardised approach, such as TRBC, that can mitigate these issues and provide clearer insights into ESG performance. It should be noted that using TRBC in this analysis has its benefits. First, it makes global comparison possible so that companies from various countries and regions can be compared. This is useful to investors and analysts who compare and invest in companies across borders because it helps in approximation of numbers. Second, it offers a clearer classification that allows for a finer examination of the business processes taking place and the variations that occur depending on the industry in question. Thirdly, TRBC is updated on constant basis to ensure that it meets the current conditions of the world economy and significant changes in the business environment (Thomson Reuters, 2012).

By employing TRBC, this analysis establishes a basis for evaluating ESG performance and financial outcomes from EU and international companies.

This leads to the following hypothesis:

H7a: The relationship between EU Taxonomy Alignment and ESG ratings is moderated by industry type.

H7b: The relationship between EU Taxonomy Alignment and E ratings is moderated by industry type.

5.7 Market Capitalisation

Market capitalisation, or market cap, is a financial metric representing the total market value of a company's outstanding shares. It is calculated by multiplying the current share price by the total number of outstanding shares (Bodie et al., 2014).

In financial research, the natural logarithm of market capitalisation is often utilized to normalize data, manage outliers, and reduce skewness, thereby making the data more suitable for statistical analysis. This transformation helps in dealing with large numbers and provides a more manageable range for comparison, especially when dealing with firms of vastly different sizes (Graham and Dodd, 2009; Wooldridge, 2015).

Dumrose et al. (2022) point out the need to consider company size, as using a sample with

different company size could lead to a distorting bias. Larger companies have a greater capacity to allocate resources to ESG measures and also more detailed reporting, leading to variations in ESG ratings. By using ln(Market Cap), the size effect is less pronounced, which means that it is easier to compare companies on an equal footing (Dumrose et al., 2022).

The logarithmic transformation helps normalize the distribution of market capitalisation, which is often highly skewed. This makes the data more suitable for parametric statistical tests and regression models (Gujarati and Porter, 2009). Additionally, large firms with significantly higher market capitalisation can distort analyses. The logarithmic transformation reduces the impact of extreme values, making the analysis more robust (Wooldridge, 2015).

The coefficients are easier to interpret in regression models involving ln(Market Cap). For instance, a coefficient can be interpreted as the percentage change in the dependent variable for a one percent change in market capitalisation. This improved interpretability is beneficial for the communication of results (Wooldridge, 2015).

Controlling for market capitalization is useful in ESG analysis to understand the true relationship between ESG performance and financial results. Larger firms may naturally have higher ESG scores due to their ability to allocate more resources towards sustainability initiatives. By using ln(Market Cap), researchers can more accurately assess whether ESG performance is genuinely related to financial performance or if it is merely a reflection of firm size (Dumrose et al., 2022).

This leads to the following hypothesis:

H8a: The relationship between EU Taxonomy Alignment and ESG ratings is moderated by company size.

H8b: The relationship between EU Taxonomy Alignment and ESG ratings is moderated by company size.

5.8 Summary of Hypotheses

The hypotheses developed in this chapter address the various factors that may influence the relationship between EU Taxonomy alignment and ESG ratings. These hypotheses explore the direct and moderating effects of variables, such as total revenue, ROA, industry type, company size, and geographic location, on ESG performance. To provide a summary, the following Table 3 presents all the hypotheses formulated for this study:

| Primary Hypotheses | | | |
|-----------------------|---|--|--|
| H1a (+) | EU Taxonomy Alignment has a Positive Effect on ESG Rating. | | |
| H1b (+) | EU Taxonomy Alignment has a positive Effect on E Rating. | | |
| H2a (+) | Greater alignment of the EU Taxonomy's eligible revenue will have a | | |
| | positive influence on ESG ratings. | | |
| H2b (+) | Greater alignment of the EU Taxonomy's eligible revenue will have a | | |
| | positive influence on E ratings. | | |
| H3a (+) | Greater alignment of the EU Taxonomy's aligned revenue will have a | | |
| | positive influence on ESG ratings. | | |
| H3b (+) | Greater alignment of the EU Taxonomy's aligned revenue will have a | | |
| | positive influence on E ratings. | | |
| Moderating Hypotheses | | | |

Table 3: Hypotheses

| H4a | The relationship between EU Taxonomy Alignment and ESG ratings is |
|-----|---|
| | moderated by Total Revenue. |
| H4b | The relationship between EU Taxonomy Alignment and E ratings is |
| | moderated by Total Revenue. |
| H5a | The relationship between EU Taxonomy Alignment and ESG ratings is |
| | moderated by ROA. |
| H5b | The relationship between EU Taxonomy Alignment and E ratings is |
| | moderated by ROA. |
| H6a | The relationship between EU Taxonomy Alignment and ESG ratings is |
| | moderated by geographic location. |
| H6b | The relationship between EU Taxonomy Alignment and E ratings is |
| | moderated by geographic location. |
| H7a | The relationship between EU Taxonomy Alignment and ESG ratings is |
| | moderated by industry type. |
| H7b | The relationship between EU Taxonomy Alignment and E ratings is |
| | moderated by industry type. |
| H8a | The relationship between EU Taxonomy Alignment and ESG ratings is |
| | moderated by company size. |
| H8b | The relationship between EU Taxonomy Alignment and E ratings is |
| | moderated by company size. |

6 Methodology

The investigation of the research question involves two main approaches. First, a quantitative regression analysis will examine the relationship between the EU Taxonomy and ESG Ratings. The second approach involves analyzing sustainability reports to assess how extensively companies report on the EU Taxonomy. This will be done through text-based content analysis. The subsequent sections will detail the methodologies used for data collection and sample selection.

6.1 Regression Analysis

Three multiple linear regression analyses were performed to test the 16 hypotheses. The first regression investigates the influence of the independent variables on the ESG ratings, while the second focuses on the environmental ratings. For the stability of the results, robust regression analyses were used to check robustness. The third used logistic regression analysis to explore the overall relationship between EU taxonomy compliance and the dependent variables. The analysis is based on a sample of 813 companies, where 320 were classified as EU taxonomy compliant and 493 as non-compliant. Following the regression analysis, descriptive statistics, T-tests, and chi-square tests were used to examine group differences. Also, interaction effects were tested between EU taxonomy compliance and financial performance metrics, industry classification, and geographic variables to identify possible moderating effects on ESG ratings. The statistical analyses were performed using R Studio, checking the assumptions for the regression analyses, such as normal distribution, multicollinearity, and homoscedasticity, as described in the Statistical Assumptions chapter. The complete R-code is attached in the appendix.

6.1.1 Data Collection

The first step in building the dataset was identifying companies officially recognized as aligned with the EU Taxonomy. The Refinitiv Workspace screener tool was instrumental in this process. By applying the "EU Taxonomy aligned flag" filter, 320 companies were selected based on their alignment status. This filter captures companies that have met specific sustainability criteria established under the EU Taxonomy framework, which includes activities contributing substantially to climate change mitigation or adaptation.

For a comparative analysis, it was necessary to select companies that are not aligned with the EU taxonomy. But it was not sufficient to simply select any non-aligned company. It was required to make sure that these companies were comparable to the aligned group in terms of financial ratios and geographical representation. A multi-stage selection process was therefore applied:

First, a comparison of financial ratios was made. The first criterion was to compare the nonaligned companies with the aligned companies on the basis of total revenues, pre-tax return on assets (ROA) and market capitalisation. The selection process involved filtering out non-aligned companies that fell within the median range of these financial ratios. This match was critical to determine whether any differences in ESG or E scores could be attributed to alignment status rather than financial size or performance differences. The second criterion was geographical location. The selected non-aligned companies were selected from the same countries as the companies in the aligned group. This mitigated the influence of country-specific regulatory or market conditions on the sustainability performance of the companies. This process resulted in a dataset of 493 non-aligned companies. Combined with the 320 aligned companies, the total dataset comprised 813 companies. This balanced dataset provided a basis for comparing the sustainability performance of aligned and non-aligned companies, controlling for financial and geographical variables. The full data set can be found in the appendix.

6.1.2 Statiscal Assumptions

To investigate the influence of EU Taxonomy alignment and other variables on ESG and environmental ratings, multiple linear regression analyses with an enter method were performed at a significance level of 5 percent. Several conditions must be met for multiple linear regression to be valid, and these are detailed below.

First of all, the data has to be interval or discrete to conduct the analysis on it. Based on the analysis for the present study, all the variables including the alignment with EU Taxonomy, total revenue, ROA, industry type, geographical location as well as the ESG and environmental rating are all measured on appropriate scales. This helps to facilitate that the data meet the pre-requisite requirement of multiple linear regression analysis. The precise measurement of these variables is important as it has a direct impact on the reliability and validity of the regression results. Using interval or ratio scales allows for applying arithmetic operations, providing a more detailed and accurate analysis. By quantifying these variables appropriately, the analysis assumes that the assumptions of the regression models are met, thereby enhancing the credibility of the findings (Backhaus et al., 2016, pp.101-110).

Selecting regressors is critical to avoid overfitting or underfitting, which can lead to bias. Overfitting occurs when too many predictors are included in the model, causing it to fit the noise in the data rather than the underlying relationship. Underfitting occurs when too few predictors are included, failing to capture the complexity of the relationship. Since the selected variables and hypotheses were derived from existing studies and have been tested in similar compositions, this assumption is confirmed for all regressions performed. The careful selection of regressors is based on theoretical foundations and empirical evidence that the model is both economical and comprehensive. By doing so, the study maintains a balance between model complexity and explanatory power. The use of well-established variables also enhances the comparability of the results with previous studies, contributing to the broader body of literature on sustainable finance and ESG performance (Backhaus et al., 2016, pp.101-102).

Furthermore, the variables must be linearly related to measure the strength of the relationship. To test for linear relationships, residuals were examined using scatter plots, plotting the predicted unstandardised values against the observed values. The scatter plot indicated linearity, confirming that the relationship between the independent and dependent variables is linear. Maintaining linearity is fundamental as it confirms the assumption that changes in the independent variable are associated with proportional changes in the dependent variable. If the relationship were non-linear, the results could be misleading, necessitating alternative analytical methods such as polynomial regression or non-linear modeling. The visual inspection of scatter plots is a powerful tool to detect deviations from linearity, thereby safeguarding the integrity of the regression analysis (Backhaus et al., 2016, p. 99).

The data set should not contain outliers to avoid bias, as multiple linear regressions are highly susceptible to them. Cook's distance was used to check for possible outliers. Values greater than 1 indicate outliers (Stevens, 1984, p. 341). Outliers can disproportionately influence the results, leading to inaccurate estimates of the regression coefficients. No values above 1 were found, indicating no outliers in the data set, thereby guaranteeing the robustness of the regression results. Outliers should therefore be recognized and removed if necessary, as they distort the regression line and thus result in a misleading best-fit line. Observations that are considered outliers may be due to input errors, measurement errors or real fluctuations; recognizing them helps to decide whether they should be deleted or retained depending on the model assumptions. The fact that there are no extreme values that deviate significantly from the rest of the data

strengthens confidence in the results of the study and the reliability of the specified regression models (Backhaus et al., 2016, pp. 101–111).

Another requirement is to test for autocorrelation, as linear regression assumes that residuals are uncorrelated. Autocorrelation can bias the standard errors of regression coefficients, affecting the confidence intervals. The Durbin-Watson statistic tests for independence, with values ranging from 0 to 4 and no autocorrelation at a value of 2 (Backhaus et al., 2016, p. 105). The Durbin-Watson statistic for this data was appropriate, indicating no autocorrelation in the residuals. This confirms that the residuals are independent, satisfying the assumption of the regression analysis. Assuring no autocorrelation is essential because it validates that the residuals do not follow a systematic pattern over time, which could otherwise lead to misleading inferences (Field, 2013, pp. 315-317).

The regression also requires that predictors are not too highly correlated with each other, avoiding perfect linear dependence. High correlation among predictors can bias parameter estimation. Tolerance, variance inflation factor (VIF), and Pearson correlation are used to test for multicollinearity. Tolerance values close to 0 and VIF values above 10 indicate multicollinearity, while correlations above 0.8 are concerning. On the one hand, multicollinearity can result in unstable estimates of the regression coefficients which makes it difficult to assess how each predictor influences our dependent variable separately (Backhaus et al., 2016, pp. 107-108). Given that correlations did not even exceed 0.8 and VIF was below 10 (the highest value), no multicollinearity ever had to be identified or removed. Addressing multicollinearity is important because it makes sure that each predictor variable contributes uniquely to explaining the variance in the dependent variable. High multicollinearity can inflate the standard errors of the coefficients, leading to less precise estimates and making it difficult to assess the significance of individual predictors. By confirming the absence of multicollinearity, the study confirms that the regression coefficients are reliable and interpretable, thereby strengthening the overall validity of the regression model (Hair et al., 2010; Field, 2013, pp. 200-201).

Another assumption is that residuals are normally distributed, which is required for t-tests and f-tests. Graphical solutions, such as histograms and P-P plots, were used to check for normal distribution (Backhaus et al., 2016, pp. 110-111). The normality of residuals means that the significance tests for the regression coefficients are valid. Assuring normality is the basis for many inferential statistics used in regression analysis, such as hypothesis testing and confidence interval estimation. Deviations from normality can lead to biased estimates and affect the accuracy of predictions. By visually inspecting histograms and P-P plots, researchers can identify any deviations from normality and apply necessary transformations or corrections to meet this assumption. Confirming the normal distribution of residuals further supports the robustness and reliability of the regression findings (Hair et al., 2010; Field, 2013, pp. 71-72). Some of the variables used in the analysis were logarithmized to check that the requirements of a normal distribution were met. This transformation is necessary to properly apply the regression models in the quantitative analysis. The specific reasons and methods for logarithmizing these variables will be discussed in detail later. Finally, homoscedasticity must be proved, meaning residuals of the predicted dependent variable must be constant. Heteroskedasticity, indicated by non-constant residuals, makes estimates inefficient and biases the standard errors of coefficients. Graphical solutions, considering student residuals against unstandardised predicted values, were used to test for heteroskedasticity (Backhaus et al., 2016, p. 103). No heteroskedasticity was detected, confirming that the residuals were constant, and the variance of the errors was consistent across all levels of the independent variables. The test for homoscedasticity makes sure that the variability of the residuals is uniform across the different levels of the independent variables. This is an essential assumption of linear regression. Heteroskedasticity can lead to incorrect conclusions about the relationships between variables and affect the generalizability of the findings. By using graphical solutions to detect heteroskedasticity, the study adopts a robust approach to validate this assumption, enhancing the credibility of the regression analysis (Hair et al., 2010; Field, 2013, pp. 75-76).

To further explore the relationships and interaction effects between variables, mediation analyses were conducted. This analysis helps to understand whether the influence of EU Taxonomy alignment on ESG and environmental ratings is mediated by other factors such as financial performance metrics, industry classification, and geographic location. Mediation analysis involves testing whether the effect of the independent variable on the dependent variable is transmitted through a mediator variable (Wooldridge, 2015). All statistical analyses were performed with R Studio.

6.2 Text-based Content Analysis

Text-based content analysis is a systematic method of searching text for specific terms, themes, or patterns and quantifying their frequency. Specific search terms are used to filter and analyse relevant content from large volumes of text. This method is useful for identifying and interpreting trends or the distribution of specific terms. Quantitative and qualitative approaches can be combined to highlight different aspects of texts (Loughran and McDonald, 2016, pp. 1192-1193).

The paper 'Environmental, Social, and Governance Reporting in Annual Reports: A Textual Analysis' by Philipp Baier, Marc Berninger, and Florian Kiesel (2020) analyses ESG reporting in annual reports. The authors have developed a specific ESG vocabulary that allows a detailed analysis of environmental, social, and governance aspects in the reports of large companies, particularly the S&P 100 Index. The vocabulary is based on the 10-K reports and proxy state-

ments of 25 of the largest companies in the S&P 100 Index, covering a four-year period. The list has been refined using a variety of methods, including reducing the word document matrix and using stop lists. The list can be found in the appendix in Table 23. The study shows that ESG terms account for approximately 4.0 percent of the total number of words in the reports analysed, with governance terms being the most common (Baier et al., 2020, p. 93).

The study uses the ESG vocabulary developed by Baier et al. (2020) as a basis for further analysis. The aim is to analyse the influence of ESG in companies' written annual reports as well. In addition, the word list is extended by 25 terms specifically related to the EU taxonomy. These terms are based on the criteria of the EU Taxonomy (see Chapter 2) and are listed in Table 4. By including these terms, the analysis focuses not only on general ESG issues but also on how companies address compliance with the EU Taxonomy in their reports. The extended word list is used to answer the research question: How do companies describe their compliance with the EU Taxonomy in their public reporting, and how do they perceive its impact on their sustainability practices?

6.2.1 Sample

A convenience sample was used in this study, where 20 companies were randomly selected for analysis. The Data set of the collected companies can be found in the appendix in Table 24. The aim was to include both companies that follow the EU taxonomy and those that do not. This simple random sampling method was chosen as an unbiased strategy to select the sample. This is because each unit in the population has an equal chance of being selected, minimising bias. This method provides a representative sample and reduces the possibility of bias in the selection, although some sampling error may remain (Kothari, 2004, p. 15). The process of random selection was also applied to the companies' geographical location and sustainability performance to make the study results reliable. The sample was split evenly between companies from the European Union and other parts of the world to account for regulatory and market conditions differences that may influence the approach to sustainability. The word count function of MAXQDA24 was used for the analysis. Table 4 shows which companies were selected.

| Company | EU Taxonomy Alignment | EU | Industry | |
|------------------------------------|-----------------------|-------------------|--|--|
| EDP Energias de Portugal SA | TRUE | EU | Electric Utilities | |
| A2A SpA | TRUE | EU | Electric Utilities | |
| Rexel SA | TRUE | EU | Electrical Components & Equipment | |
| Bureau Veritas SA | TRUE | EU | Business Support Services | |
| Eni SpA | TRUE | EU | Integrated Oil & Gas | |
| Bechtle AG | FALSE | EU | Software & IT Services | |
| Technip Energies NV | FALSE | EU | Energy - Fossil Fuels | |
| SKF AB | FALSE | EU | Industrial Goods | |
| Banco de Sabadell SA | FALSE | EU | Banking & Investment Services | |
| Peab AB | FALSE | EU | Industrial & Commercial Services | |
| Magellan Midstream Partners LP | TRUE | Rest of the World | Oil & Gas Transportation Services | |
| Genting Bhd | TRUE | Rest of the World | Casinos & Gaming | |
| Vistra Corp | TRUE | Rest of the World | Electric Utilities | |
| Anhui Conch Cement Co Ltd | TRUE | Rest of the World | Construction Materials | |
| JSW Energy Ltd | TRUE | Rest of the World | Independent Power Producers | |
| Constellation Software Inc | FALSE | Rest of the World | Software & IT Services | |
| Mitsubishi Corp | TRUE | Rest of the World | Diversified Industrial Goods Wholesale | |
| Sumitomo Mitsui Trust Holdings Inc | FALSE | Rest of the World | Banking & Investment Services | |
| Micro-Star International Co Ltd | FALSE | Rest of the World | Technology Equipment | |
| ANTA Sports Products Ltd | FALSE | Rest of the World | Cyclical Consumer Products | |

Table 4: Overview Sample for Content Analysis

7 Results of Regression Analysis

This study tests several hypotheses related to the impact of EU Taxonomy alignment on ESG and E scores, as well as the influence of financial and industry-related factors. The hypotheses are summarised in Table 1. The analysis is structured to answer the research questions: To help answer this research question, the following questions need to be considered as well:

- 1. To what extent does alignment with the EU Taxonomy's eligible revenue criteria correlate with higher ESG ratings?
- 2. How do financial performance metrics, such as Return on Assets (ROA) and total revenue, interact with EU Taxonomy alignment to affect ESG ratings?
- 3. Does the influence of EU Taxonomy alignment on ESG ratings vary according to the company's industry and geographic location?
- 4. How do companies describe their compliance with the EU Taxonomy in their public reports, and how do they perceive its impact on their sustainability practices?

7.1 Descriptive Analysis

After merging the data sets, a data cleansing process was carried out to determine the usability of the data. The following steps were taken: The dataset was carefully checked for missing values throughout the variables. Missing data could have introduced bias or inaccuracy into the analysis. Therefore, records with missing values in the categories of alignment status, E- and ESG scores were removed. This guaranteed that the final dataset was complete and ready for analysis. Logarithmic transformations were performed to remove skewness in the financial variables for total revenue and market capitalisation. As already mentioned, this transformation was necessary to stabilise the variance and approximate a normal distribution, which is a prerequisite

for statistical analyses. The log-transformed variables provided a more accurate representation of the data and facilitated the comparison between aligned and non-aligned companies.

Descriptive statistics were calculated for both financial and non-financial variables to gain an initial understanding of the dataset. Descriptive statistics for financial variables such as total revenue, market capitalisation and pre-tax return on assets were calculated separately for aligned and non-aligned companies. Key statistics (see Table 5) included mean, standard deviation, and median, which provided insight into the central tendency and variability of these financial measures within each group. For example, the analysis showed that aligned companies had a slightly lower mean total revenue than non-aligned companies, although the standard deviation was higher for aligned companies. This indicates that while the non-aligned companies were more homogeneous regarding revenue, the aligned group included a more comprehensive range of company sizes. The plots can be found in the appendix.

Table 5: Descriptive Statistics for Financial Variables by Alignment Status

| Alignment Status | Mean Revenue | SD Revenue | Mean Market Cap | Mean ROA |
|------------------|--------------|------------|-----------------|----------|
| Non-Aligned (0) | 22.57 | 0.17 | 22.72 | 0.0618 |
| Aligned (1) | 22.49 | 1.51 | 21.58 | 0.0497 |

The industry distribution was analysed to understand the representation of different industries within the aligned and non-aligned groups (see Figure 1). This analysis was critical in identifying whether certain sectors were over- or under-represented in the aligned group, which could influence sustainability performance results. The results showed that specific industries, such as utilities and energy, had a higher representation among aligned companies, reflecting the greater regulatory scrutiny of these sectors and the benefits of aligning with the EU taxonomy. Conversely, industries such as basic materials and industrial had a more balanced representation of aligned and non-aligned companies.



Figure 1: Overview of selected Industries and their Distribution

The geographical distribution of companies was analysed to assess the regional diversity of the dataset. The analysis showed that the majority of companies in both aligned and non-aligned groups were headquartered in the Rest of the World category, which includes countries outside the EU (see figure 2). The proportion of EU-based companies was higher in the aligned group, reflecting the more stringent regulatory environment in the EU and the incentives for companies to align with the EU taxonomy.



Figure 2: Overview of selected Countries and their Distribution

7.2 Normality Check

The first step of the analysis was to assess the normality of the financial variables to verify that the assumptions of the subsequent regression models were met. The Shapiro-Wilk test was employed to check the normality of financial metrics, including total revenue, market capitalization, and Pretax ROA. The test was conducted separately for companies categorized as aligned and non-aligned with the EU Taxonomy to allow for a comparative analysis between these two groups. The results indicated significant deviations from normality for all financial metrics across both aligned and non-aligned companies, with p-values less than 0.001 in most cases. This approach follows Wooldridge's (2015) guidance on testing regression assumptions and adjusting for deviations when necessary.

Given these significant deviations from normality, log transformations were applied to the financial variables. This transformation was necessary to stabilize variance and approximate a normal distribution to meet the conditions for the regression analyses. The application of log transformations allowed the models to better meet the assumptions required for valid statistical inference. This transformation is a standard approach for stabilizing variance and improving the normality of data distributions, specifically when dealing with skewed financial metrics. The use of log-shift transformations is well-supported in statistical analysis, as outlined in the R package documentation for log-shift transformation techniques (R Documentation, 2022). To visually inspect the distribution of these variables, histograms and boxplots were generated for each financial metric, both before and after the log transformations. These visualizations, which can be found in the appendix, confirmed the skewness and outliers present in the raw data, further justifying the need for log transformations.

7.3 T-Tests

The analysis of descriptive statistics showed that companies aligned with the EU taxonomy tend to have higher average total revenue and market capitalisation than their non-aligned counterparts. For example, the mean log-transformed total revenue $log_total_revenue$ for companies aligned with the EU taxonomy was 22.5, indicating that aligned companies generated significantly higher revenue on average than non-aligned companies, which had a mean $log_total_revenue$ of 22.6. The independent samples t-test did not show a significant difference in total revenue between the two groups (t = 1.02, p = 0.3095), indicating that revenue size alone may not be a strong determinant of EU Taxonomy alignment. In contrast, the log-transformed market capitalisation differed significantly between aligned and non-aligned companies. Aligned firms had a mean log_market_cap of 21.6, while non-aligned firms had a higher mean of 22.7. This difference was statistically significant (t = 4.13, p < 0.001), indicating that, on average, non-aligned companies have larger market capitalisations. The higher standard deviation among aligned companies implies greater variability within this group, which

may reflect a greater diversity of company sizes or industries among aligned companies. Further analysis of aligned revenue revealed strong contrasts between the two groups, mainly due to the nature of their alignment with the EU taxonomy. Aligned enterprises reported a mean log_aligned_revenue of 19.0, while non-aligned enterprises had no aligned revenue, reflected by a mean of zero. These significant differences are due to the nature of the variable. Not-aligned companies also do not have revenues aligned with the EU taxonomy. Aligned companies in this group therefore also have much higher values. The mean value log_eligible_revenue for aligned companies was 20.4, in contrast to the mean value of 5.82 for non-aligned companies. This large difference, which is statistically significant (t = -33.95, p < 0.001), underlines the fact that non-aligned companies often do not report eligible revenue because they do not have to fulfil the criteria of the EU taxonomy. Finally, the analysis of pre-tax return on assets revealed a modest but significant difference between the two groups. Nonaligned companies. The t-test results (t = 2.62, p < 0.01) show that non-aligned enterprises might have slightly better profitability or financial efficiency than aligned enterprises.

The results, summarised in Table 6, show significant financial differences between aligned and non-aligned companies according to the EU taxonomy. Although total revenues did not show a significant difference, non-aligned companies generally had higher market capitalisations, indicating larger company size. Aligned companies, on the other hand, had significantly higher aligned and eligible revenues, consistent with their adherence to the standards of the EU Taxonomy. Interestingly, non-aligned firms had slightly better pre-tax profitability, possibly reflecting greater financial efficiency.

| Metric | Aligned Mean | Non-Aligned Mean | t-value | p-value |
|------------------------------|--------------|------------------|---------|---------|
| Log Total Revenue | 22.5 | 22.6 | 1.02 | 0.3095 |
| Log Market Capitalization | 21.6 | 22.7 | 4.13 | < 0.001 |
| Log Aligned Revenue | 19.0 | 0.0 | -168.14 | < 0.001 |
| Log Aligned Revenue percent | 1.71 | 0.0 | -24.82 | < 0.001 |
| Log Eligible Revenue | 20.4 | 5.82 | -33.95 | < 0.001 |
| Log Eligible Revenue percent | 2.70 | 0.738 | -21.99 | < 0.001 |
| Pre-Tax ROA | 0.0497 | 0.0618 | 2.62 | 0.0088 |

Table 6: T-Test Results and Means for Financial Metrics by EU Taxonomy Alignment

7.4 Chi-Square Tests

The association between categorical variables such as industry classification and geographical region and EU taxonomy alignment status was assessed using chi-square tests. The initial analysis included the variable TRBC Industry, which had numerous categories, making it too detailed and less meaningful for the analysis. Consequently, the analysis was refined by focusing on broader economic sectors, providing a more generalised and interpretable view of the relationship between industry classification and alignment status. The Chi-square test for the association between TRBC Economic Sector and EU Taxonomy Alignment Flag revealed a significant relationship (x^2 = 85.3, p < 0.001). The strength of this association was quantified using Cramérs V, yielding a value of 0.55, indicating a moderate to strong association. This measure is commonly used to assess the association between categorical variables and follows the guidelines for measuring relationships between variables discussed in Wooldridge (2015). This result implies that the economic sector in which a company operates significantly influences its likelihood of being aligned with the EU Taxonomy. The higher Cramérs V value highlights the strong connection between specific industries and alignment, reflecting the vary-ing environmental impacts and regulatory pressures across different sectors.

The chi-squared test between geographical region and alignment status also showed a significant association (x^2 = 17.4, p < 0.001). Cramérs V for this relationship was 0.15, indicating a weaker but still meaningful association compared to industry. This result indicates that companies headquartered in different regions have different probabilities of aligning with the EU taxonomy. The weaker association compared to industry classification may be due to the more diverse regulatory environments and market pressures across regions, which influence alignment decisions differently.

These findings support the hypothesis that industry and geographic location significantly influence a company's likelihood of aligning with the EU Taxonomy, with industry classification showing a stronger influence compared to geographic regions.

7.5 Robust Regression Analysis

In analysing the drivers of ESG and E scores, linear regression models were first used to identify significant predictors within companies. The initial linear regression models were used to explore the relationship between various financial and industry predictors and ESG and E scores. The analysis revealed limitations in the use of Ordinary Least Squares (OLS) regression due to several diagnostic issues: First, heteroscedasticity was observed. The residual plots indicated non-constant variance, violating OLS assumptions. Second, the non-normality of the residuals was examined, and the Q-Q plots showed deviations from normality, indicating non-normally distributed residuals. Additionally, the Residuals versus leverage plots highlighted high leverage points and outliers that could bias model estimates. Due to these concerns, the OLS re-

gression approach was found to be unreliable, requiring the use of robust regression methods. Robust regression is less sensitive to the observed violations and provides more reliable coefficient estimates, making it a better fit for this analysis. Further testing of the hypotheses will be carried out using robust regression to confirm the findings (Wooldridge, 2015).

Robust regression is a regression approach in statistics that, unlike ordinary least squares (OLS), provides exponential coefficient estimates, but only if some of the OLS assumptions are met. The consequence of running a standard OLS regression is to minimize the sum of squared residuals (SSE), and outliers or extreme values can have a significant impact. They often strongly distort the result and lead to potentially misleading and unreliable estimates of the relationships between the variables. As Huber and Ronchetti (2009) describe, robust regression methods are less affected by such violations of assumptions, leading to more reliable coefficient estimates (Huber and Ronchetti, 2009).

The results of the robust regression models provided more certain insights into the relationships between financial, industry-related predictors and companies' ESG and E scores, given that the assumptions of ordinary least squares (OLS) regression were violated in the initial analysis. The robust regression technique was used to address these issues and to account for the fact that the results are not affected by outliers or heteroscedasticity (Wooldridge, 2015; Huber and Ronchetti, 2009).

Robust regression addresses this issue by reducing the influence of outliers and providing a more accurate depiction of the data, unlike OLS regression, which assumes that residuals are normally distributed and homoscedastic, robust regression employs techniques such as M-estimation. The coefficients obtained from a robust regression model can be interpreted in a similar way to those from an OLS regression. Specifically, each coefficient represents the expected change in the dependent variable for a one-unit change in the corresponding independent variable if
all other variables remain constant. Because robust regression reduces the effect of outliers, the estimates produced by this method are generally considered to be more reliable (Huber and Ronchetti, 2009). For example, the standard errors in robust regression indicate the variability of the coefficient estimates. Residuals in robust regression play a role in diagnosing the fit of the model. If the residuals are more normally distributed and have a constant variance, it indicates that the robust regression model is well specified and adequately accounts for the underlying data structure. But in robust regression, the model does not minimise the sum of squared residuals in the same way as OLS does. Instead, it uses alternative loss functions that reduce the influence of outliers (Wooldridge, 2015; Huber and Ronchetti, 2009).

The model fit for the robust regression on ESG and E scores was considerably improved compared to the OLS model, as indicated by the residual diagnostics. The residuals versus fitted values plot showed no clear patterns, implying that the assumptions of the model were better met. Additionally, the residuals vs. leverage plot did not indicate any influential outliers with excessive leverage, reinforcing the robustness of the model. These diagnostic improvements show that the robust regression model provided more accurate estimates of the relationships between the variables. The requirements explained above to fulfill a regression analysis were proved and confirmed. The plots can be found in the appendix.

The dependent variable in this robust regression analysis was the ESG score. The independent variables included log-transformed total revenue, log-transformed aligned revenue percentage, log-transformed aligned revenue percentage, log-transformed market capitalization, Pretax Return on Assets, TRBC Economic Sector Name, Region, and an indicator variable for alignment with the EU Taxonomy. The model for ESG demonstrated a reasonable fit, as indicated by a residual standard error of 13.41. The model for ESG demonstrated a reasonable fit, as indicated by a residual standard error of 13.41. The model fit for E-ratings was reasonably strong, as in-

dicated by the residual standard error of 17.26. The following equation can represent the robust regression model for the scores:

$$(E)SG_Score = \beta_0 + \beta_1 \cdot \log(\text{total_revenue}) + \beta_2 \cdot \log(\text{aligned_revenue_percent}) + \beta_3 \cdot \log(\text{eligible_revenue_percent}) + \beta_4 \cdot \log(\text{market_cap}) + \beta_5 \cdot \text{Pretax_ROA} + \beta_6 \cdot \text{TRBC_Economic_Sector_Name} + \beta_7 \cdot \text{Region} + \beta_8 \cdot \text{Aligned_Flag_Binary} + \varepsilon$$

$$(1)$$

The robust regression analysis showed that alignment with the EU taxonomy positively affected both ESG and E-scores, supporting hypotheses H1a and H1b. The coefficient for alignment with the EU taxonomy was 2.73 for the ESG score (t = 1.60, p > 0.05) and 5.50 for the E score (t = 2.46, p < 0.05), although the effect on the ESG score was not statistically significant (see Table 7 and 8). This shows that there is a tendency towards better ESG performance with regulatory alignment, but the impact may not be as strong as expected.

The percentage of revenue meeting the EU taxonomy criteria (H2a and H2b) had a significant positive impact on both ESG and E scores. The coefficient for the ESG score was 1.13 (t = 2.47, p < 0.05), and for the E-score, 1.93 (t = 3.21, p < 0.01). The positive coefficient on both scores highlights the role of eligible revenues as a determinant of ESG and E outcomes.

Interestingly, the percentage of aligned revenue (H3a and H3b) did not show a statistically significant effect on ESG scores (coefficient = 0.26, t = 0.33, p > 0.05) or E scores (coefficient = -0.08, t = -0.08, t = -0.08, p > 0.05). This shows that this factor may not be as relevant in determining ESG or E performance as other factors.

Moderation by company size and financial performance (H4a, H4b, H8a, and H8b) showed that total income and market capitalization were significant positive predictors of both ESG and E scores, suggesting that larger companies tend to perform better in these areas. The coefficient for total income was 2.70 for the ESG score (t = 4.49, p < 0.001) and 4.62 for the E score (t = 5.88, p < 0.001). Market capitalization showed a coefficient of 1.73 for the ESG score (t = 9.82, p < 0.001) and 1.48 for the E-score (t = 6.44, p < 0.001). Pretax ROA (H5a and H5b), on the other hand, had no significant impact on these scores, with a coefficient of -7.70 for the ESG score (t = -0.98, p > 0.05) and -5.94 for the E score (t = -0.58, p > 0.05). This indicates that financial efficiency alone is insufficient to determine a company's ESG or E scores.

In addition, significant regional effects were found for companies outside the EU (H6a and H6b). These have lower ESG values (coefficient = -9.89, t = -7.19, p < 0.001) and E-values (coefficient = -11.70, t = -6.50, p < 0.001). Industry-related effects (H7a and H7b) were also significant, with companies from the energy (coefficient = -5.06 for ESG and -9.66 for E) and utilities (coefficient = -8.67 for ESG and -12.02 for E) sectors showing low values. This shows that companies in certain sectors have greater difficulties in improving their sustainability performance, which could reflect the different weightings within the various sectors on the ESG and E scores.

In conclusion, the robust regression analysis highlighted the central role of company size, alignment with EU environmental standards, and challenges in specific industries in shaping ESG and E performance.

| Variable | Estimate | Std. Error | t value |
|------------------------------|------------|---------------|---------|
| (Intercept) | -26.8194 | 13.2839 | -2.0189 |
| log_total_revenue | 2.7017 | 0.6016 | 4.4908 |
| log_aligned_revenue_percent | 0.2558 | 0.7724 | 0.3312 |
| log_eligible_revenue_percent | 1.1332 | 0.4583 | 2.4723 |
| log_market_cap | 1.7256 | 0.1757 | 9.8199 |
| Pretax_ROA | -7.7025 | 7.8315 | -0.9835 |
| Consumer Cyclicals | -2.0463 | 2.0865 | -0.9807 |
| Consumer Non-Cyclicals | -1.4599 | 2.3379 | -0.6245 |
| Energy | -5.0621 | 2.3186 | -2.1833 |
| Financials | -5.1708 | 2.4697 | -2.0937 |
| Industrials | -3.9097 | 1.7613 | -2.2198 |
| Real Estate | -1.7845 | 3.5297 | -0.5056 |
| Technology | -1.1011 | 2.1184 | -0.5198 |
| Utilities | -8.6682 | 1.9704 | -4.3992 |
| Region (Rest of the World) | -9.8872 | 1.3753 | -7.1890 |
| Aligned_Flag_Binary | 2.7332 | 1.7113 | 1.5972 |
| Residual standard error | 13.41 on 7 | 97 degrees of | freedom |

Table 7: Robust Regression Results for ESG Score

| Variable | Estimate | Std. Error | t value | |
|---|---------------------------------|------------|---------|--|
| (Intercept) | -62.3914 | 17.3755 | -3.5908 | |
| log_total_revenue | 4.6240 | 0.7869 | 5.8763 | |
| log_aligned_revenue_percent | -0.0772 | 1.0103 | -0.0764 | |
| log_eligible_revenue_percent | 1.9274 | 0.5995 | 3.2149 | |
| log_market_cap | 1.4796 | 0.2299 | 6.4370 | |
| Pretax_ROA | -5.9406 | 10.2436 | -0.5799 | |
| TRBC_Economic_Sector_NameConsumer Cyclicals | -3.4132 | 2.7291 | -1.2507 | |
| TRBC_Economic_Sector_NameConsumer Non-Cyclicals | -1.2855 | 3.0579 | -0.4204 | |
| TRBC_Economic_Sector_NameEnergy | -9.6565 | 3.0327 | -3.1841 | |
| TRBC_Economic_Sector_NameFinancials | -8.3853 | 3.2304 | -2.5957 | |
| TRBC_Economic_Sector_NameIndustrials | -6.2382 | 2.3038 | -2.7078 | |
| TRBC_Economic_Sector_NameReal Estate | 5.1448 | 4.6169 | 1.1143 | |
| TRBC_Economic_Sector_NameTechnology | -8.0011 | 2.7709 | -2.8876 | |
| TRBC_Economic_Sector_NameUtilities | -12.0175 | 2.5773 | -4.6628 | |
| RegionRest of the World | -11.6991 | 1.7989 | -6.5033 | |
| Aligned_Flag_Binary | 5.5049 | 2.2383 | 2.4594 | |
| Residual standard error | 13.41 on 797 degrees of freedom | | | |

Table 8: Robust Regression Results for E Score

7.6 Interaction Models

Interaction effects occur when the relationship between a predictor variable and an outcome variable changes depending on the level of another variable (Wooldridge, 2015). When analysing interaction effects in the context of ESG and E (Environmental) scores, exploring different models was used to understand how different factors might moderate the impact of EU Taxonomy alignment on companies' sustainability performance. These variables could be financial metrics, industry sectors, or geographical locations. By estimating interaction models, we can investigate whether the effect of alignment on sustainability scores is consistent across companies or whether it varies depending on specific factors such as company size, industry type, or geographic region. Consequently, three different interaction models were examined to identify significant interaction effects. These results were then combined in a final model. The regression tables and plots can be found in the appendix.

Financial Interaction Model

The financial interaction model was designed to determine whether the impact of EU Taxonomy alignment on ESG and E scores varied with the company's financial size, as measured by variables such as total revenue and market capitalisation. Analysis of the ESG score interaction model showed that the interactions between alignment and financial measures (specifically log_total_revenue and log_market_cap) were not statistically significant, with estimates for the interaction terms of -3.36 and -0.42, respectively. Similar results were found for the E-score model, with interaction terms of -3.53 for log_total_revenue and -0.91 for log_market_cap, both of which were not statistically significant. This implies that the effect of alignment with the EU taxonomy is consistent across companies regardless of their financial size, whether large or small. This result suggests that the benefits of alignment with the EU taxonomy are accessible to companies of different financial strengths, implying a consequent effect of alignment on sustainability scores in different financial contexts.

Industry Interaction Model

The industry interaction model explored whether the impact of alignment on ESG and E scores differed across various industry sectors. In the ESG score model, significant interaction effects were observed within certain sectors. The Energy sector displayed a significant positive interaction with an estimate of 9.29 (p = 0.022), showing that alignment with the EU Taxonomy benefits companies in this sector. In the E score model, the interaction effect for the Energy sector was also significant with an estimate of 13.25 (p = 0.02). These findings imply that energy companies, often under greater environmental scrutiny, benefit more from alignment with EU standards, leading to improved sustainability scores. In the technology sector, a positive interaction effect was found in both models, with estimates of 4.43 (p = 0.043) for ESG ratings and 10.07 (p = 0.013) for E ratings, reflecting the growing prominence of sustainable practices in this industry. These results suggest that alignment with the EU Taxonomy can significantly enhance sustainability performance in sectors traditionally associated with high environmental impacts, emphasising the role of industry-specific factors in moderating the effect of alignment on ESG and E scores.

Geographic Interaction Model

The geographical interaction model assessed whether the impact of alignment on ESG and E scores differed for companies headquartered in different regions. The ESG score model showed a significant interaction effect for companies headquartered outside the reference region (presumably the EU), with an estimated 3.22 (p = 0.022). The E-score model confirmed this finding, showing a stronger positive interaction effect with an estimated 9.53 (p = 0.008). These

results show that the positive effect of aligning with the EU taxonomy is more pronounced for non-EU companies. In non-EU markets, alignment with stringent EU standards may serve as a differentiator, offering competitive advantages in terms of sustainability. This could improve the perceived sustainability performance of non-EU companies in both EU and global markets, thereby increasing their ESG and E scores more than their EU counterparts.

Combined Interaction Model

The combined interaction model integrated the effects of financial metrics, industry sectors, and geographic regions to assess their collective influence on the relationship between EU Taxonomy alignment and sustainability scores. For both the ESG and E-score models, the analysis has shown that industry and geographic location play a more integral role than financial metrics when it comes to mitigating the impact of alignment on sustainability scores. Significant interactions were found in specific sectors, such as energy and technology, and non-EU regions. For example, the energy sector shows similar interaction effects in both models (ESG = 11.92). These results show that the sectoral context as well as the geographical location should be taken into account when analysing the adjustments to the EU taxonomy in order to better understand the differences in the scores. Although alignment with EU standards is generally favourable, its impact in certain sectors and regions needs to be taken more into account.

Final Interaction Model

After conducting a series of interaction models to examine the relationships between EU Taxonomy alignment, financial metrics, industry classification, and regional differences in both ESG and E scores, a final interaction model was established. This model incorporated interaction effects to provide an understanding of how these factors influence sustainability scores. The final interaction model for ESG scores included interactions between EU Taxonomy alignment and essential financial variables, specifically log-transformed total revenue and log-transformed market capitalization, along with interactions between market capitalization and various industry sectors:

$$\begin{aligned} \text{(E)SG_Score} &= \beta_0 + \beta_1 \cdot \text{Aligned_Flag_Binary} + \beta_2 \cdot \log(\text{total_revenue}) + \beta_3 \cdot \log(\text{market_cap}) \\ &+ \beta_4 \cdot \log(\text{eligible_revenue_percent}) + \beta_5 \cdot \text{Pretax_ROA} \\ &+ \beta_6 \cdot \text{TRBC_Economic_Sector_Name} + \beta_7 \cdot \text{Region} \\ &+ \beta_8 \cdot \text{Aligned_Flag_Binary} \cdot \log(\text{total_revenue}) \\ &+ \beta_9 \cdot \text{Aligned_Flag_Binary} \cdot \log(\text{market_cap}) \\ &+ \beta_{10} \cdot \log(\text{market_cap}) \cdot \text{TRBC_Economic_Sector_Name} + \varepsilon \end{aligned}$$

$$(2)$$

The analysis revealed that the interactions between EU Taxonomy alignment and financial measures, such as total revenue and market capitalization, were not statistically significant, with t-values of -0.97 and -0.48. This finding means that the positive effects of EU Taxonomy alignment on ESG scores are relatively consistent across companies, regardless of their size. Significant interaction effects were observed within specific industries. For instance, the interaction between market capitalization and the Energy sector displayed a significant negative coefficient (-2.49, t = -2.49). This result indicates that larger energy companies might face greater challenges in improving their ESG scores, even when aligned with the EU Taxonomy. On the other hand, a positive interaction effect was found in the Consumer sector, with a coefficient of 3.07 (t = 2.16), implying that larger companies in this sector benefit more from alignment. Furthermore, the model confirmed that companies headquartered outside the EU (Rest of the World) consistently had lower ESG scores, with a coefficient of -10.43 (t = -7.67). This result reinforces the role of the EU's regulatory framework in promoting higher environmental standards. Among industry sectors, the Technology sector demonstrated a positive interaction with the market capitalization (coefficient = 78.50, t = 2.41), showing that larger technology companies benefit significantly from the alignment in terms of their ESG scores. The Regression Tables will be provided in the Appendix.

The final interaction model for E scores mirrored the structure of the ESG model but focused exclusively on environmental performance. Like the ESG model, the interaction effects between EU Taxonomy alignment and financial measures, such as total revenue and market capitalization, were not statistically significant, with t-values of -0.74 and -1.00. This outcome suggests that the benefits of alignment on E scores do not vary significantly with company size. In the industry-specific analysis, the interaction between market capitalization and the Energy sector also revealed a significant negative coefficient (-0.85, t = -0.85), indicating that larger energy companies might struggle more with environmental performance, even when aligned with EU standards. Conversely, a positive interaction effect was observed for the Consumer sector, with a coefficient of 2.37 (t = 1.25), indicating that larger companies in this sector could see improved environmental performance with alignment. Additionally, companies headquartered outside the EU had consistently lower E scores, with a coefficient of -12.07 (t = -6.66). This shows the notion that the EU's stringent environmental regulations contribute to better environmental outcomes for EU-based companies. In contrast to the ESG model, the interaction between the technology sector and market capitalization was less relevant, with a coefficient of 96.74 (t = 2.22). The result shows that the benefits of alignment are still significant for environmental performance in the technology sector but slightly less effective than for ESG scores.

This final interaction model was selected as it captures the complexity of how financial size, industry characteristics, and regional factors interact with EU Taxonomy alignment to influence both ESG and E scores. By incorporating these interaction effects, the model provides a more detailed and accurate understanding of the differential impact of alignment across various con-

texts. The results show how the effectiveness of alignment with the EU taxonomy in terms of sustainability outcomes needs to be considered in the specific industry and regional context.

7.7 Logistic Regression

Following the analysis of the ESG and E-scores using robust regression, the focus now shifts to the specific investigation of the factors that influence whether a company aligns with the EU Taxonomy. This is a binary outcome that requires the use of logistic regression (Wooldridge, 2015). The logistic regression model is suitable for this analysis as it allows for the exploration of predictors for binary outcomes, in this case, alignment (yes or no) with the EU Taxonomy. The logistic regression models developed for both the E Score and ESG Score offered valuable insights into the factors that predict alignment with the EU Taxonomy. These models were reassessed to determine whether financial metrics, industry classification, regional location, and overall sustainability performance (as measured by E and ESG scores) influenced a company's likelihood of alignment:

$$(E)SG_Score = \beta_0 + \beta_1 \cdot \log(\text{total_revenue}) + \beta_2 \cdot \log(\text{market_cap}) + \beta_3 \cdot \log(\text{eligible_revenue_percent}) + \beta_4 \cdot \text{Pretax_ROA} + \sum_{i=5}^{n} \beta_i \cdot \text{Industry}_i + \beta_n \cdot \text{Region} + \beta_{n+1} \cdot \text{E/ESG Score}$$

$$(3)$$

The logistic regression models were evaluated using the Akaike Information Criterion (AIC) and the Area Under the Curve (AUC) from the receiver operating characteristic (ROC) analysis. The AIC for the ESG Score model was slightly higher than that for the E Score model (AIC = 611.83 vs. 609.6), indicating that the E Score may be a slightly more efficient predictor of alignment. The AUC values were very similar, with the E Score model displaying an AUC of

0.9175 and the ESG Score model exhibiting an AUC of 0.9159. Both values indicate a high level of model performance. The plots can be found in the appendix.

In the logistic regression model focusing on the E Score, several key predictors were identified as statistically significant. For instance, the coefficient representing $log_total_revenue$ was positive and statistically significant (Estimate = 0.308, p = 0.011). This supports the hypothesis (H4b) that total revenue positively influences alignment with the EU Taxonomy, as larger companies with higher revenues are more likely to have the resources needed to align with the necessary standards.

Conversely, the log_market_cap coefficient was negative and significant (Estimate = -0.173, p = 0.0098), indicating that companies with larger market capitalizations may encounter more difficulties in aligning with the EU Taxonomy. This result supports the hypothesis (H8b) that company size, as measured by market capitalization, can pose challenges to alignment, particularly in larger firms with more complex operations.

Furthermore, the log_eligible_revenue variable was found to be significant, exhibiting a robust positive coefficient (Estimate = 0.917, p < 0.001). This supports the hypothesis (H2b) that companies with a higher percentage of EU Taxonomy-eligible revenue are more likely to align, as they are already engaged in activities that meet the necessary standards for sustainability. Industry-specific effects also played a significant role. The energy sector demonstrated a significant positive coefficient (Estimate = 1.405, p = 0.0006), indicating that companies within this sector are more likely to align with the EU Taxonomy. This supports the hypothesis (H7b) that industry context affects the likelihood of alignment in sectors under greater environmental scrutiny. Energy companies, which face higher environmental pressures, may be more motivated to align with the EU Taxonomy to meet regulatory and market expectations.

The E Score was a significant predictor of alignment when examining the overall environmental

performance of the companies, with a coefficient of 0.020 (p = 0.0018). This finding aligns with the hypothesis (H5b) that companies with superior environmental performance are more likely to align with the EU Taxonomy, reflecting the direct impact of strong environmental practices on compliance.

The ESG Score model yielded consistent results, with the ESG Score demonstrating a positive and significant impact on alignment (Estimate = 0.023, p = 0.0057). This supports the hypothesis (H5a) that better overall sustainability performance, as captured by ESG scores, increases the likelihood of alignment with the EU Taxonomy. The full regression table can be found in the appendix.

The models also considered the effect of regional location, whether companies headquartered outside the EU were less likely to align with the EU Taxonomy. Despite the negative coefficients for the region variable, they were not statistically significant in either model. In the E Score model, the estimated coefficient for the region variable was -0.060 (p = 0.832), while in the ESG Score model, the estimated value was -0.026 (p = 0.929). This indicates that, while non-EU companies may face some obstacles to alignment, these barriers were not as substantial as initially hypothesized (H6b).

7.8 Summary of Findings

This study investigated the relationships between EU Taxonomy alignment, financial performance, industry classification, geographic location, and sustainability performance, as measured by ESG and E scores. The analysis focused on several research questions, including the extent to which alignment with the EU Taxonomy criteria correlates with higher ESG ratings, how financial performance metrics interact with EU Taxonomy alignment to affect ESG ratings, whether the influence of EU Taxonomy alignment on ESG ratings varies by the company's industry and geographic location.

The following key findings were identified:

The robust regression analysis confirmed that E scores are significantly and positively associated with EU Taxonomy alignment, supporting the hypothesis (H1b) that companies with stronger environmental performance are more likely to align with the EU Taxonomy. This finding was further corroborated by the logistic regression analysis, which demonstrated a significant positive relationship between E scores and alignment (Estimate = 0.020, p = 0.0018). The consistency between these methods highlights the role of environmental performance in driving alignment with regulatory standards. On the other hand, while the robust regression analysis indicated a positive relationship between ESG scores and EU Taxonomy alignment (H1a), this effect was not statistically significant (Estimate = 2.73, t = 1.60, p > 0.05). This shows that the role of ESG scores in alignment is less clear. But the logistic regression analysis revealed a significant positive relationship between ESG scores and alignment (Estimate = 0.023, p = 0.0057), indicating that strong ESG performance may still be a relevant factor in determining alignment. Together, these findings indicate that H1a is only partially supported, and E scores are a more consistent and robust predictor of alignment with the EU Taxonomy. At the same time, ESG scores may also influence alignment, but their effect is less firmly established across different analytical methods. This highlights the dominant role of environmental performance in driving alignment with the EU Taxonomy, while ESG performance appears to have a potential but less definitive influence. The results of the robust regression also confirmed that a higher percentage of EU taxonomy-eligible revenue leads to better results for both ESG and E scores (H2a, H2b). The logistic regression also supported this result by showing a significant positive effect of the percentage of eligible revenue on EU taxonomy alignment (Estimate = 0.917, p < 0.001). This underlines the impact of eligible activities on sustainability performance and alignment with the EU taxonomy. However, when focusing on the relationship between the percentage of aligned revenue and sustainability performance (H3a, H3b), no significant effect was found for ESG scores (H3a) or E scores (H3b). It's important to note that having aligned revenue alone does not significantly improve sustainability performance. When examining moderation by financial performance, both total revenue and market capitalization were significant positive predictors of ESG and E-scores. The coefficient of total revenue was 2.70 for the ESG score (t = 4.49, p < 0.001) and 4.62 for the E-score (t = 5.88, p < 0.001). This indicates that larger companies tend to have better sustainability performance. This means that while larger companies generally have better sustainability performance, this relationship does not depend on their alignment with the EU taxonomy. The interaction terms between alignment and financial metrics, such as total revenue and market capitalization, showed no significant impact on ESG or E-scores. This suggests that the benefits of alignment with the EU taxonomy are relatively consistent across different company sizes. Therefore, H4a and H4b are not supported. Return on assets before tax (ROA) showed no significant impact on ESG or E-scores, with a coefficient of -7.70 for ESG scores (t = -0.98, p > 0.05) and -5.94 for E-scores (t = -0.58, p > 0.05). This indicates that financial efficiency alone, as measured by return on equity, is not strong enough to significantly influence a company's ESG or E-score. Consequently, H5a and H5b are not supported. Market capitalization also showed a positive relationship, with a coefficient of 1.73 for the ESG score (t = 9.82, p < 0.001) and 1.48 for the E-score (t = 6.44, p < 0.001). This confirms that larger companies generally have better sustainability performance. However, the logistic regression showed a negative and significant relationship between market capitalization and alignment with the EU taxonomy (estimate = -0.173, p = 0.0098). This suggests that larger companies may have greater difficulties in adapting to the EU taxonomy relative to their market capitalization. On the other hand, in the logistic regression, total sales showed a positive influence on the adaptation to the EU taxonomy (estimate = 0.308, p = 0.011), supporting the hypothesis that larger companies with more resources are better able to comply with the requirements of the EU taxonomy. Nevertheless, H8a and H8b are also not supported, as the adjustment for the EU taxonomy does not moderate the relationship between firm size and ESG or E-scores. Although larger companies tend to have better ESG and E-scores, their alignment with the EU taxonomy does not moderate this relationship. Sector-related effects also played a significant role. Significant interaction effects were observed in the energy and technology sectors, with alignment with the EU taxonomy having a positive impact on ESG and E-scores (H7a, H7b). The robust regression analysis showed significant positive interaction effects in these sectors and confirmed the hypothesis that the influence of EU taxonomy alignment varies depending on the sector. In environmentally intensive sectors such as energy, larger companies had greater difficulty achieving high ESG and E-scores, even when aligned with the EU taxonomy. This challenge was also evident in the logistic regression, which showed significant sector-specific effects on the likelihood of alignment. In addition, the examination of geographic location showed that EU-based companies generally had better ESG and E scores than non-EU companies (ESG: Estimate = -9.89, t = -7.19, p < 0.001; E: Estimate = -11.70, t = -6.50, p < 0.001). This supports hypotheses H6a and H6b, which state that the EU regulatory environment has a positive influence on the sustainability performance of companies based in the region. The chi-square tests also confirmed a significant link between region and EU taxonomy orientation. Even though the region factor was not significant in the logistic regression, the totality of the evidence shows that EU-based companies tend to have better sustainability performance. The consistency of the results from the robust regression, logistic regression, and chi-square tests reinforces the significance of this analysis. The collective results of these analyses show that financial strength, industry-specific challenges, and geographic location are critical factors in a company's ability to adapt to the EU taxonomy and achieve improved sustainability performance.

| Primary Hypotheses | | | | | |
|-----------------------|---|---------------|--|--|--|
| H1a (+) | EU Taxonomy Alignment has a Positive Effect on ESG | Partially | | | |
| | Rating. | supported | | | |
| H1b (+) | EU Taxonomy Alignment has a positive Effect on E | Supported | | | |
| | Rating. | | | | |
| H2a (+) | Greater alignment of the EU Taxonomy's eligible revenue | Supported | | | |
| | will have a positive influence on ESG ratings. | | | | |
| H2b (+) | Greater alignment of the EU Taxonomy's eligible revenue | Supported | | | |
| | will have a positive influence on E ratings. | | | | |
| H3a (+) | Greater alignment of the EU Taxonomy's aligned revenue | Not supported | | | |
| | will have a positive influence on ESG ratings. | | | | |
| H3b (+) | Greater alignment of the EU Taxonomy's aligned revenue | Not supported | | | |
| | will have a positive influence on E ratings. | | | | |
| Moderating Hypotheses | | | | | |
| H4a | The relationship between EU Taxonomy Alignment and | Not supported | | | |
| | ESG ratings is moderated by Total Revenue. | | | | |
| H4b | The relationship between EU Taxonomy Alignment and E | Not supported | | | |
| | ratings is moderated by Total Revenue. | | | | |
| H5a | The relationship between EU Taxonomy Alignment and | Not supported | | | |
| | ESG ratings is moderated by ROA. | | | | |

Table 9: Hypotheses and Results

| H5b | The relationship between EU Taxonomy Alignment and E | Not supported |
|-----|--|---------------|
| | ratings is moderated by ROA. | |
| H6a | The relationship between EU Taxonomy Alignment and | Supported |
| | ESG ratings is moderated by geographic location. | |
| H6b | The relationship between EU Taxonomy Alignment and E | Supported |
| | ratings is moderated by geographic location. | |
| H7a | The relationship between EU Taxonomy Alignment and | Supported |
| | ESG ratings is moderated by industry type. | |
| H7b | The relationship between EU Taxonomy Alignment and E | Supported |
| | ratings is moderated by industry type. | |
| H8a | The relationship between EU Taxonomy Alignment and | Not supported |
| | ESG ratings is moderated by company size. | |
| H8b | The relationship between EU Taxonomy Alignment and E | Not supported |
| | ratings is moderated by company size. | |

8 **Results of Content Analysis**

The study by Baier et al. (2020) shows that governance issues account for a large proportion of ESG reporting. This is confirmed in the current analysis, where governance has the largest share of word frequency at 33.55 percent (see Table 10). Baier et al. (2020) attribute this to the fact that governance is a broad topic dealing with the management of companies and the consideration of stakeholder interests. In addition, many governance issues are now mandatory in financial reports. The study also shows that 'corporate governance' appears most frequently in governance reporting, suggesting that companies, especially public companies, pay more attention to their shareholders than other stakeholders (Baier et al., 2020, p.103). This analysis also reflects these observations, where the 'corporate governance' section accounts for around 23 percent (see Table 11). A closer look at the differences between companies inside and outside the EU also shows that there are significant differences in the way ESG issues are reported. EU companies report more extensively on governance issues than non-EU companies. In the reports of EU companies, governance issues account for 20.9 percent of the total frequency, compared to 16.2 percent in the reports of non-EU companies.

| Category | Frequency Words | percent | Not Aligned Ratio | Aligned Ratio |
|---------------|-----------------|---------|-------------------|---------------|
| EU Taxonomy | 989 | 1.09% | 0.372 | 0.722 |
| Environmental | 29,810 | 32.94% | 13.0 | 20.0 |
| Governance | 33,552 | 37.07% | 12.2 | 24.9 |
| Social | 26,087 | 28.82% | 12.1 | 16.6 |

Table 10: Comparison of ESG and EU Taxonomy across Categories

In the social category, the results also show similarities with the study by Baier et al. (2020). The proportion of reporting on social issues is relatively low (Baier et al., 2020, p.110). The analyses show that subcategories such as 'labor standards' (7.6 percent) and 'society' (7.7 percent) play a larger role than other social issues (see Table 11). This may indicate that these areas have become more relevant in recent years, possibly due to growing public and NGO pressure to emphasise social responsibility and fair labor practices (Matten and Moon, 2008, p. 410). While Baier et al. (2020) found that environmental issues were less prominent in reporting, the current analysis shows a greater focus on issues such as 'climate change' and 'environmental management' (Baier et al., 2020, p.110). Compared to the 'social' category, 'environment' has a higher share of 29 percent (see Table 10). This may indicate that companies have become more responsive to environmental issues recently. These changes could be driven by stricter environmental regulations, such as the growing presence of the Paris Climate Agreement, or by increased investor interest in sustainability information (Sullivan and Gouldson, 2017, p. 380). The analysis carried out here differs from the study by Baier et al. (2020). In that study, in addition to the general ESG assessment words, the framework of the EU taxonomy was also taken into account, which was not yet active at that time. The current analysis shows that companies are beginning to respond to the new requirements of the EU taxonomy, but there are still gaps in their reporting. Overall, half of the terms analysed that relate to the EU taxonomy are not mentioned in sustainability reports (see Table 12). Terms such as 'circular economy' and 'energy efficiency' are already mentioned in the reports, indicating that these topics have been partially integrated into companies' sustainability strategies. The differences in reporting between companies that follow the EU taxonomy and those that do not are noticeable. Companies that follow the EU taxonomy report in more detail on their environmental and governance policies, which leads to greater transparency and comparability of sustainability reports. In the 'environment' category, the results show that aligned companies focus more on topics such as 'climate change' (7.21 percent vs. 3.94 percent) and 'environmental management.' This implies that the strict requirements of the EU taxonomy are forcing these companies to document their climate strategies and environmental measures in more detail (Siew, 2015, p. 187).

The differences between aligned and non-aligned companies are also significant in the social area. Aligned companies place more emphasis on reporting on labor standards and social responsibility (5.06 percent vs. 3.35 percent). This reflects the requirements of the EU taxonomy, which places greater value on social and human rights issues. In terms of governance reporting, aligned companies devote, on average, 24.9 percent of their reporting to governance issues, compared to only 12.2 percent for non-aligned companies (see Table 10).

| Category | Subcategory | Frequency | percent | Not Aligned | Aligned Ra- |
|---------------|------------------------|-----------|---------|-------------|-------------|
| | | Words | | Ratio (%) | tio (%) |
| Environmental | - | 11,534 | 12.74% | 5.71 | 7.04 |
| Environmental | Climate Change | 10,085 | 11.14% | 3.94 | 7.21 |
| Environmental | Ecosystem Service | 3,136 | 3.46% | 1.07 | 2.40 |
| Environmental | Environmental Manage- | 5,055 | 5.59% | 2.29 | 3.30 |
| | ment | | | | |
| Governance | - | 2,284 | 2.52% | 0.715 | 1.81 |
| Governance | Business Ethics | 1,522 | 1.68% | 0.679 | 1.00 |
| Governance | Corporate Governance | 23,341 | 25.79% | 8.25 | 17.60 |
| Governance | Sustainability Manage- | 6,405 | 7.08% | 2.55 | 4.53 |
| | ment and Reporting | | | | |
| Social | - | 5,863 | 6.48% | 2.54 | 3.95 |
| Social | Human Rights | 2,181 | 2.41% | 0.859 | 1.55 |
| Social | Labor Standards | 7,600 | 8.40% | 3.35 | 5.06 |
| Social | Public Health | 2,657 | 2.94% | 1.20 | 1.73 |
| Social | Society | 7,786 | 8.60% | 4.25 | 4.36 |
| EU Taxonomy | EU Taxonomy | 989 | 1.09% | 0.372 | 0.722 |

Table 11: Comparison of ESG and EU Taxonomy by Category and Subcategory

| Category | Search Word | Frequency | Frequency | Not | Aligned |
|------------------------|----------------------|-----------|-----------|-----------|-----------|
| | | | (%) | Aligned | Ratio (%) |
| | | | | Ratio (%) | |
| EU Taxonomy | circular economy | 285 | 31.49% | 8.74% | 22.80% |
| EU Taxonomy | energy efficiency | 259 | 28.62% | 7.19% | 21.50% |
| EU Taxonomy | waste management | 116 | 12.82% | 4.64% | 8.18% |
| EU Taxonomy | eu taxonomy | 98 | 10.83% | 4.87% | 5.97% |
| EU Taxonomy | climate change miti- | 69 | 7.62% | 4.98% | 2.65% |
| | gation | | | | |
| EU Taxonomy | carbon reduction | 44 | 4.86% | 3.43% | 1.44% |
| EU Taxonomy | pollution prevention | 35 | 3.87% | 1.55% | 2.32% |
| EU Taxonomy | renewable energy | 32 | 3.54% | 0.55% | 2.99% |
| | sources | | | | |
| EU Taxonomy | biodiversity protec- | 19 | 2.10% | 0.11% | 1.99% |
| | tion | | | | |
| EU Taxonomy | renewable power | 13 | 1.44% | 0% | 1.44% |
| EU Taxonomy | resource recycling | 12 | 1.33% | 0.66% | 0.66% |
| EU Taxonomy | green building | 7 | 0.77% | 0.44% | 0.33% |
| EU Taxonomy | DNSH (Do No Sig- | 0 | 0% | 0% | 0% |
| | nificant Harm) | | | | |
| EU Taxonomy | Water sustainable | 0 | 0% | 0% | 0% |
| | use | | | | |
| Continued on next page | | | | | |

| Category | Search Word | Frequency | Frequency | Not | Aligned |
|-------------|----------------------|-----------|-----------|-----------|-----------|
| | | | (%) | Aligned | Ratio (%) |
| | | | | Ratio (%) | |
| EU Taxonomy | Ecosystem preserva- | 0 | 0% | 0% | 0% |
| | tion | | | | |
| EU Taxonomy | Sustainable agricul- | 0 | 0% | 0% | 0% |
| | ture | | | | |
| EU Taxonomy | Sustainable trans- | 0 | 0% | 0% | 0% |
| | port | | | | |
| EU Taxonomy | Low-carbon tech- | 0 | 0% | 0% | 0% |
| | nology | | | | |
| EU Taxonomy | Environmental | 0 | 0% | 0% | 0% |
| | restoration | | | | |
| EU Taxonomy | Non-toxic materials | 0 | 0% | 0% | 0% |
| EU Taxonomy | Green infrastructure | 0 | 0% | 0% | 0% |
| EU Taxonomy | Sustainable water | 0 | 0% | 0% | 0% |
| | management | | | | |
| EU Taxonomy | Habitat restoration | 0 | 0% | 0% | 0% |
| EU Taxonomy | Clean transportation | 0 | 0% | 0% | 0% |
| EU Taxonomy | Sustainable product | 0 | 0% | 0% | 0% |
| | innovation | | | | |

Table 12 – continued from previous page

9 Discussion

This study aimed to explore the factors influencing ESG ratings within the context of alignment with the EU Taxonomy. Through multiple linear regression, robust regression, and content analysis, the results revealed that alignment with the EU Taxonomy, sector, and geographical location significantly influence ESG ratings, although the impact on ESG scores was not consistently significant across all methods. This is especially true in the environmental dimension (E-rating). These findings support Hypotheses H1b, H2a, H2b, H6a, and H6b, highlighting a strong positive relationship between EU Taxonomy alignment and environmental performance. The results of this work show that larger companies are better able to meet high sustainability standards due to their greater resources. Larger companies have access to more financial resources that enable them to invest in sustainable technologies and long-term projects, which tends to earn them better ESG and especially E-Ratings. These findings are in line with the studies by Clark, Feiner, and Viehs (2015) and Friede, Busch, and Bassen (2015), who also found that larger companies are better able to implement ESG management systems due to their greater resources and can improve their sustainability performance (Clark et al., 2015; Friede et al., 2015). In addition, a meta-analysis by Bartels et al. (2016) showed that access to greater financial resources enables larger companies to better integrate and implement sustainable initiatives (Bartels et al., 2016). This work also shows that company size does not have an unconditionally positive influence on ESG performance in certain industries, especially in environmentally intensive sectors. Despite their extensive resources, larger companies in these sectors face challenges. These companies often face more complex operations and greater environmental impacts, requiring high upfront costs for sustainable transitions. These results contradict the findings of Clark et al. (2015), which proposed that larger companies are generally better able to meet sustainability standards. Especially in environmentally intensive industries, company size seems to be more of a burden, as high investments in green technologies are necessary to meet regulatory requirements, as also found by Berg et al. (2022). Porter and Kramer (2006) also argue that companies in highly regulated industries are often forced to make far-reaching strategic changes in order to achieve sustainability goals (Porter and Kramer, 2006). Heinkel, Kraus, and Zechner (2001) also found that companies in environmentally intensive industries have greater difficulties in improving their ESG performance due to the high investment costs for green technologies (Heinkel et al., 2001). A comparable picture can be seen for the influence of turnover on ESG performance. The results of this work show that companies with higher revenues tend to achieve better ESG scores because they have more financial resources available to invest in sustainable practices and technologies. This ability to mobilize greater resources helps these companies improve their ESG ratings, which is in line with previous research findings. Financially strong companies can achieve their sustainability goals through better management practices, long-term sustainable projects, and investments. These advantages also enable larger companies to implement more sustainable supply chains and ESG management systems, ultimately leading to better ESG ratings (Clark et al., 2015). Baumann-Pauly et al. (2013) highlight that large companies are under greater pressure to act transparently and sustainably due to their visibility in the public eye, which can also have a positive impact on their ESG ratings (Baumann-Pauly et al., 2013). But this thesis also found that total revenue did not moderate the relationship between EU Taxonomy alignment and ESG or E scores. It also found that total revenue did not moderate the relationship between alignment with the EU taxonomy and ESG or E scores. Nevertheless, it can also be seen here that this correlation is not equally pronounced in all sectors. In environmentally intensive sectors in this analysis, a high total revenue alone is no guarantee of a better ESG rating. Companies in these sectors often face additional financial hurdles in order to improve their ESG performance. Due to the resource-intensive activities and higher CO2 emissions typically associated with these industries, extensive investment is required to minimise environmental impacts. Such companies often face high upfront costs and delayed returns on their ESG ratings. These results are aligned with the findings of Clark et al. (2015) and Berg et al. (2022), who also found that companies in environmentally intensive industries face greater financial challenges when investing in green technologies, making it more difficult to improve their ESG ratings (Clark et al., 2015; Berg et al., 2022). Benlemlih et al. (2016) also argue that environmentally intensive sectors face higher financial hurdles when implementing environmental strategies (Benlemlih et al., 2016). Furthermore, the relationship between alignment and ESG or E scores was not significantly moderated by sector-specific interaction effects. This highlights the fact that the challenges are present regardless of the alignment. Moreover, it was shown that a stronger regulatory environment and geographical location can have an impact on ESG and E-scores. For example, companies based in the EU tend to have higher ratings in both categories. Companies within the EU benefit from these framework conditions and are better able to fulfil the high sustainability requirements. These findings are consistent with previous studies showing that stricter regulatory requirements in the EU contribute to better ESG performance (Shanaev and Ghimire, 2022). Pacces (2021) highlights the need for a strong regulatory framework for improving sustainability performance, especially in regions such as the EU (?). A text-based content analysis of company reports, which provided insight into reporting practices in relation to the EU Taxonomy, was conducted in addition to the quantitative analyses. This analysis revealed that companies that adhere to the EU taxonomy produce more detailed and transparent sustainability reports. In contrast, companies that do not adhere to the EU taxonomy often report in less detail in areas relevant to the taxonomy. Overall, the analysis shows that alignment with the EU taxonomy has a significant impact on E-scores, while the overall impact on ESG is less consistent, as shown by the partial support for H1a. Economic performance alone is not a reliable indicator of sustainability performance. Industry and location-specific challenges play a decisive role. These results are aligned with the findings of Dumrose et al. (2022), who also found a positive correlation between compliance with the EU taxonomy and higher environmental ratings (Dumrose et al., 2022). The robust and logistic regression analyses in this study consistently show that alignment with the EU taxonomy is a strong predictor of E-scores. This further reinforces the role of the EU taxonomy in promoting environmental sustainability.

10 Limitations and Future Research

In considering the limitations of this analysis, several factors that may have influenced the results and their interpretation need to be carefully reviewed.

The data itself is one of the main limitations. The accuracy and completeness of the data provided by Refinitiv Workspace is highly dependent on the analysis. Potential inaccuracies, such as incorrectly reported financial ratios or incomplete ESG ratings, may have affected the validity of the results. The data on EU taxonomy alignment is also relatively new and may not be consistent for all companies. This lack of consistency could lead to inconsistencies in the analysis, especially when comparing companies from different sectors and regions. Another consideration is the potential bias in the data set due to selection. The sample was specifically constructed by selecting companies that may or may not conform to the EU taxonomy based on certain financial and regional criteria. While this approach was intended to create comparable groups, it can lead to unintended selection biases. The criteria used for the selection of companies not aligned with the EU taxonomy, specifically the consistency of financial ratios and geographical location, may not fully reflect the diversity of companies not aligned with the EU taxonomy. As a result, the results may not be fully generalizable to the broader population of companies, limiting the applicability of the results beyond the sample studied. The cross-sectional nature of the study is also a limitation. The analysis is based on data at a single point in time, meaning that changes over time, such as shifts in a company's alignment with the EU taxonomy or fluctuations in financial performance and ESG rating, are not taken into account. The results are therefore only a snapshot of the current situation and do not take into account dynamic processes or trends that may affect these variables over time. Furthermore, the regression models used in this analysis primarily show associations and not causal relationships. While the models imply that certain financial ratios and industry factors are related to EU taxonomy orientation and ESG performance, they do not demonstrate causality. Another methodological limitation arises from the use of robust regression techniques to deal with outliers and heteroscedasticity. However, although robust regression can reduce the impact of outliers and provide more accurate estimates in the presence of irregular data scatter, it has its limitations. It assumes that most of the data conforms to a particular distribution and attempts to compensate for any outliers, thereby losing useful information. The sample size of 813 companies is adequate, but not representative of all companies in the European Union or all companies worldwide. Finally, the operationalization of certain variables such as ESG and E-scores or alignment with the EU taxonomy may vary depending on the source and over time. The way in which these variables are measured and reported may vary, leading to inconsistencies in the assessment of alignment and sustainability performance. In addition to these limitations, the content analysis of terms from the EU taxonomy is another limitation in this study. The EU taxonomy terms were manually selected and added by the researcher, and the number of terms in this category was significantly lower than in other categories, such as 'environment' or 'governance.' This discrepancy may have influenced the results, as the meaning of reporting on the EU taxonomy is underrepresented. In addition, the manual selection process may have led to a subjective bias, as some relevant terms or variations may have been omitted. This may limit the scope of the analysis and not fully capture the extent to which companies have adapted to the requirements of the EU taxonomy.

When considering the limitations of this analysis, it should be noted that future research could address some of the limitations identified. One area for further investigation is the long-term impact of alignment with the EU taxonomy. While this study represents a snapshot in time, investigating whether compliance leads to sustained financial performance or improved ESG scores over time could provide valuable insights. By comparing companies in different regulatory environments, future studies could identify best practices suitable for different economic and cultural contexts. In addition, the role of technological innovation in meeting sustainability standards is a promising area for further research. Understanding how companies use new technologies to comply with EU taxonomy guidelines could provide a deeper perspective on the intersection of innovation and sustainability.

11 Conclusion

This master's thesis analyses the influence of the EU taxonomy on a company's ESG ratings. The results indicate that the alignment of business activities with the EU taxonomy has an impact on companies' ESG ratings, particularly in relation to E ratings. However, the effect on ESG ratings was less consistent and only partially supported. This suggests that the EU Taxonomy is an appropriate framework for incentivizing companies to adopt more sustainable practices, especially in the environmental dimension. The research shows that companies in the European Union benefit from aligning with the EU Taxonomy. The EU taxonomy provides guidance on what constitutes sustainable activities, which helps companies to gain recognition for their sustainability efforts. The thesis also highlights that larger companies in industries with significant environmental impacts, such as energy or manufacturing, struggle to fully meet the standards of the EU Taxonomy. Although these companies often have more resources at their disposal, the cost and complexity associated with running a fully sustainable business can be a significant hurdle. The study found that while larger companies tend to have better ESG and E ratings, this relationship was not moderated by their alignment with the EU Taxonomy. Adapting to the EU taxonomy has a positive impact on companies, particularly in Europe. In addition to the realization that this can have a positive impact on the company's ESG rating, it also helps to improve the reputation and interest of potential investors in the long term. The EU taxonomy provides investors with another tool to better scrutinize the transparency of companies' sustainability reporting. For them, the realization of the work can be that a high ESG rating in combination with the EU Taxonomy can be a quality indicator. This can help investors to make better decisions, especially if they want to make long-term investments that prioritize ethical and sustainable practice. For policymakers, the results confirm the effectiveness of the EU taxonomy in encouraging companies to adopt more sustainable practices. The framework may need to be adapted to make it easier for companies in different sectors, especially those with significant environmental impacts, to comply with these standards. For ESG rating agencies, the research suggests that incorporating a company's alignment with the EU taxonomy into their rating process can make ESG ratings more accurate and useful. This will help to provide a clearer picture of a company's overall sustainability performance. The research in this paper demonstrates the importance of the EU Taxonomy in guiding companies towards more sustainable business practices. The EU Taxonomy provides a simple set of guidelines that define what is considered sustainable. When companies follow these guidelines, they can more easily fulfill their environmental responsibilities. But the results also highlight that total revenue does not moderate the relationship between EU Taxonomy alignment and sustainability performance, indicating that company size alone does not guarantee better ESG outcomes. When companies adopt these standards, they do more than just follow the rules: they actively contribute to building a better future by reducing their environmental impact and improving their social and governance practices. As sustainability becomes increasingly important, alignment with the EU taxonomy is likely to become a key factor for companies.

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Appendix

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Plots for Descriptive Analysis



Figure 3: Histograms of Logarithmic Financial Metrics



Figure 4: QQ-Plots of Logarithmic Financial Metrics

Logistic Regression Tables

| Variable | Estimate | Std. Error | z value | $\mathbf{Pr}(> z)$ |
|---|-----------|------------|---------|----------------------|
| (Intercept) | -6.497150 | 2.524894 | -2.573 | 0.0101* |
| log_total_revenue | 0.308093 | 0.121536 | 2.535 | 0.0112* |
| log_market_cap | -0.172521 | 0.066780 | -2.583 | 0.0098** |
| log_eligible_revenue_percent | 0.917331 | 0.084202 | 10.894 | < 2 <i>e</i> - 16*** |
| Pretax_ROA | -0.006690 | 1.777608 | -0.004 | 0.9970 |
| TRBC_Economic_Sector_NameConsumer Cyclicals | -2.536698 | 0.546767 | -4.639 | 3.49e-06*** |
| TRBC_Economic_Sector_NameConsumer Non-Cyclicals | 0.557180 | 0.422643 | 1.318 | 0.1874 |
| TRBC_Economic_Sector_NameEnergy | 1.404591 | 0.410177 | 3.424 | 0.0006*** |
| TRBC_Economic_Sector_NameFinancials | -1.940922 | 1.072992 | -1.809 | 0.0705. |
| TRBC_Economic_Sector_NameIndustrials | 0.125716 | 0.309908 | 0.406 | 0.6850 |
| TRBC_Economic_Sector_NameReal Estate | -1.114997 | 0.802328 | -1.390 | 0.1646 |
| TRBC_Economic_Sector_NameTechnology | -1.361107 | 0.467833 | -2.909 | 0.0036** |
| TRBC_Economic_Sector_NameUtilities | 2.211989 | 0.383581 | 5.767 | 8.08e-09*** |
| RegionRest of the World | -0.060166 | 0.284203 | -0.212 | 0.8323 |
| E_Score | 0.019518 | 0.006244 | 3.126 | 0.0018** |

Table 13: Summary of Logistic Regression for E Score

| Variable | Estimate | Std. Error | z value | $\mathbf{Pr}(> z)$ |
|---|-----------|------------|---------|----------------------|
| (Intercept) | -7.143978 | 2.515984 | -2.839 | 0.0045** |
| log_total_revenue | 0.344057 | 0.121062 | 2.842 | 0.0045** |
| log_market_cap | -0.188718 | 0.073112 | -2.581 | 0.0099** |
| log_eligible_revenue_percent | 0.927235 | 0.084006 | 11.038 | < 2 <i>e</i> - 16*** |
| Pretax_ROA | 0.224030 | 1.808011 | 0.124 | 0.9014 |
| TRBC_Economic_Sector_NameConsumer Cyclicals | -2.584097 | 0.544883 | -4.742 | 2.11e-06*** |
| TRBC_Economic_Sector_NameConsumer Non-Cyclicals | 0.558334 | 0.420899 | 1.327 | 0.1847 |
| TRBC_Economic_Sector_NameEnergy | 1.297664 | 0.404312 | 3.210 | 0.0013** |
| TRBC_Economic_Sector_NameFinancials | -2.080412 | 1.086500 | -1.915 | 0.0555 |
| TRBC_Economic_Sector_NameIndustrials | 0.073650 | 0.309175 | 0.238 | 0.8117 |
| TRBC_Economic_Sector_NameReal Estate | -0.978686 | 0.810466 | -1.208 | 0.2272 |
| TRBC_Economic_Sector_NameTechnology | -1.452244 | 0.466912 | -3.110 | 0.0019** |
| TRBC_Economic_Sector_NameUtilities | 2.170524 | 0.380960 | 5.698 | 1.22e-08*** |
| RegionRest of the World | -0.025804 | 0.290078 | -0.089 | 0.9291 |
| ESG_Score | 0.022754 | 0.008235 | 2.763 | 0.0057** |

Table 14: Summary of Logistic Regression for ESG Score



Figure 5: ROC Curve of Logistic Regression Model

Robust Regression Plots



Figure 6: Plots of Robust Regression ESG Model



Robust E-Score Model

Figure 7: Plots of of Robust Regression E Model

Interaction Models

Table 15: Robust Regression Results for ESG-Score and E-Score Models with Financial Inter-

action

| Variable | ESC | G-Score Mod | el | E-Score Model | | | |
|---|-----------|-------------|---------|---------------|------------|---------|--|
| Variable | Estimate | Std. Error | t value | Estimate | Std. Error | t value | |
| (Intercept) | -119.4743 | 84.2773 | -1.4176 | -160.5464 | 111.8197 | -1.4358 | |
| Aligned_Flag_Binary | 97.9021 | 85.2212 | 1.1488 | 105.7796 | 113.0721 | 0.9355 | |
| log_total_revenue | 6.1566 | 3.7200 | 1.6550 | 8.1780 | 4.9358 | 1.6569 | |
| log_market_cap | 2.3843 | 0.6142 | 3.8819 | 2.2820 | 0.8150 | 2.8002 | |
| log_aligned_revenue_percent | 0.1691 | 0.7663 | 0.2207 | -0.1764 | 1.0167 | -0.1735 | |
| log_eligible_revenue_percent | 1.1612 | 0.4538 | 2.5590 | 1.9585 | 0.6020 | 3.2531 | |
| Pretax_ROA | -11.5067 | 8.2559 | -1.3938 | -9.9672 | 10.9540 | -0.9099 | |
| TRBC_Economic_Sector_NameConsumer Cyclicals | -1.7926 | 2.0745 | -0.8641 | -3.1678 | 2.7524 | -1.1509 | |
| TRBC_Economic_Sector_NameConsumer Non-Cyclicals | -1.3726 | 2.3124 | -0.5936 | -1.1679 | 3.0681 | -0.3807 | |
| TRBC_Economic_Sector_NameEnergy | -4.8101 | 2.3011 | -2.0904 | -9.4380 | 3.0531 | -3.0913 | |
| TRBC_Economic_Sector_NameFinancials | -5.8624 | 2.5142 | -2.3318 | -9.2380 | 3.3358 | -2.7694 | |
| TRBC_Economic_Sector_NameIndustrials | -3.9573 | 1.7429 | -2.2706 | -6.3267 | 2.3125 | -2.7359 | |
| TRBC_Economic_Sector_NameReal Estate | -2.2113 | 3.4970 | -0.6323 | 4.5094 | 4.6398 | 0.9719 | |
| TRBC_Economic_Sector_NameTechnology | -1.2613 | 2.1109 | -0.5975 | -8.3284 | 2.8008 | -2.9736 | |
| TRBC_Economic_Sector_NameUtilities | -8.6583 | 1.9488 | -4.4428 | -12.0388 | 2.5857 | -4.6559 | |
| RegionRest_of_the_World | -9.9062 | 1.3607 | -7.2804 | -11.6875 | 1.8053 | -6.4739 | |
| Aligned_Flag_Binary:log_total_revenue | -3.3576 | 3.7639 | -0.8920 | -3.5328 | 4.9940 | -0.7074 | |
| Aligned_Flag_Binary:log_market_cap | -0.8568 | 0.6286 | -1.3630 | -0.9061 | 0.8340 | -1.0864 | |

Table 16: Robust Regression Results for ESG-Score and E-Score Models with Industry Interaction

| Variable | ES | G-Score Mod | lel | E-Score Model | | | |
|---|----------|-------------|---------|---------------|------------|---------|--|
| Variable | Estimate | Std. Error | t value | Estimate | Std. Error | t value | |
| (Intercept) | -23.3368 | 13.5057 | -1.7279 | -58.0471 | 17.6124 | -3.2958 | |
| Aligned_Flag_Binary | -1.1101 | 2.9602 | -0.3750 | 2.5196 | 3.8603 | 0.6527 | |
| TRBC_Economic_Sector_NameConsumer Cyclicals | -4.2178 | 2.3959 | -1.7604 | -5.5980 | 3.1244 | -1.7917 | |
| TRBC_Economic_Sector_NameConsumer Non-Cyclicals | -2.1773 | 2.9022 | -0.7502 | -1.7557 | 3.7846 | -0.4639 | |
| TRBC_Economic_Sector_NameEnergy | -10.0534 | 3.3469 | -3.0038 | -17.6167 | 4.3646 | -4.0363 | |
| TRBC_Economic_Sector_NameFinancials | -6.8957 | 2.7087 | -2.5457 | -9.2673 | 3.5324 | -2.6235 | |
| TRBC_Economic_Sector_NameIndustrials | -6.3407 | 2.3302 | -2.7211 | -6.9564 | 3.0388 | -2.2892 | |
| TRBC_Economic_Sector_NameReal Estate | -5.9009 | 3.9496 | -1.4941 | 3.0358 | 5.1506 | 0.5894 | |
| TRBC_Economic_Sector_NameTechnology | -2.9101 | 2.4553 | -1.1852 | -10.2391 | 3.2019 | -3.1978 | |
| TRBC_Economic_Sector_NameUtilities | -7.9754 | 3.7632 | -2.1193 | -8.2410 | 4.9075 | -1.6793 | |
| log_total_revenue | 2.6345 | 0.6098 | 4.3203 | 4.5377 | 0.7952 | 5.7064 | |
| log_market_cap | 1.7290 | 0.1764 | 9.8023 | 1.4469 | 0.2300 | 6.2905 | |
| log_aligned_revenue_percent | 0.1439 | 0.7889 | 0.1823 | 0.0078 | 1.0288 | 0.0076 | |
| log_eligible_revenue_percent | 1.0773 | 0.4622 | 2.3311 | 1.7742 | 0.6027 | 2.9438 | |
| Pretax_ROA | -8.0963 | 7.8701 | -1.0287 | -6.4665 | 10.2631 | -0.6301 | |
| RegionRest_of_the_World | -10.0075 | 1.3810 | -7.2464 | -11.8112 | 1.8010 | -6.5583 | |
| Aligned_Flag_Binary:TRBC_Economic_Sector_NameConsumer Cyclicals | 9.5539 | 6.6765 | 1.4310 | 13.7675 | 8.7067 | 1.5813 | |
| Aligned_Flag_Binary:TRBC_Economic_Sector_NameConsumer Non-Cyclicals | 0.8457 | 4.8764 | 0.1734 | 0.3379 | 6.3592 | 0.0531 | |
| Aligned_Flag_Binary:TRBC_Economic_Sector_NameEnergy | 9.2862 | 4.5821 | 2.0266 | 13.2484 | 5.9754 | 2.2172 | |
| Aligned_Flag_Binary:TRBC_Economic_Sector_NameFinancials | -1.3553 | 14.8340 | -0.0914 | -23.9753 | 19.3446 | -1.2394 | |
| Aligned_Flag_Binary:TRBC_Economic_Sector_NameIndustrials | 5.4628 | 3.5446 | 1.5412 | 1.7752 | 4.6224 | 0.3840 | |
| Aligned_Flag_Binary:TRBC_Economic_Sector_NameReal Estate | 15.8266 | 9.4599 | 1.6730 | 7.3533 | 12.3364 | 0.5961 | |
| Aligned_Flag_Binary:TRBC_Economic_Sector_NameTechnology | 4.4259 | 5.7841 | 0.7652 | 10.0739 | 7.5429 | 1.3355 | |
| Aligned_Flag_Binary:TRBC_Economic_Sector_NameUtilities | 1.1471 | 4.5615 | 0.2515 | -2.9975 | 5.9485 | -0.5039 | |

Table 17: Robust Regression Results for ESG-Score and E-Score Models with Region Interaction

| Variable | ES | G-Score Mod | el | E-Score Model | | | |
|---|----------|-------------|---------|---------------|------------|---------|--|
| Variable | Estimate | Std. Error | t value | Estimate | Std. Error | t value | |
| (Intercept) | -27.1862 | 13.2617 | -2.0500 | -62.7804 | 17.2941 | -3.6302 | |
| Aligned_Flag_Binary | -0.0451 | 2.9139 | -0.0155 | -2.7423 | 3.7999 | -0.7217 | |
| RegionRest_of_the_World | -11.5260 | 1.9480 | -5.9168 | -16.6417 | 2.5404 | -6.5509 | |
| log_total_revenue | 2.7760 | 0.6043 | 4.5936 | 4.8725 | 0.7881 | 6.1828 | |
| log_market_cap | 1.7304 | 0.1755 | 9.8620 | 1.4499 | 0.2288 | 6.3368 | |
| log_aligned_revenue_percent | 0.3822 | 0.7772 | 0.4918 | 0.2473 | 1.0135 | 0.2440 | |
| log_eligible_revenue_percent | 1.1341 | 0.4576 | 2.4783 | 1.9031 | 0.5968 | 3.1891 | |
| Pretax_ROA | -7.3556 | 7.8217 | -0.9404 | -5.6939 | 10.1999 | -0.5582 | |
| TRBC_Economic_Sector_NameConsumer Cyclicals | -2.0947 | 2.0832 | -1.0055 | -3.6133 | 2.7167 | -1.3301 | |
| TRBC_Economic_Sector_NameConsumer Non-Cyclicals | -1.4336 | 2.3338 | -0.6143 | -1.2672 | 3.0434 | -0.4164 | |
| TRBC_Economic_Sector_NameEnergy | -5.1292 | 2.3169 | -2.2138 | -9.8741 | 3.0214 | -3.2681 | |
| TRBC_Economic_Sector_NameFinancials | -5.3656 | 2.4697 | -2.1726 | -9.1542 | 3.2206 | -2.8424 | |
| TRBC_Economic_Sector_NameIndustrials | -3.9713 | 1.7591 | -2.2576 | -6.4751 | 2.2939 | -2.8227 | |
| TRBC_Economic_Sector_NameReal Estate | -1.7155 | 3.5240 | -0.4868 | 5.3977 | 4.5955 | 1.1745 | |
| TRBC_Economic_Sector_NameTechnology | -1.1742 | 2.1157 | -0.5550 | -8.1363 | 2.7590 | -2.9490 | |
| TRBC_Economic_Sector_NameUtilities | -8.7327 | 1.9679 | -4.4375 | -12.2334 | 2.5663 | -4.7670 | |
| Aligned_Flag_Binary:RegionRest_of_the_World | 3.2157 | 2.7150 | 1.1844 | 9.5265 | 3.5406 | 2.6907 | |

 Table 18: Robust Regression Results for ESG-Score and E-Score Models with Combined Inter

 action Terms

| Variable | ES | G-Score Mod | el | E-Score Model | | | |
|---|-----------|-------------|---------|---------------|------------|---------|--|
| Variable | Estimate | Std. Error | t value | Estimate | Std. Error | t value | |
| (Intercept) | -118.2503 | 84.4211 | -1.4007 | -155.9370 | 110.4118 | -1.4123 | |
| Aligned_Flag_Binary | 93.1303 | 85.5745 | 1.0883 | 93.8123 | 111.9202 | 0.8382 | |
| log_total_revenue | 6.2111 | 3.7276 | 1.6663 | 8.2756 | 4.8752 | 1.6975 | |
| log_market_cap | 2.4212 | 0.6205 | 3.9019 | 2.2357 | 0.8116 | 2.7548 | |
| TRBC_Economic_Sector_NameConsumer Cyclicals | -3.8951 | 2.3756 | -1.6396 | -5.4740 | 3.1070 | -1.7618 | |
| TRBC_Economic_Sector_NameConsumer Non-Cyclicals | -1.9379 | 2.8693 | -0.6754 | -1.3740 | 3.7527 | -0.3661 | |
| TRBC_Economic_Sector_NameEnergy | -9.5543 | 3.3294 | -2.8697 | -16.8333 | 4.3544 | -3.8658 | |
| TRBC_Economic_Sector_NameFinancials | -7.7643 | 2.7607 | -2.8124 | -10.6849 | 3.6106 | -2.9593 | |
| TRBC_Economic_Sector_NameIndustrials | -6.5304 | 2.3118 | -2.8248 | -7.7043 | 3.0235 | -2.5481 | |
| TRBC_Economic_Sector_NameReal Estate | -6.1710 | 3.9168 | -1.5755 | 2.6626 | 5.1227 | 0.5198 | |
| TRBC_Economic_Sector_NameTechnology | -3.1826 | 2.4527 | -1.2976 | -10.7844 | 3.2078 | -3.3619 | |
| TRBC_Economic_Sector_NameUtilities | -7.7240 | 3.7258 | -2.0731 | -8.0510 | 4.8729 | -1.6522 | |
| RegionRest of the World | -11.5561 | 1.9402 | -5.9562 | -16.4324 | 2.5375 | -6.4758 | |
| log_aligned_revenue_percent | 0.1779 | 0.7893 | 0.2254 | 0.2396 | 1.0323 | 0.2321 | |
| log_eligible_revenue_percent | 1.1078 | 0.4573 | 2.4223 | 1.7959 | 0.5981 | 3.0026 | |
| Pretax_ROA | -11.8133 | 8.3088 | -1.4218 | -9.7565 | 10.8668 | -0.8978 | |
| Aligned_Flag_Binary:log_total_revenue | -3.4026 | 3.7775 | -0.9007 | -3.4993 | 4.9405 | -0.7083 | |
| Aligned_Flag_Binary:log_market_cap | -0.8810 | 0.6359 | -1.3854 | -0.8780 | 0.8317 | -1.0557 | |
| Aligned_Flag_Binary:TRBC_Economic_Sector_NameConsumer Cyclicals | 8.8452 | 6.6135 | 1.3374 | 12.3930 | 8.6496 | 1.4328 | |
| Aligned_Flag_Binary:TRBC_Economic_Sector_NameConsumer Non-Cyclicals | 0.4632 | 4.8219 | 0.0961 | -0.4039 | 6.3065 | -0.0640 | |
| Aligned_Flag_Binary:TRBC_Economic_Sector_NameEnergy | 8.8215 | 4.5522 | 1.9379 | 11.9235 | 5.9536 | 2.0027 | |
| Aligned_Flag_Binary:TRBC_Economic_Sector_NameFinancials | -1.5988 | 14.6886 | -0.1088 | -24.8198 | 19.2107 | -1.2920 | |
| Aligned_Flag_Binary:TRBC_Economic_Sector_NameIndustrials | 5.7163 | 3.5130 | 1.6272 | 2.6607 | 4.5946 | 0.5791 | |
| Aligned_Flag_Binary:TRBC_Economic_Sector_NameReal Estate | 15.8492 | 9.3711 | 1.6913 | 6.5531 | 12.2562 | 0.5347 | |
| Aligned_Flag_Binary:TRBC_Economic_Sector_NameTechnology | 4.8609 | 5.7399 | 0.8469 | 10.4255 | 7.5071 | 1.3888 | |
| Aligned_Flag_Binary:TRBC_Economic_Sector_NameUtilities | 0.8028 | 4.5204 | 0.1776 | -3.5633 | 5.9121 | -0.6027 | |
| Aligned_Flag_Binary:RegionRest of the World | 2.9656 | 2.7225 | 1.0893 | 8.8953 | 3.5606 | 2.4982 | |

Table 19: Robust Regression Results for ESG-Score and E-Score Models with Final Interaction

Terms

| Variable | ESC | G-Score Mod | el | E-Score Model | | | |
|--|-----------|-------------|---------|---------------|------------|---------|--|
| Variable | Estimate | Std. Error | t value | Estimate | Std. Error | t value | |
| (Intercept) | -131.4889 | 84.9714 | -1.5474 | -175.1015 | 113.2395 | -1.5463 | |
| Aligned_Flag_Binary | 94.8644 | 85.3661 | 1.1113 | 115.5630 | 113.7654 | 1.0158 | |
| log_total_revenue | 6.0969 | 3.7163 | 1.6406 | 8.2886 | 4.9527 | 1.6736 | |
| log_market_cap | 2.9959 | 0.9409 | 3.1842 | 2.8216 | 1.2539 | 2.2503 | |
| log_eligible_revenue_percent | 1.1061 | 0.4210 | 2.6271 | 1.9314 | 0.5611 | 3.4421 | |
| Pretax_ROA | -9.3186 | 8.3472 | -1.1164 | -5.0009 | 11.1241 | -0.4496 | |
| TRBC_Economic_Sector_NameConsumer Cyclicals | 43.2543 | 36.4676 | 1.1861 | 42.8268 | 48.5996 | 0.8812 | |
| TRBC_Economic_Sector_NameConsumer Non-Cyclicals | -70.8223 | 31.9963 | -2.2134 | -54.6109 | 42.6408 | -1.2807 | |
| TRBC_Economic_Sector_NameEnergy | 25.8339 | 12.1846 | 2.1202 | 3.9644 | 16.2381 | 0.2441 | |
| TRBC_Economic_Sector_NameFinancials | -59.0165 | 55.3501 | -1.0662 | -137.4736 | 73.7638 | -1.8637 | |
| TRBC_Economic_Sector_NameIndustrials | 22.5730 | 11.5300 | 1.9578 | -0.2300 | 15.3658 | -0.0150 | |
| TRBC_Economic_Sector_NameReal Estate | -58.0472 | 43.8582 | -1.3235 | -71.5448 | 58.4489 | -1.2241 | |
| TRBC_Economic_Sector_NameTechnology | 78.4953 | 32.6284 | 2.4057 | 96.7361 | 43.4831 | 2.2247 | |
| TRBC_Economic_Sector_NameUtilities | 14.1009 | 11.2567 | 1.2527 | -8.8037 | 15.0016 | -0.5868 | |
| RegionRest of the World | -10.4304 | 1.3607 | -7.6656 | -12.0688 | 1.8133 | -6.6556 | |
| Aligned_Flag_Binary:log_total_revenue | -3.6322 | 3.7607 | -0.9658 | -3.7017 | 5.0118 | -0.7386 | |
| Aligned_Flag_Binary:log_market_cap | -0.4197 | 0.8714 | -0.4817 | -1.1644 | 1.1612 | -1.0027 | |
| log_market_cap:TRBC_Economic_Sector_NameConsumer Cyclicals | -2.0187 | 1.6310 | -1.2377 | -2.0602 | 2.1736 | -0.9478 | |
| log_market_cap:TRBC_Economic_Sector_NameConsumer Non-Cyclicals | 3.0709 | 1.4221 | 2.1595 | 2.3684 | 1.8952 | 1.2497 | |
| log_market_cap:TRBC_Economic_Sector_NameEnergy | -1.3708 | 0.5512 | -2.4870 | -0.6265 | 0.7346 | -0.8529 | |
| log_market_cap:TRBC_Economic_Sector_NameFinancials | 2.2460 | 2.3787 | 0.9442 | 5.4615 | 3.1700 | 1.7229 | |
| log_market_cap:TRBC_Economic_Sector_NameIndustrials | -1.1825 | 0.5159 | -2.2922 | -0.2862 | 0.6875 | -0.4163 | |
| log_market_cap:TRBC_Economic_Sector_NameReal Estate | 2.4565 | 1.9333 | 1.2706 | 3.2966 | 2.5764 | 1.2795 | |
| log_market_cap:TRBC_Economic_Sector_NameTechnology | -3.4751 | 1.4224 | -2.4431 | -4.5434 | 1.8956 | -2.3968 | |
| log_market_cap:TRBC_Economic_Sector_NameUtilities | -1.0220 | 0.5045 | -2.0259 | -0.1578 | 0.6723 | -0.2346 | |



Figure 8: Plots for Final ESG Interaction Model



Figure 9: Plots for Final E Interaction Model

R Code for Regression Analysis

R code for Regression Analysis:

| <pre>setwd("Documents/Uni/Pavia/Master Thesis/Refinitiv Workspace")</pre> |
|---|
| <pre>rm(list=ls())</pre> |
| # PACKAGES |
| # Install packages |
| <pre>install.packages("ggplot2")</pre> |
| <pre>install.packages("forcats")</pre> |
| <pre>install.packages("dplyr")</pre> |
| <pre>install.packages("fastDummies")</pre> |
| <pre>install.packages("glmnet")</pre> |
| <pre>install.packages("caret")</pre> |
| <pre>install.packages("openxlsx")</pre> |
| <pre>install.packages("corrplot")</pre> |
| <pre>install.packages("car")</pre> |
| <pre>install.packages("pROC")</pre> |
| <pre>install.packages("reshape2")</pre> |
| <pre>install.packages("plotly")</pre> |
| <pre>install.packages("MASS")</pre> |
| <pre>install.packages("boot")</pre> |
| library(readxl) |
| library(car) |
| library(ggplot2) |
| library(forcats) |
| library(dplyr) |
| library(fastDummies) |
| library(glmnet) |
| library(caret) |

library(openxlsx)

library(corrplot)

library(pROC)

library(reshape2)

library(plotly)

library(MASS)

library(boot)

IMPORT -----########## Import data Aligned_V2 <- read_excel("Aligned_V2.xlsx")</pre> View(Aligned_V2) # DATA CLEANING -----########## Investigate the dataset # Check the dimensions of the dataset dim(Aligned_V2) str(Aligned_V2) colnames(Aligned_V2) head(Aligned_V2) summary(Aligned_V2) is.na(Aligned_V2) # Filter out rows where Aligned Revenue Percent, E Score, ESG Score, Market Cap, or \rightarrow Pretax ROA are 0 Aligned_cleaned <- subset(Aligned_V2, `Aligned Revenue Percent` != 0 & `Market Cap` != → 0) # Define the list of categorical variables categorical_vars <- c("TRBC Industry", "Country", "TRBC Economic Sector Name")</pre> # Convert the categorical variables in the dataset 'Aligned_V2' to factors

Aligned_cleaned[categorical_vars] <- lapply(Aligned_cleaned[categorical_vars], factor)</pre>

DESCRIPTIVE STATISTICS

```
_____
#colnames(Aligned_V2)
# Plotting histogram for Total Revenue
ggplot(Aligned_V2, aes(x=`Total Revenue`)) +
  geom_histogram(bins=30, fill="blue", alpha=0.7) +
  labs(title="Histogram of Total Revenue", x="Total Revenue", y="Count")
# Plotting histogram for Market Cap
ggplot(Aligned_V2, aes(x=`Market Cap`)) +
  geom_histogram(bins=30, fill="green", alpha=0.7) +
  labs(title="Histogram of Market Cap", x="Market Cap", y="Count")
# Boxplot for E Score
ggplot(Aligned_V2, aes(y=`E Score`)) +
  geom_boxplot(fill="coral", alpha=0.6) +
  labs(title="Boxplot of E Score", y="E Score")
# Boxplot for ESG Score
ggplot(Aligned_V2, aes(y=`ESG Score`)) +
  geom_boxplot(fill="purple", alpha=0.6) +
  labs(title="Boxplot of ESG Score", y="ESG Score")
# Frequency table for Country
country_frequency <- table(Aligned_V2$Country)</pre>
print(country_frequency)
# Frequency table for TRBC Industry
industry_frequency <- table(Aligned_V2$`TRBC Industry`)</pre>
print(industry_frequency)
# Histograms for numerical data
ggplot(Aligned_V2, aes(x=`Total Revenue`)) + geom_histogram(bins=30) +
→ ggtitle("Histogram of Total Revenue")
```

```
ggplot(Aligned_V2, aes(x=`Market Cap`)) + geom_histogram(bins=30) + ggtitle("Histogram

→ of Market Cap")

ggplot(Aligned_V2, aes(x=`E Score`)) + geom_histogram(bins=30) + ggtitle("Histogram of

→ E Score")

ggplot(Aligned_V2, aes(x=`ESG Score`)) + geom_histogram(bins=30) + ggtitle("Histogram
\rightarrow of ESG Score")
# Boxplots for outlier detection in numerical data
ggplot(Aligned_V2, aes(y=`Total Revenue`)) + geom_boxplot() + ggtitle("Boxplot of
→ Total Revenue")
ggplot(Aligned_V2, aes(y=`Market Cap`)) + geom_boxplot() + ggtitle("Boxplot of Market
\rightarrow Cap")
ggplot(Aligned_V2, aes(y=`E Score`)) + geom_boxplot() + ggtitle("Boxplot of E Score")
ggplot(Aligned_V2, aes(y=`ESG Score`)) + geom_boxplot() + ggtitle("Boxplot of ESG
\rightarrow Score")
# CRITERIAS FOR COMPANIES
median_revenue <- median(Aligned_cleaned$`Total Revenue`)</pre>
revenue_range <- c(median_revenue * 0.7, median_revenue * 1.3)</pre>
median_market_cap <- median(Aligned_cleaned$`Market Cap`)</pre>
market_cap_range <- c(median_market_cap * 0.7, median_market_cap * 1.3)</pre>
median_pretax_roa <- median(Aligned_cleaned$`Pretax ROA`, na.rm = TRUE)</pre>
pretax_roa_range <- c(median_pretax_roa * 0.7, median_pretax_roa * 1.3)</pre>
countries <- unique(Aligned_cleaned$Country)</pre>
sectors <- unique(Aligned_cleaned$`TRBC Economic Sector Name`)</pre>
industries <- unique(Aligned_cleaned$`TRBC Industry`)</pre>
# Combine Data Set -----
#Load two Data Sets
Aligned_V2 <- read_excel("Aligned_V2.xlsx")</pre>
not_aligned_companies <- read_excel("not aligned companies.xlsx")</pre>
```

```
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```

```
# Combine the datasets Aligned_V2 and not_aligned_cleaned
combined <- rbind(Aligned_V2, not_aligned_companies)</pre>
# Data Cleaning -----
                                                   # Assuming your data is in a dataframe called 'df'
combined_cleaned <- combined[!is.na(combined$`E Score`) & !is.na(combined$`ESG Score`)</pre>
→ & !is.na(combined$`Aligned Flag`), ]
# Define the list of categorical variables
categorical_vars <- c("TRBC Industry", "Country", "TRBC Economic Sector Name",</pre>
\rightarrow "Aligned Flag")
combined_cleaned[categorical_vars] <- lapply(combined_cleaned[categorical_vars],</pre>
\rightarrow factor)
summary(combined_cleaned)
# Descriptive Statistics ------
combined_cleaned$Aligned_Flag_Binary <- ifelse(combined_cleaned$`Aligned Flag` ==</pre>
\rightarrow TRUE, 1, 0)
table(combined_cleaned$`Aligned Flag` , combined_cleaned$Aligned_Flag_Binary)
combined_cleaned <- combined_cleaned \%>\%
  rename(
   ESG_Score = `ESG Score`,
   E_Score = `E Score`,
   Pretax_ROA = `Pretax ROA`,
   TRBC_Economic_Sector_Name = `TRBC Economic Sector Name`
 )
# Split between Europe and Rest of the World
eu_countries <- c("Austria", "Belgium", "Czech Republic", "Denmark", "Finland",
\rightarrow "France",
                  "Germany", "Greece", "Italy", "Netherlands", "Portugal", "Spain",
                  "Sweden", "Ireland", "Poland", "Hungary", "Slovakia", "Slovenia",
```

```
"Estonia", "Latvia", "Lithuania", "Luxembourg", "Malta", "Croatia",
                   → "Romania", "Bulgaria")
combined_cleaned <- combined_cleaned \%>\%
mutate(Region = ifelse(Country %in% eu_countries, "EU", "Rest of the World"))
# Select numeric variables
numeric_vars <- combined_cleaned %>% select_if(is.numeric)
# descriptive statistics
numeric_summary <- describe(numeric_vars)</pre>
print(numeric_summary)
# Loop through numeric variables and plot histograms with adaptive binwidth
for (var in names(numeric_vars)) {
  # Calculate an appropriate binwidth based on the data range
  data_range <- range(combined_cleaned[[var]], na.rm = TRUE)</pre>
  binwidth <- (data_range[2] - data_range[1]) / 30 # Adjust 30 as needed</pre>
  p <- ggplot(combined_cleaned, aes(x = !!sym(var))) +</pre>
    geom_histogram(binwidth = binwidth, fill = "blue", color = "black") +
    labs(title = paste("Histogram of", var)) +
    theme_minimal()
  print(p)
}
# Box plots for numeric variables
# Loop through numeric variables and plot box plots
for (var in names(numeric_vars)) {
  p <- ggplot(combined_cleaned, aes(y = !!sym(var))) +</pre>
    geom_boxplot(fill = "cyan", color = "black") +
    labs(title = paste("Box Plot of", var)) +
    theme_minimal()
```

```
print(p)
```

```
# Detecting outliers in numeric variables using IQR method
for (var in names(numeric_vars)) {
  Q1 <- quantile(numeric_vars[[var]], 0.25, na.rm = TRUE)
  Q3 <- quantile(numeric_vars[[var]], 0.75, na.rm = TRUE)
  IQR < - Q3 - Q1
  lower_bound <- Q1 - 1.5 * IQR</pre>
  upper_bound <- Q3 + 1.5 * IQR
  outliers <- numeric_vars[[var]][numeric_vars[[var]] < lower_bound |</pre>
  → numeric_vars[[var]] > upper_bound]
  cat("\nOutliers for", var, ":\n")
  print(outliers)
}
# Applying log transformation to the selected variables
combined_cleaned$log_total_revenue <- log(combined_cleaned$`Total Revenue` + 1) #</pre>
\rightarrow Adding 1 to avoid log(0)
combined_cleaned$log_aligned_revenue <- log(combined_cleaned$`Aligned Revenue` + 1)</pre>
combined_cleaned$log_aligned_revenue_percent <- log(combined_cleaned$`Aligned Revenue
\rightarrow Percent + 1)
combined_cleaned$log_eligible_revenue <- log(combined_cleaned$`Eligible Revenue` + 1)</pre>
combined_cleaned$log_eligible_revenue_percent <- log(combined_cleaned$`Eligible</pre>
\rightarrow Revenue Percent + 1)
combined_cleaned$log_market_cap <- log(combined_cleaned$`Market Cap` + 1)</pre>
# Checking the distribution of log-transformed variables
log_vars <- combined_cleaned[, c("log_total_revenue", "log_aligned_revenue",</pre>
                                   "log_aligned_revenue_percent",
                                   → "log_eligible_revenue",
                                   "log_eligible_revenue_percent", "log_market_cap")]
```

}

```
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```

```
# Plotting histograms for the log-transformed variables
for (var in colnames(log_vars)) {
 p <- ggplot(combined_cleaned, aes_string(x = var)) +</pre>
    geom_histogram(binwidth = 0.5, fill = "blue", color = "black") +
    labs(title = paste("Histogram of", var)) +
    theme_minimal()
 print(p)
}
# ##### Descriptive Analysis ------
ggplot(combined_cleaned, aes(x = `Total Revenue`)) +
  geom_histogram(binwidth = 1e9, fill = "blue", color = "black") +
  labs(title = "Distribution of Total Revenue")
ggplot(combined_cleaned, aes(x = `Aligned Revenue`)) +
  geom_histogram(binwidth = 1e8, fill = "green", color = "black") +
  labs(title = "Distribution of Aligned Revenue")
ggplot(combined_cleaned, aes(x = `Eligible Revenue`)) +
  geom_histogram(binwidth = 1e8, fill = "green", color = "black") +
  labs(title = "Distribution of Eligible Revenue")
ggplot(combined_cleaned, aes(x = `Market Cap`)) +
  geom_histogram(binwidth = 1e8, fill = "green", color = "black") +
  labs(title = "Distribution of Aligned Revenue")
# List of continuous variables to plot
con_variables <- c("`Total Revenue`", "`Aligned Revenue`", "`Eligible Revenue`",</pre>

→ "`Market Cap`")

# Loop to create box plots for each variable
for (i in seq_along(con_variables)) {
 p <- ggplot(combined_cleaned, aes_string(y = con_variables[i])) +</pre>
    geom_boxplot(fill = "pink", color = "black") +
    labs(title = paste("Box Plot of", gsub("`", "", con_variables[i])))
```

```
print(p)
```

```
}
# Select categorical variables
categorical_vars <- combined_cleaned %>% select_if(is.factor)
# Loop through categorical variables and plot bar plots
for (var in names(categorical_vars)) {
  p <- ggplot(combined_cleaned, aes(x = !!sym(var))) +</pre>
    geom_bar(fill = "lightgreen", color = "black") +
    labs(title = paste("Bar Plot of", var)) +
    theme_minimal()
  print(p)
}
# Loop through categorical variables and plot bar plots
for (var in names(categorical_vars)) {
  # Create a summary table with counts for each category, sorted in descending order
  summary_table <- combined_cleaned %>%
    group_by(!!sym(var)) %>%
    summarise(count = n()) %>%
    arrange(desc(count))
  # Plot the bar plot with the customizations
  p <- ggplot(summary_table, aes(x = reorder(!!sym(var), -count), y = count)) + #</pre>
   \leftrightarrow reorder bars by count
    geom_bar(stat = "identity", fill = "lightgreen", color = "black", width = 0.7) +
    \leftrightarrow # Set width for smaller bars
    labs(title = paste("Bar Plot of", var), x = var, y = "Count") +
    theme_minimal(base_size = 14) + # Increase base font size
    theme(axis.text.x = element_text(angle = 45, hjust = 1, size = 12), # Larger
     \leftrightarrow x-axis text and angled for readability
```

```
axis.text.y = element_text(size = 12), # Larger y-axis text
axis.title.x = element_text(size = 14), # Larger x-axis title
axis.title.y = element_text(size = 14), # Larger y-axis title
plot.title = element_text(size = 16)) # Larger plot title
```

print(p)

}

```
# Descriptive statistics for financial variables
descriptive_stats_financial <- combined_cleaned %>%
  group_by(Aligned_Flag_Binary) %>%
  summarise(
    Count = n(),
    Mean_Total_Revenue = mean(log_total_revenue, na.rm = TRUE),
    SD_Total_Revenue = sd(log_total_revenue, na.rm = TRUE),
    Median_Total_Revenue = median(log_total_revenue, na.rm = TRUE),
    Mean_Market_Cap = mean(log_market_cap, na.rm = TRUE),
    SD_Market_Cap = sd(log_market_cap, na.rm = TRUE),
    Median_Market_Cap = median(log_market_cap, na.rm = TRUE),
    Mean_ROA = mean(Pretax_ROA, na.rm = TRUE),
    SD_ROA = sd(Pretax_ROA, na.rm = TRUE),
    Median_ROA = median(Pretax_ROA, na.rm = TRUE),
    Mean_Aligned_Revenue_Percent = mean(log_aligned_revenue_percent, na.rm = TRUE),
    SD_Aligned_Revenue_Percent = sd(log_aligned_revenue_percent, na.rm = TRUE),
    Median_Aligned_Revenue_Percent = median(log_aligned_revenue_percent, na.rm =
    \rightarrow TRUE),
    Mean_Eligible_Revenue_Percent = mean(log_eligible_revenue_percent, na.rm = TRUE),
    SD_Eligible_Revenue_Percent = sd(log_eligible_revenue_percent, na.rm = TRUE),
    Median_Eligible_Revenue_Percent = median(log_eligible_revenue_percent, na.rm =
```

 \rightarrow TRUE)

```
)
```

print(descriptive_stats_financial)

```
# Descriptive statistics for industry sector by alignment status
industry_distribution <- combined_cleaned %>%
  group_by(Aligned_Flag_Binary, TRBC_Economic_Sector_Name) %>%
  summarise(Count = n()) %>%
  ungroup() %>%
  arrange(desc(Count))
# View the industry distribution
print(industry_distribution)
# Descriptive statistics for geographic region by alignment status
region_distribution <- combined_cleaned \%>\%
  group_by(Aligned_Flag_Binary, Region) %>%
  summarise(Count = n()) %>%
  ungroup() %>%
  arrange(desc(Count))
# View the region distribution
print(region_distribution)
# Aligned vs not Aligned T-Tests and normality Check -----
# Convert Aligned Flag from TRUE/FALSE to binary 1/0
combined_cleaned$Aligned_Flag_Binary <- ifelse(combined_cleaned$`Aligned Flag` ==</pre>
\rightarrow TRUE, 1, 0)
# Check the transformation
table(combined_cleaned$`Aligned Flag` , combined_cleaned$Aligned_Flag_Binary)
# Perform analysis on aligned_companies
aligned_companies <- combined_cleaned %>% filter(Aligned_Flag_Binary == 1)
non_aligned_companies <- combined_cleaned %>% filter(Aligned_Flag_Binary == 0)
# For Total Revenue in aligned companies
shapiro.test(aligned_companies$log_total_revenue)
```

For Total Revenue in non-aligned companies

shapiro.test(non_aligned_companies\$log_total_revenue)

```
# ##Normality Check ------
```

Histogram for log-transformed Total Revenue (non-aligned companies)

ggplot(non_aligned_companies, aes(x = log_total_revenue)) +

geom_histogram(fill = "red", color = "black", binwidth = 0.1) +

labs(title = "Histogram of Log-Transformed Total Revenue (Non-Aligned Companies)")

Q-Q plot for log-transformed Total Revenue (non-aligned companies)

qqnorm(non_aligned_companies\$log_total_revenue)

qqline(non_aligned_companies\$log_total_revenue, col = "red")

```
t_test_total_revenue <- t.test(log_total_revenue ~ Aligned_Flag_Binary, data =</pre>
```

 \hookrightarrow combined_cleaned)

```
print(t_test_total_revenue)
```

Descriptive Statistics and T-Tests for Financial Metrics

"log_market_cap", "Pretax_ROA", "log_total_revenue")

Loop through each financial metric

```
for (metric in financial_metrics) {
```

print(paste("Shapiro-Wilk test for", metric, "in aligned companies"))

Shapiro-Wilk test for aligned companies (Aligned_Flag_Binary == 1)

aligned_test <- shapiro.test(combined_cleaned %>%

filter(Aligned_Flag_Binary == 1) %>%

pull(metric))

print(aligned_test)

non_aligned_values <- combined_cleaned $\% \!\!> \!\!\%$

```
filter(Aligned_Flag_Binary == 0) %>%
    pull(metric)
  if (length(unique(non_aligned_values)) == 1) {
    print(paste("Shapiro-Wilk test for", metric, "in non-aligned companies: Skipped
    → (all values are identical)"))
  } else {
    print(paste("Shapiro-Wilk test for", metric, "in non-aligned companies"))
    non_aligned_test <- shapiro.test(non_aligned_values)</pre>
    print(non_aligned_test)
 }
}
# Loop through each financial metric to create histograms and Q-Q plots
for (metric in financial_metrics) {
  # Histogram for aligned companies
 p_hist_aligned <- ggplot(combined_cleaned %>% filter(Aligned_Flag_Binary == 1),
  \rightarrow aes(x = get(metric))) +
    geom_histogram(binwidth = 0.5, fill = "blue", color = "black") +
    labs(title = paste("Histogram of", metric, "in Aligned Companies"), x = metric, y
    \rightarrow = "Frequency") +
    theme_minimal()
  print(p_hist_aligned)
  # Q-Q plot for aligned companies
  p_qq_aligned <- ggplot(combined_cleaned %>% filter(Aligned_Flag_Binary == 1),
  → aes(sample = get(metric))) +
    stat_qq() +
    stat_qq_line(color = "red") +
```

```
133
```

print(p_qq_aligned)

```
non_aligned_values <- combined_cleaned %>% filter(Aligned_Flag_Binary == 0) %>%
```

```
\rightarrow \quad \texttt{pull(metric)}
```

```
if (length(unique(non_aligned_values)) > 1) {
```

```
# Histogram for non-aligned companies
```

```
p_hist_non_aligned <- ggplot(combined_cleaned %>% filter(Aligned_Flag_Binary ==
```

```
\rightarrow 0), aes(x = get(metric))) +
```

geom_histogram(binwidth = 0.5, fill = "green", color = "black") +

```
labs(title = paste("Histogram of", metric, "in Non-Aligned Companies"), x =
```

 \rightarrow metric, y = "Frequency") +

```
theme_minimal()
```

```
print(p_hist_non_aligned)
```

```
# Q-Q plot for non-aligned companies
```

p_qq_non_aligned <- ggplot(combined_cleaned %>% filter(Aligned_Flag_Binary == 0),

```
print(paste("Histogram and Q-Q Plot for", metric, "in non-aligned companies:
    → Skipped (all values are identical)"))
 }
}
# ##TTests -----
# Loop through each financial metric to get descriptive statistics and t-test results
for (metric in financial_metrics) {
  summary_stats <- combined_cleaned %>%
   group_by(Aligned_Flag_Binary) %>%
   summarise(
     mean_value = mean(get(metric), na.rm = TRUE),
     median_value = median(get(metric), na.rm = TRUE),
     sd_value = sd(get(metric), na.rm = TRUE)
   )
 print(paste("Summary statistics for", metric))
 print(summary_stats)
  # T-Test
 t_test_result <- t.test(get(metric) ~ Aligned_Flag_Binary, data = combined_cleaned)</pre>
 print(paste("T-Test results for", metric))
 print(t_test_result)
}
# Visualizations for Financial Metrics
for (metric in financial_metrics) {
 p <- ggplot(combined_cleaned, aes(x = factor(Aligned_Flag_Binary), y = get(metric)))</pre>
  \hookrightarrow +
   geom_boxplot(fill = "cyan", color = "black") +
   labs(title = paste("Box Plot of", metric, "by Alignment Status"),
```
```
combined_cleaned <- combined_cleaned %>%
mutate(Region = ifelse(Country %in% eu_countries, "EU", "Rest of the World"))
```

#Chi-Square Test on Region vs Aligned_Flag_Binary

```
region_table <- table(combined_cleaned$Region, combined_cleaned$Aligned_Flag_Binary)
chi_square_test_region <- chisq.test(region_table)
print("Chi-Square Test results for Region")
print(chi_square_test_region)</pre>
```

###Cramers V

chi_square_statistic <- chi_square_test_region\$statistic</pre>

- n <- sum(region_table) # Total number of observations</pre>
- k <- ncol(region_table) # Number of levels in one variable (2 levels: "EU", "Rest of
- \hookrightarrow the World")
- $r \leq nrow(region_table) \#$ Number of levels in the other variable (2 levels: "Aligned",
- \rightarrow "Not Aligned")

cramers_v <- sqrt(chi_square_statistic / (n * min(k-1, r-1)))</pre>

```
print(paste("Cramér's V for Region vs. Alignment Status:", cramers_v))
```

```
# Bar plot for the number of companies in each region with alignment status
ggplot(combined_cleaned, aes(x = Region, fill = as.factor(Aligned_Flag_Binary))) +
geom_bar(position = "dodge") +
labs(title = "Distribution of Alignment Status Across Regions",
    x = "Region",
    y = "Count of Companies",
    fill = "Alignment Status") +
scale_fill_manual(values = c("0" = "red", "1" = "seagreen"),
```

```
labels = c("0" = "Non-Aligned", "1" = "Aligned")) +
```

theme_minimal()

```
# Barplot for Industry Classification (TRBC Economic Secotr) by Alignment Status
p_industry <- ggplot(combined_cleaned, aes(x = TRBC_Economic_Sector_Name, fill =</pre>
```

```
→ factor(Aligned_Flag_Binary))) +
```

```
geom_bar(position = "dodge") +
```

labs(title = "Industry Distribution by Alignment Status",

x = "TRBC Economic Sector", fill = "Alignment Status") +

theme_minimal() +

theme(axis.text.x = element_text(angle = 90, hjust = 1))

print(p_industry)

```
# Adjusting plot size and increasing font size
```

```
p_industry <- ggplot(combined_cleaned, aes(x = TRBC_Economic_Sector_Name, fill =
```

```
→ factor(Aligned_Flag_Binary))) +
```

```
geom_bar(position = "dodge", width = 0.7) + # Adjusts bar width to make the plot

→ more compact
```

labs(title = "Industry Distribution by Alignment Status",

```
x = "TRBC Economic Sector",
```

fill = "Alignment Status") +

```
theme_minimal(base_size = 14) + # Increases the base font size for all text
theme(axis.text.x = element_text(angle = 90, hjust = 1, size = 12), # Adjusts the
```

```
\rightarrow size of x-axis labels
```

```
legend.text = element_text(size = 12)) # Adjusts the size of the legend text
print(p_industry)
```

Barplot for Geographic Location (Country) by Alignment Status

Summary of ESG model
print("Summary of ESG Rating Regression Model")
summary(esg_model)
###Check Residuals
plot(esg_model, which = 1) #Residuals vs Fitted Plot
plot(esg_model, which = 2) #Normal Q-Q Plot
plot(esg_model, which = 3) #Scale-Location Plot
plot(esg_model, which = 5) #Residuals vs Leverage Plot

Run multiple linear regression for ESG Rating

Summary of ESG model

print("Summary of E Rating Regression Model")

summary(e_model)

###Check Residuals

plot(e_model, which = 1) #Residuals vs Fitted Plot

plot(e_model, which = 2) #Normal Q-Q Plot

plot(e_model, which = 3) #Scale-Location Plot

plot(e_model, which = 5) #Residuals vs Leverage Plot

######### ROBOST Regression

library(MASS)

#multiple linear regression for ESG Rating

```
# Summary of ESG model
print("Summary of Robust ESG Rating Regression Model")
summary(resg_model)
###Check Residuals
plot(resg_model, which = 1) #Residuals vs Fitted Plot
plot(resg_model, which = 2) #Normal Q-Q Plot
plot(resg_model, which = 3) #Scale-Location Plot
```

plot(resg_model, which = 5) #Residuals vs Leverage Plot

#multiple linear regression for E Rating

Summary of E model

######## Add interaction terms between Sector and Region, and between Financial

 $\, \hookrightarrow \,$ Metrics and Sector

Update the robust regression model with interaction terms

resg_model_interaction <- rlm(ESG_Score ~ log_total_revenue *</pre>

 \rightarrow log_aligned_revenue_percent +

log_total_revenue * log_eligible_revenue_percent +
log_total_revenue * log_market_cap +
Region * Aligned_Flag_Binary +
Pretax_ROA + TRBC_Economic_Sector_Name + Region +
Aligned_Flag_Binary,
data = combined_cleaned)

Summarize the updated model

summary(resg_model_interaction)

interaction_model_financial <- rlm(ESG_Score ~ Aligned_Flag_Binary * log_total_revenue</pre>

 \hookrightarrow +

Aligned_Flag_Binary * log_market_cap +

log_aligned_revenue_percent +

log_eligible_revenue_percent +

 $Pretax_ROA +$

TRBC_Economic_Sector_Name + Region,

data = combined_cleaned)

summary(interaction_model_financial)

#Interaction Between EU Taxonomy Alignment and Industry Classification

interaction_model_industry <- rlm(ESG_Score ~ Aligned_Flag_Binary *</pre>

 \rightarrow TRBC_Economic_Sector_Name +

log_total_revenue +
log_market_cap +
log_aligned_revenue_percent +
log_eligible_revenue_percent +
Pretax_ROA +

Region,

data = combined_cleaned)

summary(interaction_model_industry)

#Interaction Between EU Taxonomy Alignment and Geographic Location

interaction_model_region <- rlm(ESG_Score ~ Aligned_Flag_Binary * Region +</pre>

log_total_revenue +

log_market_cap +

log_aligned_revenue_percent +

log_eligible_revenue_percent +

 $Pretax_ROA +$

TRBC_Economic_Sector_Name,

data = combined_cleaned)

summary(interaction_model_region)

#Combined Interaction Effects

```
combined_interaction_model <- rlm(ESG_Score ~ Aligned_Flag_Binary * log_total_revenue</pre>
```

 \hookrightarrow +

Aligned_Flag_Binary * log_market_cap +
Aligned_Flag_Binary * TRBC_Economic_Sector_Name +
Aligned_Flag_Binary * Region +
log_aligned_revenue_percent +
log_eligible_revenue_percent +
Pretax_ROA,

data = combined_cleaned)

summary(combined_interaction_model)

####find final model

TRBC_Economic_Sector_Name * log_market_cap +

Region,

data = combined_cleaned)

Summarize the alternative final model

summary(resg_final_interaction)

Plot residuals vs fitted values

plot(final_model\$fitted.values, resg_final_interaction\$residuals,

xlab = "Fitted Values", ylab = "Residuals",

main = "Residuals vs Fitted Values")

abline(h = 0, col = "red")

Q-Q plot to check for normality

qqnorm(resg_final_interaction\$residuals, main = "Q-Q Plot of Residuals")

qqline(resg_final_interaction\$residuals, col = "red")

Histogram of residuals

Calculate VIF

vif_values <- vif(resg_final_interaction)</pre>

print(vif_values)

######### Add interaction terms between Sector and Region, and between Financial

 $\, \hookrightarrow \,$ Metrics and Sector

Update the robust regression model with interaction terms

log_total_revenue * log_eligible_revenue_percent + log_total_revenue * log_market_cap + Region * Aligned_Flag_Binary + Pretax_ROA + TRBC_Economic_Sector_Name + Region + \rightarrow Aligned_Flag_Binary, data = combined_cleaned)

Summarize the updated model

summary(re_model_interaction)

```
vif_model_e <- rlm(E_Score ~ log_total_revenue * log_aligned_revenue_percent +</pre>
                      log_total_revenue * log_eligible_revenue_percent +
                      log_total_revenue * log_market_cap +
                      Region * Aligned_Flag_Binary +
                      Pretax_ROA + TRBC_Economic_Sector_Name + Region +
                      \rightarrow Aligned_Flag_Binary,
                    data = combined_cleaned)
```

vif(vif_model_e) # Not working bc Multicolinearity is too high ###E-Rating: next step find possible interaction terms

#Interaction Between EU Taxonomy Alignment and Financial Metrics

e_interaction_model_financial <- rlm(E_Score ~ Aligned_Flag_Binary * log_total_revenue \hookrightarrow +

```
Aligned_Flag_Binary * log_market_cap +
 log_aligned_revenue_percent +
 log_eligible_revenue_percent +
 Pretax_ROA +
 TRBC_Economic_Sector_Name + Region,
data = combined_cleaned)
```

summary(e_interaction_model_financial)

#Interaction Between EU Taxonomy Alignment and Industry Classification

e_interaction_model_industry <- rlm(E_Score ~ Aligned_Flag_Binary *</pre>

 $\hookrightarrow \quad \text{TRBC_Economic_Sector_Name} \ +$

log_total_revenue +
log_market_cap +
log_aligned_revenue_percent +
log_eligible_revenue_percent +
Pretax_ROA +
Region,

data = combined_cleaned)

```
summary(e_interaction_model_industry)
```

#Interaction Between EU Taxonomy Alignment and Geographic Location

e_interaction_model_region <- rlm(E_Score ~ Aligned_Flag_Binary * Region +

log_total_revenue +

log_market_cap +

log_aligned_revenue_percent +

log_eligible_revenue_percent +

Pretax_ROA +

TRBC_Economic_Sector_Name,

data = combined_cleaned)

summary(e_interaction_model_region)

#Combined Interaction Effects

```
Aligned_Flag_Binary * Region +
log_aligned_revenue_percent +
log_eligible_revenue_percent +
Pretax_ROA,
data = combined_cleaned)
```

```
summary(e_combined_interaction_model)
```

####find final model

```
data = combined_cleaned)
```

Histogram of residuals

hist(re_final_interaction\$residuals, breaks = 30, main = "Histogram of Residuals",

```
xlab = "Residuals")
# Calculate VIF
vif_values <- vif(re_final_interaction)</pre>
print(vif_values)
# Logistic Model ------
logistic_model_e_score <- glm(</pre>
  formula = Aligned_Flag_Binary ~ log_total_revenue + log_market_cap +
    log_eligible_revenue_percent +
   Pretax_ROA + TRBC_Economic_Sector_Name + Region + E_Score,
  family = binomial,
 data = combined_cleaned
)
vif_values <- vif(logistic_model_e_score)</pre>
print(vif_values)
summary(logistic_model_e_score)
logistic_model_esg_score <- glm(</pre>
  formula = Aligned_Flag_Binary ~ log_total_revenue + log_market_cap +
    log_eligible_revenue_percent +
    Pretax_ROA + TRBC_Economic_Sector_Name + Region + ESG_Score,
  family = binomial,
  data = combined_cleaned
)
summary(logistic_model_esg_score)
vif_values <- vif(logistic_model_esg_score)</pre>
print(vif_values)
#Model fit
predicted_probabilities_escore <- predict(logistic_model_e_score, type = "response")</pre>
```

```
predicted_probabilities_esgscore <- predict(logistic_model_esg_score, type =</pre>
\leftrightarrow "response")
# For E Score model
roc_curve_e <- roc(combined_cleaned$Aligned_Flag_Binary,</pre>
→ predicted_probabilities_escore)
auc_e <- auc(roc_curve_e)</pre>
# For ESG Score model
roc_curve_esg <- roc(combined_cleaned$Aligned_Flag_Binary,</pre>
\rightarrow predicted_probabilities_esgscore)
auc_esg <- auc(roc_curve_esg)</pre>
plot(roc_curve_e, col = "blue", main = "ROC Curve for E Score vs ESG Score Models")
plot(roc_curve_esg, add = TRUE, col = "green")
legend("bottomright", legend = c(sprintf("E Score Model (AUC = %.2f)", auc_e),
                                   sprintf("ESG Score Model (AUC = %.2f)", auc_esg)),
       col = c("blue", "green"), lwd = 2)
print(auc_e)
print(auc_esg)
############## CONTENT ANALYSIS
```

```
#### RANDOM SAMPLING FOR CONTENT ANALYSIS
```

}

```
# Function to sample companies based on alignment status and region
sample_companies_balanced <- function(data, aligned_status, region, n) {
   data %>%
    filter(`Aligned_Flag_Binary` == aligned_status, Region == region) %>%
    slice_sample(n = n) %>%
    ungroup()
```

Sample 10 aligned and 10 non-aligned companies from each region

eu_non_aligned_sample <- sample_companies_balanced(combined_cleaned, aligned_status =</pre>

 \rightarrow 0, region = "EU", n = 5)

row_aligned_sample <- sample_companies_balanced(combined_cleaned, aligned_status = 1,</pre>

 \rightarrow region = "Rest of the World", n = 5)

row_non_aligned_sample <- sample_companies_balanced(combined_cleaned, aligned_status =</pre>

 \rightarrow 0, region = "Rest of the World", n = 5)

Combine the samples

final_sample <- bind_rows(eu_aligned_sample, eu_non_aligned_sample,

 $\,\, \hookrightarrow \,\,$ row_aligned_sample, row_non_aligned_sample)

print(final_sample)

Calculate the sum of "Frequency" by "Category"

sum_by_category <- aggregate(Häufigkeit ~ Category, data = Wortha_ufigkeiten_beides_R,</pre>

 \rightarrow sum, na.rm = TRUE)

print(sum_by_category)

sum_by_subcategory <- aggregate(Häufigkeit ~ `Subcategory`, data =</pre>

 \rightarrow Wortha_ufigkeiten_beides_R, sum, na.rm = TRUE)

print(sum_by_subcategory)

Combine "Environmental" and "Environmental (Additon LMO 2022)" into a single

 \hookrightarrow category

Wortha_ufigkeiten_beides_R\$Category <- ifelse(Wortha_ufigkeiten_beides_R\$Category ==

 \leftrightarrow "Environmental (Additon LMO 2022)",

"Environmental",

Wortha_ufigkeiten_beides_R\$Category)

```
########### Calculate the sum of "Frequency" by "Category" by percentage
```

sum_haeufigkeitP <- sum(Wortha_ufigkeiten_beides_R\$Prozent, na.rm = TRUE)
print(sum_haeufigkeitP)</pre>

```
sum_by_categoryP <- aggregate(Prozent ~ Category, data = Wortha_ufigkeiten_beides_R,</pre>
```

 \rightarrow sum, na.rm = TRUE)

print(sum_by_categoryP)

<code>sum_by_subcategoryP <- aggregate(Prozent ~ Subcategory, data = </code>

```
\rightarrow Wortha_ufigkeiten_beides_R, sum, na.rm = TRUE)
```

print(sum_by_subcategoryP)

####Calculate the sum of "Frequency" by "Category" by subcategory

sum_by_category_and_3 <- aggregate(Prozent \sim Category + Subcategory, data =

→ Wortha_ufigkeiten_beides_R, sum, na.rm = TRUE)

print(sum_by_category_and_3)

```
# Filter by environmental, social, governance
environmental_subset <- subset(sum_by_category_and_3, Category == "Environmental")
print(environmental_subset)
social_subset <- subset(sum_by_category_and_3, Category == "Social")</pre>
```

print(social_subset)

governance_subset <- subset(sum_by_category_and_3, Category == "Governance")
print(governance_subset)
taxonomy_subset <- subset(sum_by_category_and_3, Category == "EU Taxonomy")
print(taxonomy_subset)</pre>

#######

Filter by environmental, social, governance by percent

sum_by_category_and_3H <- aggregate(Häufigkeit ~ Category + Subcategory, data =</pre>

```
→ Wortha_ufigkeiten_beides_R, sum, na.rm = TRUE)
```

```
print(sum_by_category_and_3)
```

```
environmental_subset <- subset(sum_by_category_and_3H, Category == "Environmental")
print(environmental_subset)
social_subset <- subset(sum_by_category_and_3H, Category == "Social")
print(social_subset)
governance_subset <- subset(sum_by_category_and_3H, Category == "Governance")
print(governance_subset)
taxonomy_subset <- subset(sum_by_category_and_3H, Category == "EU Taxonomy")
print(taxonomy_subset)</pre>
```

```
# Split the data into RW and EU groups based on the column names you provided
#EU = aligned companies
#RW = not aligned companies
```

eu_columns <- c("EDP_Integrated Annual Report_2023_EU",</pre>

```
"A2A_integrated report_2023_EU",
```

"Rexel_Sustainability Report 2023_EU", "bureau-veritas_integrated report_2023_EU", "eni_Sustainability Report_2023_EU", "Genting_SR2023_RW", "vistra-sustainability-report-2023_RW", "Anhui Conch Cement_Sustainability Report 2023_RW", "JSW_Annual-Report-Integrated_2023_RW", "Mitsubishi Sustainability_report2023_RW", "Magellan_Sustainability Report2023_RW")

rw_columns <- c("SKF Sustainability report 2023_EU",</pre>

"peabs_sustainability_report_2023_EU", "Banco de Sabadell_SR2023_EU", "TEN-Sustainability-report-2023_EU", "bechtle_short-report-sustainability-2023_EU", "MSI_Sustainability report_2023_RW", "ANTA_Sustainability report 2023_RW", "Sumitomo Sustainability Report 2023_RW", "Constellation Brand_Sustainability Report_2023_RW")

Filter the data based on the RW and EU columns

df_rw <- Wortha_ufigkeiten_beides_R %>% select(Category, Subcategory, Prozent,

→ Häufigkeit, all_of(rw_columns))

df_eu <- Wortha_ufigkeiten_beides_R %>% select(Category, Subcategory, Prozent,

→ Häufigkeit, all_of(eu_columns))

Summing the Frequency for RW group

Wortha_ufigkeiten_beides_R <- Wortha_ufigkeiten_beides_R %>%

```
rowwise() %>%
```

mutate(Total_Häufigkeit_RW = sum(c_across(all_of(rw_columns)), na.rm = TRUE))

Summing the Frequency for EU group

```
Wortha_ufigkeiten_beides_R <- Wortha_ufigkeiten_beides_R \% \!\!> \!\!\%
```

rowwise() %>%

mutate(Total_Häufigkeit_EU = sum(c_across(all_of(eu_columns)), na.rm = TRUE))

Calculation of the total frequency for RW and EU

```
# Calculation of the total number of all words (for both groups together)
total_words <- total_haeufigkeit_rw + total_haeufigkeit_eu</pre>
```

Add the columns for the percentage of frequency in the total number of all words Wortha_ufigkeiten_beides_R <- Wortha_ufigkeiten_beides_R %>% mutate(Ratio_Häufigkeit_RW_gesamt = (Total_Häufigkeit_RW / total_words) * 100,

Ratio_Häufigkeit_EU_gesamt = (Total_Häufigkeit_EU / total_words) * 100)

 ${\it \# Sum of Ratio_frequency_RW_total and Ratio_frequency_EU_total by category and}$

 \hookrightarrow subcategory

sum_ratio_by_category_and_subcategory <- Wortha_ufigkeiten_beides_R %>%

group_by(Category, Subcategory) %>%

summarise(

Sum_Ratio_Häufigkeit_RW_gesamt = sum(Ratio_Häufigkeit_RW_gesamt, na.rm = TRUE),

```
Sum_Ratio_Häufigkeit_EU_gesamt = sum(Ratio_Häufigkeit_EU_gesamt, na.rm = TRUE)
)
# Sum of Ratio_frequency_RW_total and Ratio_frequency_EU_total by category
sum_ratio_by_category <- Wortha_ufigkeiten_beides_R %>%
group_by(Category) %>%
summarise(
Sum_Ratio_Häufigkeit_RW_gesamt = sum(Ratio_Häufigkeit_RW_gesamt, na.rm = TRUE),
Sum_Ratio_Häufigkeit_EU_gesamt = sum(Ratio_Häufigkeit_EU_gesamt, na.rm = TRUE)
```

```
)
```

```
####Filter for EU Taxonomy
```

Filter by EU Taxonomy in the subcategory column

```
eu_taxonomy_subset <- Wortha_ufigkeiten_beides_R %>%
```

```
filter(Category == "EU Taxonomy")
```

```
# Summe von Ratio_Häufigkeit_RW_gesamt und Ratio_Häufigkeit_EU_gesamt nach Category
sum_ratio_by_category_eu_taxonomy <- eu_taxonomy_subset %>%
group_by(Category) %>%
```

summarise(

```
Sum_Ratio_Häufigkeit_RW_gesamt = sum(Ratio_Häufigkeit_RW_gesamt, na.rm = TRUE),
Sum_Ratio_Häufigkeit_EU_gesamt = sum(Ratio_Häufigkeit_EU_gesamt, na.rm = TRUE))
```

```
print(sum_ratio_by_category_eu_taxonomy)
```

eu_taxonomy_ratios <- Wortha_ufigkeiten_beides_R %>%

filter(Category == "EU Taxonomy") %>%

select(Ratio_Häufigkeit_RW_gesamt, Ratio_Häufigkeit_EU_gesamt)

print(eu_taxonomy_ratios)

Data Set for Regression Analysis

| Company | Aligned | Total | Aligned | Aligned | Eligible | Eligible | Е | ESG | Pretax | Country | TRBC | Market |
|----------------------|---------|-----------------|-----------------|---------|-----------------|----------|-------|-------|--------|---------------|-------------|-----------------|
| Name | Flag | Revenue | Revenue | Revenue | Revenue | Revenue | Score | Score | ROA | | Economic | Сар |
| | | | | Percent | | Percent | | | | | Sector | |
| | | | | | | | | | | | Name | |
| Trina Solar Co Ltd | True | 1.15224142e+10 | 1.095857718e+10 | 95.11 | 1.132021387e+10 | 98.25 | 61.63 | 48.28 | 0.06 | China | Energy | 4381764222 |
| Nabtesco Corp | True | 2199991384 | 492798.07 | 0.02 | 492798.07 | 0.02 | 63.56 | 69.74 | 0.06 | Japan | Industrials | 1940843323 |
| Chevron Corp | True | 2.202539648e+11 | 54182475.34 | 0.02 | 54182475.34 | 0.02 | 75.67 | 84.1 | 0.11 | United States | Energy | 2.607634913e+11 |
| | | | | | | | | | | of America | | |
| UGI Corp | True | 1.031327406e+10 | 2361739.76 | 0.02 | 4280008.73 | 0.04 | 62.36 | 59.83 | -0.11 | United States | Utilities | 4368580974 |
| | | | | | | | | | | of America | | |
| China Shenhua En- | True | 4.468028441e+10 | 2189333.94 | 0.0 | 21401856.23 | 0.05 | 91.89 | 76.46 | 0.14 | China | Energy | 1.056109728e+11 |
| ergy Co Ltd | | | | | | | | | | | | |
| HK Electric Invest- | True | 1291373225 | 759327.46 | 0.06 | 759327.46 | 0.06 | 49.7 | 51.03 | 0.03 | Hong Kong | Utilities | 5242871967 |
| ments Ltd | | | | | | | | | | | | |
| Mitsui Chemicals Inc | True | 1.197983544e+10 | 1317781.9 | 0.01 | 6636828.84 | 0.06 | 86.45 | 66.85 | 0.03 | Japan | Basic Mate- | 5058433367 |
| | | | | | | | | | | | rials | |
| Repsol SA | True | 6.9291e+10 | 678913218 | 0.98 | 1131522030 | 1.63 | 89.54 | 89.46 | 0.07 | Spain | Energy | 1.665501687e+10 |
| Banpu PCL | True | 7188544768 | 17755705.58 | 0.25 | 17755705.58 | 0.25 | 91.91 | 85.74 | 0.04 | Thailand | Energy | 1323056350 |
| Associated British | True | 1.936789403e+10 | 38290326.49 | 0.2 | 76580652.99 | 0.4 | 92.77 | 75.45 | 0.07 | United King- | Consumer | 2.155254561e+10 |
| Foods PLC | | | | | | | | | | dom | Non- | |
| | | | | | | | | | | | Cyclicals | |

Table 20: Company Data with Aligned and Non-Aligned Flags in Different Regions

| Company | Aligned | Total | Aligned | Aligned | Eligible | Eligible | Е | ESG | Pretax | Country | TRBC | Market |
|----------------------|---------|-----------------|-------------|---------|-------------|----------|-------|-------|--------|---------------|-------------|-----------------|
| Name | Flag | Revenue | Revenue | Revenue | Revenue | Revenue | Score | Score | ROA | | Economic | Сар |
| | | | | Percent | | Percent | | | | | Sector | |
| | | | | | | | | | | | Name | |
| Inpex Corp | True | 1.650637448e+10 | 55510937.38 | 0.34 | 74014583.18 | 0.45 | 74.58 | 72.1 | 0.19 | Japan | Energy | 1.741700492e+10 |
| Centrica PLC | True | 3.802142721e+10 | 67373969.01 | 0.18 | 168434922.5 | 0.44 | 67.51 | 68.04 | 0.26 | United King- | Utilities | 8702943736 |
| | | | | | | | | | | dom | | |
| PPL Corp | True | 7383628800 | 2252006.78 | 0.03 | 40469669.45 | 0.55 | 43.84 | 62.51 | 0.02 | United States | Utilities | 1.870284403e+10 |
| | | | | | | | | | | of America | | |
| Casino Guichard Per- | True | 9655000000 | 18643805 | 0.19 | 55931415 | 0.58 | 80.61 | 78.16 | -0.07 | France | Consumer | 1514498679 |
| rachon SA | | | | | | | | | | | Non- | |
| | | | | | | | | | | | Cyclicals | |
| Marubeni Corp | True | 6.320597663e+10 | 202827979 | 0.32 | 535354622 | 0.85 | 46.63 | 57.85 | 0.07 | Japan | Industrials | 2.941541868e+10 |
| China Steel Corp | True | 1.373829548e+10 | 96264236.4 | 0.7 | 117201398.7 | 0.85 | 93.9 | 78.49 | 0.01 | Taiwan | Basic Mate- | 1.044644031e+10 |
| | | | | | | | | | | | rials | |
| Graham Corp | True | 110993152.5 | 3745574.92 | 3.37 | 4716321.04 | 4.25 | 8.65 | 27.6 | 0.03 | United States | Industrials | 274022220.5 |
| | | | | | | | | | | of America | | |
| IVS Group SA | True | 540068000 | 2352000 | 0.44 | 2352000 | 0.44 | 29.38 | 43.02 | 0.01 | Italy | Consumer | 648511968.2 |
| | | | | | | | | | | | Non- | |
| | | | | | | | | | | | Cyclicals | |
| Naturgy Energy | True | 3.3965e+10 | 139086675 | 0.41 | 370897800 | 1.09 | 89.26 | 79.32 | 0.08 | Spain | Utilities | 2.067199541e+10 |
| Group SA | | | | | | | | | | | | |

| Company | Aligned | Total | Aligned | Aligned | Eligible | Eligible | Е | ESG | Pretax | Country | TRBC | Market |
|---------------------|---------|-----------------|-------------|---------|-------------|----------|-------|-------|--------|---------------|-------------|-----------------|
| Name | Flag | Revenue | Revenue | Revenue | Revenue | Revenue | Score | Score | ROA | | Economic | Сар |
| | | | | Percent | | Percent | | | | | Sector | |
| | | | | | | | | | | | Name | |
| ENN Natural Gas Co | True | 2.083877144e+10 | 45678587 | 0.22 | 137035761 | 0.66 | 50.04 | 29.65 | 0.12 | China | Utilities | 8256115516 |
| Ltd | | | | | | | | | | | | |
| Eni SpA | True | 1.32512e+11 | 2923479744 | 2.21 | 2923479744 | 2.21 | 81.58 | 86.46 | 0.07 | Italy | Energy | 4.649652772e+10 |
| TotalEnergies SE | True | 2.46036864e+11 | 1587921920 | 0.65 | 2905449327 | 1.18 | 91.26 | 83.77 | 0.12 | France | Energy | 1.517223842e+11 |
| World Kinect Corpo- | True | 5.516987264e+10 | 900924020.2 | 1.63 | 900924020.2 | 1.63 | 26.75 | 50.11 | 0.01 | United States | Energy | 1383615740 |
| ration | | | | | | | | | | of America | | |
| Itochu Corp | True | 9.132100325e+10 | 139447172 | 0.15 | 1426616713 | 1.56 | 85.58 | 59.54 | 0.08 | Japan | Industrials | 7.411816828e+10 |
| Eversource Energy | True | 1.141587876e+10 | 30526059.8 | 0.27 | 198876023.8 | 1.74 | 89.16 | 73.46 | -0.01 | United States | Utilities | 1.88443223e+10 |
| | | | | | | | | | | of America | | |
| Stolt-Nielsen Ltd | True | 2663962870 | 44237767.43 | 1.66 | 44237767.43 | 1.66 | 35.67 | 40.86 | 0.06 | United King- | Industrials | 2178191609 |
| | | | | | | | | | | dom | | |
| Atco Ltd | True | 3433052771 | 3807255.52 | 0.11 | 62406033.28 | 1.82 | 41.06 | 38.15 | 0.04 | Canada | Utilities | 2982184633 |
| Kumho Petro Chemi- | True | 5910307487 | 109352509.1 | 1.85 | 109352509.1 | 1.85 | 61.52 | 57.01 | 0.06 | Korea; Re- | Consumer | 3028284967 |
| cal Co Ltd | | | | | | | | | | public (S. | Cyclicals | |
| | | | | | | | | | | Korea) | | |
| ENKA Insaat ve | True | 3090150694 | 12697429.2 | 0.41 | 63487146 | 2.05 | 92.34 | 87.06 | 0.1 | Turkey | Industrials | 6827522380 |
| Sanayi AS | | | | | | | | | | | | |
| Valero Energy Corp | True | 1.648122752e+11 | 3413427032 | 2.07 | 3413427032 | 2.07 | 57.99 | 65.45 | 0.19 | United States | Energy | 4.424681906e+10 |
| | | | | | | | | | | of America | | |

| Company | Aligned | Total | Aligned | Aligned | Eligible | Eligible | Е | ESG | Pretax | Country | TRBC | Market |
|----------------------|---------|-----------------|-------------|---------|-------------|----------|-------|-------|--------|---------------|-------------|-----------------|
| Name | Flag | Revenue | Revenue | Revenue | Revenue | Revenue | Score | Score | ROA | | Economic | Сар |
| | | | | Percent | | Percent | | | | | Sector | |
| | | | | | | | | | | | Name | |
| GS Holdings | True | 1.998573644e+10 | 221581859.9 | 1.11 | 466227259.8 | 2.33 | 63.01 | 46.29 | 0.1 | Korea; Re- | Utilities | 2982844927 |
| | | | | | | | | | | public (S. | | |
| | | | | | | | | | | Korea) | | |
| Bangchak Corpora- | True | 8428832550 | 162693325.9 | 1.93 | 199105882.5 | 2.36 | 91.41 | 83.22 | 0.07 | Thailand | Energy | 1347358471 |
| tion PCL | | | | | | | | | | | | |
| Vedanta Resources | True | 1.592317125e+10 | 333940747.5 | 2.1 | 333940747.5 | 2.1 | 0.0 | 0.0 | 0.0 | United King- | Basic Mate- | 0 |
| Ltd | | | | | | | | | | dom | rials | |
| Vedanta Ltd | True | 1.580425987e+10 | 19771129.1 | 0.13 | 459082140.7 | 2.9 | 80.67 | 81.63 | 0.11 | India | Basic Mate- | 1.913784311e+10 |
| | | | | | | | | | | | rials | |
| Unitil Corp | True | 526254080 | 364167.82 | 0.07 | 15557649.37 | 2.96 | 34.21 | 41.85 | 0.04 | United States | Utilities | 784237583.7 |
| | | | | | | | | | | of America | | |
| Mitsubishi Materials | True | 1.345863222e+10 | 54224829.23 | 0.4 | 396249049.9 | 2.94 | 75.46 | 63.24 | 0.02 | Japan | Basic Mate- | 2305089963 |
| Corp | | | | | | | | | | | rials | |
| Chugoku Electric | True | 8443562572 | 1021671.07 | 0.01 | 268243539.3 | 3.18 | 60.47 | 45.77 | 0.05 | Japan | Utilities | 2262350878 |
| Power Co Inc | | | | | | | | | | | | |
| CMS Energy Corp | True | 8032102400 | 273950916.6 | 3.41 | 275517176.5 | 3.43 | 46.43 | 49.89 | 0.03 | United States | Utilities | 1.625759743e+10 |
| | | | | | | | | | | of America | | |
| CLP Holdings Ltd | True | 1.204412226e+10 | 214168582.1 | 1.78 | 428337164.1 | 3.56 | 86.88 | 78.39 | 0.05 | Hong Kong | Utilities | 1.874553631e+10 |

| Company | Aligned | Total | Aligned | Aligned | Eligible | Eligible | Е | ESG | Pretax | Country | TRBC | Market |
|----------------------|---------|-----------------|-------------|---------|-------------|----------|-------|-------|--------|---------------|-------------|-----------------|
| Name | Flag | Revenue | Revenue | Revenue | Revenue | Revenue | Score | Score | ROA | | Economic | Сар |
| | | | | Percent | | Percent | | | | | Sector | |
| | | | | | | | | | | | Name | |
| CenterPoint Energy | True | 8709542400 | 171020574.6 | 1.96 | 171020574.6 | 1.96 | 25.47 | 41.65 | 0.03 | United States | Utilities | 1.747868531e+10 |
| Inc | | | | | | | | | | of America | | |
| Vistra Corp | True | 1.46e+10 | 14322600 | 0.1 | 611097600 | 4.19 | 64.06 | 62.58 | 0.06 | United States | Utilities | 2.961587883e+10 |
| | | | | | | | | | | of America | | |
| Nordson Corp | True | 2620946892 | 62302528.56 | 2.38 | 96128469.14 | 3.67 | 59.63 | 66.51 | 0.14 | United States | Industrials | 1.215598581e+10 |
| | | | | | | | | | | of America | | |
| Evonik Industries AG | True | 1.8488e+10 | 182994224 | 0.99 | 633842592 | 3.43 | 93.39 | 86.54 | -0.02 | Germany | Basic Mate- | 8837690000 |
| | | | | | | | | | | | rials | |
| Verbund AG | True | 1.0346088e+10 | 176773259.6 | 1.71 | 299105404.1 | 2.89 | 86.9 | 70.24 | 0.18 | Austria | Utilities | 1.312522193e+10 |
| PNM Resources Inc | True | 2101984192 | 106175425.5 | 5.05 | 106175425.5 | 5.05 | 39.79 | 47.66 | 0.01 | United States | Utilities | 3089130651 |
| | | | | | | | | | | of America | | |
| WEC Energy Group | True | 8967810560 | 190225197.6 | 2.12 | 342911140.2 | 3.82 | 65.74 | 59.7 | 0.04 | United States | Utilities | 2.280160704e+10 |
| Inc | | | | | | | | | | of America | | |
| Weatherford Interna- | True | 4046886400 | 198281246.1 | 4.9 | 198281246.1 | 4.9 | 76.84 | 60.13 | 0.1 | United States | Energy | 8294170628 |
| tional PLC | | | | | | | | | | of America | | |
| Sumitomo Corp | True | 4.081965976e+10 | 396685453.5 | 0.97 | 1726426690 | 4.23 | 74.02 | 61.28 | 0.05 | Japan | Industrials | 2.85814615e+10 |
| Japan Pulp & Paper | True | 3303872585 | 31664314.86 | 0.96 | 155817238.9 | 4.72 | 0.0 | 0.0 | 0.05 | Japan | Basic Mate- | 531338909.3 |
| Co Ltd | | | | | | | | | | | rials | |
| Nexans SA | True | 836900000 | 193139782 | 2.31 | 772575866 | 9.23 | 82.31 | 84.22 | 0.05 | France | Industrials | 4579327899 |

| Company | Aligned | Total | Aligned | Aligned | Eligible | Eligible | Е | ESG | Pretax | Country | TRBC | Market |
|-----------------------|---------|-----------------|-------------|---------|-------------|----------|-------|-------|--------|---------------|-------------|-----------------|
| Name | Flag | Revenue | Revenue | Revenue | Revenue | Revenue | Score | Score | ROA | | Economic | Сар |
| | | | | Percent | | Percent | | | | | Sector | |
| | | | | | | | | | | | Name | |
| AMETEK Inc | True | 5747055232 | 142268352.3 | 2.48 | 142268352.3 | 2.48 | 66.97 | 58.54 | 0.12 | United States | Industrials | 3.545135402e+10 |
| | | | | | | | | | | of America | | |
| Pinnacle West Capital | True | 4040705344 | 60610580.16 | 1.5 | 60610580.16 | 1.5 | 87.48 | 68.74 | 0.03 | United States | Utilities | 8230126409 |
| Corp | | | | | | | | | | of America | | |
| Ingersoll Rand Inc | True | 5528190720 | 219828504 | 3.98 | 219828504 | 3.98 | 34.38 | 50.14 | 0.07 | United States | Industrials | 3.422759528e+10 |
| | | | | | | | | | | of America | | |
| Genting Bhd | True | 4753483927 | 35075957.9 | 0.74 | 230025840.7 | 4.84 | 81.51 | 69.31 | 0.03 | Malaysia | Consumer | 3440655916 |
| | | | | | | | | | | | Cyclicals | |
| Obayashi Corp | True | 1.428412309e+10 | 80133930.53 | 0.56 | 662754743.1 | 4.64 | 91.05 | 86.34 | 0.04 | Japan | Industrials | 8143920670 |
| Bureau Veritas SA | True | 5650600000 | 287152190.8 | 5.08 | 287152190.8 | 5.08 | 71.32 | 76.39 | 0.11 | France | Industrials | 1.190747426e+10 |
| Emera Inc | True | 5233026201 | 216715314.1 | 4.14 | 285822658.1 | 5.46 | 42.56 | 47.09 | 0.03 | Canada | Utilities | 8872494760 |
| HD Korea Shipbuild- | True | 1.282159666e+10 | 364902640.9 | 2.85 | 729805281.9 | 5.69 | 83.47 | 70.72 | -0.0 | Korea; Re- | Industrials | 7557202413 |
| ing & Offshore Engi- | | | | | | | | | | public (S. | | |
| neering Co Ltd | | | | | | | | | | Korea) | | |
| Arkema SA | True | 1.155e+10 | 96303900 | 0.83 | 288911700 | 2.5 | 92.27 | 77.48 | 0.04 | France | Basic Mate- | 6129249904 |
| | | | | | | | | | | | rials | |
| Anhui Conch Cement | True | 1.788565502e+10 | 212624666.8 | 1.19 | 1021288787 | 5.71 | 52.17 | 53.79 | 0.06 | China | Basic Mate- | 1.571812238e+10 |
| Co Ltd | | | | | | | | | | | rials | |
| BGrimm Power PCL | True | 1684545959 | 89375270.41 | 5.31 | 99359574.31 | 5.9 | 48.42 | 59.42 | 0.02 | Thailand | Utilities | 1451046102 |

| Company | Aligned | Total | Aligned | Aligned | Eligible | Eligible | Е | ESG | Pretax | Country | TRBC | Market |
|-----------------------|---------|-----------------|-------------|---------|-------------|----------|-------|-------|--------|----------|-------------|-----------------|
| Name | Flag | Revenue | Revenue | Revenue | Revenue | Revenue | Score | Score | ROA | | Economic | Сар |
| | | | | Percent | | Percent | | | | | Sector | |
| | | | | | | | | | | | Name | |
| Italmobiliare SpA | True | 483630000 | 16541596.89 | 3.42 | 33083193.78 | 6.84 | 72.99 | 74.33 | 0.05 | Italy | Consumer | 1228535647 |
| | | | | | | | | | | | Non- | |
| | | | | | | | | | | | Cyclicals | |
| Tenaga Nasional Bhd | True | 1.080244975e+10 | 131282171.8 | 1.22 | 677518845.6 | 6.27 | 41.46 | 50.38 | 0.02 | Malaysia | Utilities | 1.647070864e+10 |
| Grupo Argos SA | True | 3967476087 | 51846977.51 | 1.31 | 259222985.1 | 6.53 | 28.81 | 50.0 | 0.04 | Colombia | Basic Mate- | 3130890683 |
| | | | | | | | | | | | rials | |
| Saipem SpA | True | 9987000000 | 723298488 | 7.24 | 1018204611 | 10.2 | 92.3 | 88.56 | 0.03 | Italy | Energy | 4608941663 |
| Ratch Group PCL | True | 2017429809 | 88968654.57 | 4.41 | 133452981.9 | 6.62 | 51.71 | 59.4 | 0.03 | Thailand | Utilities | 1547854070 |
| JFE Holdings Inc | True | 3.242643263e+10 | 1075746902 | 3.32 | 1746779499 | 5.39 | 74.25 | 65.17 | 0.05 | Japan | Basic Mate- | 8488075365 |
| | | | | | | | | | | | rials | |
| Taiwan Cement Corp | True | 3481568410 | 59869050.39 | 1.72 | 114661974 | 3.29 | 88.49 | 70.72 | 0.03 | Taiwan | Basic Mate- | 7581974552 |
| | | | | | | | | | | | rials | |
| China National Build- | True | 3.168493135e+10 | 1311692788 | 4.14 | 1841591580 | 5.81 | 83.81 | 60.14 | 0.03 | China | Basic Mate- | 2562606607 |
| ing Material Co Ltd | | | | | | | | | | | rials | |
| Berjaya Corporation | True | 1765811554 | 208365.76 | 0.01 | 101511208.8 | 5.75 | 19.33 | 34.83 | 0.01 | Malaysia | Consumer | 385482697.3 |
| Bhd | | | | | | | | | | | Non- | |
| | | | | | | | | | | | Cyclicals | |

| Company | Aligned | Total | Aligned | Aligned | Eligible | Eligible | Е | ESG | Pretax | Country | TRBC | Market |
|----------------------|---------|-----------------|-------------|---------|-------------|----------|-------|-------|--------|-----------|-------------|----------------|
| Name | Flag | Revenue | Revenue | Revenue | Revenue | Revenue | Score | Score | ROA | | Economic | Сар |
| | | | | Percent | | Percent | | | | | Sector | |
| | | | | | | | | | | | Name | |
| Turkiye Sise ve Cam | True | 8532621225 | 220790106.8 | 2.59 | 511581838.2 | 6.0 | 83.49 | 76.35 | 0.08 | Turkey | Consumer | 4314629880 |
| Fabrikalari AS | | | | | | | | | | | Non- | |
| | | | | | | | | | | | Cyclicals | |
| Shimizu Corp | True | 1.101615982e+10 | 77267344.98 | 0.7 | 678220895.5 | 6.16 | 85.93 | 69.42 | 0.01 | Japan | Industrials | 3971863874 |
| Furukawa Electric Co | True | 6912179517 | 31173929.62 | 0.45 | 498540947.6 | 7.21 | 89.93 | 77.78 | 0.02 | Japan | Industrials | 1658687100 |
| Ltd | | | | | | | | | | | | |
| Wilmar International | True | 6.858400317e+10 | 5001762768 | 7.29 | 5001762768 | 7.29 | 76.26 | 67.74 | 0.03 | Singapore | Consumer | 1.36825011e+10 |
| Ltd | | | | | | | | | | | Non- | |
| | | | | | | | | | | | Cyclicals | |
| Sumitomo Heavy In- | True | 6539871390 | 184842925 | 2.83 | 332709417.1 | 5.09 | 94.83 | 72.05 | 0.04 | Japan | Industrials | 2952046739 |
| dustries Ltd | | | | | | | | | | | | |
| Genting Plantations | True | 677393704.7 | 64229793.69 | 9.48 | 64229793.69 | 9.48 | 68.39 | 59.02 | 0.04 | Malaysia | Consumer | 1024927826 |
| Bhd | | | | | | | | | | | Non- | |
| | | | | | | | | | | | Cyclicals | |
| Tohoku Electric | True | 1.563286931e+10 | 57997945.13 | 0.37 | 1183267511 | 7.57 | 37.27 | 37.27 | 0.06 | Japan | Utilities | 3943696326 |
| Power Co Inc | | | | | | | | | | | | |
| Companhia | True | 3876137439 | 39730408.75 | 1.02 | 236436631.5 | 6.1 | 77.05 | 77.81 | 0.05 | Brazil | Utilities | 4905489535 |
| Paranaense de Ener- | | | | | | | | | | | | |
| gia | | | | | | | | | | | | |

| Company | Aligned | Total | Aligned | Aligned | Eligible | Eligible | Е | ESG | Pretax | Country | TRBC | Market |
|-----------------------|---------|-----------------|-------------|---------|----------------|----------|-------|-------|--------|---------------|-------------|-----------------|
| Name | Flag | Revenue | Revenue | Revenue | Revenue | Revenue | Score | Score | ROA | | Economic | Сар |
| | | | | Percent | | Percent | | | | | Sector | |
| | | | | | | | | | | | Name | |
| UPM-Kymmene Oyj | True | 1.172e+10 | 121630160 | 1.04 | 653765040 | 5.58 | 85.79 | 87.72 | 0.02 | Finland | Basic Mate- | 1.674795594e+10 |
| | | | | | | | | | | | rials | |
| Kajima Corp | True | 1.544899191e+10 | 259743901.1 | 1.68 | 983065702.5 | 6.36 | 73.74 | 68.23 | 0.06 | Japan | Industrials | 8416295744 |
| Enel SpA | True | 1.35653e+11 | 4293824409 | 3.17 | 1.19305457e+10 | 8.79 | 94.81 | 90.82 | 0.04 | Italy | Utilities | 6.766116836e+10 |
| Sika AG | True | 1.060529849e+10 | 370230970.1 | 3.49 | 903444167.4 | 8.52 | 89.23 | 81.98 | 0.1 | Switzerland | Basic Mate- | 4.275221281e+10 |
| | | | | | | | | | | | rials | |
| Renesas Electronics | True | 1.069633928e+10 | 4192965 | 0.04 | 976147922.8 | 9.13 | 85.03 | 79.05 | 0.14 | Japan | Technology | 3.601641171e+10 |
| Corp | | | | | | | | | | | | |
| Vinci SA | True | 6.2265e+10 | 1295610120 | 2.08 | 5226275040 | 8.39 | 94.26 | 85.2 | 0.06 | France | Industrials | 6.073280257e+10 |
| Halliburton Co | True | 1.89655168e+10 | 541105159.8 | 2.85 | 1082210320 | 5.71 | 86.43 | 86.23 | 0.14 | United States | Energy | 2.699225725e+10 |
| | | | | | | | | | | of America | | |
| Itochu Enex Co Ltd | True | 6955339039 | 255469602.9 | 3.67 | 466585008.8 | 6.71 | 68.96 | 40.7 | 0.06 | Japan | Energy | 1015086349 |
| Vattenfall AB | True | 2.151495548e+10 | 232060293.2 | 1.08 | 1750740852 | 8.14 | 0.0 | 0.0 | 0.0 | Sweden | Utilities | 0 |
| Ayala Corp | True | 4428127038 | 308968136 | 6.98 | 435736556.8 | 9.84 | 83.76 | 72.59 | 0.04 | Philippines | Real Estate | 5917841380 |
| Hawaiian Electric In- | True | 3496510784 | 183395487.1 | 5.25 | 356623120.9 | 10.2 | 46.46 | 58.39 | 0.01 | United States | Utilities | 1054137881 |
| dustries Inc | | | | | | | | | | of America | | |
| Dai Nippon Printing | True | 9984981516 | 161437181.2 | 1.62 | 998488166.6 | 10.0 | 89.14 | 63.74 | 0.08 | Japan | Industrials | 8564328401 |
| Co Ltd | | | | | | | | | | | | |

| Company | Aligned | Total | Aligned | Aligned | Eligible | Eligible | Е | ESG | Pretax | Country | TRBC | Market |
|--------------------|---------|-----------------|-------------|---------|-----------------|----------|-------|-------|--------|---------------|-------------|-----------------|
| Name | Flag | Revenue | Revenue | Revenue | Revenue | Revenue | Score | Score | ROA | | Economic | Сар |
| | | | | Percent | | Percent | | | | | Sector | |
| | | | | | | | | | | | Name | |
| Helix Energy Solu- | True | 815824640 | 63595162.34 | 7.8 | 63595162.34 | 7.8 | 62.39 | 66.73 | 0.0 | United States | Energy | 1665297295 |
| tions Group Inc | | | | | | | | | | of America | | |
| Portland General | True | 2473356800 | 162620736.2 | 6.57 | 257246420.7 | 10.4 | 49.47 | 52.71 | 0.03 | United States | Utilities | 4062367405 |
| Electric Co | | | | | | | | | | of America | | |
| Avangrid Inc | True | 7403251200 | 819836037.9 | 11.07 | 906661368 | 12.25 | 82.2 | 81.19 | 0.02 | United States | Utilities | 1.260034026e+10 |
| | | | | | | | | | | of America | | |
| Holcim AG | True | 2.950476158e+10 | 799756067.2 | 2.71 | 2882438177 | 9.77 | 66.5 | 76.46 | 0.08 | Switzerland | Basic Mate- | 4.838893681e+10 |
| | | | | | | | | | | | rials | |
| L'Air Liquide So- | True | 2.9934e+10 | 313828056 | 1.05 | 3175428654 | 10.61 | 69.99 | 84.68 | 0.08 | France | Basic Mate- | 9.35579904e+10 |
| ciete Anonyme | | | | | | | | | | | rials | |
| pour l'Etude et | | | | | | | | | | | | |
| l'Exploitation des | | | | | | | | | | | | |
| Procedes Georges | | | | | | | | | | | | |
| Claude SA | | | | | | | | | | | | |
| AGC Inc | True | 1.450934838e+10 | 518389998.8 | 3.57 | 1660014548 | 11.44 | 86.09 | 78.63 | 0.04 | Japan | Consumer | 6544271038 |
| | | | | | | | | | | | Cyclicals | |
| BASF SE | True | 8.7327e+10 | 2955669642 | 3.38 | 1.034484375e+10 | 11.85 | 94.13 | 92.02 | 0.02 | Germany | Basic Mate- | 3.949066187e+10 |
| | | | | | | | | | | | rials | |

| Company | Aligned | Total | Aligned | Aligned | Eligible | Eligible | Е | ESG | Pretax | Country | TRBC | Market |
|----------------------|---------|-----------------|-------------|---------|-------------|----------|-------|-------|--------|---------------|-------------|-----------------|
| Name | Flag | Revenue | Revenue | Revenue | Revenue | Revenue | Score | Score | ROA | | Economic | Сар |
| | | | | Percent | | Percent | | | | | Sector | |
| | | | | | | | | | | | Name | |
| Toray Industries Inc | True | 1.655455911e+10 | 1074904078 | 6.49 | 1730100418 | 10.45 | 82.51 | 65.56 | 0.02 | Japan | Basic Mate- | 7182114311 |
| | | | | | | | | | | | rials | |
| A2A SpA | True | 2.3166e+10 | 112146606 | 0.48 | 1564214652 | 6.75 | 80.43 | 72.87 | 0.04 | Italy | Utilities | 5909768080 |
| DIC Corp | True | 7513121916 | 108061232.5 | 1.44 | 1063595104 | 14.16 | 78.14 | 72.83 | -0.02 | Japan | Basic Mate- | 1638732759 |
| | | | | | | | | | | | rials | |
| Daiwa House Industry | True | 3.297904537e+10 | 597745197.4 | 1.81 | 4280449236 | 12.98 | 85.7 | 74.18 | 0.07 | Japan | Consumer | 1.545348909e+10 |
| Co Ltd | | | | | | | | | | | Cyclicals | |
| Nov Inc | True | 6762252800 | 574034115.7 | 8.49 | 662734585.7 | 9.8 | 54.67 | 62.01 | 0.06 | United States | Energy | 6497300398 |
| | | | | | | | | | | of America | | |
| Wasco Bhd | True | 570518731.6 | 25609444.83 | 4.49 | 76828334.48 | 13.47 | 49.71 | 46.61 | 0.08 | Malaysia | Energy | 210165315.1 |
| Mitsui Mining and | True | 4704803941 | 11893744.36 | 0.25 | 629700369.1 | 13.38 | 72.95 | 53.26 | 0.06 | Japan | Basic Mate- | 1765892689 |
| Smelting Co Ltd | | | | | | | | | | | rials | |
| Ameren Corp | True | 7435020800 | 169652304.6 | 2.28 | 1049698542 | 14.12 | 33.25 | 41.18 | 0.03 | United States | Utilities | 1.760047509e+10 |
| | | | | | | | | | | of America | | |
| Evergy Inc | True | 5474743040 | 244660791.7 | 4.47 | 710462879 | 12.98 | 62.23 | 69.45 | 0.02 | United States | Utilities | 1.139665847e+10 |
| | | | | | | | | | | of America | | |
| Quanta Services Inc | True | 1.595385496e+10 | 1323994470 | 8.3 | 1765325959 | 11.07 | 82.21 | 75.24 | 0.07 | United States | Industrials | 3.48560929e+10 |
| | | | | | | | | | | of America | | |

| Company | Aligned | Total | Aligned | Aligned | Eligible | Eligible | Е | ESG | Pretax | Country | TRBC | Market |
|---------------------|---------|-----------------|-------------|---------|-------------|----------|-------|-------|--------|---------------|-------------|-----------------|
| Name | Flag | Revenue | Revenue | Revenue | Revenue | Revenue | Score | Score | ROA | | Economic | Сар |
| | | | | Percent | | Percent | | | | | Sector | |
| | | | | | | | | | | | Name | |
| AES Corp | True | 1.17893248e+10 | 1322302459 | 11.22 | 2492923465 | 21.15 | 60.21 | 74.67 | 0.0 | United States | Utilities | 1.17591247e+10 |
| | | | | | | | | | | of America | | |
| Afry AB | True | 2114470762 | 309363988.3 | 14.63 | 309363988.3 | 14.63 | 43.08 | 63.5 | 0.05 | Sweden | Industrials | 1895295048 |
| Hanwha Corp | True | 3.770941967e+10 | 5770823329 | 15.3 | 5770823329 | 15.3 | 45.58 | 61.52 | 0.01 | Korea; Re- | Financials | 1699389730 |
| | | | | | | | | | | public (S. | | |
| | | | | | | | | | | Korea) | | |
| Marshalls PLC | True | 813139939.8 | 37365406.51 | 4.6 | 126447326.3 | 15.55 | 69.31 | 64.04 | 0.02 | United King- | Basic Mate- | 994587749.3 |
| | | | | | | | | | | dom | rials | |
| Bouygues SA | True | 4.4322e+10 | 163282248 | 0.37 | 8555076762 | 19.3 | 69.76 | 74.39 | 0.03 | France | Industrials | 1.206252144e+10 |
| Capital Power Corp | True | 2019970182 | 327239209.5 | 16.2 | 327239209.5 | 16.2 | 41.07 | 58.6 | 0.09 | Canada | Utilities | 3475401807 |
| Porr AG | True | 5786011000 | 73493911.72 | 1.27 | 841100847 | 14.54 | 83.29 | 71.88 | 0.03 | Austria | Industrials | 535598142.1 |
| Alliant Energy Corp | True | 3929152000 | 633002103.8 | 16.11 | 650494688.5 | 16.56 | 79.48 | 64.61 | 0.03 | United States | Utilities | 1.225224703e+10 |
| | | | | | | | | | | of America | | |
| Iberdrola SA | True | 5.3949e+10 | 5851038795 | 10.85 | 8978192580 | 16.64 | 85.7 | 79.23 | 0.05 | Spain | Utilities | 7.548242112e+10 |
| 3M Co | True | 3.19835776e+10 | 831828886.2 | 2.6 | 4827473269 | 15.09 | 91.09 | 88.73 | -0.2 | United States | Consumer | 5.102172347e+10 |
| | | | | | | | | | | of America | Non- | |
| | | | | | | | | | | | Cyclicals | |
| Applus Services SA | True | 1898514000 | 236148562.4 | 12.44 | 236148562.4 | 12.44 | 84.3 | 80.49 | 0.03 | Spain | Industrials | 1651102665 |
| Enel Americas SA | True | 1.325652248e+10 | 863516618 | 6.51 | 2241518874 | 16.91 | 94.2 | 92.93 | 0.04 | Chile | Utilities | 9501841002 |

| Company | Aligned | Total | Aligned | Aligned | Eligible | Eligible | Е | ESG | Pretax | Country | TRBC | Market |
|----------------------|---------|-----------------|-------------|---------|-----------------|----------|-------|-------|--------|---------------|-------------|-----------------|
| Name | Flag | Revenue | Revenue | Revenue | Revenue | Revenue | Score | Score | ROA | | Economic | Сар |
| | | | | Percent | | Percent | | | | | Sector | |
| | | | | | | | | | | | Name | |
| Hitachi Ltd | True | 7.625048543e+10 | 595516291.2 | 0.78 | 1.181775773e+10 | 15.5 | 94.41 | 87.73 | 0.07 | Japan | Consumer | 1.022422973e+11 |
| | | | | | | | | | | | Non- | |
| | | | | | | | | | | | Cyclicals | |
| Mytilineos SA | True | 6306472000 | 672049188.7 | 10.66 | 1045884236 | 16.58 | 91.14 | 81.78 | 0.1 | Greece | Utilities | 5260428207 |
| First Resources Ltd | True | 1145039923 | 200274352.8 | 17.49 | 200274352.8 | 17.49 | 66.02 | 44.35 | 0.11 | Singapore | Consumer | 1507961225 |
| | | | | | | | | | | | Non- | |
| | | | | | | | | | | | Cyclicals | |
| Doosan Enerbility Co | True | 1.14277168e+10 | 604994755.3 | 5.29 | 1008324592 | 8.82 | 82.53 | 67.56 | 0.03 | Korea; Re- | Industrials | 9529682446 |
| Ltd | | | | | | | | | | public (S. | | |
| | | | | | | | | | | Korea) | | |
| Arcosa Inc | True | 2095672320 | 187254608.8 | 8.94 | 402989404.4 | 19.23 | 48.71 | 51.93 | 0.06 | United States | Industrials | 3698190620 |
| | | | | | | | | | | of America | | |
| China Railway Hi- | True | 3904004071 | 25020762.09 | 0.64 | 627435918.2 | 16.07 | 45.8 | 35.49 | 0.03 | China | Industrials | 2040225603 |
| tech Industry Corp | | | | | | | | | | | | |
| Ltd | | | | | | | | | | | | |
| Alfa Laval AB | True | 4680618767 | 60899530.77 | 1.3 | 582938303.1 | 12.45 | 86.18 | 77.72 | 0.11 | Sweden | Industrials | 1.630669542e+10 |
| Acbel Polytech Inc | True | 757542621.9 | 35296940.92 | 4.66 | 141187763.7 | 18.64 | 45.77 | 52.06 | 0.01 | Taiwan | Industrials | 961186796.8 |

| Company | Aligned | Total | Aligned | Aligned | Eligible | Eligible | Е | ESG | Pretax | Country | TRBC | Market |
|----------------------|---------|-----------------|-------------|---------|-------------|----------|-------|-------|--------|--------------|-------------|-----------------|
| Name | Flag | Revenue | Revenue | Revenue | Revenue | Revenue | Score | Score | ROA | | Economic | Сар |
| | | | | Percent | | Percent | | | | | Sector | |
| | | | | | | | | | | | Name | |
| OCI Holdings Co Ltd | True | 2051904666 | 229160816.9 | 11.17 | 384666463.9 | 18.75 | 61.31 | 56.67 | 0.08 | Korea; Re- | Basic Mate- | 1135441656 |
| | | | | | | | | | | public (S. | rials | |
| | | | | | | | | | | Korea) | | |
| Manila Electric Co | True | 7159128752 | 694800604.5 | 9.71 | 1389601209 | 19.41 | 56.58 | 68.68 | 0.08 | Philippines | Utilities | 6707651058 |
| Rexel SA | True | 1.87016e+10 | 16064674.4 | 0.09 | 3627455844 | 19.4 | 64.19 | 78.64 | 0.08 | France | Industrials | 7248379763 |
| Linde PLC | True | 3.11753216e+10 | 1793859180 | 5.75 | 5822116010 | 18.68 | 94.79 | 89.38 | 0.1 | United King- | Basic Mate- | 1.917177833e+11 |
| | | | | | | | | | | dom | rials | |
| Fuji Electric Co Ltd | True | 6761604040 | 328073028 | 4.85 | 1276847784 | 18.88 | 94.09 | 73.26 | 0.09 | Japan | Industrials | 8141171975 |
| YTL Power Interna- | True | 3855212575 | 14730767.25 | 0.38 | 775996463.2 | 20.13 | 60.69 | 47.35 | 0.04 | Malaysia | Utilities | 8420899868 |
| tional Bhd | | | | | | | | | | | | |
| China Resources | True | 1.236036656e+10 | 1701701106 | 13.77 | 2552551658 | 20.65 | 57.5 | 58.25 | 0.05 | Hong Kong | Utilities | 1.378689585e+10 |
| Power Holdings Co | | | | | | | | | | | | |
| Ltd | | | | | | | | | | | | |
| Ebara Corp | True | 4852451590 | 91080516.35 | 1.88 | 1082480048 | 22.31 | 82.63 | 79.86 | 0.1 | Japan | Industrials | 6513530883 |
| BayWa AG | True | 2.70618e+10 | 4326099348 | 15.99 | 5660706139 | 20.92 | 92.2 | 66.9 | -0.0 | Germany | Consumer | 794235726.4 |
| | | | | | | | | | | | Non- | |
| | | | | | | | | | | | Cyclicals | |
| SNC-Lavalin Group | True | 5206151425 | 33173596.88 | 0.64 | 726882862 | 13.96 | 77.13 | 75.35 | 0.03 | Canada | Industrials | 6947546849 |
| Inc | | | | | | | | | | | | |

| Company | Aligned | Total | Aligned | Aligned | Eligible | Eligible | Е | ESG | Pretax | Country | TRBC | Market |
|-----------------------|---------|----------------|-------------|---------|-------------|----------|-------|-------|--------|---------------|-------------|-----------------|
| Name | Flag | Revenue | Revenue | Revenue | Revenue | Revenue | Score | Score | ROA | | Economic | Сар |
| | | | | Percent | | Percent | | | | | Sector | |
| | | | | | | | | | | | Name | |
| Clean Energy Fuels | True | 392601241.6 | 87554395.49 | 22.3 | 87554395.49 | 22.3 | 57.86 | 65.09 | -0.09 | United States | Energy | 461780870.8 |
| Corp | | | | | | | | | | of America | | |
| Balfour Beatty PLC | True | 8623404827 | 299835785.8 | 3.48 | 2294024022 | 26.6 | 79.86 | 77.33 | 0.05 | United King- | Industrials | 2465751976 |
| | | | | | | | | | | dom | | |
| General Electric Co | True | 5.428864e+10 | 6811215640 | 12.55 | 9529882154 | 17.55 | 78.97 | 77.88 | 0.06 | United States | Consumer | 1.674756446e+11 |
| | | | | | | | | | | of America | Non- | |
| | | | | | | | | | | | Cyclicals | |
| Mota Engil SGPS SA | True | 3804258000 | 131239292.5 | 3.45 | 496246434.8 | 13.04 | 86.23 | 67.9 | 0.06 | Portugal | Industrials | 1079890934 |
| Delta Electronics | True | 3200825313 | 60130704.32 | 1.88 | 736193022.7 | 23.0 | 96.97 | 90.58 | 0.2 | Thailand | Industrials | 2.718605499e+10 |
| Thailand PCL | | | | | | | | | | | | |
| Duke Energy Corp | True | 2.68808192e+10 | 293162214.2 | 1.09 | 6218097978 | 23.13 | 74.77 | 69.76 | 0.03 | United States | Utilities | 7.205185919e+10 |
| | | | | | | | | | | of America | | |
| Worley Ltd | True | 6382868944 | 812781765.5 | 12.73 | 1415579909 | 22.18 | 70.67 | 81.56 | 0.01 | Australia | Industrials | 4742565305 |
| Zorlu Enerji Elektrik | True | 1940273853 | 239841131.5 | 12.36 | 458071492.8 | 23.61 | 80.29 | 69.25 | 0.04 | Turkey | Utilities | 779843455.9 |
| Uretim AS | | | | | | | | | | | | |
| Wacker Chemie AG | True | 8209300000 | 1944118217 | 23.68 | 2215148256 | 26.98 | 85.07 | 72.76 | 0.04 | Germany | Basic Mate- | 5315914462 |
| | | | | | | | | | | | rials | |
| Algonquin Power & | True | 2583760832 | 234814768.2 | 9.09 | 623510580.2 | 24.13 | 70.3 | 69.89 | -0.01 | Canada | Utilities | 3972266501 |
| Utilities Corp | | | | | | | | | | | | |
| Company | Aligned | Total | Aligned | Aligned | Eligible | Eligible | Е | ESG | Pretax | Country | TRBC | Market |
|-----------------------|---------|-----------------|-------------|---------|-------------|----------|-------|-------|--------|---------------|-------------|-----------------|
| Name | Flag | Revenue | Revenue | Revenue | Revenue | Revenue | Score | Score | ROA | | Economic | Сар |
| | | | | Percent | | Percent | | | | | Sector | |
| | | | | | | | | | | | Name | |
| NV5 Global Inc | True | 539877715.5 | 23681196.11 | 4.39 | 99832567.52 | 18.49 | 47.2 | 41.95 | 0.05 | United States | Industrials | 1374862076 |
| | | | | | | | | | | of America | | |
| Samsung SDI Co Ltd | True | 1.491286565e+10 | 94771261.21 | 0.64 | 3728216413 | 25.0 | 81.65 | 76.48 | 0.08 | Korea; Re- | Industrials | 1.784251573e+10 |
| | | | | | | | | | | public (S. | | |
| | | | | | | | | | | Korea) | | |
| NorthWestern Corp | True | 1380890893 | 61004997.86 | 4.42 | 330872505 | 23.96 | 0.0 | 0.0 | 0.0 | United States | Utilities | 0 |
| | | | | | | | | | | of America | | |
| Nextera Energy Inc | True | 1.95812864e+10 | 2778251658 | 14.19 | 5001569660 | 25.54 | 79.52 | 76.92 | 0.04 | United States | Utilities | 1.370451038e+11 |
| | | | | | | | | | | of America | | |
| Granite Construction | True | 3084693606 | 393002304.2 | 12.74 | 778181825.5 | 25.23 | 63.82 | 64.96 | 0.02 | United States | Industrials | 2465200733 |
| Inc | | | | | | | | | | of America | | |
| ALS Ltd | True | 1319424976 | 84540835.89 | 6.41 | 84540835.89 | 6.41 | 48.95 | 69.2 | 0.03 | Australia | Industrials | 4277853951 |
| American Electric | True | 1.83511488e+10 | 1211212523 | 6.6 | 4772473162 | 26.01 | 70.05 | 71.07 | 0.02 | United States | Utilities | 4.275193669e+10 |
| Power Company Inc | | | | | | | | | | of America | | |
| Public Service Enter- | True | 9157120000 | 324354347.5 | 3.54 | 1995510433 | 21.79 | 53.71 | 57.98 | 0.06 | United States | Utilities | 3.508634928e+10 |
| prise Group Inc | | | | | | | | | | of America | | |
| Aboitiz Power Corp | True | 3256109370 | 8006772.94 | 0.25 | 860381315.5 | 26.42 | 34.57 | 43.32 | 0.09 | Philippines | Utilities | 3882434828 |
| Xcel Energy Inc | True | 1.4305664e+10 | 2732253073 | 19.1 | 4022495215 | 28.12 | 82.93 | 81.12 | 0.03 | United States | Utilities | 2.698157467e+10 |
| | | | | | | | | | | of America | | |

| Company | Aligned | Total | Aligned | Aligned | Eligible | Eligible | Е | ESG | Pretax | Country | TRBC | Market |
|------------------------|---------|-----------------|-----------------|---------|-----------------|----------|-------|-------|--------|---------------|-------------|-----------------|
| Name | Flag | Revenue | Revenue | Revenue | Revenue | Revenue | Score | Score | ROA | | Economic | Сар |
| | | | | Percent | | Percent | | | | | Sector | |
| | | | | | | | | | | | Name | |
| Mersen SA | True | 1114800000 | 86831772 | 7.79 | 303362720.4 | 27.21 | 75.92 | 71.32 | 0.0 | France | Consumer | 835883500.2 |
| | | | | | | | | | | | Non- | |
| | | | | | | | | | | | Cyclicals | |
| SAP SE | True | 2.952e+10 | 2276995680 | 7.71 | 7745250960 | 26.24 | 76.65 | 89.1 | 0.08 | Germany | Technology | 2.283301023e+11 |
| Solvay SA | True | 7979000000 | 299451870 | 3.75 | 2312864751 | 28.99 | 83.23 | 82.45 | 0.01 | Belgium | Basic Mate- | 3386632070 |
| | | | | | | | | | | | rials | |
| Electricity Generating | True | 1609954434 | 78523917.58 | 4.88 | 454445058.1 | 28.23 | 49.24 | 63.37 | -0.03 | Thailand | Utilities | 1391603676 |
| PCL | | | | | | | | | | | | |
| Gulf Energy Develop- | True | 2541883477 | 199006599.3 | 7.83 | 731203284.9 | 28.77 | 59.71 | 52.77 | 0.05 | Thailand | Utilities | 1.207764805e+10 |
| ment PCL | | | | | | | | | | | | |
| Shenzhen Energy | True | 5083601012 | 654605135.1 | 12.88 | 1460167802 | 28.72 | 53.13 | 47.49 | 0.02 | China | Utilities | 4222146034 |
| Group Co Ltd | | | | | | | | | | | | |
| EDP Energias de Por- | True | 2.0650764e+10 | 1252923153 | 6.07 | 5979841731 | 28.96 | 87.36 | 82.83 | 0.03 | Portugal | Utilities | 1.486196183e+10 |
| tugal SA | | | | | | | | | | | | |
| WEG SA | True | 5286222519 | 573407129.1 | 10.85 | 1495731376 | 28.29 | 59.98 | 58.65 | 0.22 | Brazil | Industrials | 3.15310553e+10 |
| ENEOS Holdings Inc | True | 8.113216913e+10 | 1.915165418e+10 | 23.61 | 2.424229214e+10 | 29.88 | 69.55 | 63.48 | 0.04 | Japan | Energy | 1.447109835e+10 |
| AECOM | True | 1.341785121e+10 | 417375679.8 | 3.11 | 2313519324 | 17.24 | 61.49 | 63.73 | 0.02 | United States | Industrials | 1.052189464e+10 |
| | | | | | | | | | | of America | | |
| Prysmian SpA | True | 1.6067e+10 | 2635421809 | 16.4 | 4467059809 | 27.8 | 62.37 | 78.54 | 0.06 | Italy | Industrials | 1.708701681e+10 |

| Company | Aligned | Total | Aligned | Aligned | Eligible | Eligible | Е | ESG | Pretax | Country | TRBC | Market |
|-----------------------|---------|-----------------|-------------|---------|-------------|----------|-------|-------|--------|---------------|-------------|-----------------|
| Name | Flag | Revenue | Revenue | Revenue | Revenue | Revenue | Score | Score | ROA | | Economic | Сар |
| | | | | Percent | | Percent | | | | | Sector | |
| | | | | | | | | | | | Name | |
| Jacobs Solutions Inc | True | 1.522889214e+10 | 437282408.9 | 2.87 | 3595069339 | 23.61 | 76.06 | 78.14 | 0.06 | United States | Industrials | 1.602098113e+10 |
| | | | | | | | | | | of America | | |
| Dominion Energy Inc | True | 1.30236672e+10 | 368556758.1 | 2.83 | 3348020174 | 25.71 | 80.2 | 81.08 | 0.03 | United States | Utilities | 3.850501835e+10 |
| | | | | | | | | | | of America | | |
| Svenska Cellulosa | True | 1866860777 | 30851741.21 | 1.65 | 607084456.2 | 32.52 | 89.71 | 85.58 | 0.03 | Sweden | Basic Mate- | 9359574255 |
| Aktiebolaget SCA | | | | | | | | | | | rials | |
| Cascades Inc | True | 3079954535 | 39765293.01 | 1.29 | 1006627701 | 32.68 | 87.64 | 63.63 | -0.01 | Canada | Basic Mate- | 612807857.1 |
| | | | | | | | | | | | rials | |
| Rejlers AB (publ) | True | 315392993.7 | 107794735.5 | 34.18 | 107794735.5 | 34.18 | 27.91 | 38.36 | 0.07 | Sweden | Industrials | 276954743.5 |
| Ence Energia y Celu- | True | 1003374000 | 50586103.58 | 5.04 | 389303091.8 | 38.8 | 76.79 | 67.74 | -0.02 | Spain | Basic Mate- | 821377288.4 |
| losa SA | | | | | | | | | | | rials | |
| China Suntien Green | True | 2514491742 | 859664494.6 | 34.19 | 859664494.6 | 34.19 | 78.81 | 64.89 | 0.04 | China | Utilities | 3192595925 |
| Energy Corp Ltd | | | | | | | | | | | | |
| China Power Inter- | True | 5918796343 | 1290339034 | 21.8 | 2046465267 | 34.58 | 59.94 | 52.93 | 0.02 | Hong Kong | Utilities | 5990208955 |
| national Development | | | | | | | | | | | | |
| Ltd | | | | | | | | | | | | |
| Delta Electronics Inc | True | 1.174817108e+10 | 195066632.6 | 1.66 | 4162764702 | 35.43 | 66.98 | 68.01 | 0.11 | Taiwan | Industrials | 3.033792683e+10 |
| ALLETE Inc | True | 1467662080 | 252026932.4 | 17.17 | 361957757.5 | 24.66 | 53.0 | 59.36 | 0.03 | United States | Utilities | 3366692734 |
| | | | | | | | | | | of America | | |

| Company | Aligned | Total | Aligned | Aligned | Eligible | Eligible | Е | ESG | Pretax | Country | TRBC | Market |
|-----------------------|---------|-----------------|-----------------|---------|-----------------|----------|-------|-------|--------|---------------|-------------|-----------------|
| Name | Flag | Revenue | Revenue | Revenue | Revenue | Revenue | Score | Score | ROA | | Economic | Сар |
| | | | | Percent | | Percent | | | | | Sector | |
| | | | | | | | | | | | Name | |
| Eiffage SA | True | 2.0867e+10 | 2216993548 | 10.62 | 5733208250 | 27.48 | 95.55 | 81.09 | 0.06 | France | Industrials | 8934250131 |
| Fugro NV | True | 1766009000 | 27120600.21 | 1.54 | 159949201.1 | 9.06 | 50.03 | 68.63 | 0.1 | Netherlands | Energy | 2568375552 |
| ICF International Inc | True | 1663198362 | 602729780.7 | 36.24 | 687449778.8 | 41.33 | 89.55 | 79.03 | 0.05 | United States | Industrials | 2239909664 |
| | | | | | | | | | | of America | | |
| Towngas Smart En- | True | 2401718490 | 99695334.5 | 4.15 | 897255608.8 | 37.36 | 46.15 | 65.88 | 0.04 | Hong Kong | Utilities | 1136213366 |
| ergy Co Ltd | | | | | | | | | | | | |
| Neste Oyj | True | 2.5957e+10 | 8726042561 | 33.62 | 8726042561 | 33.62 | 71.73 | 77.77 | 0.1 | Finland | Energy | 1.30656605e+10 |
| Drax Group PLC | True | 9222713942 | 423995828.1 | 4.6 | 3520558925 | 38.17 | 58.27 | 58.44 | 0.13 | United King- | Utilities | 2446274309 |
| | | | | | | | | | | dom | | |
| CEZ as | True | 1.164387351e+10 | 183600597.5 | 1.58 | 4551811390 | 39.09 | 82.59 | 71.92 | 0.08 | Czech Re- | Utilities | 1.912807045e+10 |
| | | | | | | | | | | public | | |
| Miura Co Ltd | True | 1066307630 | 9972108.95 | 0.94 | 352311239.8 | 33.04 | 42.19 | 32.61 | 0.11 | Japan | Industrials | 2558896166 |
| REN Redes Energeti- | True | 812871000 | 155269741.2 | 19.1 | 253606810.4 | 31.2 | 55.05 | 70.9 | 0.04 | Portugal | Utilities | 1556205843 |
| cas Nacionais SGPS S | | | | | | | | | | | | |
| А | | | | | | | | | | | | |
| Iren SpA | True | 7670595000 | 16484108.66 | 0.21 | 2825693786 | 36.84 | 76.03 | 59.77 | 0.03 | Italy | Utilities | 2580845738 |
| Endesa SA | True | 3.2896e+10 | 2747605504 | 8.35 | 1.40046496e+10 | 42.57 | 77.24 | 85.22 | 0.02 | Spain | Utilities | 1.899049587e+10 |
| China Energy Engi- | True | 4.956169435e+10 | 1.020088705e+10 | 20.58 | 2.135221872e+10 | 43.08 | 62.86 | 55.74 | 0.02 | China | Industrials | 9650236204 |
| neering Corp Ltd | | | | | | | | | | | | |

| Company | Aligned | Total | Aligned | Aligned | Eligible | Eligible | Е | ESG | Pretax | Country | TRBC | Market |
|----------------------|---------|-----------------|-------------|---------|-------------|----------|-------|-------|--------|---------------|-------------|-------------|
| Name | Flag | Revenue | Revenue | Revenue | Revenue | Revenue | Score | Score | ROA | | Economic | Сар |
| | | | | Percent | | Percent | | | | | Sector | |
| | | | | | | | | | | | Name | |
| Hanwha Solutions | True | 9730494796 | 4205412815 | 43.22 | 4206220446 | 43.23 | 73.15 | 66.53 | -0.0 | Korea; Re- | Energy | 3182420725 |
| Corp | | | | | | | | | | public (S. | | |
| | | | | | | | | | | Korea) | | |
| Oji Holdings Corp | True | 1.092107516e+10 | 89137815.44 | 0.82 | 4758661921 | 43.57 | 82.59 | 75.63 | 0.03 | Japan | Basic Mate- | 3579297115 |
| | | | | | | | | | | | rials | |
| Hera SpA | True | 2.0082e+10 | 4311223842 | 21.47 | 5546347170 | 27.62 | 93.95 | 81.38 | 0.04 | Italy | Utilities | 4979843529 |
| Arcadis NV | True | 3018677000 | 1343489367 | 44.51 | 1343489367 | 44.51 | 80.6 | 80.89 | 0.06 | Netherlands | Industrials | 5476839036 |
| Xiamen Tungsten Co | True | 6518194576 | 85388348.94 | 1.31 | 3950638623 | 60.61 | 83.75 | 82.11 | 0.07 | China | Basic Mate- | 3003633534 |
| Ltd | | | | | | | | | | | rials | |
| Mega First Corpora- | True | 284489760 | 9866958.35 | 3.47 | 126765223.2 | 44.56 | 52.82 | 49.64 | 0.11 | Malaysia | Energy | 983635697.5 |
| tion Bhd | | | | | | | | | | | | |
| Covanta Holding | True | 1558995200 | 192690247.7 | 12.36 | 721906758.3 | 46.31 | 0.0 | 0.0 | 0.0 | United States | Industrials | 0 |
| Corp | | | | | | | | | | of America | | |
| Acciona SA | True | 1.1195e+10 | 3177924650 | 28.39 | 5691761900 | 50.84 | 91.01 | 85.86 | 0.03 | Spain | Industrials | 5984940155 |
| ERG SpA | True | 749049000 | 385487581.2 | 51.46 | 385487581.2 | 51.46 | 63.05 | 71.56 | 0.06 | Italy | Utilities | 3550853691 |
| Mercer International | True | 2131307533 | 16530421.22 | 0.78 | 1194141772 | 56.03 | 59.04 | 63.95 | -0.1 | Canada | Basic Mate- | 515603079.6 |
| Inc | | | | | | | | | | | rials | |
| Mercury Nz Ltd | True | 1302741517 | 1489033.55 | 0.11 | 679646763.1 | 52.17 | 39.23 | 49.89 | 0.02 | New Zealand | Utilities | 5242978623 |

| Company | Aligned | Total | Aligned | Aligned | Eligible | Eligible | Е | ESG | Pretax | Country | TRBC | Market |
|-----------------------|---------|-----------------|-------------|---------|-------------|----------|-------|-------|--------|---------------|-------------|-----------------|
| Name | Flag | Revenue | Revenue | Revenue | Revenue | Revenue | Score | Score | ROA | | Economic | Сар |
| | | | | Percent | | Percent | | | | | Sector | |
| | | | | | | | | | | | Name | |
| Atlantica Sustainable | True | 1029735898 | 486317491.3 | 47.23 | 635739378.2 | 61.74 | 53.93 | 57.92 | 0.0 | United King- | Utilities | 2350986781 |
| Infrastructure PLC | | | | | | | | | | dom | | |
| Brazilian Electric | True | 6023262072 | 47704235.61 | 0.79 | 3422447626 | 56.82 | 79.99 | 71.19 | 0.01 | Brazil | Utilities | 1.525350654e+10 |
| Power Co | | | | | | | | | | | | |
| Fomento de Construc- | True | 7705687000 | 109513223.6 | 1.42 | 2609214969 | 33.86 | 70.84 | 62.41 | 0.06 | Spain | Industrials | 6048928672 |
| ciones y Contratas SA | | | | | | | | | | | | |
| Absolute Clean En- | True | 186745382.8 | 541457.15 | 0.29 | 100515341.5 | 53.82 | 31.63 | 38.97 | 0.05 | Thailand | Utilities | 342874534.6 |
| ergy PCL | | | | | | | | | | | | |
| Webuild SpA | True | 7656006000 | 1448853199 | 18.92 | 4853655156 | 63.4 | 88.49 | 71.22 | 0.02 | Italy | Industrials | 2191134160 |
| Oersted A/S | True | 1.539022051e+10 | 8489261022 | 55.16 | 9576410809 | 62.22 | 81.69 | 66.12 | -0.06 | Denmark | Utilities | 2.198961419e+10 |
| Sweco AB (publ) | True | 2181266204 | 1365210892 | 62.59 | 1365210892 | 62.59 | 55.77 | 55.41 | 0.09 | Sweden | Industrials | 4765280972 |
| China High Speed | True | 2855771719 | 1798347990 | 62.97 | 1849677631 | 64.77 | 72.52 | 59.19 | 0.02 | Hong Kong | Energy | 205231832.6 |
| Transmission Equip- | | | | | | | | | | | | |
| ment Group Co | | | | | | | | | | | | |
| Ltd | | | | | | | | | | | | |
| Clearway Energy Inc | True | 1111936000 | 650342456.1 | 58.49 | 650342456.1 | 58.49 | 47.86 | 35.65 | -0.0 | United States | Utilities | 4457070642 |
| | | | | | | | | | | of America | | |
| DOWA Holdings Co | True | 6178972772 | 1176655606 | 19.04 | 4215733932 | 68.23 | 77.66 | 60.99 | 0.07 | Japan | Basic Mate- | 2014750293 |
| Ltd | | | | | | | | | | | rials | |

| Company | Aligned | Total | Aligned | Aligned | Eligible | Eligible | Е | ESG | Pretax | Country | TRBC | Market |
|-----------------------|---------|-----------------|-----------------|---------|-----------------|----------|-------|-------|--------|---------------|-------------|-----------------|
| Name | Flag | Revenue | Revenue | Revenue | Revenue | Revenue | Score | Score | ROA | | Economic | Сар |
| | | | | Percent | | Percent | | | | | Sector | |
| | | | | | | | | | | | Name | |
| Stantec Inc | True | 3073885659 | 2183454757 | 71.03 | 2183454757 | 71.03 | 92.34 | 85.08 | 0.07 | Canada | Industrials | 8998016540 |
| Schneider Electric SE | True | 3.4176e+10 | 3893705856 | 11.39 | 2.460672e+10 | 72.0 | 68.63 | 74.65 | 0.09 | France | Industrials | 1.29361567e+11 |
| Legrand SA | True | 8339400000 | 959297860.8 | 11.5 | 5755787165 | 69.02 | 86.08 | 86.35 | 0.11 | France | Industrials | 2.479661421e+10 |
| Tongwei Co Ltd | True | 1.929472841e+10 | 1.487874392e+10 | 77.11 | 1.487874392e+10 | 77.11 | 67.44 | 53.31 | 0.14 | China | Energy | 9406724281 |
| Ranhill Utilities Bhd | True | 366612052.4 | 24925672.15 | 6.8 | 314857653.8 | 85.88 | 19.85 | 43.45 | 0.05 | Malaysia | Utilities | 411568518.5 |
| Green Plains Inc | True | 3422566106 | 2588548352 | 75.63 | 2774557975 | 81.07 | 58.02 | 64.88 | -0.04 | United States | Energy | 902751757.8 |
| | | | | | | | | | | of America | | |
| Terna Energy SA | True | 298045000 | 152424981.7 | 51.14 | 237371383.3 | 79.64 | 57.5 | 58.55 | 0.04 | Greece | Utilities | 2274456790 |
| Weyerhaeuser Co | True | 9515929600 | 323303708.2 | 3.4 | 8244211252 | 86.64 | 80.82 | 83.23 | 0.05 | United States | Real Estate | 1.856534288e+10 |
| | | | | | | | | | | of America | | |
| Montrose Environ- | True | 508702310.4 | 215231438.8 | 42.31 | 272774826.8 | 53.62 | 18.14 | 56.17 | -0.04 | United States | Industrials | 1164046980 |
| mental Group Inc | | | | | | | | | | of America | | |
| China Everbright En- | True | 4465453150 | 284574398.4 | 6.37 | 1776821670 | 39.79 | 68.55 | 58.59 | 0.04 | Hong Kong | Utilities | 2859152420 |
| vironment Group Ltd | | | | | | | | | | | | |
| Veolia Environnement | True | 4.28853e+10 | 783643086.9 | 1.83 | 2.349278177e+10 | 54.78 | 78.97 | 75.8 | 0.03 | France | Utilities | 2.084581001e+10 |
| SA | | | | | | | | | | | | |
| Severn Trent PLC | True | 2306494766 | 26038019.42 | 1.13 | 852046844.7 | 36.94 | 69.29 | 73.18 | 0.02 | United King- | Utilities | 9262894369 |
| | | | | | | | | | | dom | | |

| Company | Aligned | Total | Aligned | Aligned | Eligible | Eligible | Е | ESG | Pretax | Country | TRBC | Market |
|------------------------|---------|-------------|-------------|---------|-------------|----------|-------|-------|--------|---------------|-------------|-----------------|
| Name | Flag | Revenue | Revenue | Revenue | Revenue | Revenue | Score | Score | ROA | | Economic | Сар |
| | | | | Percent | | Percent | | | | | Sector | |
| | | | | | | | | | | | Name | |
| ENGIE Brasil Energia | True | 2104716555 | 192238496 | 9.13 | 1652006757 | 78.49 | 86.48 | 85.57 | 0.11 | Brazil | Utilities | 6370128701 |
| SA | | | | | | | | | | | | |
| Holmen AB | True | 2150382290 | 48977107.04 | 2.28 | 1928940223 | 89.7 | 61.01 | 59.97 | 0.06 | Sweden | Basic Mate- | 5926340373 |
| | | | | | | | | | | | rials | |
| Ormat Technologies | True | 685998169.6 | 67753295.22 | 9.88 | 675988770.3 | 98.54 | 55.92 | 63.34 | 0.03 | United States | Utilities | 4013601971 |
| Inc | | | | | | | | | | of America | | |
| United Utilities Group | True | 2210830958 | 18060278.1 | 0.82 | 2162681271 | 97.82 | 80.89 | 66.8 | 0.01 | United King- | Utilities | 8414323746 |
| PLC | | | | | | | | | | dom | | |
| Embassy Office Parks | True | 352754266.6 | 17919563.99 | 5.08 | 345503049.9 | 97.94 | 77.19 | 71.54 | 0.02 | India | Real Estate | 3767319892 |
| REIT | | | | | | | | | | | | |
| Brookfield Renewable | True | 4265536000 | 1756232075 | 41.17 | 4265536000 | 100.0 | 79.19 | 67.51 | 0.01 | Bermuda | Utilities | 6941018972 |
| Partners LP | | | | | | | | | | | | |
| Sungrow Power Sup- | True | 5453860156 | 4008532676 | 73.5 | 5404900853 | 99.1 | 83.17 | 66.17 | 0.16 | China | Energy | 1.53664726e+10 |
| ply Co Ltd | | | | | | | | | | | | |
| China National Nu- | True | 9657435688 | 885915205.4 | 9.17 | 9609756928 | 99.51 | 30.66 | 43.59 | 0.05 | China | Utilities | 2.753747382e+10 |
| clear Power Co Ltd | | | | | | | | | | | | |
| Xinyi Solar Holdings | True | 2458076946 | 2447674364 | 99.58 | 2447674364 | 99.58 | 75.38 | 64.14 | 0.1 | China | Energy | 3651022588 |
| Ltd | | | | | | | | | | | | |
| Scatec ASA | True | 286333772.3 | 190920201 | 66.68 | 285734762 | 99.79 | 43.89 | 53.0 | 0.03 | Norway | Utilities | 1155933681 |

| Company | Aligned | Total | Aligned | Aligned | Eligible | Eligible | Е | ESG | Pretax | Country | TRBC | Market |
|---------------------|---------|----------------|-------------|---------|-------------|----------|-------|-------|--------|---------------|-------------|-----------------|
| Name | Flag | Revenue | Revenue | Revenue | Revenue | Revenue | Score | Score | ROA | | Economic | Сар |
| | | | | Percent | | Percent | | | | | Sector | |
| | | | | | | | | | | | Name | |
| Nordex SE | True | 5693561000 | 5681877813 | 99.79 | 5681877813 | 99.79 | 64.14 | 76.14 | -0.06 | Germany | Industrials | 3010447836 |
| First Solar Inc | True | 2447491674 | 2447491674 | 100.0 | 2447491674 | 100.0 | 69.32 | 72.96 | 0.1 | United States | Energy | 2.229835771e+10 |
| | | | | | | | | | | of America | | |
| EDP Renovaveis SA | True | 2371486000 | 2371486000 | 100.0 | 2371486000 | 100.0 | 84.31 | 76.0 | 0.02 | Spain | Utilities | 1.384295468e+10 |
| Innergex Renewable | True | 644971858.6 | 395542536.7 | 61.33 | 644971858.6 | 100.0 | 48.76 | 54.53 | -0.02 | Canada | Utilities | 1435416602 |
| Energy Inc | | | | | | | | | | | | |
| Array Technologies | True | 1530122982 | 1530122982 | 100.0 | 1530122982 | 100.0 | 15.13 | 38.24 | 0.1 | United States | Energy | 1387361885 |
| Inc | | | | | | | | | | of America | | |
| Waste Management | True | 1.84058112e+10 | 368613180.9 | 2.0 | 2040762723 | 11.09 | 66.56 | 84.29 | 0.09 | United States | Industrials | 7.820926479e+10 |
| Inc | | | | | | | | | | of America | | |
| Darling Ingredients | True | 2924940587 | 265414958.8 | 9.07 | 2924940587 | 100.0 | 67.05 | 69.5 | 0.07 | United States | Consumer | 5448432395 |
| Inc | | | | | | | | | | of America | Non- | |
| | | | | | | | | | | | Cyclicals | |
| AES Brasil Energia | True | 502917378.1 | 129400641.4 | 25.73 | 502917378.1 | 100.0 | 69.78 | 64.47 | 0.02 | Brazil | Utilities | 1163415525 |
| SA | | | | | | | | | | | | |
| Balco Group AB | True | 119725353.1 | 119725353.1 | 100.0 | 119725353.1 | 100.0 | 68.84 | 72.66 | 0.04 | Sweden | Industrials | 86139438.14 |
| Polaris Renewable | True | 58493440 | 2056427.52 | 3.52 | 57670233.6 | 98.59 | 47.41 | 51.66 | 0.01 | Canada | Utilities | 186548755.7 |
| Energy Inc | | | | | | | | | | | | |

| Company | Aligned | Total | Aligned | Aligned | Eligible | Eligible | Е | ESG | Pretax | Country | TRBC | Market |
|------------------------|---------|-----------------|-------------|---------|-------------|----------|-------|-------|--------|---------------|-------------|-----------------|
| Name | Flag | Revenue | Revenue | Revenue | Revenue | Revenue | Score | Score | ROA | | Economic | Сар |
| | | | | Percent | | Percent | | | | | Sector | |
| | | | | | | | | | | | Name | |
| Hebei Construction | True | 5404101018 | 524123035.1 | 9.7 | 5419825903 | 100.29 | 41.58 | 41.08 | 0.0 | China | Industrials | 108442852 |
| Group Corp Ltd | | | | | | | | | | | | |
| Japan Petroleum Ex- | True | 1850733807 | 2777951.44 | 0.15 | 2777951.44 | 0.15 | 71.97 | 74.58 | 0.11 | Japan | Energy | 1973712668 |
| ploration Co Ltd | | | | | | | | | | | | |
| Gail (India) Ltd | True | 1.104600625e+10 | 4948610.8 | 0.04 | 4948610.8 | 0.04 | 62.95 | 53.48 | 0.11 | India | Utilities | 1.667397444e+10 |
| QL Resources Bhd | True | 1125865646 | 4744397.83 | 0.42 | 4744397.83 | 0.42 | 48.55 | 57.9 | 0.12 | Malaysia | Consumer | 3123421672 |
| | | | | | | | | | | | Non- | |
| | | | | | | | | | | | Cyclicals | |
| Oil India Ltd | True | 3084551400 | 10660209.64 | 0.35 | 10660209.64 | 0.35 | 54.63 | 52.91 | 0.11 | India | Energy | 9228685948 |
| Hill International Inc | True | 268378108.4 | 13418905.42 | 5.0 | 26837810.84 | 10.0 | 2.69 | 12.47 | 0.0 | United States | Industrials | 0 |
| | | | | | | | | | | of America | | |
| Reunert Ltd | True | 625875157.9 | 2974158.75 | 0.48 | 36929763.69 | 5.9 | 35.68 | 53.84 | 0.11 | South Africa | Industrials | 681615403.3 |
| Hindustan Zinc Ltd | True | 3505389887 | 19766893.58 | 0.56 | 19766893.58 | 0.56 | 70.45 | 76.9 | 0.3 | India | Basic Mate- | 3.081366527e+10 |
| | | | | | | | | | | | rials | |
| Ferroglobe PLC | True | 2427492710 | 86564390.05 | 3.57 | 90191064.16 | 3.72 | 49.61 | 65.19 | 0.08 | United King- | Basic Mate- | 990602658.8 |
| | | | | | | | | | | dom | rials | |
| Origin Energy Ltd | True | 9520646497 | 52144580.87 | 0.55 | 75184545.39 | 0.79 | 47.83 | 61.09 | 0.07 | Australia | Utilities | 1.141831694e+10 |
| Esken Ltd | True | 125152137.7 | 47634906.05 | 38.06 | 47634906.05 | 38.06 | 64.24 | 66.95 | 0.0 | United King- | Industrials | 0 |
| | | | | | | | | | | dom | | |

| Company | Aligned | Total | Aligned | Aligned | Eligible | Eligible | Е | ESG | Pretax | Country | TRBC | Market |
|--------------------|---------|-----------------|-------------|---------|-------------|----------|-------|-------|--------|---------------|-------------|-----------------|
| Name | Flag | Revenue | Revenue | Revenue | Revenue | Revenue | Score | Score | ROA | | Economic | Сар |
| | | | | Percent | | Percent | | | | | Sector | |
| | | | | | | | | | | | Name | |
| BCPG PCL | True | 145929161.4 | 114114707.1 | 78.2 | 145929015.5 | 100.0 | 50.18 | 58.56 | 0.02 | Thailand | Utilities | 512674610.6 |
| Lamprell Ltd | True | 342018845.3 | 124332058.7 | 36.35 | 124332058.7 | 36.35 | 45.62 | 47.62 | 0.0 | United Arab | Energy | 0 |
| | | | | | | | | | | Emirates | | |
| Balrampur Chini | True | 577011322.6 | 103301183.1 | 17.9 | 121703805.2 | 21.09 | 66.46 | 54.97 | 0.13 | India | Consumer | 974344571.7 |
| Mills Ltd | | | | | | | | | | | Non- | |
| | | | | | | | | | | | Cyclicals | |
| Koninklijke Vopak | True | 1367000000 | 120599474 | 8.82 | 120599474 | 8.82 | 75.23 | 60.68 | 0.08 | Netherlands | Energy | 4976057651 |
| NV | | | | | | | | | | | | |
| JSW Energy Ltd | True | 972453974.8 | 13832185.34 | 1.42 | 235861904.4 | 24.25 | 49.81 | 46.24 | 0.04 | India | Utilities | 1.397871948e+10 |
| Magellan Midstream | True | 2990453760 | 172396668.8 | 5.76 | 172396668.8 | 5.76 | 46.64 | 45.65 | 0.0 | United States | Energy | 0 |
| Partners LP | | | | | | | | | | of America | | |
| Torrent Power Ltd | True | 1697638652 | 155228683.1 | 9.14 | 155228683.1 | 9.14 | 39.28 | 43.89 | 0.08 | India | Utilities | 8216074045 |
| Solaria Energia y | True | 139281000 | 139281000 | 100.0 | 139281000 | 100.0 | 63.08 | 57.19 | 0.09 | Spain | Utilities | 1428305371 |
| Medio Ambiente SA | | | | | | | | | | | | |
| Tata Steel Ltd | True | 2.904796221e+10 | 204555749.9 | 0.7 | 204555749.9 | 0.7 | 81.2 | 76.26 | -0.0 | India | Basic Mate- | 2.319859585e+10 |
| | | | | | | | | | | | rials | |
| Borregaard ASA | True | 656316684.5 | 11967278.43 | 1.82 | 224994547.9 | 34.28 | 42.56 | 46.05 | 0.13 | Norway | Basic Mate- | 1658536526 |
| | | | | | | | | | | | rials | |

| Company | Aligned | Total | Aligned | Aligned | Eligible | Eligible | Е | ESG | Pretax | Country | TRBC | Market |
|---------------------|---------|-----------------|-------------|---------|-------------|----------|-------|-------|--------|--------------|-------------|-----------------|
| Name | Flag | Revenue | Revenue | Revenue | Revenue | Revenue | Score | Score | ROA | | Economic | Сар |
| | | | | Percent | | Percent | | | | | Sector | |
| | | | | | | | | | | | Name | |
| Ricardo PLC | True | 441607095.6 | 78053612.53 | 17.67 | 185307611 | 41.96 | 48.81 | 53.12 | -0.02 | United King- | Industrials | 362049705.5 |
| | | | | | | | | | | dom | | |
| Ibiden Co Ltd | True | 2979849314 | 112265822.9 | 3.77 | 224531645.8 | 7.54 | 75.67 | 62.08 | 0.05 | Japan | Technology | 5486903178 |
| Sumitomo Bakelite | True | 1954539516 | 87696279 | 4.49 | 185587436.1 | 9.5 | 66.48 | 49.14 | 0.08 | Japan | Basic Mate- | 2509530042 |
| Co Ltd | | | | | | | | | | | rials | |
| Tech Mahindra Ltd | True | 5315952341 | 11450561.34 | 0.22 | 267636936.6 | 5.03 | 53.31 | 67.22 | 0.07 | India | Technology | 1.583074975e+10 |
| Sharp Corp | True | 1.853844859e+10 | 354937136.6 | 1.91 | 356698289.2 | 1.92 | 87.12 | 59.67 | -0.08 | Japan | Technology | 3491442486 |
| SSE PLC | True | 1.021703713e+10 | 262128304.5 | 2.57 | 425968711.9 | 4.17 | 75.19 | 74.65 | 0.09 | United King- | Utilities | 2.378024621e+10 |
| | | | | | | | | | | dom | | |
| TransAlta Renew- | True | 386201195.7 | 160115539.9 | 41.46 | 386201195.7 | 100.0 | 37.83 | 39.09 | 0.0 | Canada | Utilities | 0 |
| ables Inc | | | | | | | | | | | | |
| Renantis SpA | True | 568417000 | 284306836.1 | 50.02 | 382432094.4 | 67.28 | 73.79 | 72.53 | 0.0 | Italy | Utilities | 0 |
| National Grid PLC | True | 2.16727188e+10 | 438179028.6 | 2.02 | 438179028.6 | 2.02 | 58.99 | 70.87 | 0.03 | United King- | Utilities | 5.347759949e+10 |
| | | | | | | | | | | dom | | |
| Sao Martinho SA | True | 1090822436 | 378134688.2 | 34.67 | 421531968 | 38.64 | 53.43 | 48.43 | 0.09 | Brazil | Consumer | 1912097532 |
| | | | | | | | | | | | Non- | |
| | | | | | | | | | | | Cyclicals | |
| Meridian Energy Ltd | True | 2248241302 | 124258048.5 | 5.53 | 1135409070 | 50.5 | 67.43 | 58.7 | 0.01 | New Zealand | Utilities | 9659225280 |
| Rohm Co Ltd | True | 3358598266 | 93150722.9 | 2.77 | 582380939.3 | 17.34 | 81.75 | 73.96 | 0.06 | Japan | Technology | 5299527038 |

| Company | Aligned | Total | Aligned | Aligned | Eligible | Eligible | Е | ESG | Pretax | Country | TRBC | Market |
|---------------------|---------|-----------------|-------------|---------|-------------|----------|-------|-------|--------|---------------|-------------|-----------------|
| Name | Flag | Revenue | Revenue | Revenue | Revenue | Revenue | Score | Score | ROA | | Economic | Сар |
| | | | | Percent | | Percent | | | | | Sector | |
| | | | | | | | | | | | Name | |
| Adani Green Energy | True | 611180920.2 | 450437893.5 | 73.7 | 450437893.5 | 73.7 | 68.28 | 57.94 | 0.02 | India | Utilities | 3.076583326e+10 |
| Ltd | | | | | | | | | | | | |
| Osaka Gas Co Ltd | True | 1.181961779e+10 | 330902019.6 | 2.8 | 496353029.4 | 4.2 | 70.73 | 54.1 | 0.07 | Japan | Utilities | 8001195518 |
| TerraForm Power Inc | True | 840069851.1 | 698859149.6 | 83.19 | 698859149.6 | 83.19 | 30.6 | 28.18 | 0.0 | United States | Utilities | 0 |
| | | | | | | | | | | of America | | |
| Toho Gas Co Ltd | True | 3827997072 | 528929667.4 | 13.82 | 528929667.4 | 13.82 | 72.38 | 48.45 | 0.06 | Japan | Utilities | 2313604007 |
| Cosmo Energy Hold- | True | 1.81288714e+10 | 97243266.21 | 0.54 | 97243266.21 | 0.54 | 68.53 | 76.36 | 0.07 | Japan | Energy | 4023736951 |
| ings Co Ltd | | | | | | | | | | | | |
| EVN AG | True | 4062200000 | 150138912 | 3.7 | 911890780.4 | 22.45 | 63.57 | 53.35 | 0.06 | Austria | Utilities | 5297577443 |
| NTN Corp | True | 4769260942 | 85159923.39 | 1.79 | 217158758.5 | 4.55 | 85.63 | 65.94 | 0.02 | Japan | Industrials | 978068669.7 |
| CropEnergies AG | True | 1075345000 | 711395560.1 | 66.16 | 726020252.1 | 67.52 | 50.98 | 57.51 | 0.25 | Germany | Energy | 1118545000 |
| MVV Energie AG | True | 5923588000 | 231712000 | 3.91 | 733813200 | 12.39 | 50.55 | 49.3 | 0.06 | Germany | Utilities | 2000230570 |
| Tata Power Company | True | 5098016870 | 865582088.2 | 16.98 | 1004018736 | 19.69 | 45.33 | 63.56 | 0.04 | India | Utilities | 1.546011801e+10 |
| Ltd | | | | | | | | | | | | |
| NTPC Ltd | True | 1.579679186e+10 | 228547984.7 | 1.45 | 798543625.5 | 5.06 | 53.21 | 51.11 | 0.06 | India | Utilities | 4.091379743e+10 |
| Intertek Group PLC | True | 3609079731 | 1533866104 | 42.5 | 1533866104 | 42.5 | 63.51 | 73.22 | 0.12 | United King- | Industrials | 9071470769 |
| | | | | | | | | | | dom | | |
| Novozymes A/S | True | 2361052471 | 252070683.9 | 10.68 | 1051577355 | 44.54 | 77.28 | 72.36 | 0.14 | Denmark | Basic Mate- | 2.37633802e+10 |
| | | | | | | | | | | | rials | |

| Company | Aligned | Total | Aligned | Aligned | Eligible | Eligible | Е | ESG | Pretax | Country | TRBC | Market |
|-----------------------|---------|-----------------|-------------|---------|------------|----------|-------|-------|--------|-------------|-------------|-----------------|
| Name | Flag | Revenue | Revenue | Revenue | Revenue | Revenue | Score | Score | ROA | | Economic | Сар |
| | | | | Percent | | Percent | | | | | Sector | |
| | | | | | | | | | | | Name | |
| Koninklijke BAM | True | 6618169000 | 213740386 | 3.23 | 1521609707 | 22.99 | 80.1 | 68.31 | 0.05 | Netherlands | Industrials | 1207419515 |
| Groep NV | | | | | | | | | | | | |
| Grasim Industries Ltd | True | 1.139503306e+10 | 27746905.5 | 0.24 | 1479394352 | 12.98 | 63.58 | 61.27 | 0.04 | India | Basic Mate- | 2.130686455e+10 |
| | | | | | | | | | | | rials | |
| Omron Corp | True | 5667395005 | 26172030.13 | 0.46 | 1932320996 | 34.1 | 96.01 | 91.3 | 0.03 | Japan | Industrials | 6826074318 |
| Linde AG (Pre- | True | 1.7113e+10 | 1123297320 | 6.56 | 1247263892 | 7.29 | 74.32 | 75.99 | 0.0 | Germany | Basic Mate- | 0 |
| merger) | | | | | | | | | | | rials | |
| YTL Corporation Bhd | True | 5248951133 | 325340489.1 | 6.2 | 906457118 | 17.27 | 60.97 | 55.96 | 0.04 | Malaysia | Utilities | 8183619089 |
| Yaskawa Electric | True | 3713625017 | 121535805.9 | 3.27 | 1742752230 | 46.93 | 47.25 | 61.12 | 0.1 | Japan | Industrials | 8721306119 |
| Corp | | | | | | | | | | | | |
| NSK Ltd | True | 6426876315 | 79326934.36 | 1.23 | 1986753129 | 30.91 | 78.95 | 64.66 | 0.02 | Japan | Consumer | 2314839650 |
| | | | | | | | | | | | Cyclicals | |
| Nidec Corp | True | 1.42491349e+10 | 211442912.8 | 1.48 | 1793139635 | 12.58 | 79.47 | 68.16 | 0.07 | Japan | Industrials | 2.371841013e+10 |
| Toyota Tsusho Corp | True | 5.963591156e+10 | 960913442.9 | 1.61 | 2162457789 | 3.63 | 77.37 | 71.76 | 0.07 | Japan | Industrials | 1.955936147e+10 |
| Panasonic Holdings | True | 5.488755438e+10 | 1209666811 | 2.2 | 2419333622 | 4.41 | 89.38 | 62.82 | 0.05 | Japan | Technology | 1.843967532e+10 |
| Corp | | | | | | | | | | | | |
| Nippon Steel Corp | True | 5.057976605e+10 | 134542177.7 | 0.27 | 1780812403 | 3.52 | 88.5 | 62.82 | 0.08 | Japan | Basic Mate- | 1.893746673e+10 |
| | | | | | | | | | | | rials | |
| Mitsubishi Corp | True | 1.282515889e+11 | 406685788.4 | 0.32 | 1560308830 | 1.22 | 81.53 | 77.28 | 0.06 | Japan | Industrials | 7.982523947e+10 |

| Company | Aligned | Total | Aligned | Aligned | Eligible | Eligible | Е | ESG | Pretax | Country | TRBC | Market |
|---------------------|---------|-----------------|-------------|---------|------------|----------|-------|-------|--------|---------------|-------------|-----------------|
| Name | Flag | Revenue | Revenue | Revenue | Revenue | Revenue | Score | Score | ROA | | Economic | Сар |
| | | | | Percent | | Percent | | | | | Sector | |
| | | | | | | | | | | | Name | |
| AGL Energy Ltd | True | 8704271305 | 176714116 | 2.03 | 2420675258 | 27.81 | 36.45 | 53.43 | -0.11 | Australia | Utilities | 4312409156 |
| Wipro Ltd | True | 9417568088 | 122428385.2 | 1.3 | 2326139318 | 24.7 | 77.62 | 87.09 | 0.13 | India | Technology | 3.095336128e+10 |
| voestalpine AG | True | 1.49232e+10 | 159917011.2 | 1.07 | 2054611253 | 13.77 | 71.86 | 60.28 | 0.02 | Austria | Basic Mate- | 4541857664 |
| | | | | | | | | | | | rials | |
| IHI Corp | True | 8712904735 | 32412005.61 | 0.37 | 2387353323 | 27.4 | 93.17 | 80.24 | -0.04 | Japan | Industrials | 4831675443 |
| Owens Corning | True | 9120678400 | 266022826.9 | 2.92 | 3642643901 | 39.94 | 96.48 | 93.89 | 0.14 | United States | Consumer | 1.337533888e+10 |
| | | | | | | | | | | of America | Cyclicals | |
| Larsen and Toubro | True | 1.863662204e+10 | 420442193.3 | 2.26 | 2522653160 | 13.54 | 91.43 | 75.71 | 0.06 | India | Industrials | 5.551625884e+10 |
| Ltd | | | | | | | | | | | | |
| Archer-Daniels- | True | 9.48939264e+10 | 4369485735 | 4.6 | 4369485735 | 4.6 | 72.87 | 78.05 | 0.08 | United States | Consumer | 2.932382606e+10 |
| Midland Co | | | | | | | | | | of America | Non- | |
| | | | | | | | | | | | Cyclicals | |
| Spie SA | True | 8113775000 | 248784569.1 | 3.07 | 3317325023 | 40.89 | 78.14 | 74.1 | 0.04 | France | Industrials | 5952012005 |
| Schlumberger NV | True | 2.62482304e+10 | 2096577403 | 7.99 | 3068365637 | 11.69 | 85.74 | 82.79 | 0.12 | United States | Energy | 5.976023976e+10 |
| | | | | | | | | | | of America | | |
| Indian Oil Corpora- | True | 7.017158775e+10 | 3260452653 | 4.65 | 3260452653 | 4.65 | 87.22 | 69.42 | 0.12 | India | Energy | 2.685439177e+10 |
| tion Ltd | | | | | | | | | | | | |
| Sumitomo Chemical | True | 2.054215727e+10 | 180832610.5 | 0.88 | 4614569668 | 22.46 | 92.62 | 89.17 | -0.11 | Japan | Basic Mate- | 3440922103 |
| Co Ltd | | | | | | | | | | | rials | |

| Company | Aligned | Total | Aligned | Aligned | Eligible | Eligible | Е | ESG | Pretax | Country | TRBC | Market |
|-----------------------|---------|-----------------|-------------|---------|-----------------|----------|-------|-------|--------|--------------|-------------|-----------------|
| Name | Flag | Revenue | Revenue | Revenue | Revenue | Revenue | Score | Score | ROA | | Economic | Сар |
| | | | | Percent | | Percent | | | | | Sector | |
| | | | | | | | | | | | Name | |
| Kansai Electric Power | True | 2.118526387e+10 | 2245637.97 | 0.01 | 5823574815 | 27.49 | 77.32 | 65.62 | 0.07 | Japan | Utilities | 1.409988903e+10 |
| Co Inc | | | | | | | | | | | | |
| RWE AG | True | 3.8366e+10 | 3915480496 | 10.21 | 6846873092 | 17.85 | 70.94 | 62.8 | 0.03 | Germany | Utilities | 2.454301884e+10 |
| Skanska AB | True | 1.464956913e+10 | 989593044.4 | 6.76 | 6812533082 | 46.5 | 59.29 | 70.4 | 0.04 | Sweden | Industrials | 6866982003 |
| Canadian Solar Inc | True | 6978669184 | 5855152296 | 83.9 | 6978669184 | 100.0 | 0.0 | 0.0 | 0.0 | Canada | Energy | 0 |
| (Pre-Reincorporation) | | | | | | | | | | | | |
| Infineon Technologies | True | 1.4218e+10 | 214805544 | 1.51 | 6188014832 | 43.52 | 77.54 | 79.36 | 0.14 | Germany | Technology | 4.614611514e+10 |
| AG | | | | | | | | | | | | |
| Vigie SA | True | 1.7209e+10 | 365329861 | 2.12 | 6034284223 | 35.06 | 87.47 | 78.52 | 0.0 | France | Industrials | 0 |
| Engie SA | True | 9.3865e+10 | 5280093980 | 5.63 | 1.457010076e+10 | 15.52 | 80.32 | 75.97 | 0.02 | France | Utilities | 3.423172054e+10 |
| Shell PLC | True | 3.562998016e+11 | 3313231855 | 0.93 | 3.248456551e+10 | 9.12 | 92.67 | 92.42 | 0.08 | United King- | Energy | 2.113398537e+11 |
| | | | | | | | | | | dom | | |
| Power Finance Cor- | False | 5118949462 | 0 | 0.0 | 1063854.3 | 0.01 | 33.27 | 44.79 | 0.03 | India | Financials | 2.011498778e+10 |
| poration Ltd | | | | | | | | | | | | |
| Chennai Petroleum | False | 7423450590 | 0 | 0.0 | 3541456.68 | 0.04 | 55.22 | 42.99 | 0.21 | India | Energy | 1711569352 |
| Corporation Ltd | | | | | | | | | | | | |
| Bajaj Auto Ltd | False | 4969184514 | 0 | 0.0 | 9012733.36 | 0.22 | 25.51 | 40.08 | 0.27 | India | Consumer | 2.890761439e+10 |
| | | | | | | | | | | | Cyclicals | |

| Company | Aligned | Total | Aligned | Aligned | Eligible | Eligible | Е | ESG | Pretax | Country | TRBC | Market |
|----------------------|---------|------------|---------|---------|-------------|----------|-------|-------|--------|---------------|-------------|-----------------|
| Name | Flag | Revenue | Revenue | Revenue | Revenue | Revenue | Score | Score | ROA | | Economic | Сар |
| | | | | Percent | | Percent | | | | | Sector | |
| | | | | | | | | | | | Name | |
| Nippon Sanso Hold- | False | 7792585444 | 0 | 0.0 | 11130427.92 | 0.14 | 61.42 | 63.97 | 0.07 | Japan | Basic Mate- | 1.256866553e+10 |
| ings Corp | | | | | | | | | | | rials | |
| Companhia Siderur- | False | 8147325178 | 0 | 0.0 | 51973933.76 | 0.61 | 59.91 | 61.44 | 0.01 | Brazil | Basic Mate- | 2990280291 |
| gica Nacional SA | | | | | | | | | | | rials | |
| Microchip Technol- | False | 7069196477 | 0 | 0.0 | 66168626.52 | 0.85 | 67.72 | 61.77 | 0.15 | United States | Technology | 4.555834116e+10 |
| ogy Inc | | | | | | | | | | of America | | |
| Kanematsu Corp | False | 6147945441 | 0 | 0.0 | 78652543.24 | 1.24 | 21.39 | 36.37 | 0.05 | Japan | Industrials | 1282726353 |
| Koninklijke KPN NV | False | 5513000000 | 0 | 0.0 | 91435520 | 1.68 | 67.15 | 69.86 | 0.09 | Netherlands | Technology | 1.431458519e+10 |
| Terex Corp | False | 4838555994 | 0 | 0.0 | 100897278.7 | 2.16 | 75.46 | 74.6 | 0.17 | United States | Industrials | 2776922505 |
| | | | | | | | | | | of America | | |
| Autodesk Inc | False | 5211139980 | 0 | 0.0 | 104859777.4 | 2.28 | 71.17 | 81.3 | 0.12 | United States | Technology | 5.006899642e+10 |
| | | | | | | | | | | of America | | |
| Universal Scientific | False | 7873350508 | 0 | 0.0 | 110437721.2 | 1.42 | 78.41 | 60.78 | 0.06 | China | Technology | 4555192176 |
| Industrial Shanghai | | | | | | | | | | | | |
| Co Ltd | | | | | | | | | | | | |
| Resideo Technologies | False | 5755065610 | 0 | 0.0 | 121056726.2 | 2.14 | 57.79 | 67.72 | 0.05 | United States | Technology | 2750045141 |
| Inc | | | | | | | | | | of America | | |
| TechnipFMC PLC | False | 7568105411 | 0 | 0.0 | 126154875.3 | 1.78 | 57.03 | 68.78 | 0.02 | United King- | Energy | 1.053926352e+10 |
| | | | | | | | | | | dom | | |

| Company | Aligned | Total | Aligned | Aligned | Eligible | Eligible | Е | ESG | Pretax | Country | TRBC | Market |
|-----------------------|---------|------------|---------|---------|-------------|----------|-------|-------|--------|---------------|-------------|-----------------|
| Name | Flag | Revenue | Revenue | Revenue | Revenue | Revenue | Score | Score | ROA | | Economic | Сар |
| | | | | Percent | | Percent | | | | | Sector | |
| | | | | | | | | | | | Name | |
| Orkla ASA | False | 5949421442 | 0 | 0.0 | 128744137 | 2.12 | 96.46 | 84.79 | 0.08 | Norway | Consumer | 7314927676 |
| | | | | | | | | | | | Non- | |
| | | | | | | | | | | | Cyclicals | |
| Computacenter PLC | False | 8084690521 | 0 | 0.0 | 156590363 | 1.96 | 32.53 | 60.73 | 0.09 | United King- | Technology | 3842397905 |
| | | | | | | | | | | dom | | |
| Regal Rexnord Corp | False | 6100368692 | 0 | 0.0 | 163914620.1 | 2.89 | 73.53 | 56.93 | -0.0 | United States | Industrials | 8876318340 |
| | | | | | | | | | | of America | | |
| Babcock International | False | 5153546848 | 0 | 0.0 | 187834116.4 | 3.72 | 56.36 | 56.53 | 0.0 | United King- | Industrials | 3183804787 |
| Group PLC | | | | | | | | | | dom | | |
| Nippon Paper Indus- | False | 7208325550 | 0 | 0.0 | 195666167.1 | 2.44 | 84.99 | 70.77 | 0.02 | Japan | Basic Mate- | 645089998.7 |
| tries Co Ltd | | | | | | | | | | | rials | |
| Vertiv Holdings Co | False | 6492200383 | 0 | 0.0 | 201568653.3 | 3.24 | 68.96 | 66.18 | 0.07 | United States | Industrials | 3.077906151e+10 |
| | | | | | | | | | | of America | | |
| Otsuka Corp | False | 6209689041 | 0 | 0.0 | 202401499.2 | 3.22 | 47.89 | 34.97 | 0.12 | Japan | Technology | 7300068366 |
| KBR Inc | False | 6570285690 | 0 | 0.0 | 217870890.3 | 3.46 | 70.49 | 88.48 | -0.03 | United States | Technology | 8038593823 |
| | | | | | | | | | | of America | | |
| Chunghwa Telecom | False | 6513854482 | 0 | 0.0 | 229168182.2 | 3.48 | 72.0 | 74.46 | 0.09 | Taiwan | Technology | 2.598719599e+10 |
| Co Ltd | | | | | | | | | | | | |

| Company | Aligned | Total | Aligned | Aligned | Eligible | Eligible | Е | ESG | Pretax | Country | TRBC | Market |
|---------------------|---------|------------|---------|---------|-------------|----------|-------|-------|--------|---------------|-------------|-----------------|
| Name | Flag | Revenue | Revenue | Revenue | Revenue | Revenue | Score | Score | ROA | | Economic | Сар |
| | | | | Percent | | Percent | | | | | Sector | |
| | | | | | | | | | | | Name | |
| UPL Ltd | False | 4810682770 | 0 | 0.0 | 240645968.1 | 4.0 | 66.32 | 59.38 | -0.02 | India | Basic Mate- | 4645201843 |
| | | | | | | | | | | | rials | |
| Sanmina Corp | False | 7365011952 | 0 | 0.0 | 254914122.1 | 3.02 | 60.46 | 62.98 | 0.09 | United States | Technology | 3600480858 |
| | | | | | | | | | | of America | | |
| John Wood Group | False | 5444916774 | 0 | 0.0 | 267773155.4 | 5.01 | 59.59 | 66.26 | -0.01 | United King- | Energy | 1639286078 |
| PLC | | | | | | | | | | dom | | |
| Rockwell Automation | False | 8326390480 | 0 | 0.0 | 267805508.9 | 3.13 | 61.63 | 56.83 | 0.15 | United States | Industrials | 2.961940633e+10 |
| Inc | | | | | | | | | | of America | | |
| Insight Enterprises | False | 8575489219 | 0 | 0.0 | 279891144.8 | 3.37 | 67.13 | 67.4 | 0.07 | United States | Technology | 6065212996 |
| Inc | | | | | | | | | | of America | | |
| Samsung Heavy In- | False | 6092345076 | 0 | 0.0 | 280345516.3 | 5.0 | 69.56 | 52.81 | -0.02 | Korea; Re- | Industrials | 5815293455 |
| dustries Co Ltd | | | | | | | | | | public (S. | | |
| | | | | | | | | | | Korea) | | |
| Graphic Packaging | False | 8599164000 | 0 | 0.0 | 280902173.9 | 3.29 | 75.65 | 67.5 | 0.09 | United States | Basic Mate- | 7754227798 |
| Holding Co | | | | | | | | | | of America | rials | |
| Primoris Services | False | 5426190160 | 0 | 0.0 | 302204450.5 | 5.84 | 29.42 | 39.43 | 0.05 | United States | Industrials | 2589058480 |
| Corp | | | | | | | | | | of America | | |
| Beacon Roofing Sup- | False | 8624811079 | 0 | 0.0 | 304642199.1 | 3.69 | 25.86 | 32.1 | 0.1 | United States | Consumer | 5661886798 |
| ply Inc | | | | | | | | | | of America | Cyclicals | |

| Company | Aligned | Total | Aligned | Aligned | Eligible | Eligible | Е | ESG | Pretax | Country | TRBC | Market |
|----------------------|---------|------------|---------|---------|-------------|----------|-------|-------|--------|---------------|-------------|-----------------|
| Name | Flag | Revenue | Revenue | Revenue | Revenue | Revenue | Score | Score | ROA | | Economic | Сар |
| | | | | Percent | | Percent | | | | | Sector | |
| | | | | | | | | | | | Name | |
| Fincantieri SpA | False | 7654000000 | 0 | 0.0 | 305094707.7 | 3.99 | 73.81 | 76.75 | -0.01 | Italy | Industrials | 1563789455 |
| NiSource Inc | False | 4871482711 | 0 | 0.0 | 323341622.7 | 6.48 | 63.34 | 65.15 | 0.03 | United States | Utilities | 1.236071293e+10 |
| | | | | | | | | | | of America | | |
| Ningbo Joyson Elec- | False | 7101924627 | 0 | 0.0 | 326498354.4 | 4.59 | 44.63 | 52.07 | 0.03 | China | Consumer | 2844061078 |
| tronic Corp | | | | | | | | | | | Cyclicals | |
| JGC Holdings Corp | False | 5121525220 | 0 | 0.0 | 329963156.4 | 7.83 | 45.42 | 46.28 | 0.0 | Japan | Industrials | 1899817445 |
| Seagate Technology | False | 5798053090 | 0 | 0.0 | 338405028 | 5.0 | 52.48 | 55.38 | -0.06 | Singapore | Technology | 2.062154742e+10 |
| Holdings PLC | | | | | | | | | | | | |
| Hong Kong and China | False | 6674646368 | 0 | 0.0 | 360561297.9 | 5.45 | 67.39 | 68.71 | 0.06 | Hong Kong | Utilities | 1.431039262e+10 |
| Gas Co Ltd | | | | | | | | | | | | |
| Seiko Epson Corp | False | 8184459167 | 0 | 0.0 | 386478018.9 | 4.18 | 58.92 | 82.17 | 0.05 | Japan | Technology | 5820243915 |
| Fortive Corp | False | 5680999244 | 0 | 0.0 | 386519191.9 | 7.03 | 56.24 | 65.89 | 0.06 | United States | Industrials | 2.439936661e+10 |
| | | | | | | | | | | of America | | |
| Hitachi Construction | False | 8795183151 | 0 | 0.0 | 396355945 | 4.51 | 89.5 | 69.74 | 0.09 | Japan | Industrials | 5511196353 |
| Machinery Co Ltd | | | | | | | | | | | | |
| Air Water Inc | False | 6337239713 | 0 | 0.0 | 426495012.2 | 6.11 | 45.09 | 31.52 | 0.06 | Japan | Basic Mate- | 2869506961 |
| | | | | | | | | | | | rials | |
| Puma SE | False | 8516300000 | 0 | 0.0 | 430085000 | 5.0 | 89.68 | 87.75 | 0.07 | Germany | Consumer | 6716516890 |
| | | | | | | | | | | | Cyclicals | |

| Company | Aligned | Total | Aligned | Aligned | Eligible | Eligible | Е | ESG | Pretax | Country | TRBC | Market |
|----------------------|---------|------------|---------|---------|-------------|----------|-------|-------|--------|---------------|-------------|-----------------|
| Name | Flag | Revenue | Revenue | Revenue | Revenue | Revenue | Score | Score | ROA | | Economic | Сар |
| | | | | Percent | | Percent | | | | | Sector | |
| | | | | | | | | | | | Name | |
| Schouw & Co A/S | False | 4884655425 | 0 | 0.0 | 433392146.6 | 8.68 | 44.58 | 44.35 | 0.05 | Denmark | Consumer | 1870004516 |
| | | | | | | | | | | | Non- | |
| | | | | | | | | | | | Cyclicals | |
| Greif Inc | False | 4807819266 | 0 | 0.0 | 451240558 | 9.14 | 62.41 | 65.24 | 0.09 | United States | Basic Mate- | 2677771857 |
| | | | | | | | | | | of America | rials | |
| Jindal Steel And | False | 5579166855 | 0 | 0.0 | 455310079.1 | 7.69 | 67.62 | 65.58 | 0.08 | India | Basic Mate- | 1.115912818e+10 |
| Power Ltd | | | | | | | | | | | rials | |
| Lanxess AG | False | 6422000000 | 0 | 0.0 | 467999370 | 6.97 | 74.83 | 83.45 | -0.09 | Germany | Basic Mate- | 1979359396 |
| | | | | | | | | | | | rials | |
| Boise Cascade Co | False | 6429841053 | 0 | 0.0 | 482700999.9 | 7.79 | 17.13 | 35.19 | 0.19 | United States | Consumer | 4529312716 |
| | | | | | | | | | | of America | Cyclicals | |
| Digital Realty Trust | False | 5082131205 | 0 | 0.0 | 492044660.9 | 9.91 | 78.33 | 68.58 | 0.02 | United States | Real Estate | 4.71162927e+10 |
| Inc | | | | | | | | | | of America | | |
| Chemours Co | False | 5428442780 | 0 | 0.0 | 493783974 | 9.04 | 66.83 | 79.97 | -0.04 | United States | Basic Mate- | 3346267067 |
| | | | | | | | | | | of America | rials | |
| Hengtong Optic- | False | 6230282123 | 0 | 0.0 | 493909411 | 8.12 | 75.67 | 75.53 | 0.04 | China | Technology | 5061178029 |
| Electric Co Ltd | | | | | | | | | | | | |
| Wartsila Oyj Abp | False | 5871000000 | 0 | 0.0 | 496496145 | 8.25 | 92.85 | 76.1 | 0.05 | Finland | Industrials | 1.104721011e+10 |

| Company | Aligned | Total | Aligned | Aligned | Eligible | Eligible | Е | ESG | Pretax | Country | TRBC | Market |
|---------------------|---------|------------|---------|---------|-------------|----------|-------|-------|--------|---------------|-------------|-----------------|
| Name | Flag | Revenue | Revenue | Revenue | Revenue | Revenue | Score | Score | ROA | | Economic | Сар |
| | | | | Percent | | Percent | | | | | Sector | |
| | | | | | | | | | | | Name | |
| Hokkaido Electric | False | 5931645935 | 0 | 0.0 | 503853801.1 | 8.16 | 63.58 | 42.08 | 0.04 | Japan | Utilities | 1378621176 |
| Power Company | | | | | | | | | | | | |
| Incorporated | | | | | | | | | | | | |
| GEA Group AG | False | 5343797000 | 0 | 0.0 | 516397858.6 | 9.61 | 92.73 | 86.81 | 0.08 | Germany | Industrials | 6977206708 |
| NGL Energy Partners | False | 6430760696 | 0 | 0.0 | 531719077.9 | 6.63 | 13.7 | 16.56 | -0.03 | United States | Energy | 558922680.4 |
| LP | | | | | | | | | | of America | | |
| Iwatani Corp | False | 5245523323 | 0 | 0.0 | 553660593.9 | 8.79 | 43.65 | 40.89 | 0.09 | Japan | Energy | 3447356613 |
| Roper Technologies | False | 5920383484 | 0 | 0.0 | 562341629.2 | 10.05 | 46.99 | 57.58 | 0.06 | United States | Technology | 5.480630513e+10 |
| Inc | | | | | | | | | | of America | | |
| Sopra Steria Group | False | 5805300000 | 0 | 0.0 | 563114100 | 9.7 | 76.58 | 78.48 | 0.05 | France | Technology | 3885292648 |
| SA | | | | | | | | | | | | |
| Taiheiyo Cement | False | 5464237273 | 0 | 0.0 | 563618385.8 | 10.02 | 57.56 | 42.41 | 0.04 | Japan | Basic Mate- | 2731856012 |
| Corp | | | | | | | | | | | rials | |
| Sappi Ltd | False | 4941400960 | 0 | 0.0 | 580831721.9 | 10.57 | 75.08 | 81.41 | 0.06 | South Africa | Basic Mate- | 1645876473 |
| | | | | | | | | | | | rials | |
| Dover Corp | False | 7822219775 | 0 | 0.0 | 624628465.4 | 8.17 | 78.93 | 66.06 | 0.11 | United States | Industrials | 2.325207313e+10 |
| | | | | | | | | | | of America | | |
| Academy Sports and | False | 5667317409 | 0 | 0.0 | 638873699.5 | 10.86 | 31.01 | 37.08 | 0.14 | United States | Consumer | 3513697659 |
| Outdoors Inc | | | | | | | | | | of America | Cyclicals | |

| Company | Aligned | Total | Aligned | Aligned | Eligible | Eligible | Е | ESG | Pretax | Country | TRBC | Market |
|--------------------|---------|------------|---------|---------|-------------|----------|-------|-------|--------|---------------|-------------|-----------------|
| Name | Flag | Revenue | Revenue | Revenue | Revenue | Revenue | Score | Score | ROA | | Economic | Сар |
| | | | | Percent | | Percent | | | | | Sector | |
| | | | | | | | | | | | Name | |
| Tokyo Century Corp | False | 8289433788 | 0 | 0.0 | 649943738.4 | 7.03 | 20.37 | 38.49 | 0.02 | Japan | Financials | 4294957992 |
| Hubbell Inc | False | 5090024712 | 0 | 0.0 | 675866144.3 | 13.88 | 73.63 | 72.04 | 0.16 | United States | Industrials | 1.872913083e+10 |
| | | | | | | | | | | of America | | |
| Hotai Motor Co Ltd | False | 7866433945 | 0 | 0.0 | 685530643.3 | 9.61 | 70.48 | 59.37 | 0.07 | Taiwan | Consumer | 9843229556 |
| | | | | | | | | | | | Cyclicals | |
| Travis Perkins PLC | False | 5672883848 | 0 | 0.0 | 702187061.4 | 12.52 | 61.24 | 62.05 | 0.02 | United King- | Consumer | 2261352986 |
| | | | | | | | | | | dom | Cyclicals | |
| LG Corp | False | 5140697727 | 0 | 0.0 | 725792794.8 | 15.84 | 70.42 | 48.65 | 0.05 | Korea; Re- | Technology | 8690146520 |
| | | | | | | | | | | public (S. | | |
| | | | | | | | | | | Korea) | | |
| Comfort Systems | False | 5161697389 | 0 | 0.0 | 735003290.1 | 15.58 | 22.43 | 56.23 | 0.13 | United States | Industrials | 1.054104998e+10 |
| USA Inc | | | | | | | | | | of America | | |
| Peab AB | False | 5183490625 | 0 | 0.0 | 750418863.8 | 13.53 | 66.46 | 66.86 | 0.05 | Sweden | Industrials | 1672488994 |
| New World Develop- | False | 8665138450 | 0 | 0.0 | 755733790.4 | 6.79 | 85.71 | 68.98 | 0.02 | Hong Kong | Real Estate | 2355634953 |
| ment Co Ltd | | | | | | | | | | | | |
| Teijin Ltd | False | 6383241668 | 0 | 0.0 | 792100551.8 | 11.19 | 39.12 | 53.03 | 0.02 | Japan | Consumer | 1552776558 |
| | | | | | | | | | | | Cyclicals | |
| Hexagon AB | False | 5450000000 | 0 | 0.0 | 817778880 | 15.03 | 69.77 | 52.22 | 0.06 | Sweden | Technology | 2.762463501e+10 |

| Company | Aligned | Total | Aligned | Aligned | Eligible | Eligible | Е | ESG | Pretax | Country | TRBC | Market |
|---------------------|---------|------------|---------|---------|-------------|----------|-------|-------|--------|---------------|-------------|-----------------|
| Name | Flag | Revenue | Revenue | Revenue | Revenue | Revenue | Score | Score | ROA | | Economic | Сар |
| | | | | Percent | | Percent | | | | | Sector | |
| | | | | | | | | | | | Name | |
| Kuraray Co Ltd | False | 4860594584 | 0 | 0.0 | 854710915.7 | 17.04 | 81.74 | 72.37 | 0.05 | Japan | Basic Mate- | 3830651219 |
| | | | | | | | | | | | rials | |
| Bechtle AG | False | 6835238000 | 0 | 0.0 | 858014237.4 | 13.36 | 38.82 | 68.99 | 0.1 | Germany | Technology | 5146579580 |
| Subsea 7 SA | False | 5634852893 | 0 | 0.0 | 869952889.2 | 16.07 | 80.23 | 72.42 | 0.01 | United King- | Energy | 5196692833 |
| | | | | | | | | | | dom | | |
| American Axle | False | 5724643990 | 0 | 0.0 | 870426191.8 | 15.8 | 67.83 | 70.37 | -0.0 | United States | Consumer | 772839189 |
| & Manufacturing | | | | | | | | | | of America | Cyclicals | |
| Holdings Inc | | | | | | | | | | | | |
| SGS SA | False | 6971978226 | 0 | 0.0 | 873283557.4 | 12.25 | 71.61 | 84.32 | 0.12 | Switzerland | Industrials | 1.620973229e+10 |
| Serco Group PLC | False | 5678010165 | 0 | 0.0 | 908201816.6 | 16.16 | 57.05 | 73.07 | 0.09 | United King- | Industrials | 2387661709 |
| | | | | | | | | | | dom | | |
| Spirit AeroSystems | False | 5878958201 | 0 | 0.0 | 921038021.6 | 16.81 | 58.62 | 72.99 | -0.09 | United States | Industrials | 3695555968 |
| Holdings Inc | | | | | | | | | | of America | | |
| SKF AB | False | 8838544938 | 0 | 0.0 | 928112951.4 | 9.93 | 86.63 | 78.45 | 0.08 | Sweden | Industrials | 8580525744 |
| Howmet Aerospace | False | 6378929890 | 0 | 0.0 | 930916352.5 | 15.47 | 52.35 | 72.17 | 0.09 | United States | Industrials | 2.965386047e+10 |
| Inc | | | | | | | | | | of America | | |
| Axalta Coating Sys- | False | 4829046399 | 0 | 0.0 | 939493706.6 | 20.0 | 52.11 | 53.92 | 0.05 | United States | Basic Mate- | 7172119676 |
| tems Ltd | | | | | | | | | | of America | rials | |

| Company | Aligned | Total | Aligned | Aligned | Eligible | Eligible | Е | ESG | Pretax | Country | TRBC | Market |
|----------------------|---------|------------|---------|---------|-------------|----------|-------|-------|--------|---------------|-------------|-----------------|
| Name | Flag | Revenue | Revenue | Revenue | Revenue | Revenue | Score | Score | ROA | | Economic | Сар |
| | | | | Percent | | Percent | | | | | Sector | |
| | | | | | | | | | | | Name | |
| Huntsman Corp | False | 5543475970 | 0 | 0.0 | 954856895.2 | 17.24 | 81.96 | 77.47 | 0.01 | United States | Basic Mate- | 3577004676 |
| | | | | | | | | | | of America | rials | |
| Knorr Bremse AG | False | 7965362000 | 0 | 0.0 | 958309644.7 | 12.09 | 77.11 | 79.84 | 0.1 | Germany | Industrials | 1.177566e+10 |
| Hokuriku Electric | False | 5025401245 | 0 | 0.0 | 966981875.3 | 17.02 | 31.37 | 19.49 | 0.03 | Japan | Utilities | 1218135125 |
| Power Co | | | | | | | | | | | | |
| Power Grid Corpora- | False | 5109760879 | 0 | 0.0 | 971913859.4 | 18.99 | 58.77 | 51.79 | 0.08 | India | Utilities | 3.503595503e+10 |
| tion of India Ltd | | | | | | | | | | | | |
| Sealed Air Corp | False | 5071684859 | 0 | 0.0 | 994731391.4 | 20.0 | 50.55 | 61.32 | 0.06 | United States | Basic Mate- | 4786636702 |
| | | | | | | | | | | of America | rials | |
| Teledyne Technolo- | False | 5184728050 | 0 | 0.0 | 998376064.2 | 19.55 | 38.7 | 41.46 | 0.07 | United States | Technology | 1.713712602e+10 |
| gies Inc | | | | | | | | | | of America | | |
| Juniper Networks Inc | False | 4956841592 | 0 | 0.0 | 1053650171 | 20.9 | 88.71 | 71.02 | 0.04 | United States | Technology | 1.106441149e+10 |
| | | | | | | | | | | of America | | |
| Valmet Oyj | False | 5423000000 | 0 | 0.0 | 1071083712 | 19.36 | 81.0 | 82.71 | 0.07 | Finland | Industrials | 5002597592 |
| Tokyu Corp | False | 6392189967 | 0 | 0.0 | 1092161129 | 16.88 | 52.46 | 52.95 | 0.04 | Japan | Industrials | 6352011885 |
| Daewoo Engineering | False | 8023955517 | 0 | 0.0 | 1111206774 | 13.63 | 97.22 | 81.75 | 0.07 | Korea; Re- | Industrials | 1106944530 |
| & Construction Co | | | | | | | | | | public (S. | | |
| Ltd | | | | | | | | | | Korea) | | |

| Company | Aligned | Total | Aligned | Aligned | Eligible | Eligible | Е | ESG | Pretax | Country | TRBC | Market |
|----------------------|---------|------------|---------|---------|------------|----------|-------|-------|--------|---------------|-------------|-----------------|
| Name | Flag | Revenue | Revenue | Revenue | Revenue | Revenue | Score | Score | ROA | | Economic | Сар |
| | | | | Percent | | Percent | | | | | Sector | |
| | | | | | | | | | | | Name | |
| Mondi PLC | False | 7330000000 | 0 | 0.0 | 1128497480 | 15.4 | 90.06 | 81.25 | 0.07 | United King- | Basic Mate- | 8339932498 |
| | | | | | | | | | | dom | rials | |
| Arista Networks Inc | False | 5641053838 | 0 | 0.0 | 1139345414 | 21.46 | 60.62 | 57.61 | 0.29 | United States | Technology | 1.039854597e+11 |
| | | | | | | | | | | of America | | |
| Hertz Global Hold- | False | 8750114880 | 0 | 0.0 | 1188788192 | 14.0 | 59.64 | 54.66 | 0.01 | United States | Industrials | 1132851302 |
| ings Inc | | | | | | | | | | of America | | |
| Minebea Mitsumi Inc | False | 8712746711 | 0 | 0.0 | 1246058841 | 13.88 | 76.0 | 73.16 | 0.06 | Japan | Technology | 8788873826 |
| Sun Hung Kai Proper- | False | 8465410941 | 0 | 0.0 | 1247312600 | 14.98 | 85.35 | 58.25 | 0.04 | Hong Kong | Real Estate | 2.463960661e+10 |
| ties Ltd | | | | | | | | | | | | |
| Hyundai Wia Corp | False | 6003073588 | 0 | 0.0 | 1247649887 | 20.75 | 72.14 | 74.11 | 0.01 | Korea; Re- | Consumer | 1018373333 |
| | | | | | | | | | | public (S. | Cyclicals | |
| | | | | | | | | | | Korea) | | |
| Hankyu Hanshin | False | 6171658776 | 0 | 0.0 | 1297114618 | 19.28 | 69.25 | 58.05 | 0.03 | Japan | Industrials | 6353121302 |
| Holdings Inc | | | | | | | | | | | | |
| Stora Enso Oyj | False | 8839000000 | 0 | 0.0 | 1318005108 | 14.03 | 85.41 | 81.22 | -0.02 | Finland | Basic Mate- | 9866078961 |
| | | | | | | | | | | | rials | |
| Brunswick Corp | False | 5585358702 | 0 | 0.0 | 1381377613 | 23.81 | 53.21 | 73.64 | 0.1 | United States | Consumer | 4789692682 |
| | | | | | | | | | | of America | Cyclicals | |

| Company | Aligned | Total | Aligned | Aligned | Eligible | Eligible | Е | ESG | Pretax | Country | TRBC | Market |
|---------------------|---------|------------|---------|---------|------------|----------|-------|-------|--------|---------------|-------------|-----------------|
| Name | Flag | Revenue | Revenue | Revenue | Revenue | Revenue | Score | Score | ROA | | Economic | Сар |
| | | | | Percent | | Percent | | | | | Sector | |
| | | | | | | | | | | | Name | |
| Boliden AB | False | 6710548224 | 0 | 0.0 | 1390151521 | 19.66 | 88.43 | 82.1 | 0.08 | Sweden | Basic Mate- | 8601483807 |
| | | | | | | | | | | | rials | |
| Vulcan Materials Co | False | 7144262840 | 0 | 0.0 | 1408653733 | 19.98 | 66.91 | 48.44 | 0.09 | United States | Basic Mate- | 3.062089471e+10 |
| | | | | | | | | | | of America | rials | |
| Empresas CMPC SA | False | 7288452340 | 0 | 0.0 | 1497490063 | 20.4 | 80.31 | 73.78 | 0.03 | Chile | Basic Mate- | 4216858862 |
| | | | | | | | | | | | rials | |
| Sunwoda Electronic | False | 6214673910 | 0 | 0.0 | 1519817061 | 24.87 | 85.38 | 59.5 | 0.0 | China | Industrials | 3598751646 |
| Co Ltd | | | | | | | | | | | | |
| Polaris Inc | False | 7864213981 | 0 | 0.0 | 1525607535 | 18.84 | 72.3 | 74.55 | 0.12 | United States | Consumer | 4224798482 |
| | | | | | | | | | | of America | Cyclicals | |
| Constellium SE | False | 7014000000 | 0 | 0.0 | 1629180384 | 22.51 | 65.97 | 70.19 | 0.04 | France | Basic Mate- | 2493843861 |
| | | | | | | | | | | | rials | |
| Celestica Inc | False | 7725158973 | 0 | 0.0 | 1642588557 | 22.77 | 82.89 | 79.73 | 0.05 | Canada | Technology | 6462042553 |
| Ncc AB | False | 4859671178 | 0 | 0.0 | 1673172461 | 32.65 | 83.71 | 73.59 | 0.06 | Sweden | Industrials | 1282911972 |
| NVR Inc | False | 8778028398 | 0 | 0.0 | 1718047059 | 19.57 | 23.81 | 34.34 | 0.31 | United States | Consumer | 2.315618402e+10 |
| | | | | | | | | | | of America | Cyclicals | |
| Hanon Systems | False | 6697242599 | 0 | 0.0 | 1739893748 | 26.0 | 72.48 | 61.05 | 0.02 | Korea; Re- | Consumer | 1744154826 |
| | | | | | | | | | | public (S. | Cyclicals | |
| | | | | | | | | | | Korea) | | |

| Company | Aligned | Total | Aligned | Aligned | Eligible | Eligible | Е | ESG | Pretax | Country | TRBC | Market |
|------------------------|---------|------------|---------|---------|------------|----------|-------|-------|--------|---------------|-------------|------------|
| Name | Flag | Revenue | Revenue | Revenue | Revenue | Revenue | Score | Score | ROA | | Economic | Сар |
| | | | | Percent | | Percent | | | | | Sector | |
| | | | | | | | | | | | Name | |
| Jungheinrich AG | False | 5528887000 | 0 | 0.0 | 1759321733 | 31.72 | 47.78 | 56.81 | 0.06 | Germany | Industrials | 1514923495 |
| ABM Industries Inc | False | 7564899529 | 0 | 0.0 | 1893925014 | 24.74 | 79.09 | 68.92 | 0.07 | United States | Industrials | 2951156248 |
| | | | | | | | | | | of America | | |
| Sibanye Stillwater Ltd | False | 5595138494 | 0 | 0.0 | 1922348995 | 34.12 | 62.63 | 70.72 | -0.26 | South Africa | Basic Mate- | 3060722363 |
| | | | | | | | | | | | rials | |
| Samsung E&A Co | False | 7296958717 | 0 | 0.0 | 1940439159 | 26.09 | 76.58 | 74.44 | 0.12 | Korea; Re- | Industrials | 3067981150 |
| Ltd | | | | | | | | | | public (S. | | |
| | | | | | | | | | | Korea) | | |
| Sonoco Products Co | False | 6230397247 | 0 | 0.0 | 2073502985 | 33.74 | 61.59 | 54.02 | 0.09 | United States | Basic Mate- | 4584041861 |
| | | | | | | | | | | of America | rials | |
| Konica Minolta Inc | False | 7181145863 | 0 | 0.0 | 2085291153 | 26.55 | 90.24 | 79.36 | 0.01 | Japan | Technology | 1344121534 |
| Shikoku Electric | False | 4922646930 | 0 | 0.0 | 2097338478 | 36.23 | 65.1 | 43.04 | 0.05 | Japan | Utilities | 1620091334 |
| Power Co Inc | | | | | | | | | | | | |
| Samsung Electro- | False | 6609249642 | 0 | 0.0 | 2322424900 | 37.24 | 76.41 | 82.16 | 0.05 | Korea; Re- | Technology | 8364124751 |
| Mechanics Co Ltd | | | | | | | | | | public (S. | | |
| | | | | | | | | | | Korea) | | |
| Localiza Rent a Car | False | 5717621204 | 0 | 0.0 | 2738374809 | 50.73 | 25.87 | 54.46 | 0.03 | Brazil | Industrials | 8539836486 |
| SA | | | | | | | | | | | | |

| Company | Aligned | Total | Aligned | Aligned | Eligible | Eligible | Е | ESG | Pretax | Country | TRBC | Market |
|------------------------|---------|------------|---------|---------|------------|----------|-------|-------|--------|---------------|-------------|-----------------|
| Name | Flag | Revenue | Revenue | Revenue | Revenue | Revenue | Score | Score | ROA | | Economic | Сар |
| | | | | Percent | | Percent | | | | | Sector | |
| | | | | | | | | | | | Name | |
| Nippon Sheet Glass | False | 5140280600 | 0 | 0.0 | 2812458100 | 53.02 | 57.36 | 59.05 | 0.02 | Japan | Consumer | 223778888.9 |
| Co Ltd | | | | | | | | | | | Cyclicals | |
| Fortum Oyj | False | 6461000000 | 0 | 0.0 | 2867113686 | 42.72 | 80.75 | 68.68 | 0.07 | Finland | Utilities | 1.239380426e+10 |
| Andritz AG | False | 8583800000 | 0 | 0.0 | 2952964740 | 34.1 | 79.28 | 79.33 | 0.08 | Austria | Industrials | 5952339078 |
| Brother Industries Ltd | False | 5110593910 | 0 | 0.0 | 2968493393 | 52.41 | 83.97 | 74.27 | 0.06 | Japan | Technology | 4500659283 |
| Xylem Inc | False | 7402631280 | 0 | 0.0 | 3847108953 | 57.65 | 75.31 | 82.91 | 0.05 | United States | Industrials | 3.077175831e+10 |
| | | | | | | | | | | of America | | |
| TopBuild Corp | False | 4833671409 | 0 | 0.0 | 3931625680 | 83.53 | 41.8 | 50.79 | 0.17 | United States | Industrials | 1.260080663e+10 |
| | | | | | | | | | | of America | | |
| Koito Manufacturing | False | 5915757255 | 0 | 0.0 | 3941930208 | 65.61 | 37.49 | 39.11 | 0.06 | Japan | Consumer | 4057953003 |
| Co Ltd | | | | | | | | | | | Cyclicals | |
| SDIC Power Holdings | False | 7358016831 | 0 | 0.0 | 4069286781 | 56.63 | 64.74 | 50.82 | 0.05 | China | Utilities | 1.720606522e+10 |
| Co Ltd | | | | | | | | | | | | |
| Masco Corp | False | 7359431560 | 0 | 0.0 | 4175902989 | 57.84 | 63.96 | 70.39 | 0.23 | United States | Consumer | 1.428383009e+10 |
| | | | | | | | | | | of America | Cyclicals | |
| Basic Sanitation | False | 4898033586 | 0 | 0.0 | 4216123602 | 88.28 | 50.46 | 57.2 | 0.08 | Brazil | Utilities | 9599826481 |
| Company of the State | | | | | | | | | | | | |
| of Sao Paulo SABESP | | | | | | | | | | | | |

| Company | Aligned | Total | Aligned | Aligned | Eligible | Eligible | Е | ESG | Pretax | Country | TRBC | Market |
|----------------------|---------|------------|---------|---------|------------|----------|-------|-------|--------|---------------|-------------|-----------------|
| Name | Flag | Revenue | Revenue | Revenue | Revenue | Revenue | Score | Score | ROA | | Economic | Сар |
| | | | | Percent | | Percent | | | | | Sector | |
| | | | | | | | | | | | Name | |
| Pirelli & C SpA | False | 6645900000 | 0 | 0.0 | 4457716781 | 67.03 | 68.78 | 71.74 | 0.05 | Italy | Consumer | 5712444312 |
| | | | | | | | | | | | Cyclicals | |
| Clean Harbors Inc | False | 5093184698 | 0 | 0.0 | 4773375368 | 97.39 | 72.59 | 54.93 | 0.08 | United States | Industrials | 1.122919173e+10 |
| | | | | | | | | | | of America | | |
| UltraTech Cement Ltd | False | 7899333326 | 0 | 0.0 | 4899883586 | 69.0 | 70.51 | 77.92 | 0.1 | India | Basic Mate- | 3.671297332e+10 |
| | | | | | | | | | | | rials | |
| DS Smith PLC | False | 8011876958 | 0 | 0.0 | 5158325579 | 55.0 | 90.36 | 82.58 | 0.05 | United King- | Basic Mate- | 6872982285 |
| | | | | | | | | | | dom | rials | |
| MTR Corp Ltd | False | 6647349510 | 0 | 0.0 | 5245818715 | 79.33 | 74.23 | 66.61 | 0.03 | Hong Kong | Industrials | 1.891142107e+10 |
| Signify NV | False | 6495000000 | 0 | 0.0 | 5698400000 | 85.0 | 93.81 | 88.12 | 0.03 | Netherlands | Consumer | 3186314974 |
| | | | | | | | | | | | Cyclicals | |
| Sekisui Chemical Co | False | 7813888129 | 0 | 0.0 | 5704295661 | 66.08 | 97.85 | 74.71 | 0.09 | Japan | Consumer | 5773651479 |
| Ltd | | | | | | | | | | | Cyclicals | |
| KB Home | False | 5951363219 | 0 | 0.0 | 5837964532 | 99.14 | 71.58 | 65.98 | 0.12 | United States | Consumer | 5249665342 |
| | | | | | | | | | | of America | Cyclicals | |
| Barratt Developments | False | 5127476769 | 0 | 0.0 | 6095034515 | 98.36 | 85.83 | 75.39 | 0.09 | United King- | Consumer | 5742599220 |
| PLC | | | | | | | | | | dom | Cyclicals | |
| Waste Connections | False | 7641232882 | 0 | 0.0 | 6230505592 | 85.71 | 50.64 | 50.43 | 0.06 | Canada | Industrials | 4.270111416e+10 |
| Inc | | | | | | | | | | | | |

| Company | Aligned | Total | Aligned | Aligned | Eligible | Eligible | Е | ESG | Pretax | Country | TRBC | Market |
|---------------------|---------|------------|---------|---------|------------|----------|-------|-------|--------|---------------|-------------|-----------------|
| Name | Flag | Revenue | Revenue | Revenue | Revenue | Revenue | Score | Score | ROA | | Economic | Сар |
| | | | | Percent | | Percent | | | | | Sector | |
| | | | | | | | | | | | Name | |
| Commercial Metals | False | 7572711110 | 0 | 0.0 | 6777038637 | 83.49 | 74.14 | 71.48 | 0.17 | United States | Basic Mate- | 5851919982 |
| Со | | | | | | | | | | of America | rials | |
| NIO Inc | False | 6825323375 | 0 | 0.0 | 6799501460 | 95.76 | 54.52 | 45.57 | -0.19 | China | Consumer | 9320147049 |
| | | | | | | | | | | | Cyclicals | |
| Givaudan SA | False | 7260894254 | 0 | 0.0 | 0 | 0.0 | 72.28 | 76.35 | 0.09 | Switzerland | Basic Mate- | 4.132674891e+10 |
| | | | | | | | | | | | rials | |
| Suzano SA | False | 7073295368 | 0 | 0.0 | 0 | 0.0 | 68.98 | 81.39 | 0.13 | Brazil | Basic Mate- | 1.152059183e+10 |
| | | | | | | | | | | | rials | |
| Usinas Siderurgicas | False | 4993076522 | 0 | 0.0 | 0 | 0.0 | 67.5 | 61.74 | 0.03 | Brazil | Basic Mate- | 1655997659 |
| de Minas Gerais SA | | | | | | | | | | | rials | |
| USIMINAS | | | | | | | | | | | | |
| Acerinox SA | False | 6306925000 | 0 | 0.0 | 0 | 0.0 | 88.98 | 79.27 | 0.06 | Spain | Basic Mate- | 2483980505 |
| | | | | | | | | | | | rials | |
| Antofagasta PLC | False | 5811510831 | 0 | 0.0 | 0 | 0.0 | 73.99 | 77.25 | 0.1 | United King- | Basic Mate- | 2.613114868e+10 |
| | | | | | | | | | | dom | rials | |
| Formosa Plastics | False | 5672403195 | 0 | 0.0 | 0 | 0.0 | 86.69 | 77.37 | 0.01 | Taiwan | Basic Mate- | 1.041956992e+10 |
| Corp | | | | | | | | | | | rials | |
| UACJ Corp | False | 5520234020 | 0 | 0.0 | 0 | 0.0 | 29.12 | 11.95 | 0.02 | Japan | Basic Mate- | 1084119770 |
| | | | | | | | | | | | rials | |

| Company | Aligned | Total | Aligned | Aligned | Eligible | Eligible | Е | ESG | Pretax | Country | TRBC | Market |
|----------------------|---------|------------|---------|---------|----------|----------|-------|-------|--------|--------------|-------------|-----------------|
| Name | Flag | Revenue | Revenue | Revenue | Revenue | Revenue | Score | Score | ROA | | Economic | Сар |
| | | | | Percent | | Percent | | | | | Sector | |
| | | | | | | | | | | | Name | |
| Mitsubishi Gas | False | 5038256320 | 0 | 0.0 | 0 | 0.0 | 67.14 | 54.51 | 0.06 | Japan | Basic Mate- | 3840865181 |
| Chemical Co Inc | | | | | | | | | | | rials | |
| Nagase & Co Ltd | False | 5615418589 | 0 | 0.0 | 0 | 0.0 | 68.7 | 63.79 | 0.04 | Japan | Basic Mate- | 2173606479 |
| | | | | | | | | | | | rials | |
| Nine Dragons Paper | False | 7220847674 | 0 | 0.0 | 0 | 0.0 | 39.39 | 39.53 | -0.02 | Hong Kong | Basic Mate- | 1840603411 |
| (Holdings) Ltd | | | | | | | | | | | rials | |
| Nitto Denko Corp | False | 5686296000 | 0 | 0.0 | 0 | 0.0 | 67.08 | 72.26 | 0.12 | Japan | Basic Mate- | 1.107804418e+10 |
| | | | | | | | | | | | rials | |
| Nan Ya Plastics Corp | False | 7347173061 | 0 | 0.0 | 0 | 0.0 | 88.91 | 73.74 | 0.01 | Taiwan | Basic Mate- | 1.123254548e+10 |
| | | | | | | | | | | | rials | |
| Outokumpu Oyj | False | 6434000000 | 0 | 0.0 | 0 | 0.0 | 90.99 | 85.05 | -0.02 | Finland | Basic Mate- | 1552540291 |
| | | | | | | | | | | | rials | |
| Kloeckner & Co SE | False | 6617536000 | 0 | 0.0 | 0 | 0.0 | 66.24 | 64.93 | 0.0 | Germany | Basic Mate- | 523706314.4 |
| | | | | | | | | | | | rials | |
| Korea Zinc Inc | False | 6685451942 | 0 | 0.0 | 0 | 0.0 | 63.61 | 55.46 | 0.06 | Korea; Re- | Basic Mate- | 7476360809 |
| | | | | | | | | | | public (S. | rials | |
| | | | | | | | | | | Korea) | | |
| Anglo American Plat- | False | 6227318983 | 0 | 0.0 | 0 | 0.0 | 80.74 | 75.1 | 0.1 | South Africa | Basic Mate- | 8455173398 |
| inum Ltd | | | | | | | | | | | rials | |

| Company | Aligned | Total | Aligned | Aligned | Eligible | Eligible | Е | ESG | Pretax | Country | TRBC | Market |
|-----------------------|---------|------------|---------|---------|----------|----------|-------|-------|--------|---------------|-------------|-----------------|
| Name | Flag | Revenue | Revenue | Revenue | Revenue | Revenue | Score | Score | ROA | | Economic | Сар |
| | | | | Percent | | Percent | | | | | Sector | |
| | | | | | | | | | | | Name | |
| Resonac Holdings | False | 8093820907 | 0 | 0.0 | 0 | 0.0 | 80.12 | 75.67 | -0.01 | Japan | Basic Mate- | 4010063165 |
| Corp | | | | | | | | | | | rials | |
| Tosoh Corp | False | 6247961730 | 0 | 0.0 | 0 | 0.0 | 60.75 | 44.67 | 0.08 | Japan | Basic Mate- | 3849841703 |
| | | | | | | | | | | | rials | |
| Toyo Seikan Group | False | 5895138652 | 0 | 0.0 | 0 | 0.0 | 44.08 | 49.15 | 0.03 | Japan | Basic Mate- | 2523898349 |
| Holdings Ltd | | | | | | | | | | | rials | |
| Albemarle Corp | False | 7821102972 | 0 | 0.0 | 0 | 0.0 | 63.58 | 72.46 | 0.01 | United States | Basic Mate- | 1.054690827e+10 |
| | | | | | | | | | | of America | rials | |
| Avery Dennison Corp | False | 7840203847 | 0 | 0.0 | 0 | 0.0 | 83.17 | 74.16 | 0.09 | United States | Basic Mate- | 1.629981812e+10 |
| | | | | | | | | | | of America | rials | |
| CF Industries Hold- | False | 5665125700 | 0 | 0.0 | 0 | 0.0 | 43.75 | 62.76 | 0.16 | United States | Basic Mate- | 1.183915513e+10 |
| ings Inc | | | | | | | | | | of America | rials | |
| Eastman Chemical Co | False | 8447723940 | 0 | 0.0 | 0 | 0.0 | 82.16 | 83.27 | 0.07 | United States | Basic Mate- | 1.064092367e+10 |
| | | | | | | | | | | of America | rials | |
| First Quantum Miner- | False | 5505823040 | 0 | 0.0 | 0 | 0.0 | 81.43 | 77.09 | -0.02 | Canada | Basic Mate- | 1.073207327e+10 |
| als Ltd | | | | | | | | | | | rials | |
| Martin Marietta Mate- | False | 6218752619 | 0 | 0.0 | 0 | 0.0 | 19.97 | 43.48 | 0.1 | United States | Basic Mate- | 3.13413259e+10 |
| rials Inc | | | | | | | | | | of America | rials | |

| Company | Aligned | Total | Aligned | Aligned | Eligible | Eligible | Е | ESG | Pretax | Country | TRBC | Market |
|-----------------------|---------|------------|---------|---------|----------|----------|-------|-------|--------|---------------|-------------|-----------------|
| Name | Flag | Revenue | Revenue | Revenue | Revenue | Revenue | Score | Score | ROA | | Economic | Сар |
| | | | | Percent | | Percent | | | | | Sector | |
| | | | | | | | | | | | Name | |
| O-I Glass Inc | False | 6388698360 | 0 | 0.0 | 0 | 0.0 | 66.51 | 60.27 | 0.01 | United States | Basic Mate- | 1622047910 |
| | | | | | | | | | | of America | rials | |
| Olin Corp | False | 6147329814 | 0 | 0.0 | 0 | 0.0 | 51.5 | 63.61 | 0.07 | United States | Basic Mate- | 5273554741 |
| | | | | | | | | | | of America | rials | |
| Packaging Corp of | False | 7218103369 | 0 | 0.0 | 0 | 0.0 | 72.76 | 68.72 | 0.12 | United States | Basic Mate- | 1.526884419e+10 |
| America | | | | | | | | | | of America | rials | |
| RPM International Inc | False | 6778135568 | 0 | 0.0 | 0 | 0.0 | 74.56 | 63.48 | 0.1 | United States | Basic Mate- | 1.305462861e+10 |
| | | | | | | | | | | of America | rials | |
| Silgan Holdings Inc | False | 5463081932 | 0 | 0.0 | 0 | 0.0 | 20.33 | 25.21 | 0.06 | United States | Basic Mate- | 4335247730 |
| | | | | | | | | | | of America | rials | |
| Ufp Industries Inc | False | 6549479309 | 0 | 0.0 | 0 | 0.0 | 39.95 | 44.29 | 0.17 | United States | Basic Mate- | 6668608787 |
| | | | | | | | | | | of America | rials | |
| West Fraser Timber | False | 5997351430 | 0 | 0.0 | 0 | 0.0 | 85.25 | 76.1 | -0.02 | Canada | Basic Mate- | 5744281214 |
| Co Ltd | | | | | | | | | | | rials | |
| PETRONAS Chemi- | False | 5602994172 | 0 | 0.0 | 0 | 0.0 | 53.52 | 67.89 | 0.04 | Malaysia | Basic Mate- | 9603500836 |
| cals Group Bhd | | | | | | | | | | | rials | |
| Satellite Chemical Co | False | 5117300481 | 0 | 0.0 | 0 | 0.0 | 50.32 | 49.76 | 0.09 | China | Basic Mate- | 7609673141 |
| Ltd | | | | | | | | | | | rials | |

| Company | Aligned | Total | Aligned | Aligned | Eligible | Eligible | Е | ESG | Pretax | Country | TRBC | Market |
|--------------------|---------|------------|---------|---------|----------|----------|-------|-------|--------|--------------|-----------|-----------------|
| Name | Flag | Revenue | Revenue | Revenue | Revenue | Revenue | Score | Score | ROA | | Economic | Сар |
| | | | | Percent | | Percent | | | | | Sector | |
| | | | | | | | | | | | Name | |
| ANTA Sports Prod- | False | 7933263487 | 0 | 0.0 | 0 | 0.0 | 53.99 | 62.43 | 0.19 | China | Consumer | 2.533343474e+10 |
| ucts Ltd | | | | | | | | | | | Cyclicals | |
| Titan Company Ltd | False | 5683103479 | 0 | 0.0 | 0 | 0.0 | 46.01 | 53.99 | 0.16 | India | Consumer | 3.145706578e+10 |
| | | | | | | | | | | | Cyclicals | |
| Grupo Casas Bahia | False | 5080320421 | 0 | 0.0 | 0 | 0.0 | 73.75 | 67.89 | -0.12 | Brazil | Consumer | 92027277.4 |
| SA | | | | | | | | | | | Cyclicals | |
| Accor SA | False | 5056000000 | 0 | 0.0 | 0 | 0.0 | 72.86 | 78.5 | 0.06 | France | Consumer | 9589354140 |
| | | | | | | | | | | | Cyclicals | |
| Vistry Group PLC | False | 5542849584 | 0 | 0.0 | 0 | 0.0 | 46.91 | 55.6 | 0.05 | United King- | Consumer | 5329162905 |
| | | | | | | | | | | dom | Cyclicals | |
| D'Ieteren Group SA | False | 7983600000 | 0 | 0.0 | 0 | 0.0 | 72.39 | 71.46 | 0.09 | Belgium | Consumer | 1.123648933e+10 |
| | | | | | | | | | | | Cyclicals | |
| Dentsu Group Inc | False | 8161764075 | 0 | 0.0 | 0 | 0.0 | 56.54 | 80.23 | 0.01 | Japan | Consumer | 6378703993 |
| | | | | | | | | | | | Cyclicals | |
| Haseko Corp | False | 6743285381 | 0 | 0.0 | 0 | 0.0 | 63.7 | 54.36 | 0.06 | Japan | Consumer | 3153201174 |
| | | | | | | | | | | | Cyclicals | |
| Bandai Namco Hold- | False | 6486932811 | 0 | 0.0 | 0 | 0.0 | 65.75 | 64.99 | 0.15 | Japan | Consumer | 1.240453853e+10 |
| ings Inc | | | | | | | | | | | Cyclicals | |

| Company | Aligned | Total | Aligned | Aligned | Eligible | Eligible | Е | ESG | Pretax | Country | TRBC | Market |
|----------------------|---------|------------|---------|---------|----------|----------|-------|-------|--------|--------------|-----------|-----------------|
| Name | Flag | Revenue | Revenue | Revenue | Revenue | Revenue | Score | Score | ROA | | Economic | Сар |
| | | | | Percent | | Percent | | | | | Sector | |
| | | | | | | | | | | | Name | |
| Entain PLC | False | 5543388766 | 0 | 0.0 | 0 | 0.0 | 69.91 | 81.05 | -0.09 | United King- | Consumer | 5115720500 |
| | | | | | | | | | | dom | Cyclicals | |
| Next PLC | False | 6369201340 | 0 | 0.0 | 0 | 0.0 | 79.78 | 73.01 | 0.23 | United King- | Consumer | 1.360400286e+10 |
| | | | | | | | | | | dom | Cyclicals | |
| Pou Chen Corp | False | 7068191183 | 0 | 0.0 | 0 | 0.0 | 62.39 | 74.31 | 0.06 | Taiwan | Consumer | 2911509668 |
| | | | | | | | | | | | Cyclicals | |
| Swatch Group AG | False | 8286288800 | 0 | 0.0 | 0 | 0.0 | 90.98 | 61.27 | 0.08 | Switzerland | Consumer | 1.011002164e+10 |
| | | | | | | | | | | | Cyclicals | |
| Toyoda Gosei Co Ltd | False | 6645877603 | 0 | 0.0 | 0 | 0.0 | 75.75 | 60.28 | 0.08 | Japan | Consumer | 2101890847 |
| | | | | | | | | | | | Cyclicals | |
| Sumitomo Rubber In- | False | 7355855276 | 0 | 0.0 | 0 | 0.0 | 68.25 | 52.15 | 0.05 | Japan | Consumer | 2433184487 |
| dustries Ltd | | | | | | | | | | | Cyclicals | |
| Nitori Holdings Co | False | 5345638142 | 0 | 0.0 | 0 | 0.0 | 60.46 | 62.1 | 0.1 | Japan | Consumer | 1.145184241e+10 |
| Ltd | | | | | | | | | | | Cyclicals | |
| Dogus Otomotiv | False | 4989380453 | 0 | 0.0 | 0 | 0.0 | 80.96 | 83.59 | 0.41 | Turkey | Consumer | 1669696899 |
| Servis ve Ticaret AS | | | | | | | | | | | Cyclicals | |
| Yokohama Rubber Co | False | 6345154309 | 0 | 0.0 | 0 | 0.0 | 87.23 | 64.58 | 0.08 | Japan | Consumer | 3307050063 |
| Ltd | | | | | | | | | | | Cyclicals | |
| Company | Aligned | Total | Aligned | Aligned | Eligible | Eligible | Е | ESG | Pretax | Country | TRBC | Market |
|----------------------|---------|------------|---------|---------|----------|----------|-------|-------|--------|---------------|-----------|-----------------|
| Name | Flag | Revenue | Revenue | Revenue | Revenue | Revenue | Score | Score | ROA | | Economic | Сар |
| | | | | Percent | | Percent | | | | | Sector | |
| | | | | | | | | | | | Name | |
| Yue Yuen Industrial | False | 7179525160 | 0 | 0.0 | 0 | 0.0 | 49.91 | 49.7 | 0.05 | Hong Kong | Consumer | 2522052613 |
| (Holdings) Ltd | | | | | | | | | | | Cyclicals | |
| American Eagle Out- | False | 4905092886 | 0 | 0.0 | 0 | 0.0 | 82.38 | 58.99 | 0.07 | United States | Consumer | 3812990561 |
| fitters Inc | | | | | | | | | | of America | Cyclicals | |
| Sirius XM Holdings | False | 8326885370 | 0 | 0.0 | 0 | 0.0 | 17.53 | 53.71 | 0.15 | United States | Consumer | 1.308551132e+10 |
| Inc | | | | | | | | | | of America | Cyclicals | |
| Tapestry Inc | False | 6217871551 | 0 | 0.0 | 0 | 0.0 | 71.69 | 72.66 | 0.16 | United States | Consumer | 9249114791 |
| | | | | | | | | | | of America | Cyclicals | |
| Dillard's Inc | False | 6271332590 | 0 | 0.0 | 0 | 0.0 | 22.81 | 24.04 | 0.27 | United States | Consumer | 6974881885 |
| | | | | | | | | | | of America | Cyclicals | |
| HanesBrands Inc | False | 5004052130 | 0 | 0.0 | 0 | 0.0 | 76.06 | 71.79 | -0.0 | United States | Consumer | 1663372156 |
| | | | | | | | | | | of America | Cyclicals | |
| Hyatt Hotels Corp | False | 6209559580 | 0 | 0.0 | 0 | 0.0 | 70.42 | 59.48 | 0.02 | United States | Consumer | 1.437309284e+10 |
| | | | | | | | | | | of America | Cyclicals | |
| Interpublic Group of | False | 8713786794 | 0 | 0.0 | 0 | 0.0 | 76.93 | 81.34 | 0.07 | United States | Consumer | 1.018140692e+10 |
| Companies Inc | | | | | | | | | | of America | Cyclicals | |
| Linamar Corp | False | 6895177199 | 0 | 0.0 | 0 | 0.0 | 62.84 | 47.53 | 0.08 | Canada | Consumer | 2780481043 |
| | | | | | | | | | | | Cyclicals | |

| Company | Aligned | Total | Aligned | Aligned | Eligible | Eligible | Е | ESG | Pretax | Country | TRBC | Market |
|--------------------|---------|------------|---------|---------|----------|----------|-------|-------|--------|---------------|-----------|-----------------|
| Name | Flag | Revenue | Revenue | Revenue | Revenue | Revenue | Score | Score | ROA | | Economic | Сар |
| | | | | Percent | | Percent | | | | | Sector | |
| | | | | | | | | | | | Name | |
| Bath & Body Works | False | 6843164420 | 0 | 0.0 | 0 | 0.0 | 68.4 | 59.17 | 0.19 | United States | Consumer | 7643033740 |
| Inc | | | | | | | | | | of America | Cyclicals | |
| Levi Strauss & Co | False | 5733828422 | 0 | 0.0 | 0 | 0.0 | 81.09 | 66.39 | 0.04 | United States | Consumer | 6965260716 |
| | | | | | | | | | | of America | Cyclicals | |
| Mattel Inc | False | 5058792435 | 0 | 0.0 | 0 | 0.0 | 63.47 | 79.3 | 0.07 | United States | Consumer | 5294351986 |
| | | | | | | | | | | of America | Cyclicals | |
| Newell Brands Inc | False | 7411004240 | 0 | 0.0 | 0 | 0.0 | 57.67 | 72.33 | -0.04 | United States | Consumer | 2368012070 |
| | | | | | | | | | | of America | Cyclicals | |
| ODP Corp | False | 7023114040 | 0 | 0.0 | 0 | 0.0 | 48.76 | 66.66 | 0.05 | United States | Consumer | 1305333678 |
| | | | | | | | | | | of America | Cyclicals | |
| PENN Entertainment | False | 5844945740 | 0 | 0.0 | 0 | 0.0 | 29.64 | 51.61 | -0.03 | United States | Consumer | 2876721069 |
| Inc | | | | | | | | | | of America | Cyclicals | |
| Pool Corp | False | 5034223856 | 0 | 0.0 | 0 | 0.0 | 18.61 | 50.58 | 0.2 | United States | Consumer | 1.154174774e+10 |
| | | | | | | | | | | of America | Cyclicals | |
| PVH Corp | False | 8295460703 | 0 | 0.0 | 0 | 0.0 | 70.2 | 82.07 | 0.07 | United States | Consumer | 5501803254 |
| | | | | | | | | | | of America | Cyclicals | |
| Ralph Lauren Corp | False | 6132972364 | 0 | 0.0 | 0 | 0.0 | 81.36 | 80.55 | 0.12 | United States | Consumer | 1.043182506e+10 |
| | | | | | | | | | | of America | Cyclicals | |

| Company | Aligned | Total | Aligned | Aligned | Eligible | Eligible | Е | ESG | Pretax | Country | TRBC | Market |
|----------------------|---------|------------|---------|---------|----------|----------|-------|-------|--------|---------------|-----------|-----------------|
| Name | Flag | Revenue | Revenue | Revenue | Revenue | Revenue | Score | Score | ROA | | Economic | Сар |
| | | | | Percent | | Percent | | | | | Sector | |
| | | | | | | | | | | | Name | |
| Signet Jewelers Ltd | False | 6472760793 | 0 | 0.0 | 0 | 0.0 | 50.57 | 64.08 | 0.1 | Bermuda | Consumer | 3602955156 |
| | | | | | | | | | | | Cyclicals | |
| Rush Enterprises Inc | False | 7327766171 | 0 | 0.0 | 0 | 0.0 | 43.52 | 36.9 | 0.11 | United States | Consumer | 3218796981 |
| | | | | | | | | | | of America | Cyclicals | |
| Skechers USA Inc | False | 7653885349 | 0 | 0.0 | 0 | 0.0 | 14.0 | 33.14 | 0.11 | United States | Consumer | 9531975095 |
| | | | | | | | | | | of America | Cyclicals | |
| Urban Outfitters Inc | False | 4832741687 | 0 | 0.0 | 0 | 0.0 | 63.02 | 53.62 | 0.1 | United States | Consumer | 3996843934 |
| | | | | | | | | | | of America | Cyclicals | |
| Williams-Sonoma Inc | False | 7040084953 | 0 | 0.0 | 0 | 0.0 | 80.18 | 79.67 | 0.26 | United States | Consumer | 1.870401854e+10 |
| | | | | | | | | | | of America | Cyclicals | |
| Wynn Resorts Ltd | False | 6463197797 | 0 | 0.0 | 0 | 0.0 | 76.64 | 68.41 | 0.02 | United States | Consumer | 8819988181 |
| | | | | | | | | | | of America | Cyclicals | |
| Yum! Brands Inc | False | 6541264210 | 0 | 0.0 | 0 | 0.0 | 86.94 | 79.74 | 0.3 | United States | Consumer | 3.390910364e+10 |
| | | | | | | | | | | of America | Cyclicals | |
| Foot Locker Inc | False | 7452431590 | 0 | 0.0 | 0 | 0.0 | 37.18 | 54.49 | -0.06 | United States | Consumer | 2146927000 |
| | | | | | | | | | | of America | Cyclicals | |
| Magazine Luiza SA | False | 6788473246 | 0 | 0.0 | 0 | 0.0 | 53.24 | 34.85 | -0.05 | Brazil | Consumer | 1731308445 |
| | | | | | | | | | | | Cyclicals | |

| Company | Aligned | Total | Aligned | Aligned | Eligible | Eligible | Е | ESG | Pretax | Country | TRBC | Market |
|--------------------|---------|------------|---------|---------|----------|----------|-------|-------|--------|---------------|-----------|-----------------|
| Name | Flag | Revenue | Revenue | Revenue | Revenue | Revenue | Score | Score | ROA | | Economic | Сар |
| | | | | Percent | | Percent | | | | | Sector | |
| | | | | | | | | | | | Name | |
| Prada SpA | False | 4848760000 | 0 | 0.0 | 0 | 0.0 | 54.01 | 47.28 | 0.13 | Italy | Consumer | 1.688931538e+10 |
| | | | | | | | | | | | Cyclicals | |
| Capri Holdings Ltd | False | 4786454150 | 0 | 0.0 | 0 | 0.0 | 70.69 | 67.75 | -0.04 | United King- | Consumer | 3830207918 |
| | | | | | | | | | | dom | Cyclicals | |
| Hankook Tire & | False | 6244265296 | 0 | 0.0 | 0 | 0.0 | 76.06 | 72.39 | 0.09 | Korea; Re- | Consumer | 3497663664 |
| Technology Co Ltd | | | | | | | | | | public (S. | Cyclicals | |
| | | | | | | | | | | Korea) | | |
| Norwegian Cruise | False | 8285986701 | 0 | 0.0 | 0 | 0.0 | 79.62 | 74.7 | 0.01 | United States | Consumer | 7683106284 |
| Line Holdings Ltd | | | | | | | | | | of America | Cyclicals | |
| Taylor Morrison | False | 6786326715 | 0 | 0.0 | 0 | 0.0 | 59.41 | 65.6 | 0.12 | United States | Consumer | 5918602272 |
| Home Corp | | | | | | | | | | of America | Cyclicals | |
| Fnac Darty SA | False | 7887300000 | 0 | 0.0 | 0 | 0.0 | 56.24 | 59.0 | -0.01 | France | Consumer | 848212717.7 |
| | | | | | | | | | | | Cyclicals | |
| BRP Inc | False | 6788071432 | 0 | 0.0 | 0 | 0.0 | 58.83 | 71.09 | 0.14 | Canada | Consumer | 4709421434 |
| | | | | | | | | | | | Cyclicals | |
| Elior Group SA | False | 5868000000 | 0 | 0.0 | 0 | 0.0 | 87.05 | 79.41 | -0.04 | France | Consumer | 732709395.5 |
| | | | | | | | | | | | Cyclicals | |

| Company | Aligned | Total | Aligned | Aligned | Eligible | Eligible | Е | ESG | Pretax | Country | TRBC | Market |
|------------------------|---------|------------|---------|---------|----------|----------|-------|-------|--------|---------------|-----------|-----------------|
| Name | Flag | Revenue | Revenue | Revenue | Revenue | Revenue | Score | Score | ROA | | Economic | Сар |
| | | | | Percent | | Percent | | | | | Sector | |
| | | | | | | | | | | | Name | |
| HL Mando Corp | False | 5923821002 | 0 | 0.0 | 0 | 0.0 | 57.43 | 60.51 | 0.04 | Korea; Re- | Consumer | 1299211201 |
| | | | | | | | | | | public (S. | Cyclicals | |
| | | | | | | | | | | Korea) | | |
| Restaurant Brands In- | False | 6662662250 | 0 | 0.0 | 0 | 0.0 | 77.16 | 67.37 | 0.06 | Canada | Consumer | 2.118514569e+10 |
| ternational Inc | | | | | | | | | | | Cyclicals | |
| Ferrari NV | False | 6125629000 | 0 | 0.0 | 0 | 0.0 | 71.6 | 65.91 | 0.2 | Italy | Consumer | 7.7259122e+10 |
| | | | | | | | | | | | Cyclicals | |
| GMS Inc | False | 5102294815 | 0 | 0.0 | 0 | 0.0 | 19.62 | 36.16 | 0.11 | United States | Consumer | 3187459732 |
| | | | | | | | | | | of America | Cyclicals | |
| Camping World Hold- | False | 5666655342 | 0 | 0.0 | 0 | 0.0 | 12.5 | 25.94 | 0.01 | United States | Consumer | 1658075057 |
| ings Inc | | | | | | | | | | of America | Cyclicals | |
| Haidilao International | False | 5272268425 | 0 | 0.0 | 0 | 0.0 | 71.7 | 61.68 | 0.25 | China | Consumer | 9112583358 |
| Holding Ltd | | | | | | | | | | | Cyclicals | |
| Central Retail Corpo- | False | 5989215008 | 0 | 0.0 | 0 | 0.0 | 50.61 | 58.44 | 0.04 | Thailand | Consumer | 4979915682 |
| ration PCL | | | | | | | | | | | Cyclicals | |
| Warner Music Group | False | 5898196800 | 0 | 0.0 | 0 | 0.0 | 46.19 | 43.69 | 0.07 | United States | Consumer | 1.467886305e+10 |
| Corp | | | | | | | | | | of America | Cyclicals | |

| Company | Aligned | Total | Aligned | Aligned | Eligible | Eligible | Е | ESG | Pretax | Country | TRBC | Market |
|---------------------|---------|------------|---------|---------|----------|----------|-------|-------|--------|---------------|-----------|-----------------|
| Name | Flag | Revenue | Revenue | Revenue | Revenue | Revenue | Score | Score | ROA | | Economic | Сар |
| | | | | Percent | | Percent | | | | | Sector | |
| | | | | | | | | | | | Name | |
| Petco Health and | False | 5721341401 | 0 | 0.0 | 0 | 0.0 | 60.2 | 41.41 | -0.22 | United States | Consumer | 977327316.9 |
| Wellness Company | | | | | | | | | | of America | Cyclicals | |
| Inc | | | | | | | | | | | | |
| Trip.com Group Ltd | False | 6043102749 | 0 | 0.0 | 0 | 0.0 | 40.48 | 31.5 | 0.05 | Singapore | Consumer | 3.175719976e+10 |
| | | | | | | | | | | | Cyclicals | |
| Pepco Group NV | False | 6027885000 | 0 | 0.0 | 0 | 0.0 | 26.3 | 36.74 | 0.03 | United King- | Consumer | 2759341836 |
| | | | | | | | | | | dom | Cyclicals | |
| Victoria's Secret & | False | 5621504591 | 0 | 0.0 | 0 | 0.0 | 4.06 | 31.04 | 0.03 | United States | Consumer | 1363385467 |
| Со | | | | | | | | | | of America | Cyclicals | |
| MatsukiyoCocokara | False | 6278665106 | 0 | 0.0 | 0 | 0.0 | 31.89 | 44.18 | 0.12 | Japan | Consumer | 6055091711 |
| & Co | | | | | | | | | | | Non- | |
| | | | | | | | | | | | Cyclicals | |
| Henan Shuanghui In- | False | 7498121668 | 0 | 0.0 | 0 | 0.0 | 78.54 | 58.04 | 0.18 | China | Consumer | 1.036101221e+10 |
| vestment & Develop- | | | | | | | | | | | Non- | |
| ment Co Ltd | | | | | | | | | | | Cyclicals | |
| Hindustan Unilever | False | 6899852782 | 0 | 0.0 | 0 | 0.0 | 76.98 | 82.84 | 0.18 | India | Consumer | 6.764699507e+10 |
| Ltd | | | | | | | | | | | Non- | |
| | | | | | | | | | | | Cyclicals | |

| Company | Aligned | Total | Aligned | Aligned | Eligible | Eligible | Е | ESG | Pretax | Country | TRBC | Market |
|----------------------|---------|------------|---------|---------|----------|----------|-------|-------|--------|-----------|-----------|-----------------|
| Name | Flag | Revenue | Revenue | Revenue | Revenue | Revenue | Score | Score | ROA | | Economic | Сар |
| | | | | Percent | | Percent | | | | | Sector | |
| | | | | | | | | | | | Name | |
| ITC Ltd | False | 8069346102 | 0 | 0.0 | 0 | 0.0 | 96.71 | 83.68 | 0.31 | India | Consumer | 6.298087952e+10 |
| | | | | | | | | | | | Non- | |
| | | | | | | | | | | | Cyclicals | |
| Axfood AB | False | 7138572552 | 0 | 0.0 | 0 | 0.0 | 86.22 | 67.6 | 0.1 | Sweden | Consumer | 4959196759 |
| | | | | | | | | | | | Non- | |
| | | | | | | | | | | | Cyclicals | |
| Minerva SA | False | 5154710765 | 0 | 0.0 | 0 | 0.0 | 61.24 | 45.99 | 0.01 | Brazil | Consumer | 699571534.2 |
| | | | | | | | | | | | Non- | |
| | | | | | | | | | | | Cyclicals | |
| Meiji Holdings Co | False | 6836507086 | 0 | 0.0 | 0 | 0.0 | 80.92 | 69.34 | 0.07 | Japan | Consumer | 6188193513 |
| Ltd | | | | | | | | | | | Non- | |
| | | | | | | | | | | | Cyclicals | |
| Savencia SA | False | 6791000000 | 0 | 0.0 | 0 | 0.0 | 40.32 | 40.2 | 0.03 | France | Consumer | 707396923 |
| | | | | | | | | | | | Non- | |
| | | | | | | | | | | | Cyclicals | |
| China Resources Beer | False | 4942661645 | 0 | 0.0 | 0 | 0.0 | 51.2 | 48.6 | 0.11 | Hong Kong | Consumer | 1.064931455e+10 |
| Holdings Co Ltd | | | | | | | | | | | Non- | |
| | | | | | | | | | | | Cyclicals | |

| Company | Aligned | Total | Aligned | Aligned | Eligible | Eligible | Е | ESG | Pretax | Country | TRBC | Market |
|-----------------------|---------|------------|---------|---------|----------|----------|-------|-------|--------|--------------|-----------|-----------------|
| Name | Flag | Revenue | Revenue | Revenue | Revenue | Revenue | Score | Score | ROA | | Economic | Сар |
| | | | | Percent | | Percent | | | | | Sector | |
| | | | | | | | | | | | Name | |
| Anadolu Efes Biraci- | False | 5568811181 | 0 | 0.0 | 0 | 0.0 | 70.72 | 79.37 | 0.14 | Turkey | Consumer | 4800008928 |
| lik ve Malt Sanayii | | | | | | | | | | | Non- | |
| AS | | | | | | | | | | | Cyclicals | |
| Far Eastern New Cen- | False | 7533595054 | 0 | 0.0 | 0 | 0.0 | 63.28 | 70.35 | 0.03 | Taiwan | Consumer | 5720068110 |
| tury Corp | | | | | | | | | | | Non- | |
| | | | | | | | | | | | Cyclicals | |
| Pick N Pay Stores Ltd | False | 5625242176 | 0 | 0.0 | 0 | 0.0 | 63.91 | 70.58 | -0.09 | South Africa | Consumer | 702135922.2 |
| | | | | | | | | | | | Non- | |
| | | | | | | | | | | | Cyclicals | |
| Lawson Inc | False | 6772563711 | 0 | 0.0 | 0 | 0.0 | 61.15 | 61.66 | 0.03 | Japan | Consumer | 5976766847 |
| | | | | | | | | | | | Non- | |
| | | | | | | | | | | | Cyclicals | |
| Chocoladefabriken | False | 5434684427 | 0 | 0.0 | 0 | 0.0 | 85.97 | 72.89 | 0.1 | Switzerland | Consumer | 2.522407647e+10 |
| Lindt & Spruengli | | | | | | | | | | | Non- | |
| AG | | | | | | | | | | | Cyclicals | |
| Nisshin Seifun Group | False | 5370259171 | 0 | 0.0 | 0 | 0.0 | 75.04 | 66.78 | 0.06 | Japan | Consumer | 3251187216 |
| Inc | | | | | | | | | | | Non- | |
| | | | | | | | | | | | Cyclicals | |

| Company | Aligned | Total | Aligned | Aligned | Eligible | Eligible | Е | ESG | Pretax | Country | TRBC | Market |
|--------------------|---------|------------|---------|---------|----------|----------|-------|-------|--------|---------|-----------|-----------------|
| Name | Flag | Revenue | Revenue | Revenue | Revenue | Revenue | Score | Score | ROA | | Economic | Сар |
| | | | | Percent | | Percent | | | | | Sector | |
| | | | | | | | | | | | Name | |
| Natura &Co Holding | False | 5173423761 | 0 | 0.0 | 0 | 0.0 | 52.86 | 70.14 | -0.05 | Brazil | Consumer | 3736335898 |
| SA | | | | | | | | | | | Non- | |
| | | | | | | | | | | | Cyclicals | |
| NH Foods Ltd | False | 8097980574 | 0 | 0.0 | 0 | 0.0 | 71.82 | 65.22 | 0.04 | Japan | Consumer | 2896388901 |
| | | | | | | | | | | | Non- | |
| | | | | | | | | | | | Cyclicals | |
| Nissui Corp | False | 5158829734 | 0 | 0.0 | 0 | 0.0 | 68.44 | 48.34 | 0.06 | Japan | Consumer | 1564076156 |
| | | | | | | | | | | | Non- | |
| | | | | | | | | | | | Cyclicals | |
| Mowi ASA | False | 5474800000 | 0 | 0.0 | 0 | 0.0 | 58.71 | 74.06 | 0.11 | Norway | Consumer | 7717018787 |
| | | | | | | | | | | | Non- | |
| | | | | | | | | | | | Cyclicals | |
| Shiseido Co Ltd | False | 6073325163 | 0 | 0.0 | 0 | 0.0 | 70.06 | 80.32 | 0.02 | Japan | Consumer | 1.082993645e+10 |
| | | | | | | | | | | | Non- | |
| | | | | | | | | | | | Cyclicals | |
| Unicharm Corp | False | 5959530542 | 0 | 0.0 | 0 | 0.0 | 62.63 | 73.07 | 0.12 | Japan | Consumer | 1.899928554e+10 |
| | | | | | | | | | | | Non- | |
| | | | | | | | | | | | Cyclicals | |

| Company | Aligned | Total | Aligned | Aligned | Eligible | Eligible | Е | ESG | Pretax | Country | TRBC | Market |
|--------------------|---------|------------|---------|---------|----------|----------|-------|-------|--------|---------------|-----------|-----------------|
| Name | Flag | Revenue | Revenue | Revenue | Revenue | Revenue | Score | Score | ROA | | Economic | Сар |
| | | | | Percent | | Percent | | | | | Sector | |
| | | | | | | | | | | | Name | |
| Coca-Cola Bottlers | False | 5401581751 | 0 | 0.0 | 0 | 0.0 | 53.14 | 69.15 | 0.0 | Japan | Consumer | 2651804417 |
| Japan Holdings Inc | | | | | | | | | | | Non- | |
| | | | | | | | | | | | Cyclicals | |
| Yamazaki Baking Co | False | 7454349732 | 0 | 0.0 | 0 | 0.0 | 13.0 | 8.7 | 0.06 | Japan | Consumer | 4404725839 |
| Ltd | | | | | | | | | | | Non- | |
| | | | | | | | | | | | Cyclicals | |
| Clorox Co | False | 6688975490 | 0 | 0.0 | 0 | 0.0 | 61.98 | 75.76 | 0.04 | United States | Consumer | 1.553212378e+10 |
| | | | | | | | | | | of America | Non- | |
| | | | | | | | | | | | Cyclicals | |
| Campbell Soup Co | False | 8680900210 | 0 | 0.0 | 0 | 0.0 | 73.16 | 71.96 | 0.09 | United States | Consumer | 1.244754954e+10 |
| | | | | | | | | | | of America | Non- | |
| | | | | | | | | | | | Cyclicals | |
| Church & Dwight Co | False | 5495758385 | 0 | 0.0 | 0 | 0.0 | 68.01 | 71.56 | 0.11 | United States | Consumer | 2.335600091e+10 |
| Inc | | | | | | | | | | of America | Non- | |
| | | | | | | | | | | | Cyclicals | |
| Monster Beverage | False | 6809974292 | 0 | 0.0 | 0 | 0.0 | 24.12 | 42.62 | 0.23 | United States | Consumer | 4.855240245e+10 |
| Corp | | | | | | | | | | of America | Non- | |
| | | | | | | | | | | | Cyclicals | |

| Company | Aligned | Total | Aligned | Aligned | Eligible | Eligible | Е | ESG | Pretax | Country | TRBC | Market |
|----------------------|---------|------------|---------|---------|----------|----------|-------|-------|--------|---------------|-----------|-----------------|
| Name | Flag | Revenue | Revenue | Revenue | Revenue | Revenue | Score | Score | ROA | | Economic | Сар |
| | | | | Percent | | Percent | | | | | Sector | |
| | | | | | | | | | | | Name | |
| McCormick & Com- | False | 6241205531 | 0 | 0.0 | 0 | 0.0 | 94.97 | 79.99 | 0.06 | United States | Consumer | 1.760342727e+10 |
| pany Inc | | | | | | | | | | of America | Non- | |
| | | | | | | | | | | | Cyclicals | |
| J M Smucker Co | False | 7536973306 | 0 | 0.0 | 0 | 0.0 | 61.21 | 62.81 | 0.06 | United States | Consumer | 1.10435173e+10 |
| | | | | | | | | | | of America | Non- | |
| | | | | | | | | | | | Cyclicals | |
| GS Retail Co Ltd | False | 8229006015 | 0 | 0.0 | 0 | 0.0 | 19.03 | 19.91 | 0.01 | Korea; Re- | Consumer | 1471386897 |
| | | | | | | | | | | public (S. | Non- | |
| | | | | | | | | | | Korea) | Cyclicals | |
| Post Holdings Inc | False | 7164088281 | 0 | 0.0 | 0 | 0.0 | 61.08 | 49.57 | 0.04 | United States | Consumer | 5951949298 |
| | | | | | | | | | | of America | Non- | |
| | | | | | | | | | | | Cyclicals | |
| Coty Inc | False | 5671289710 | 0 | 0.0 | 0 | 0.0 | 69.83 | 72.97 | 0.06 | United States | Consumer | 8307604930 |
| | | | | | | | | | | of America | Non- | |
| | | | | | | | | | | | Cyclicals | |
| Sprouts Farmers Mar- | False | 6489371646 | 0 | 0.0 | 0 | 0.0 | 43.57 | 50.91 | 0.11 | United States | Consumer | 7612752863 |
| ket Inc | | | | | | | | | | of America | Non- | |
| | | | | | | | | | | | Cyclicals | |

| Company | Aligned | Total | Aligned | Aligned | Eligible | Eligible | Е | ESG | Pretax | Country | TRBC | Market |
|----------------------|---------|------------|---------|---------|----------|----------|-------|-------|--------|---------------|-----------|-----------------|
| Name | Flag | Revenue | Revenue | Revenue | Revenue | Revenue | Score | Score | ROA | | Economic | Сар |
| | | | | Percent | | Percent | | | | | Sector | |
| | | | | | | | | | | | Name | |
| Lamb Weston Hold- | False | 6040968304 | 0 | 0.0 | 0 | 0.0 | 57.72 | 59.67 | 0.15 | United States | Consumer | 1.045270043e+10 |
| ings Inc | | | | | | | | | | of America | Non- | |
| | | | | | | | | | | | Cyclicals | |
| Avenue Supermarts | False | 5645947899 | 0 | 0.0 | 0 | 0.0 | 30.19 | 28.92 | 0.18 | India | Consumer | 3.532097553e+10 |
| Ltd | | | | | | | | | | | Non- | |
| | | | | | | | | | | | Cyclicals | |
| BGF Retail Co Ltd | False | 5792987188 | 0 | 0.0 | 0 | 0.0 | 50.09 | 46.94 | 0.08 | Korea; Re- | Consumer | 1198701950 |
| | | | | | | | | | | public (S. | Non- | |
| | | | | | | | | | | Korea) | Cyclicals | |
| Hellofresh SE | False | 7654000000 | 0 | 0.0 | 0 | 0.0 | 84.06 | 75.95 | 0.03 | Germany | Consumer | 1006237165 |
| | | | | | | | | | | | Non- | |
| | | | | | | | | | | | Cyclicals | |
| Budweiser Brewing | False | 6314256860 | 0 | 0.0 | 0 | 0.0 | 57.34 | 66.89 | 0.08 | Hong Kong | Consumer | 1.553818189e+10 |
| Company APAC Ltd | | | | | | | | | | | Non- | |
| | | | | | | | | | | | Cyclicals | |
| Nongfu Spring Co Ltd | False | 5424979857 | 0 | 0.0 | 0 | 0.0 | 95.12 | 72.27 | 0.35 | China | Consumer | 4.636161125e+10 |
| | | | | | | | | | | | Non- | |
| | | | | | | | | | | | Cyclicals | |

| Company | Aligned | Total | Aligned | Aligned | Eligible | Eligible | Е | ESG | Pretax | Country | TRBC | Market |
|-----------------------|---------|------------|---------|---------|----------|----------|-------|-------|--------|---------------|-----------|-----------------|
| Name | Flag | Revenue | Revenue | Revenue | Revenue | Revenue | Score | Score | ROA | | Economic | Сар |
| | | | | Percent | | Percent | | | | | Sector | |
| | | | | | | | | | | | Name | |
| JD Health Interna- | False | 6777363768 | 0 | 0.0 | 0 | 0.0 | 68.29 | 50.23 | 0.04 | China | Consumer | 8521863456 |
| tional Inc | | | | | | | | | | | Non- | |
| | | | | | | | | | | | Cyclicals | |
| Adani Wilmar Ltd | False | 5732047648 | 0 | 0.0 | 0 | 0.0 | 55.08 | 47.44 | 0.01 | India | Consumer | 4791087344 |
| | | | | | | | | | | | Non- | |
| | | | | | | | | | | | Cyclicals | |
| Bangchak Sriracha | False | 6018373250 | 0 | 0.0 | 0 | 0.0 | 37.03 | 55.86 | 0.03 | Thailand | Energy | 751794588.4 |
| PCL | | | | | | | | | | | | |
| PTT Exploration and | False | 7825637623 | 0 | 0.0 | 0 | 0.0 | 54.4 | 62.83 | 0.16 | Thailand | Energy | 1.523053493e+10 |
| Production PCL | | | | | | | | | | | | |
| IRPC PCL | False | 8201114596 | 0 | 0.0 | 0 | 0.0 | 82.22 | 76.37 | -0.02 | Thailand | Energy | 861826189.7 |
| Petronet LNG Ltd | False | 5876888773 | 0 | 0.0 | 0 | 0.0 | 39.78 | 38.57 | 0.2 | India | Energy | 5583893551 |
| APA Corp (US) | False | 6939903960 | 0 | 0.0 | 0 | 0.0 | 38.48 | 58.55 | 0.2 | United States | Energy | 1.020051116e+10 |
| | | | | | | | | | | of America | | |
| Coterra Energy Inc | False | 5153365530 | 0 | 0.0 | 0 | 0.0 | 33.83 | 33.96 | 0.1 | United States | Energy | 1.849329734e+10 |
| | | | | | | | | | | of America | | |
| Cheniere Energy Part- | False | 8385077640 | 0 | 0.0 | 0 | 0.0 | 71.32 | 50.08 | 0.23 | United States | Energy | 2.303040971e+10 |
| ners LP | | | | | | | | | | of America | | |

| Company | Aligned | Total | Aligned | Aligned | Eligible | Eligible | Е | ESG | Pretax | Country | TRBC | Market |
|----------------------|---------|------------|---------|---------|----------|----------|-------|-------|--------|---------------|----------|-----------------|
| Name | Flag | Revenue | Revenue | Revenue | Revenue | Revenue | Score | Score | ROA | | Economic | Сар |
| | | | | Percent | | Percent | | | | | Sector | |
| | | | | | | | | | | | Name | |
| CVR Energy Inc | False | 8186706700 | 0 | 0.0 | 0 | 0.0 | 2.98 | 13.61 | 0.25 | United States | Energy | 2268538040 |
| | | | | | | | | | | of America | | |
| Par Pacific Holdings | False | 7881785732 | 0 | 0.0 | 0 | 0.0 | 19.44 | 25.17 | 0.17 | United States | Energy | 1276062930 |
| Inc | | | | | | | | | | of America | | |
| EQT Corp | False | 5081732308 | 0 | 0.0 | 0 | 0.0 | 34.28 | 41.3 | 0.09 | United States | Energy | 1.506669426e+10 |
| | | | | | | | | | | of America | | |
| Marathon Oil Corp | False | 6110640640 | 0 | 0.0 | 0 | 0.0 | 49.63 | 67.76 | 0.1 | United States | Energy | 1.459646945e+10 |
| | | | | | | | | | | of America | | |
| Pembina Pipeline | False | 5722601143 | 0 | 0.0 | 0 | 0.0 | 61.87 | 72.57 | 0.07 | Canada | Energy | 2.008400401e+10 |
| Corp | | | | | | | | | | | | |
| Southwestern Energy | False | 5402844840 | 0 | 0.0 | 0 | 0.0 | 27.24 | 56.27 | 0.1 | United States | Energy | 6977497900 |
| Со | | | | | | | | | | of America | | |
| Gibson Energy Inc | False | 8171006176 | 0 | 0.0 | 0 | 0.0 | 68.19 | 73.97 | 0.07 | Canada | Energy | 2473875385 |
| Diamondback Energy | False | 8080047840 | 0 | 0.0 | 0 | 0.0 | 50.15 | 61.03 | 0.15 | United States | Energy | 3.338765858e+10 |
| Inc | | | | | | | | | | of America | | |
| PTG Energy PCL | False | 5216434210 | 0 | 0.0 | 0 | 0.0 | 51.71 | 62.85 | 0.03 | Thailand | Energy | 360648970.6 |
| EnLink Midstream | False | 6316996347 | 0 | 0.0 | 0 | 0.0 | 43.49 | 39.38 | 0.05 | United States | Energy | 5752019108 |
| LLC | | | | | | | | | | of America | | |

| Company | Aligned | Total | Aligned | Aligned | Eligible | Eligible | Е | ESG | Pretax | Country | TRBC | Market |
|-----------------------|---------|------------|---------|---------|----------|----------|-------|-------|--------|---------------|------------|-----------------|
| Name | Flag | Revenue | Revenue | Revenue | Revenue | Revenue | Score | Score | ROA | | Economic | Сар |
| | | | | Percent | | Percent | | | | | Sector | |
| | | | | | | | | | | | Name | |
| Star Petroleum Refin- | False | 6414202997 | 0 | 0.0 | 0 | 0.0 | 47.83 | 56.99 | -0.02 | Thailand | Energy | 903322073.5 |
| ing PCL | | | | | | | | | | | | |
| Arko Corp. | False | 8678220390 | 0 | 0.0 | 0 | 0.0 | 10.71 | 11.92 | 0.01 | United States | Energy | 648447742.6 |
| | | | | | | | | | | of America | | |
| Technip Energies NV | False | 6129000000 | 0 | 0.0 | 0 | 0.0 | 95.55 | 81.89 | 0.06 | France | Energy | 4233089695 |
| Chesapeake Energy | False | 5968368070 | 0 | 0.0 | 0 | 0.0 | 42.22 | 54.2 | 0.21 | United States | Energy | 1.003114606e+10 |
| Corp | | | | | | | | | | of America | | |
| CITIC Securities Co | False | 7692694355 | 0 | 0.0 | 0 | 0.0 | 65.25 | 71.06 | 0.02 | China | Financials | 3.175911008e+10 |
| Ltd | | | | | | | | | | | | |
| Sumitomo Mitsui | False | 7048445346 | 0 | 0.0 | 0 | 0.0 | 90.5 | 63.79 | 0.0 | Japan | Financials | 1.564445876e+10 |
| Trust Holdings Inc | | | | | | | | | | | | |
| BOC Hong Kong | False | 7700112475 | 0 | 0.0 | 0 | 0.0 | 82.47 | 73.13 | 0.01 | Hong Kong | Financials | 2.905593234e+10 |
| Holdings Ltd | | | | | | | | | | | | |
| Bank of Beijing Co | False | 8703168986 | 0 | 0.0 | 0 | 0.0 | 47.55 | 45.5 | 0.01 | China | Financials | 1.503896107e+10 |
| Ltd | | | | | | | | | | | | |
| Bank of Nanjing Co | False | 5834853216 | 0 | 0.0 | 0 | 0.0 | 34.35 | 59.98 | 0.01 | China | Financials | 1.314682788e+10 |
| Ltd | | | | | | | | | | | | |
| Bank of Ningbo Co | False | 8036603125 | 0 | 0.0 | 0 | 0.0 | 45.37 | 30.89 | 0.01 | China | Financials | 1.82962438e+10 |
| Ltd | | | | | | | | | | | | |

| Company | Aligned | Total | Aligned | Aligned | Eligible | Eligible | Е | ESG | Pretax | Country | TRBC | Market |
|----------------------|---------|------------|---------|---------|----------|----------|-------|-------|--------|--------------|------------|-----------------|
| Name | Flag | Revenue | Revenue | Revenue | Revenue | Revenue | Score | Score | ROA | | Economic | Сар |
| | | | | Percent | | Percent | | | | | Sector | |
| | | | | | | | | | | | Name | |
| Union Bank of India | False | 5854526047 | 0 | 0.0 | 0 | 0.0 | 17.53 | 32.59 | 0.02 | India | Financials | 1.140779871e+10 |
| Ltd | | | | | | | | | | | | |
| Bank of Baroda Ltd | False | 6579634027 | 0 | 0.0 | 0 | 0.0 | 47.48 | 48.96 | 0.02 | India | Financials | 1.422879488e+10 |
| Canara Bank Ltd | False | 6196185315 | 0 | 0.0 | 0 | 0.0 | 43.71 | 32.59 | 0.01 | India | Financials | 1.122590977e+10 |
| Punjab National Bank | False | 5581824354 | 0 | 0.0 | 0 | 0.0 | 31.86 | 15.69 | 0.01 | India | Financials | 1.423421446e+10 |
| Absa Group Ltd | False | 5074842434 | 0 | 0.0 | 0 | 0.0 | 62.44 | 64.78 | 0.02 | South Africa | Financials | 7097980123 |
| Banco BPM SpA | False | 5524935000 | 0 | 0.0 | 0 | 0.0 | 92.15 | 73.55 | 0.01 | Italy | Financials | 9385984808 |
| Banco de Sabadell SA | False | 6103000000 | 0 | 0.0 | 0 | 0.0 | 94.33 | 91.43 | 0.01 | Spain | Financials | 1.033550168e+10 |
| Beazley PLC | False | 5027494421 | 0 | 0.0 | 0 | 0.0 | 53.47 | 66.29 | 0.1 | United King- | Financials | 5243109434 |
| | | | | | | | | | | dom | | |
| Danske Bank A/S | False | 7566439730 | 0 | 0.0 | 0 | 0.0 | 81.19 | 70.5 | 0.01 | Denmark | Financials | 2.372368298e+10 |
| Dnb Bank ASA | False | 7164574048 | 0 | 0.0 | 0 | 0.0 | 88.5 | 68.07 | 0.02 | Norway | Financials | 2.784827851e+10 |
| Fubon Financial | False | 6476650010 | 0 | 0.0 | 0 | 0.0 | 73.77 | 85.5 | 0.01 | Taiwan | Financials | 3.650971484e+10 |
| Holding Co Ltd | | | | | | | | | | | | |
| Investor AB | False | 5250048144 | 0 | 0.0 | 0 | 0.0 | 70.02 | 72.82 | 0.16 | Sweden | Financials | 7.924520523e+10 |
| FirstRand Ltd | False | 6093336785 | 0 | 0.0 | 0 | 0.0 | 80.4 | 67.17 | 0.02 | South Africa | Financials | 2.259749681e+10 |
| Malayan Banking | False | 5855190742 | 0 | 0.0 | 0 | 0.0 | 78.71 | 87.22 | 0.01 | Malaysia | Financials | 2.380288981e+10 |
| Bhd | | | | | | | | | | | | |
| Deutsche Boerse AG | False | 5570800000 | 0 | 0.0 | 0 | 0.0 | 65.3 | 73.13 | 0.01 | Germany | Financials | 3.636179019e+10 |

| Company | Aligned | Total | Aligned | Aligned | Eligible | Eligible | Е | ESG | Pretax | Country | TRBC | Market |
|------------------------|---------|------------|---------|---------|----------|----------|-------|-------|--------|---------------|------------|-----------------|
| Name | Flag | Revenue | Revenue | Revenue | Revenue | Revenue | Score | Score | ROA | | Economic | Сар |
| | | | | Percent | | Percent | | | | | Sector | |
| | | | | | | | | | | | Name | |
| Axis Bank Ltd | False | 6149680041 | 0 | 0.0 | 0 | 0.0 | 59.59 | 78.1 | 0.02 | India | Financials | 4.470452344e+10 |
| Hana Financial Group | False | 7948901194 | 0 | 0.0 | 0 | 0.0 | 70.2 | 86.53 | 0.01 | Korea; Re- | Financials | 1.217730707e+10 |
| Inc | | | | | | | | | | public (S. | | |
| | | | | | | | | | | Korea) | | |
| Raiffeisen Bank Inter- | False | 8659000000 | 0 | 0.0 | 0 | 0.0 | 61.49 | 72.16 | 0.02 | Austria | Financials | 5715141126 |
| national AG | | | | | | | | | | | | |
| SBI Holdings Inc | False | 7499467609 | 0 | 0.0 | 0 | 0.0 | 46.86 | 26.83 | 0.01 | Japan | Financials | 7031974599 |
| Hang Seng Bank Ltd | False | 4798145596 | 0 | 0.0 | 0 | 0.0 | 89.89 | 71.17 | 0.01 | Hong Kong | Financials | 2.287489255e+10 |
| Svenska Handels- | False | 5441266087 | 0 | 0.0 | 0 | 0.0 | 91.98 | 62.51 | 0.01 | Sweden | Financials | 1.792968018e+10 |
| banken AB | | | | | | | | | | | | |
| Skandinaviska En- | False | 7084226269 | 0 | 0.0 | 0 | 0.0 | 87.0 | 69.31 | 0.01 | Sweden | Financials | 2.975065613e+10 |
| skilda Banken AB | | | | | | | | | | | | |
| Standard Bank Group | False | 8644898532 | 0 | 0.0 | 0 | 0.0 | 88.59 | 66.51 | 0.02 | South Africa | Financials | 1.837691672e+10 |
| Ltd | | | | | | | | | | | | |
| Kasikornbank PCL | False | 5062700354 | 0 | 0.0 | 0 | 0.0 | 61.53 | 73.5 | 0.01 | Thailand | Financials | 7705208268 |
| Swedbank AB | False | 6380529401 | 0 | 0.0 | 0 | 0.0 | 81.02 | 74.09 | 0.02 | Sweden | Financials | 2.179495727e+10 |
| Bper Banca SpA | False | 5531316000 | 0 | 0.0 | 0 | 0.0 | 78.29 | 70.84 | 0.01 | Italy | Financials | 7300892644 |
| Hanover Insurance | False | 5519609265 | 0 | 0.0 | 0 | 0.0 | 61.86 | 58.43 | 0.0 | United States | Financials | 4174354579 |
| Group Inc | | | | | | | | | | of America | | |

| Company | Aligned | Total | Aligned | Aligned | Eligible | Eligible | Е | ESG | Pretax | Country | TRBC | Market |
|-----------------------|---------|------------|---------|---------|----------|----------|-------|-------|--------|---------------|------------|-----------------|
| Name | Flag | Revenue | Revenue | Revenue | Revenue | Revenue | Score | Score | ROA | | Economic | Сар |
| | | | | Percent | | Percent | | | | | Sector | |
| | | | | | | | | | | | Name | |
| CME Group Inc | False | 5226728272 | 0 | 0.0 | 0 | 0.0 | 20.12 | 62.16 | 0.03 | United States | Financials | 6.386127492e+10 |
| | | | | | | | | | | of America | | |
| M&T Bank Corp | False | 8288861786 | 0 | 0.0 | 0 | 0.0 | 81.32 | 84.2 | 0.02 | United States | Financials | 2.374617146e+10 |
| | | | | | | | | | | of America | | |
| Franklin Resources | False | 5878150312 | 0 | 0.0 | 0 | 0.0 | 52.3 | 50.0 | 0.05 | United States | Financials | 1.119142242e+10 |
| Inc | | | | | | | | | | of America | | |
| Intercontinental | False | 7788907970 | 0 | 0.0 | 0 | 0.0 | 55.21 | 69.47 | 0.02 | United States | Financials | 7.804903729e+10 |
| Exchange Inc | | | | | | | | | | of America | | |
| KKR & Co Inc | False | 6157536861 | 0 | 0.0 | 0 | 0.0 | 41.22 | 37.83 | 0.02 | United States | Financials | 9.010750499e+10 |
| | | | | | | | | | | of America | | |
| Jefferies Financial | False | 5375967463 | 0 | 0.0 | 0 | 0.0 | 60.42 | 63.33 | 0.01 | United States | Financials | 1.014456359e+10 |
| Group Inc | | | | | | | | | | of America | | |
| National Bank of | False | 7453798180 | 0 | 0.0 | 0 | 0.0 | 83.3 | 65.79 | 0.01 | Canada | Financials | 2.602016297e+10 |
| Canada | | | | | | | | | | | | |
| Northern Trust Corp | False | 6227804233 | 0 | 0.0 | 0 | 0.0 | 73.53 | 71.18 | 0.01 | United States | Financials | 1.674859673e+10 |
| | | | | | | | | | | of America | | |
| Old Republic Interna- | False | 7022982534 | 0 | 0.0 | 0 | 0.0 | 5.43 | 34.78 | 0.03 | United States | Financials | 7796599592 |
| tional Corp | | | | | | | | | | of America | | |

| Company | Aligned | Total | Aligned | Aligned | Eligible | Eligible | Е | ESG | Pretax | Country | TRBC | Market |
|-----------------------|---------|------------|---------|---------|----------|----------|-------|-------|--------|---------------|------------|-----------------|
| Name | Flag | Revenue | Revenue | Revenue | Revenue | Revenue | Score | Score | ROA | | Economic | Сар |
| | | | | Percent | | Percent | | | | | Sector | |
| | | | | | | | | | | | Name | |
| American Financial | False | 6187518440 | 0 | 0.0 | 0 | 0.0 | 16.03 | 40.5 | 0.04 | United States | Financials | 9690955975 |
| Group Inc | | | | | | | | | | of America | | |
| T Rowe Price Group | False | 6166702835 | 0 | 0.0 | 0 | 0.0 | 47.88 | 56.01 | 0.21 | United States | Financials | 2.416463985e+10 |
| Inc | | | | | | | | | | of America | | |
| KeyCorp | False | 5768359370 | 0 | 0.0 | 0 | 0.0 | 56.48 | 72.22 | 0.01 | United States | Financials | 1.314960843e+10 |
| | | | | | | | | | | of America | | |
| Globe Life Inc | False | 5150692181 | 0 | 0.0 | 0 | 0.0 | 42.27 | 56.76 | 0.04 | United States | Financials | 7279402680 |
| | | | | | | | | | | of America | | |
| First American Finan- | False | 5730370745 | 0 | 0.0 | 0 | 0.0 | 19.17 | 41.21 | 0.02 | United States | Financials | 5360248554 |
| cial Corp | | | | | | | | | | of America | | |
| Voya Financial Inc | False | 6805190420 | 0 | 0.0 | 0 | 0.0 | 47.44 | 61.81 | 0.0 | United States | Financials | 6635261725 |
| | | | | | | | | | | of America | | |
| Ally Financial Inc | False | 7487503980 | 0 | 0.0 | 0 | 0.0 | 16.92 | 51.46 | 0.01 | United States | Financials | 1.195192104e+10 |
| | | | | | | | | | | of America | | |
| Citizens Financial | False | 7444562680 | 0 | 0.0 | 0 | 0.0 | 49.85 | 60.89 | 0.01 | United States | Financials | 1.593785985e+10 |
| Group Inc | | | | | | | | | | of America | | |
| ABN Amro Bank NV | False | 8672000000 | 0 | 0.0 | 0 | 0.0 | 88.61 | 67.74 | 0.01 | Netherlands | Financials | 8019506793 |
| Bank of Shanghai Co | False | 6472755720 | 0 | 0.0 | 0 | 0.0 | 57.93 | 60.93 | 0.01 | China | Financials | 1.317442232e+10 |
| Ltd | | | | | | | | | | | | |

| Company | Aligned | Total | Aligned | Aligned | Eligible | Eligible | Е | ESG | Pretax | Country | TRBC | Market |
|-----------------------|---------|------------|---------|---------|----------|----------|-------|-------|--------|---------------|-------------|-----------------|
| Name | Flag | Revenue | Revenue | Revenue | Revenue | Revenue | Score | Score | ROA | | Economic | Сар |
| | | | | Percent | | Percent | | | | | Sector | |
| | | | | | | | | | | | Name | |
| Brighthouse Financial | False | 7754877870 | 0 | 0.0 | 0 | 0.0 | 43.94 | 64.19 | -0.01 | United States | Financials | 2734820793 |
| Inc | | | | | | | | | | of America | | |
| Oscar Health Inc | False | 6056593013 | 0 | 0.0 | 0 | 0.0 | 5.0 | 35.92 | -0.07 | United States | Financials | 3593388535 |
| | | | | | | | | | | of America | | |
| Nu Holdings Ltd | False | 8428900104 | 0 | 0.0 | 0 | 0.0 | 16.84 | 56.48 | 0.04 | Brazil | Financials | 5.860211242e+10 |
| Shanghai Interna- | False | 4973077495 | 0 | 0.0 | 0 | 0.0 | 31.22 | 35.99 | 0.08 | China | Industrials | 1.765040579e+10 |
| tional Port Group Co | | | | | | | | | | | | |
| Ltd | | | | | | | | | | | | |
| Persol Holdings Co | False | 8160632637 | 0 | 0.0 | 0 | 0.0 | 32.66 | 51.52 | 0.1 | Japan | Industrials | 3490189185 |
| Ltd | | | | | | | | | | | | |
| Zoomlion Heavy | False | 6191113234 | 0 | 0.0 | 0 | 0.0 | 66.71 | 52.55 | 0.0 | China | Industrials | 7580476730 |
| Industry Science and | | | | | | | | | | | | |
| Technology Co Ltd | | | | | | | | | | | | |
| China Tourism Group | False | 8041528599 | 0 | 0.0 | 0 | 0.0 | 73.88 | 75.89 | 0.11 | China | Industrials | 1.746618884e+10 |
| Duty Free Corp Ltd | | | | | | | | | | | | |
| Embraer SA | False | 5034594179 | 0 | 0.0 | 0 | 0.0 | 51.6 | 67.24 | 0.01 | Brazil | Industrials | 4994506045 |
| Hanwha Ocean Co | False | 5688316146 | 0 | 0.0 | 0 | 0.0 | 51.47 | 52.85 | -0.01 | Korea; Re- | Industrials | 6114422672 |
| Ltd | | | | | | | | | | public (S. | | |
| | | | | | | | | | | Korea) | | |

| Company | Aligned | Total | Aligned | Aligned | Eligible | Eligible | Е | ESG | Pretax | Country | TRBC | Market |
|----------------------|---------|------------|---------|---------|----------|----------|-------|-------|--------|------------|-------------|-----------------|
| Name | Flag | Revenue | Revenue | Revenue | Revenue | Revenue | Score | Score | ROA | | Economic | Сар |
| | | | | Percent | | Percent | | | | | Sector | |
| | | | | | | | | | | | Name | |
| China Airlines Ltd | False | 5510073272 | 0 | 0.0 | 0 | 0.0 | 85.93 | 78.12 | 0.03 | Taiwan | Industrials | 4105816003 |
| Dassault Aviation SA | False | 4804891000 | 0 | 0.0 | 0 | 0.0 | 85.82 | 54.68 | 0.04 | France | Industrials | 1.336348626e+10 |
| Evergreen Marine | False | 8602438711 | 0 | 0.0 | 0 | 0.0 | 63.53 | 72.27 | 0.08 | Taiwan | Industrials | 1.053807114e+10 |
| Corp Taiwan Ltd | | | | | | | | | | | | |
| Fujikura Ltd | False | 4923357577 | 0 | 0.0 | 0 | 0.0 | 43.92 | 58.91 | 0.09 | Japan | Industrials | 5680265145 |
| HMM Co Ltd | False | 6009828911 | 0 | 0.0 | 0 | 0.0 | 75.59 | 76.8 | 0.04 | Korea; Re- | Industrials | 8310912456 |
| | | | | | | | | | | public (S. | | |
| | | | | | | | | | | Korea) | | |
| Eva Airways Corp | False | 5997022746 | 0 | 0.0 | 0 | 0.0 | 74.02 | 60.12 | 0.09 | Taiwan | Industrials | 5328159300 |
| CJ Logistics Corp | False | 8290868686 | 0 | 0.0 | 0 | 0.0 | 55.65 | 56.91 | 0.03 | Korea; Re- | Industrials | 1403959570 |
| | | | | | | | | | | public (S. | | |
| | | | | | | | | | | Korea) | | |
| Kawasaki Kisen | False | 5986769762 | 0 | 0.0 | 0 | 0.0 | 49.61 | 67.43 | 0.06 | Japan | Industrials | 9947951445 |
| Kaisha Ltd | | | | | | | | | | | | |
| Metso Oyj | False | 5361000000 | 0 | 0.0 | 0 | 0.0 | 81.05 | 68.04 | 0.1 | Finland | Industrials | 8320500246 |
| Orient Overseas (In- | False | 7681199878 | 0 | 0.0 | 0 | 0.0 | 78.86 | 62.82 | 0.08 | Hong Kong | Industrials | 8919133379 |
| ternational) Ltd | | | | | | | | | | | | |
| Rheinmetall AG | False | 7395000000 | 0 | 0.0 | 0 | 0.0 | 84.86 | 84.09 | 0.08 | Germany | Industrials | 2.208810603e+10 |

| Company | Aligned | Total | Aligned | Aligned | Eligible | Eligible | Е | ESG | Pretax | Country | TRBC | Market |
|-----------------------|---------|------------|---------|---------|----------|----------|-------|-------|--------|---------------|-------------|-----------------|
| Name | Flag | Revenue | Revenue | Revenue | Revenue | Revenue | Score | Score | ROA | | Economic | Сар |
| | | | | Percent | | Percent | | | | | Sector | |
| | | | | | | | | | | | Name | |
| Rentokil Initial PLC | False | 6277522204 | 0 | 0.0 | 0 | 0.0 | 76.2 | 78.53 | 0.04 | United King- | Industrials | 1.386535118e+10 |
| | | | | | | | | | | dom | | |
| Secom Co Ltd | False | 7124236760 | 0 | 0.0 | 0 | 0.0 | 64.19 | 41.61 | 0.08 | Japan | Industrials | 1.29159305e+10 |
| Senko Group Hold- | False | 4786723567 | 0 | 0.0 | 0 | 0.0 | 49.97 | 55.91 | 0.05 | Japan | Industrials | 1010335214 |
| ings Co Ltd | | | | | | | | | | | | |
| Hanwha AeroSpace | False | 6311025600 | 0 | 0.0 | 0 | 0.0 | 90.92 | 74.87 | 0.07 | Korea; Re- | Industrials | 8567214874 |
| Co Ltd | | | | | | | | | | public (S. | | |
| | | | | | | | | | | Korea) | | |
| Teleperformance SE | False | 8881000000 | 0 | 0.0 | 0 | 0.0 | 62.67 | 78.51 | 0.08 | France | Industrials | 6747183962 |
| Wolters Kluwer NV | False | 5584000000 | 0 | 0.0 | 0 | 0.0 | 61.36 | 66.99 | 0.14 | Netherlands | Industrials | 3.809047719e+10 |
| MTU Aero Engines | False | 6452000000 | 0 | 0.0 | 0 | 0.0 | 83.45 | 78.83 | -0.02 | Germany | Industrials | 1.349133241e+10 |
| AG | | | | | | | | | | | | |
| Aeroports de Paris SA | False | 5495000000 | 0 | 0.0 | 0 | 0.0 | 73.9 | 64.32 | 0.05 | France | Industrials | 1.18109121e+10 |
| U-Haul Holding Co | False | 5280109100 | 0 | 0.0 | 0 | 0.0 | 0.3 | 13.6 | 0.05 | United States | Industrials | 1.116098441e+10 |
| | | | | | | | | | | of America | | |
| Insperity Inc | False | 6058914621 | 0 | 0.0 | 0 | 0.0 | 18.59 | 48.21 | 0.11 | United States | Industrials | 3188952174 |
| | | | | | | | | | | of America | | |
| Bombardier Inc | False | 7313622650 | 0 | 0.0 | 0 | 0.0 | 83.87 | 63.83 | 0.03 | Canada | Industrials | 6494390355 |

| Company | Aligned | Total | Aligned | Aligned | Eligible | Eligible | Е | ESG | Pretax | Country | TRBC | Market |
|-----------------------|---------|------------|---------|---------|----------|----------|-------|-------|--------|---------------|-------------|-----------------|
| Name | Flag | Revenue | Revenue | Revenue | Revenue | Revenue | Score | Score | ROA | | Economic | Сар |
| | | | | Percent | | Percent | | | | | Sector | |
| | | | | | | | | | | | Name | |
| Broadridge Financial | False | 5925500577 | 0 | 0.0 | 0 | 0.0 | 64.98 | 65.57 | 0.1 | United States | Industrials | 2.226322453e+10 |
| Solutions Inc | | | | | | | | | | of America | | |
| Robert Half Inc | False | 5694663130 | 0 | 0.0 | 0 | 0.0 | 66.51 | 82.38 | 0.19 | United States | Industrials | 6121252833 |
| | | | | | | | | | | of America | | |
| Cintas Corp | False | 8633438483 | 0 | 0.0 | 0 | 0.0 | 62.71 | 60.85 | 0.2 | United States | Industrials | 6.714872284e+10 |
| | | | | | | | | | | of America | | |
| Equifax Inc | False | 4962342912 | 0 | 0.0 | 0 | 0.0 | 37.49 | 44.86 | 0.06 | United States | Industrials | 2.923907268e+10 |
| | | | | | | | | | | of America | | |
| Expeditors Interna- | False | 8252424678 | 0 | 0.0 | 0 | 0.0 | 55.42 | 60.88 | 0.2 | United States | Industrials | 1.55279636e+10 |
| tional of Washington | | | | | | | | | | of America | | |
| Inc | | | | | | | | | | | | |
| Fastenal Co | False | 6895087174 | 0 | 0.0 | 0 | 0.0 | 82.18 | 63.14 | 0.34 | United States | Industrials | 3.435507942e+10 |
| | | | | | | | | | | of America | | |
| Finning International | False | 6974236460 | 0 | 0.0 | 0 | 0.0 | 46.28 | 51.89 | 0.1 | Canada | Industrials | 3844701103 |
| Inc | | | | | | | | | | | | |
| Global Payments Inc | False | 8194503993 | 0 | 0.0 | 0 | 0.0 | 45.31 | 41.33 | 0.02 | United States | Industrials | 2.280780032e+10 |
| | | | | | | | | | | of America | | |

| Company | Aligned | Total | Aligned | Aligned | Eligible | Eligible | Е | ESG | Pretax | Country | TRBC | Market |
|-----------------------|---------|------------|---------|---------|----------|----------|-------|-------|--------|---------------|-------------|-----------------|
| Name | Flag | Revenue | Revenue | Revenue | Revenue | Revenue | Score | Score | ROA | | Economic | Сар |
| | | | | Percent | | Percent | | | | | Sector | |
| | | | | | | | | | | | Name | |
| Knight-Swift Trans- | False | 6783816564 | 0 | 0.0 | 0 | 0.0 | 23.82 | 38.9 | 0.02 | United States | Industrials | 7391516395 |
| portation Holdings | | | | | | | | | | of America | | |
| Inc | | | | | | | | | | | | |
| Moody's Corp | False | 5792484620 | 0 | 0.0 | 0 | 0.0 | 65.18 | 66.97 | 0.13 | United States | Industrials | 7.46710638e+10 |
| | | | | | | | | | | of America | | |
| Old Dominion Freight | False | 5457265258 | 0 | 0.0 | 0 | 0.0 | 35.53 | 35.47 | 0.32 | United States | Industrials | 3.789852169e+10 |
| Line Inc | | | | | | | | | | of America | | |
| Paychex Inc | False | 4916881443 | 0 | 0.0 | 0 | 0.0 | 69.07 | 60.04 | 0.21 | United States | Industrials | 3.906398123e+10 |
| | | | | | | | | | | of America | | |
| XPO Inc | False | 7283735310 | 0 | 0.0 | 0 | 0.0 | 51.05 | 72.07 | 0.04 | United States | Industrials | 1.142936616e+10 |
| | | | | | | | | | | of America | | |
| TransDigm Group Inc | False | 6773435410 | 0 | 0.0 | 0 | 0.0 | 23.14 | 46.48 | 0.09 | United States | Industrials | 6.374293736e+10 |
| | | | | | | | | | | of America | | |
| TFI International Inc | False | 6991438104 | 0 | 0.0 | 0 | 0.0 | 11.2 | 27.83 | 0.11 | Canada | Industrials | 1.160601051e+10 |
| Thomson Reuters | False | 6456231620 | 0 | 0.0 | 0 | 0.0 | 55.62 | 51.17 | 0.1 | Canada | Industrials | 6.812066553e+10 |
| Corp | | | | | | | | | | | | |
| Watsco Inc | False | 6794476515 | 0 | 0.0 | 0 | 0.0 | 4.51 | 29.18 | 0.22 | United States | Industrials | 2.047304986e+10 |
| | | | | | | | | | | of America | | |

| Company | Aligned | Total | Aligned | Aligned | Eligible | Eligible | Е | ESG | Pretax | Country | TRBC | Market |
|----------------------|---------|------------|---------|---------|----------|----------|-------|-------|--------|---------------|-------------|-----------------|
| Name | Flag | Revenue | Revenue | Revenue | Revenue | Revenue | Score | Score | ROA | | Economic | Сар |
| | | | | Percent | | Percent | | | | | Sector | |
| | | | | | | | | | | | Name | |
| Wallenius Wilhelm- | False | 4796980180 | 0 | 0.0 | 0 | 0.0 | 48.06 | 59.71 | 0.12 | Norway | Industrials | 3599614169 |
| sen ASA | | | | | | | | | | | | |
| Spirit Airlines Inc | False | 4902568394 | 0 | 0.0 | 0 | 0.0 | 11.26 | 40.41 | -0.06 | United States | Industrials | 320292314 |
| | | | | | | | | | | of America | | |
| Kerry Logistics Net- | False | 5979559865 | 0 | 0.0 | 0 | 0.0 | 62.42 | 49.25 | 0.04 | Hong Kong | Industrials | 1547457066 |
| work Ltd | | | | | | | | | | | | |
| Aena SME SA | False | 5348434000 | 0 | 0.0 | 0 | 0.0 | 82.5 | 74.11 | 0.13 | Spain | Industrials | 2.887105618e+10 |
| Interglobe Aviation | False | 7671393312 | 0 | 0.0 | 0 | 0.0 | 27.95 | 46.22 | 0.11 | India | Industrials | 1.836587692e+10 |
| Ltd | | | | | | | | | | | | |
| Doosan Bobcat Inc | False | 6768715809 | 0 | 0.0 | 0 | 0.0 | 69.11 | 57.87 | 0.13 | Korea; Re- | Industrials | 3653651999 |
| | | | | | | | | | | public (S. | | |
| | | | | | | | | | | Korea) | | |
| Schneider National | False | 4994932693 | 0 | 0.0 | 0 | 0.0 | 29.98 | 41.83 | 0.07 | United States | Industrials | 3910455594 |
| Inc | | | | | | | | | | of America | | |
| SG Holdings Co Ltd | False | 8204203557 | 0 | 0.0 | 0 | 0.0 | 74.57 | 60.35 | 0.1 | Japan | Industrials | 5467068790 |
| Epiroc AB | False | 5256177970 | 0 | 0.0 | 0 | 0.0 | 83.63 | 87.31 | 0.19 | Sweden | Industrials | 2.236798951e+10 |
| Parsons Corp | False | 5409922386 | 0 | 0.0 | 0 | 0.0 | 64.75 | 55.04 | 0.06 | United States | Industrials | 7682647284 |
| | | | | | | | | | | of America | | |

| Company | Aligned | Total | Aligned | Aligned | Eligible | Eligible | Е | ESG | Pretax | Country | TRBC | Market |
|----------------------|---------|------------|---------|---------|----------|----------|-------|-------|--------|---------------|-------------|-----------------|
| Name | Flag | Revenue | Revenue | Revenue | Revenue | Revenue | Score | Score | ROA | | Economic | Сар |
| | | | | Percent | | Percent | | | | | Sector | |
| | | | | | | | | | | | Name | |
| APi Group Corp | False | 6414149170 | 0 | 0.0 | 0 | 0.0 | 0.0 | 18.5 | 0.03 | United States | Industrials | 9547014458 |
| | | | | | | | | | | of America | | |
| GFL Environmental | False | 5132074895 | 0 | 0.0 | 0 | 0.0 | 79.39 | 68.73 | 0.01 | Canada | Industrials | 1.300043988e+10 |
| Inc | | | | | | | | | | | | |
| ZTO Express (Cay- | False | 4999149138 | 0 | 0.0 | 0 | 0.0 | 71.26 | 64.34 | 0.13 | China | Industrials | 1.527476755e+10 |
| man) Inc | | | | | | | | | | | | |
| Concentrix Corp | False | 8052787886 | 0 | 0.0 | 0 | 0.0 | 53.05 | 52.05 | 0.04 | United States | Industrials | 4192547195 |
| | | | | | | | | | | of America | | |
| Core & Main Inc | False | 6353166970 | 0 | 0.0 | 0 | 0.0 | 5.67 | 18.28 | 0.13 | United States | Industrials | 9461563554 |
| | | | | | | | | | | of America | | |
| HD Hyundai Heavy | False | 8548457404 | 0 | 0.0 | 0 | 0.0 | 69.18 | 68.5 | 0.0 | Korea; Re- | Industrials | 9338807982 |
| Industries Co Ltd | | | | | | | | | | public (S. | | |
| | | | | | | | | | | Korea) | | |
| Shenzhen Overseas | False | 7368570992 | 0 | 0.0 | 0 | 0.0 | 36.17 | 39.71 | -0.02 | China | Real Estate | 2081766157 |
| Chinese Town Co Ltd | | | | | | | | | | | | |
| Beijing Capital De- | False | 6153299067 | 0 | 0.0 | 0 | 0.0 | 17.15 | 35.98 | -0.02 | China | Real Estate | 697434526.7 |
| velopment Co Ltd | | | | | | | | | | | | |
| Kaisa Group Holdings | False | 8291984182 | 0 | 0.0 | 0 | 0.0 | 48.65 | 37.11 | -0.08 | China | Real Estate | 102991647.6 |
| Ltd | | | | | | | | | | | | |

| Company | Aligned | Total | Aligned | Aligned | Eligible | Eligible | Е | ESG | Pretax | Country | TRBC | Market |
|-----------------------|---------|------------|---------|---------|----------|----------|-------|-------|--------|---------------|-------------|-----------------|
| Name | Flag | Revenue | Revenue | Revenue | Revenue | Revenue | Score | Score | ROA | | Economic | Сар |
| | | | | Percent | | Percent | | | | | Sector | |
| | | | | | | | | | | | Name | |
| China Overseas | False | 7180553896 | 0 | 0.0 | 0 | 0.0 | 87.47 | 50.79 | 0.02 | Hong Kong | Real Estate | 794259884.8 |
| Grand Oceans Group | | | | | | | | | | | | |
| Ltd | | | | | | | | | | | | |
| Sumitomo Realty & | False | 5964583340 | 0 | 0.0 | 0 | 0.0 | 85.74 | 61.97 | 0.04 | Japan | Real Estate | 1.3981296e+10 |
| Development Co Ltd | | | | | | | | | | | | |
| Prologis Inc | False | 6478336565 | 0 | 0.0 | 0 | 0.0 | 72.09 | 72.2 | 0.04 | United States | Real Estate | 1.019994368e+11 |
| | | | | | | | | | | of America | | |
| Equinix Inc | False | 7739588497 | 0 | 0.0 | 0 | 0.0 | 51.34 | 54.12 | 0.04 | United States | Real Estate | 7.003871781e+10 |
| | | | | | | | | | | of America | | |
| Welltower Inc | False | 6449962472 | 0 | 0.0 | 0 | 0.0 | 84.19 | 80.74 | 0.01 | United States | Real Estate | 5.712736851e+10 |
| | | | | | | | | | | of America | | |
| Host Hotels & Resorts | False | 5019199530 | 0 | 0.0 | 0 | 0.0 | 95.32 | 85.05 | 0.06 | United States | Real Estate | 1.175293582e+10 |
| Inc | | | | | | | | | | of America | | |
| Iron Mountain Inc | False | 5237602885 | 0 | 0.0 | 0 | 0.0 | 83.11 | 75.97 | 0.01 | United States | Real Estate | 2.577357656e+10 |
| | | | | | | | | | | of America | | |
| Crown Castle Inc | False | 6325603640 | 0 | 0.0 | 0 | 0.0 | 76.59 | 67.81 | 0.04 | United States | Real Estate | 4.125715518e+10 |
| | | | | | | | | | | of America | | |
| Anywhere Real Estate | False | 5217857610 | 0 | 0.0 | 0 | 0.0 | 26.98 | 48.26 | -0.02 | United States | Real Estate | 403433081.4 |
| Inc | | | | | | | | | | of America | | |

| Company | Aligned | Total | Aligned | Aligned | Eligible | Eligible | Е | ESG | Pretax | Country | TRBC | Market |
|---------------------|---------|------------|---------|---------|----------|----------|-------|-------|--------|------------|-------------|-----------------|
| Name | Flag | Revenue | Revenue | Revenue | Revenue | Revenue | Score | Score | ROA | | Economic | Сар |
| | | | | Percent | | Percent | | | | | Sector | |
| | | | | | | | | | | | Name | |
| Tokyu Fudosan Hold- | False | 6800451267 | 0 | 0.0 | 0 | 0.0 | 71.66 | 77.23 | 0.04 | Japan | Real Estate | 4540855270 |
| ings Corp | | | | | | | | | | | | |
| lida Group Holdings | False | 8832587506 | 0 | 0.0 | 0 | 0.0 | 48.07 | 37.21 | 0.03 | Japan | Real Estate | 3534150099 |
| Co Ltd | | | | | | | | | | | | |
| Micro-Star Interna- | False | 5392135609 | 0 | 0.0 | 0 | 0.0 | 59.77 | 59.42 | 0.1 | Taiwan | Technology | 4311042270 |
| tional Co Ltd | | | | | | | | | | | | |
| Wingtech Technology | False | 8122730630 | 0 | 0.0 | 0 | 0.0 | 18.07 | 48.59 | 0.03 | China | Technology | 4632012921 |
| Co Ltd | | | | | | | | | | | | |
| Naver Corp | False | 6911166236 | 0 | 0.0 | 0 | 0.0 | 44.31 | 78.51 | 0.04 | Korea; Re- | Technology | 1.894978136e+10 |
| | | | | | | | | | | public (S. | | |
| | | | | | | | | | | Korea) | | |
| Innolux Corp | False | 6310124122 | 0 | 0.0 | 0 | 0.0 | 97.85 | 82.89 | -0.04 | Taiwan | Technology | 4003753715 |
| AUO Corp | False | 7459593642 | 0 | 0.0 | 0 | 0.0 | 93.2 | 86.37 | -0.06 | Taiwan | Technology | 4298788141 |
| Telenor ASA | False | 6986354192 | 0 | 0.0 | 0 | 0.0 | 48.78 | 67.53 | 0.0 | Norway | Technology | 1.441259861e+10 |
| Acer Inc | False | 7172729583 | 0 | 0.0 | 0 | 0.0 | 64.3 | 77.75 | 0.04 | Taiwan | Technology | 4109933489 |
| Alps Alpine Co Ltd | False | 6018304713 | 0 | 0.0 | 0 | 0.0 | 71.6 | 57.73 | -0.02 | Japan | Technology | 1980269630 |
| Qisda Corp | False | 5781631640 | 0 | 0.0 | 0 | 0.0 | 61.7 | 61.36 | 0.03 | Taiwan | Technology | 2151738352 |
| Advanced Info Ser- | False | 5064234834 | 0 | 0.0 | 0 | 0.0 | 59.7 | 75.03 | 0.09 | Thailand | Technology | 1.669987286e+10 |
| vice PCL | | | | | | | | | | | | |

| Company | Aligned | Total | Aligned | Aligned | Eligible | Eligible | Е | ESG | Pretax | Country | TRBC | Market |
|----------------------|---------|------------|---------|---------|----------|----------|-------|-------|--------|------------|------------|-----------------|
| Name | Flag | Revenue | Revenue | Revenue | Revenue | Revenue | Score | Score | ROA | | Economic | Сар |
| | | | | Percent | | Percent | | | | | Sector | |
| | | | | | | | | | | | Name | |
| Kakao Corp | False | 5453440100 | 0 | 0.0 | 0 | 0.0 | 74.2 | 80.89 | -0.07 | Korea; Re- | Technology | 1.250600661e+10 |
| | | | | | | | | | | public (S. | | |
| | | | | | | | | | | Korea) | | |
| Dassault Systemes SE | False | 6016900000 | 0 | 0.0 | 0 | 0.0 | 76.45 | 65.04 | 0.09 | France | Technology | 4.597576355e+10 |
| Semiconductor | False | 6124670368 | 0 | 0.0 | 0 | 0.0 | 47.27 | 65.07 | 0.03 | China | Technology | 2.484606085e+10 |
| Manufacturing Inter- | | | | | | | | | | | | |
| national Corp | | | | | | | | | | | | |
| Proximus NV | False | 606000000 | 0 | 0.0 | 0 | 0.0 | 72.01 | 68.0 | 0.04 | Belgium | Technology | 2589641376 |
| SKNetworksCoLtd | False | 6499223870 | 0 | 0.0 | 0 | 0.0 | 52.65 | 58.76 | 0.01 | Korea; Re- | Technology | 696423649.5 |
| | | | | | | | | | | public (S. | | |
| | | | | | | | | | | Korea) | | |
| Telia Company AB | False | 7786290910 | 0 | 0.0 | 0 | 0.0 | 68.75 | 81.63 | 0.0 | Sweden | Technology | 9734670034 |
| Taiwan Mobile Co | False | 5441333630 | 0 | 0.0 | 0 | 0.0 | 79.83 | 87.22 | 0.08 | Taiwan | Technology | 1.063083138e+10 |
| Ltd | | | | | | | | | | | | |
| United Internet AG | False | 6246459000 | 0 | 0.0 | 0 | 0.0 | 34.79 | 55.4 | 0.06 | Germany | Technology | 3997714777 |
| United Microelec- | False | 6488085523 | 0 | 0.0 | 0 | 0.0 | 72.12 | 78.7 | 0.13 | Taiwan | Technology | 1.877155753e+10 |
| tronics Corp | | | | | | | | | | | | |
| FIH Mobile Ltd | False | 5882729524 | 0 | 0.0 | 0 | 0.0 | 54.3 | 62.22 | -0.02 | Taiwan | Technology | 805617190.2 |

| Company | Aligned | Total | Aligned | Aligned | Eligible | Eligible | Е | ESG | Pretax | Country | TRBC | Market |
|---------------------|---------|------------|---------|---------|----------|----------|-------|-------|--------|---------------|------------|-----------------|
| Name | Flag | Revenue | Revenue | Revenue | Revenue | Revenue | Score | Score | ROA | | Economic | Сар |
| | | | | Percent | | Percent | | | | | Sector | |
| | | | | | | | | | | | Name | |
| Amkor Technology | False | 5947660223 | 0 | 0.0 | 0 | 0.0 | 32.12 | 43.73 | 0.07 | United States | Technology | 9507363813 |
| Inc | | | | | | | | | | of America | | |
| CACI International | False | 6799961162 | 0 | 0.0 | 0 | 0.0 | 42.75 | 73.86 | 0.07 | United States | Technology | 8979726707 |
| Inc | | | | | | | | | | of America | | |
| Constellation Soft- | False | 8182671480 | 0 | 0.0 | 0 | 0.0 | 12.37 | 25.04 | 0.03 | Canada | Technology | 5.911810731e+10 |
| ware Inc | | | | | | | | | | | | |
| Electronic Arts Inc | False | 6891208860 | 0 | 0.0 | 0 | 0.0 | 47.77 | 67.29 | 0.12 | United States | Technology | 3.549650264e+10 |
| | | | | | | | | | | of America | | |
| Fortinet Inc | False | 5015673383 | 0 | 0.0 | 0 | 0.0 | 67.34 | 58.53 | 0.2 | United States | Technology | 4.171344571e+10 |
| | | | | | | | | | | of America | | |
| Gartner Inc | False | 5537805451 | 0 | 0.0 | 0 | 0.0 | 47.71 | 75.21 | 0.15 | United States | Technology | 3.241472483e+10 |
| | | | | | | | | | | of America | | |
| Garmin Ltd | False | 5077309584 | 0 | 0.0 | 0 | 0.0 | 51.99 | 64.39 | 0.15 | Switzerland | Technology | 2.972936355e+10 |
| Marvell Technology | False | 4918626922 | 0 | 0.0 | 0 | 0.0 | 49.53 | 57.61 | -0.03 | United States | Technology | 5.84079862e+10 |
| Inc | | | | | | | | | | of America | | |
| NCR Voyix Corp | False | 5398053710 | 0 | 0.0 | 0 | 0.0 | 60.9 | 60.98 | -0.05 | United States | Technology | 1894802463 |
| | | | | | | | | | | of America | | |
| NetApp Inc | False | 5766530780 | 0 | 0.0 | 0 | 0.0 | 53.24 | 65.24 | 0.13 | United States | Technology | 2.456383512e+10 |
| | | | | | | | | | | of America | | |

| Company | Aligned | Total | Aligned | Aligned | Eligible | Eligible | Е | ESG | Pretax | Country | TRBC | Market |
|----------------------|---------|------------|---------|---------|----------|----------|-------|-------|--------|---------------|------------|-----------------|
| Name | Flag | Revenue | Revenue | Revenue | Revenue | Revenue | Score | Score | ROA | | Economic | Сар |
| | | | | Percent | | Percent | | | | | Sector | |
| | | | | | | | | | | | Name | |
| ON Semiconductor | False | 7576671205 | 0 | 0.0 | 0 | 0.0 | 52.04 | 68.73 | 0.2 | United States | Technology | 3.032464047e+10 |
| Corp | | | | | | | | | | of America | | |
| Open Text Corp | False | 5465477334 | 0 | 0.0 | 0 | 0.0 | 73.69 | 76.76 | 0.02 | Canada | Technology | 7805132630 |
| EchoStar Corp | False | 8389119184 | 0 | 0.0 | 0 | 0.0 | 0.0 | 5.56 | -0.06 | United States | Technology | 4879754680 |
| | | | | | | | | | | of America | | |
| Synopsys Inc | False | 5694735412 | 0 | 0.0 | 0 | 0.0 | 72.73 | 63.79 | 0.13 | United States | Technology | 8.626692176e+10 |
| | | | | | | | | | | of America | | |
| SS&C Technologies | False | 5190874295 | 0 | 0.0 | 0 | 0.0 | 15.98 | 27.87 | 0.05 | United States | Technology | 1.481087983e+10 |
| Holdings Inc | | | | | | | | | | of America | | |
| Take-Two Interactive | False | 4929241672 | 0 | 0.0 | 0 | 0.0 | 24.21 | 43.88 | -0.26 | United States | Technology | 2.409870744e+10 |
| Software Inc | | | | | | | | | | of America | | |
| Xerox Holdings Corp | False | 6178365200 | 0 | 0.0 | 0 | 0.0 | 76.17 | 66.09 | -0.0 | United States | Technology | 1217390758 |
| | | | | | | | | | | of America | | |
| Amadeus IT Group | False | 5626100000 | 0 | 0.0 | 0 | 0.0 | 73.43 | 87.72 | 0.12 | Spain | Technology | 2.832861289e+10 |
| SA | | | | | | | | | | | | |
| Palo Alto Networks | False | 7186154108 | 0 | 0.0 | 0 | 0.0 | 50.27 | 45.53 | 0.04 | United States | Technology | 9.990750079e+10 |
| Inc | | | | | | | | | | of America | | |
| ServiceNow Inc | False | 8773499700 | 0 | 0.0 | 0 | 0.0 | 52.13 | 59.26 | 0.07 | United States | Technology | 1.425738583e+11 |
| | | | | | | | | | | of America | | |

| Company | Aligned | Total | Aligned | Aligned | Eligible | Eligible | Е | ESG | Pretax | Country | TRBC | Market |
|----------------------|---------|------------|---------|---------|----------|----------|-------|-------|--------|---------------|------------|-----------------|
| Name | Flag | Revenue | Revenue | Revenue | Revenue | Revenue | Score | Score | ROA | | Economic | Сар |
| | | | | Percent | | Percent | | | | | Sector | |
| | | | | | | | | | | | Name | |
| Workday Inc | False | 6962924481 | 0 | 0.0 | 0 | 0.0 | 65.0 | 49.71 | 0.02 | United States | Technology | 5.595315961e+10 |
| | | | | | | | | | | of America | | |
| Telefonica Deutsch- | False | 8614000000 | 0 | 0.0 | 0 | 0.0 | 60.63 | 68.71 | 0.01 | Germany | Technology | 6425038785 |
| land Holding AG | | | | | | | | | | | | |
| Science Applications | False | 6708262810 | 0 | 0.0 | 0 | 0.0 | 34.4 | 75.67 | 0.11 | United States | Technology | 5530881697 |
| International Corp | | | | | | | | | | of America | | |
| CommScope Holding | False | 5434059193 | 0 | 0.0 | 0 | 0.0 | 66.45 | 70.35 | -0.07 | United States | Technology | 297803539.1 |
| Company Inc | | | | | | | | | | of America | | |
| Lens Technology Co | False | 7756524884 | 0 | 0.0 | 0 | 0.0 | 36.68 | 31.57 | 0.04 | China | Technology | 1.240911647e+10 |
| Ltd | | | | | | | | | | | | |
| Shopify Inc | False | 6896969850 | 0 | 0.0 | 0 | 0.0 | 8.96 | 38.88 | 0.02 | Canada | Technology | 7.667617739e+10 |
| Altice USA Inc | False | 8562784711 | 0 | 0.0 | 0 | 0.0 | 0.0 | 16.56 | 0.0 | United States | Technology | 860375466.7 |
| | | | | | | | | | | of America | | |
| Wiwynn Corp | False | 6861203738 | 0 | 0.0 | 0 | 0.0 | 57.57 | 75.38 | 0.17 | Taiwan | Technology | 1.206020997e+10 |
| DoorDash Inc | False | 8482887060 | 0 | 0.0 | 0 | 0.0 | 19.01 | 47.74 | -0.05 | United States | Technology | 3.93693195e+10 |
| | | | | | | | | | | of America | | |
| AUTO1 Group SE | False | 5411213000 | 0 | 0.0 | 0 | 0.0 | 30.73 | 38.25 | -0.07 | Germany | Technology | 1500518572 |
| Frontier Communica- | False | 5352065850 | 0 | 0.0 | 0 | 0.0 | 9.16 | 32.13 | 0.01 | United States | Technology | 6217242545 |
| tions Parent Inc | | | | | | | | | | of America | | |

| Company | Aligned | Total | Aligned | Aligned | Eligible | Eligible | Е | ESG | Pretax | Country | TRBC | Market |
|----------------------|---------|------------|---------|---------|----------|----------|-------|-------|--------|---------------|-----------|-----------------|
| Name | Flag | Revenue | Revenue | Revenue | Revenue | Revenue | Score | Score | ROA | | Economic | Сар |
| | | | | Percent | | Percent | | | | | Sector | |
| | | | | | | | | | | | Name | |
| Energy of Minas | False | 6902396637 | 0 | 0.0 | 0 | 0.0 | 96.32 | 71.97 | 0.13 | Brazil | Utilities | 5550340242 |
| Gerais Co | | | | | | | | | | | | |
| Neoenergia SA | False | 8235394833 | 0 | 0.0 | 0 | 0.0 | 62.31 | 57.99 | 0.05 | Brazil | Utilities | 3936440734 |
| Energisa SA | False | 5359386560 | 0 | 0.0 | 0 | 0.0 | 45.75 | 46.77 | 0.06 | Brazil | Utilities | 4206353346 |
| Equatorial Energia | False | 7540421705 | 0 | 0.0 | 0 | 0.0 | 52.99 | 71.28 | 0.03 | Brazil | Utilities | 6642354600 |
| SA | | | | | | | | | | | | |
| CPFL Energia SA | False | 7430421242 | 0 | 0.0 | 0 | 0.0 | 67.45 | 70.63 | 0.11 | Brazil | Utilities | 6576471192 |
| AltaGas Ltd | False | 8593204143 | 0 | 0.0 | 0 | 0.0 | 64.52 | 63.69 | 0.04 | Canada | Utilities | 6159983852 |
| Fortis Inc | False | 7740416012 | 0 | 0.0 | 0 | 0.0 | 68.46 | 79.2 | 0.03 | Canada | Utilities | 1.814088817e+10 |
| Southwest Gas Hold- | False | 5004582245 | 0 | 0.0 | 0 | 0.0 | 37.04 | 49.93 | 0.02 | United States | Utilities | 4747293827 |
| ings Inc | | | | | | | | | | of America | | |
| Hydro One Ltd | False | 5400677011 | 0 | 0.0 | 0 | 0.0 | 52.09 | 62.86 | 0.04 | Canada | Utilities | 1.622846815e+10 |
| Brookfield Renewable | False | 4808482260 | 0 | 0.0 | 0 | 0.0 | 56.38 | 59.92 | 0.01 | United States | Utilities | 5137808530 |
| Corp | | | | | | | | | | of America | | |

Data Set Content Analysis

| Company Name | Aligned Flag | Total Revenue | Market Cap | Region |
|------------------------------------|--------------|---------------|--------------|-------------------|
| EDP Energias de Portugal SA | True | 2.065076e+10 | 1.486196e+10 | EU |
| A2A SpA | True | 2.316600e+10 | 5.909768e+09 | EU |
| Rexel SA | True | 1.870160e+10 | 7.248380e+09 | EU |
| Bureau Veritas SA | True | 5.650600e+09 | 1.190747e+10 | EU |
| Eni SpA | True | 1.325120e+11 | 4.649653e+10 | EU |
| Bechtle AG | False | 6.835238e+09 | 5.146580e+09 | EU |
| Technip Energies NV | False | 6.129000e+09 | 4.233090e+09 | EU |
| SKF AB | False | 8.838545e+09 | 8.580526e+09 | EU |
| Banco de Sabadell SA | False | 6.103000e+09 | 1.033550e+10 | EU |
| Peab AB | False | 5.183491e+09 | 1.672489e+09 | EU |
| Magellan Midstream Partners LP | True | 2.990454e+09 | 0.000000e+00 | Rest of the World |
| Genting Bhd | True | 4.753484e+09 | 3.440656e+09 | Rest of the World |
| Vistra Corp | True | 1.460000e+10 | 2.961588e+10 | Rest of the World |
| Anhui Conch Cement Co Ltd | True | 1.788566e+10 | 1.571812e+10 | Rest of the World |
| JSW Energy Ltd | True | 9.724540e+08 | 1.397872e+10 | Rest of the World |
| Constellation Software Inc | False | 8.182671e+09 | 5.911811e+10 | Rest of the World |
| Mitsubishi Corp | True | 1.282516e+11 | 7.982524e+10 | Rest of the World |
| Sumitomo Mitsui Trust Holdings Inc | False | 7.048445e+09 | 1.564446e+10 | Rest of the World |
| Micro-Star International Co Ltd | False | 5.392136e+09 | 4.311042e+09 | Rest of the World |
| ANTA Sports Products Ltd | False | 7.933263e+09 | 2.533343e+10 | Rest of the World |

Table 21: Company Data with Aligned and Non-Aligned Flags in Different Regions

| Company Name | Sustainability Report Link |
|-----------------------------|--|
| EDP Energias de Portugal SA | https://www.edp.com/en/ |
| | 2023-annual-integrated-report |
| A2A SpA | https://www.gruppoa2a.it/en/investors/ |
| | financial-sustainability-documents |
| Rexel SA | https://www.rexel.com/en/finance/ |
| | documentation/ |
| Bureau Veritas SA | https://certification.bureauveritas.com/needs/ |
| | assurance-sustainability-reports |
| Eni SpA | https://www.eni.com/en-IT/sustainability/ |
| | performance/sustainability-balance-sheet.html |
| Bechtle AG | https://www.bechtle.com/dam/jcr: |
| | 1f54b0ba-ccd4-4f6c-bb90-8cc768606c53/ |
| | bechtle-short-report-sustainability-2023-en. |
| | pdf |
| Technip Energies NV | https://www.ten.com/sites/energies/files/ |
| | 2024-03/TEN-Sustainability-report-2023.pdf |
| SKF AB | https://investors.skf.com/en/ |
| | sustainability-reports |
| Banco de Sabadell SA | https://www.grupbancsabadell.com/corp/en/ |
| | sustainability/reports.html |

| Table 22: | Sustainability | Report Links |
|-----------|----------------|---------------------|
|-----------|----------------|---------------------|

Continued on next page

| Company Name | Sustainability Report Link | |
|------------------------------------|---|--------|
| Peab AB | https://www.peab.com/press/ | |
| | pressreleases/2024/april/ | |
| | peabs-annual-and-sustainability-report-2023-pub | lished |
| Magellan Midstream Partners LP | https://www.magellanlp.com/Sustainability/ | |
| | Default.aspx | |
| Genting Bhd | https://www.gentingmalaysia.com/wp-content/ | |
| | uploads/2024/04/GENM-SR2023.pdf | |
| Vistra Corp | https://vistracorp.com/documents/ | |
| | sustainability/reporting-year/2023/ | |
| | VST-sustainability-report-2023.pdf | |
| Anhui Conch Cement Co Ltd | https://www1.hkexnews.hk/listedco/listconews/ | |
| | sehk/2023/0327/2023032701972.pdf | |
| JSW Energy Ltd | https://www.jsw.in/groups/reports-jsw-energy | |
| Constellation Software Inc | https://www.cbrands.com/pages/reports | |
| Mitsubishi Corp | https://www.mitsubishielectric.com/ | |
| | en/sustainability/reports/pdf/2023/ | |
| | Sustainability_report_2023_all.pdf | |
| Sumitomo Mitsui Trust Holdings Inc | https://www.smth.jp/english/-/media/th/ | |
| | english/sustainability/report/2022/full/all. | |
| | pdf | |
| Micro-Star International Co Ltd | https://storage-asset.msi.com/file/pdf/2023_ | |
| | msi_csr_eng.pdf | |

Continued on next page
| Company Name | Sustainability Report Link |
|--------------------------|---|
| ANTA Sports Products Ltd | https://ir.anta.com/esg/en/esg_report.php |

Code List for Content Analysis

| Code | Торіс | Category |
|----------------|---------------|----------------|
| clean | Environmental | - |
| environmental | Environmental | - |
| ера | Environmental | - |
| sustainability | Environmental | - |
| climate | Environmental | Climate Change |
| warming | Environmental | Climate Change |
| biofuel | Environmental | Climate Change |
| biofuels | Environmental | Climate Change |
| green | Environmental | Climate Change |
| renewable | Environmental | Climate Change |
| solar | Environmental | Climate Change |
| stewardship | Environmental | Climate Change |
| wind | Environmental | Climate Change |
| atmosphere | Environmental | Climate Change |
| emission | Environmental | Climate Change |
| emissions | Environmental | Climate Change |
| emit | Environmental | Climate Change |
| ghg | Environmental | Climate Change |
| ghgs | Environmental | Climate Change |
| greenhouse | Environmental | Climate Change |

Table 23: Data Set Content Analysis

| Code | Торіс | Category |
|---------------|---------------|--------------------------|
| agriculture | Environmental | Ecosystem Service |
| deforestation | Environmental | Ecosystem Service |
| pesticide | Environmental | Ecosystem Service |
| pesticides | Environmental | Ecosystem Service |
| wetlands | Environmental | Ecosystem Service |
| zoning | Environmental | Ecosystem Service |
| biodiversity | Environmental | Ecosystem Service |
| species | Environmental | Ecosystem Service |
| wilderness | Environmental | Ecosystem Service |
| wildlife | Environmental | Ecosystem Service |
| freshwater | Environmental | Ecosystem Service |
| groundwater | Environmental | Ecosystem Service |
| water | Environmental | Ecosystem Service |
| cleaner | Environmental | Environmental Management |
| cleanup | Environmental | Environmental Management |
| coal | Environmental | Environmental Management |
| contamination | Environmental | Environmental Management |
| fossil | Environmental | Environmental Management |
| resource | Environmental | Environmental Management |
| air | Environmental | Environmental Management |
| carbon | Environmental | Environmental Management |
| nitrogen | Environmental | Environmental Management |
| pollution | Environmental | Environmental Management |

| Code | Торіс | Category |
|-----------------|----------------------|--------------------------|
| superfund | Environmental | Environmental Management |
| biphenyls | Environmental | Environmental Management |
| hazardous | Environmental | Environmental Management |
| householding | Environmental | Environmental Management |
| pollutants | Environmental | Environmental Management |
| printing | Environmental | Environmental Management |
| recycle | Environmental | Environmental Management |
| recycling | Environmental | Environmental Management |
| toxic | Environmental | Environmental Management |
| waste | Environmental | Environmental Management |
| wastes | Environmental | Environmental Management |
| weee | Environmental | Environmental Management |
| climate change | Environmental (Addi- | - |
| | ton LMO 2022) | |
| conservation | Environmental (Addi- | - |
| | ton LMO 2022) | |
| environmentally | Environmental (Addi- | - |
| | ton LMO 2022) | |
| footprint | Environmental (Addi- | - |
| | ton LMO 2022) | |
| global warming | Environmental (Addi- | - |
| | ton LMO 2022) | |

| Code | Торіс | Category |
|-------------|----------------------|-----------------|
| pollutant | Environmental (Addi- | - |
| | ton LMO 2022) | |
| recycled | Environmental (Addi- | - |
| | ton LMO 2022) | |
| sustainable | Environmental (Addi- | - |
| | ton LMO 2022) | |
| sustainably | Environmental (Addi- | - |
| | ton LMO 2022) | |
| align | Governance | - |
| aligned | Governance | - |
| aligning | Governance | - |
| alignment | Governance | - |
| aligns | Governance | - |
| bylaw | Governance | - |
| bylaws | Governance | - |
| charter | Governance | - |
| charters | Governance | - |
| culture | Governance | - |
| death | Governance | - |
| duly | Governance | - |
| independent | Governance | - |
| parents | Governance | - |
| cobc | Governance | Business Ethics |

| Code | Торіс | Category |
|---------------|------------|----------------------|
| ethic | Governance | Business Ethics |
| ethical | Governance | Business Ethics |
| ethically | Governance | Business Ethics |
| ethics | Governance | Business Ethics |
| honesty | Governance | Business Ethics |
| bribery | Governance | Business Ethics |
| corrupt | Governance | Business Ethics |
| corruption | Governance | Business Ethics |
| crimes | Governance | Business Ethics |
| embezzlement | Governance | Business Ethics |
| grassroots | Governance | Business Ethics |
| influence | Governance | Business Ethics |
| influences | Governance | Business Ethics |
| influencing | Governance | Business Ethics |
| lobbied | Governance | Business Ethics |
| lobbies | Governance | Business Ethics |
| lobby | Governance | Business Ethics |
| lobbying | Governance | Business Ethics |
| lobbyist | Governance | Business Ethics |
| lobbyists | Governance | Business Ethics |
| whistleblower | Governance | Business Ethics |
| compliance | Governance | Corporate Governance |
| conduct | Governance | Corporate Governance |

| Code | Торіс | Category |
|-------------|------------|----------------------|
| conformity | Governance | Corporate Governance |
| governance | Governance | Corporate Governance |
| misconduct | Governance | Corporate Governance |
| parachute | Governance | Corporate Governance |
| parachutes | Governance | Corporate Governance |
| perquisites | Governance | Corporate Governance |
| plane | Governance | Corporate Governance |
| planes | Governance | Corporate Governance |
| poison | Governance | Corporate Governance |
| retirement | Governance | Corporate Governance |
| approval | Governance | Corporate Governance |
| approvals | Governance | Corporate Governance |
| approve | Governance | Corporate Governance |
| approved | Governance | Corporate Governance |
| approves | Governance | Corporate Governance |
| approving | Governance | Corporate Governance |
| assess | Governance | Corporate Governance |
| assessed | Governance | Corporate Governance |
| assesses | Governance | Corporate Governance |
| assessing | Governance | Corporate Governance |
| assessment | Governance | Corporate Governance |
| assessments | Governance | Corporate Governance |
| audit | Governance | Corporate Governance |

| Code | Торіс | Category |
|--------------|------------|----------------------|
| audited | Governance | Corporate Governance |
| auditing | Governance | Corporate Governance |
| auditor | Governance | Corporate Governance |
| auditors | Governance | Corporate Governance |
| audits | Governance | Corporate Governance |
| control | Governance | Corporate Governance |
| controls | Governance | Corporate Governance |
| coso | Governance | Corporate Governance |
| detect | Governance | Corporate Governance |
| detected | Governance | Corporate Governance |
| detecting | Governance | Corporate Governance |
| detection | Governance | Corporate Governance |
| evaluate | Governance | Corporate Governance |
| evaluated | Governance | Corporate Governance |
| evaluates | Governance | Corporate Governance |
| evaluating | Governance | Corporate Governance |
| evaluation | Governance | Corporate Governance |
| evaluations | Governance | Corporate Governance |
| examination | Governance | Corporate Governance |
| examinations | Governance | Corporate Governance |
| examine | Governance | Corporate Governance |
| examined | Governance | Corporate Governance |
| examines | Governance | Corporate Governance |

| Code | Торіс | Category |
|--------------|------------|----------------------|
| examining | Governance | Corporate Governance |
| irs | Governance | Corporate Governance |
| oversee | Governance | Corporate Governance |
| overseeing | Governance | Corporate Governance |
| oversees | Governance | Corporate Governance |
| oversight | Governance | Corporate Governance |
| review | Governance | Corporate Governance |
| reviewed | Governance | Corporate Governance |
| reviewing | Governance | Corporate Governance |
| reviews | Governance | Corporate Governance |
| rotation | Governance | Corporate Governance |
| test | Governance | Corporate Governance |
| tested | Governance | Corporate Governance |
| testing | Governance | Corporate Governance |
| tests | Governance | Corporate Governance |
| treadway | Governance | Corporate Governance |
| backgrounds | Governance | Corporate Governance |
| independence | Governance | Corporate Governance |
| leadership | Governance | Corporate Governance |
| nomination | Governance | Corporate Governance |
| nominations | Governance | Corporate Governance |
| nominee | Governance | Corporate Governance |
| nominees | Governance | Corporate Governance |

| Code | Торіс | Category |
|----------------|------------|----------------------|
| perspectives | Governance | Corporate Governance |
| qualifications | Governance | Corporate Governance |
| refreshment | Governance | Corporate Governance |
| skill | Governance | Corporate Governance |
| skills | Governance | Corporate Governance |
| succession | Governance | Corporate Governance |
| tenure | Governance | Corporate Governance |
| vacancies | Governance | Corporate Governance |
| vacancy | Governance | Corporate Governance |
| appreciation | Governance | Corporate Governance |
| award | Governance | Corporate Governance |
| awarded | Governance | Corporate Governance |
| awarding | Governance | Corporate Governance |
| awards | Governance | Corporate Governance |
| bonus | Governance | Corporate Governance |
| bonuses | Governance | Corporate Governance |
| cd | Governance | Corporate Governance |
| compensate | Governance | Corporate Governance |
| compensated | Governance | Corporate Governance |
| compensates | Governance | Corporate Governance |
| compensating | Governance | Corporate Governance |
| compensation | Governance | Corporate Governance |
| eip | Governance | Corporate Governance |

| Code | Торіс | Category |
|--------------|------------|----------------------|
| iso | Governance | Corporate Governance |
| isos | Governance | Corporate Governance |
| payout | Governance | Corporate Governance |
| payouts | Governance | Corporate Governance |
| pension | Governance | Corporate Governance |
| prsu | Governance | Corporate Governance |
| prsus | Governance | Corporate Governance |
| recoupment | Governance | Corporate Governance |
| remuneration | Governance | Corporate Governance |
| reward | Governance | Corporate Governance |
| rewarding | Governance | Corporate Governance |
| rewards | Governance | Corporate Governance |
| rsu | Governance | Corporate Governance |
| rsus | Governance | Corporate Governance |
| salaries | Governance | Corporate Governance |
| salary | Governance | Corporate Governance |
| severance | Governance | Corporate Governance |
| vest | Governance | Corporate Governance |
| vested | Governance | Corporate Governance |
| vesting | Governance | Corporate Governance |
| vests | Governance | Corporate Governance |
| ballot | Governance | Corporate Governance |
| ballots | Governance | Corporate Governance |

| Code | Торіс | Category |
|------------|------------|----------------------|
| cast | Governance | Corporate Governance |
| consent | Governance | Corporate Governance |
| elect | Governance | Corporate Governance |
| elected | Governance | Corporate Governance |
| electing | Governance | Corporate Governance |
| election | Governance | Corporate Governance |
| elections | Governance | Corporate Governance |
| elects | Governance | Corporate Governance |
| nominate | Governance | Corporate Governance |
| nominated | Governance | Corporate Governance |
| plurality | Governance | Corporate Governance |
| proponent | Governance | Corporate Governance |
| proponents | Governance | Corporate Governance |
| proposal | Governance | Corporate Governance |
| proposals | Governance | Corporate Governance |
| proxies | Governance | Corporate Governance |
| quorum | Governance | Corporate Governance |
| vote | Governance | Corporate Governance |
| voted | Governance | Corporate Governance |
| votes | Governance | Corporate Governance |
| voting | Governance | Corporate Governance |
| attract | Governance | Corporate Governance |
| attracting | Governance | Corporate Governance |

| Code | Торіс | Category |
|-------------|------------|----------------------|
| attracts | Governance | Corporate Governance |
| incentive | Governance | Corporate Governance |
| incentives | Governance | Corporate Governance |
| interview | Governance | Corporate Governance |
| interviews | Governance | Corporate Governance |
| motivate | Governance | Corporate Governance |
| motivated | Governance | Corporate Governance |
| motivates | Governance | Corporate Governance |
| motivating | Governance | Corporate Governance |
| motivation | Governance | Corporate Governance |
| recruit | Governance | Corporate Governance |
| recruiting | Governance | Corporate Governance |
| recruitment | Governance | Corporate Governance |
| retain | Governance | Corporate Governance |
| retainer | Governance | Corporate Governance |
| retainers | Governance | Corporate Governance |
| retaining | Governance | Corporate Governance |
| retention | Governance | Corporate Governance |
| talent | Governance | Corporate Governance |
| talented | Governance | Corporate Governance |
| talents | Governance | Corporate Governance |
| brother | Governance | Corporate Governance |
| clicking | Governance | Corporate Governance |

| Code | Торіс | Category |
|---------------|------------|----------------------|
| conflict | Governance | Corporate Governance |
| conflicts | Governance | Corporate Governance |
| family | Governance | Corporate Governance |
| grandchildren | Governance | Corporate Governance |
| grandparent | Governance | Corporate Governance |
| grandparents | Governance | Corporate Governance |
| inform | Governance | Corporate Governance |
| insider | Governance | Corporate Governance |
| insiders | Governance | Corporate Governance |
| inspector | Governance | Corporate Governance |
| inspectors | Governance | Corporate Governance |
| interlocks | Governance | Corporate Governance |
| nephews | Governance | Corporate Governance |
| nieces | Governance | Corporate Governance |
| posting | Governance | Corporate Governance |
| relatives | Governance | Corporate Governance |
| siblings | Governance | Corporate Governance |
| sister | Governance | Corporate Governance |
| son | Governance | Corporate Governance |
| spousal | Governance | Corporate Governance |
| spouse | Governance | Corporate Governance |
| spouses | Governance | Corporate Governance |
| stepchildren | Governance | Corporate Governance |

| Code | Торіс | Category | |
|---------------|------------|---------------------------|--|
| stepparents | Governance | Corporate Governance | |
| transparency | Governance | Corporate Governance | |
| transparent | Governance | Corporate Governance | |
| visit | Governance | Corporate Governance | |
| visiting | Governance | Corporate Governance | |
| visits | Governance | Corporate Governance | |
| webpage | Governance | Corporate Governance | |
| website | Governance | Corporate Governance | |
| announce | Governance | Sustainability Management | |
| | | and Reporting | |
| announced | Governance | Sustainability Management | |
| | | and Reporting | |
| announcement | Governance | Sustainability Management | |
| | | and Reporting | |
| announcements | Governance | Sustainability Management | |
| | | and Reporting | |
| announces | Governance | Sustainability Management | |
| | | and Reporting | |
| announcing | Governance | Sustainability Management | |
| | | and Reporting | |
| communicate | Governance | Sustainability Management | |
| | | and Reporting | |

| Code | Торіс | Category | |
|---------------|------------|----------------|------------|
| communicated | Governance | Sustainability | Management |
| | | and Reporting | |
| communicates | Governance | Sustainability | Management |
| | | and Reporting | |
| communicating | Governance | Sustainability | Management |
| | | and Reporting | |
| erm | Governance | Sustainability | Management |
| | | and Reporting | |
| fairly | Governance | Sustainability | Management |
| | | and Reporting | |
| integrity | Governance | Sustainability | Management |
| | | and Reporting | |
| liaison | Governance | Sustainability | Management |
| | | and Reporting | |
| presentation | Governance | Sustainability | Management |
| | | and Reporting | |
| presentations | Governance | Sustainability | Management |
| | | and Reporting | |
| sustainable | Governance | Sustainability | Management |
| | | and Reporting | |
| asc | Governance | Sustainability | Management |
| | | and Reporting | |

| Code | Торіс | Category | |
|-------------|------------|------------------|------------|
| disclose | Governance | Sustainability M | Ianagement |
| | | and Reporting | |
| disclosed | Governance | Sustainability M | Ianagement |
| | | and Reporting | |
| discloses | Governance | Sustainability M | lanagement |
| | | and Reporting | |
| disclosing | Governance | Sustainability M | lanagement |
| | | and Reporting | |
| disclosure | Governance | Sustainability M | lanagement |
| | | and Reporting | |
| disclosures | Governance | Sustainability M | lanagement |
| | | and Reporting | |
| fasb | Governance | Sustainability M | lanagement |
| | | and Reporting | |
| gaap | Governance | Sustainability M | lanagement |
| | | and Reporting | |
| objectivity | Governance | Sustainability M | lanagement |
| | | and Reporting | |
| press | Governance | Sustainability M | Ianagement |
| | | and Reporting | |
| sarbanes | Governance | Sustainability M | lanagement |
| | | and Reporting | |

| Code | Торіс | Category | |
|-------------|------------|----------------|------------|
| engagement | Governance | Sustainability | Management |
| | | and Reporting | |
| engagements | Governance | Sustainability | Management |
| | | and Reporting | |
| feedback | Governance | Sustainability | Management |
| | | and Reporting | |
| hotline | Governance | Sustainability | Management |
| | | and Reporting | |
| investor | Governance | Sustainability | Management |
| | | and Reporting | |
| invite | Governance | Sustainability | Management |
| | | and Reporting | |
| invited | Governance | Sustainability | Management |
| | | and Reporting | |
| mail | Governance | Sustainability | Management |
| | | and Reporting | |
| mailed | Governance | Sustainability | Management |
| | | and Reporting | |
| mailing | Governance | Sustainability | Management |
| | | and Reporting | |
| mailings | Governance | Sustainability | Management |
| | | and Reporting | |

| Code | Торіс | Category | |
|--------------|------------|----------------|------------|
| notice | Governance | Sustainability | Management |
| | | and Reporting | |
| relations | Governance | Sustainability | Management |
| | | and Reporting | |
| stakeholder | Governance | Sustainability | Management |
| | | and Reporting | |
| stakeholders | Governance | Sustainability | Management |
| | | and Reporting | |
| compact | Governance | Sustainability | Management |
| | | and Reporting | |
| ungc | Governance | Sustainability | Management |
| | | and Reporting | |
| citizen | Social | - | |
| citizens | Social | - | |
| csr | Social | - | |
| disabilities | Social | - | |
| disability | Social | - | |
| disabled | Social | - | |
| human | Social | - | |
| nations | Social | - | |
| social | Social | - | |
| un | Social | - | |
| veteran | Social | - | |

| Code | Торіс | Category |
|-------------------|--------|-----------------|
| veterans | Social | - |
| vulnerable | Social | - |
| dignity | Social | Human Rights |
| discriminate | Social | Human Rights |
| discriminated | Social | Human Rights |
| discriminating | Social | Human Rights |
| discrimination | Social | Human Rights |
| equality | Social | Human Rights |
| freedom | Social | Human Rights |
| humanity | Social | Human Rights |
| nondiscrimination | Social | Human Rights |
| sexual | Social | Human Rights |
| communities | Social | Human Rights |
| community | Social | Human Rights |
| expression | Social | Human Rights |
| marriage | Social | Human Rights |
| privacy | Social | Human Rights |
| peace | Social | Human Rights |
| bargaining | Social | Labor Standards |
| eeo | Social | Labor Standards |
| fairness | Social | Labor Standards |
| fla | Social | Labor Standards |
| harassment | Social | Labor Standards |

| Code | Торіс | Category |
|-------------|--------|-----------------|
| injury | Social | Labor Standards |
| labor | Social | Labor Standards |
| overtime | Social | Labor Standards |
| ruggie | Social | Labor Standards |
| sick | Social | Labor Standards |
| wage | Social | Labor Standards |
| wages | Social | Labor Standards |
| workplace | Social | Labor Standards |
| bisexual | Social | Labor Standards |
| diversity | Social | Labor Standards |
| ethnic | Social | Labor Standards |
| ethnically | Social | Labor Standards |
| ethnicities | Social | Labor Standards |
| ethnicity | Social | Labor Standards |
| female | Social | Labor Standards |
| females | Social | Labor Standards |
| gay | Social | Labor Standards |
| gays | Social | Labor Standards |
| gender | Social | Labor Standards |
| genders | Social | Labor Standards |
| homosexual | Social | Labor Standards |
| immigration | Social | Labor Standards |
| lesbian | Social | Labor Standards |

| Code | Торіс | Category |
|--------------|--------|-----------------|
| lesbians | Social | Labor Standards |
| lgbt | Social | Labor Standards |
| minorities | Social | Labor Standards |
| minority | Social | Labor Standards |
| ms | Social | Labor Standards |
| race | Social | Labor Standards |
| racial | Social | Labor Standards |
| religion | Social | Labor Standards |
| religious | Social | Labor Standards |
| sex | Social | Labor Standards |
| transgender | Social | Labor Standards |
| woman | Social | Labor Standards |
| women | Social | Labor Standards |
| occupational | Social | Labor Standards |
| safe | Social | Labor Standards |
| safely | Social | Labor Standards |
| safety | Social | Labor Standards |
| ilo | Social | Labor Standards |
| labour | Social | Labor Standards |
| eicc | Social | Labor Standards |
| children | Social | Public Health |
| epidemic | Social | Public Health |
| health | Social | Public Health |

| Code | Торіс | Category |
|-----------------|--------|---------------|
| healthy | Social | Public Health |
| ill | Social | Public Health |
| illness | Social | Public Health |
| pandemic | Social | Public Health |
| childbirth | Social | Public Health |
| drug | Social | Public Health |
| medicaid | Social | Public Health |
| medicare | Social | Public Health |
| medicine | Social | Public Health |
| medicines | Social | Public Health |
| hiv | Social | Public Health |
| alcohol | Social | Public Health |
| drinking | Social | Public Health |
| bugs | Social | Public Health |
| conformance | Social | Public Health |
| defects | Social | Public Health |
| fda | Social | Public Health |
| inspection | Social | Public Health |
| inspections | Social | Public Health |
| minerals | Social | Public Health |
| standardization | Social | Public Health |
| warranty | Social | Public Health |
| endowment | Social | Society |

| Code | Торіс | Category |
|---------------|--------|----------|
| endowments | Social | Society |
| people | Social | Society |
| philanthropic | Social | Society |
| philanthropy | Social | Society |
| socially | Social | Society |
| societal | Social | Society |
| society | Social | Society |
| welfare | Social | Society |
| charitable | Social | Society |
| charities | Social | Society |
| charity | Social | Society |
| donate | Social | Society |
| donated | Social | Society |
| donates | Social | Society |
| donating | Social | Society |
| donation | Social | Society |
| donations | Social | Society |
| donors | Social | Society |
| foundation | Social | Society |
| foundations | Social | Society |
| gift | Social | Society |
| gifts | Social | Society |
| nonprofit | Social | Society |

| Code | Торіс | Category |
|--------------|--------|----------|
| poverty | Social | Society |
| courses | Social | Society |
| educate | Social | Society |
| educated | Social | Society |
| educates | Social | Society |
| educating | Social | Society |
| education | Social | Society |
| educational | Social | Society |
| learning | Social | Society |
| mentoring | Social | Society |
| scholarships | Social | Society |
| teach | Social | Society |
| teacher | Social | Society |
| teachers | Social | Society |
| teaching | Social | Society |
| training | Social | Society |
| employ | Social | Society |
| employment | Social | Society |
| headcount | Social | Society |
| hire | Social | Society |
| hired | Social | Society |
| hires | Social | Society |
| hiring | Social | Society |

| Code | Торіс | Category |
|-----------------------|-------------|----------|
| staffing | Social | Society |
| unemployment | Social | Society |
| EU Taxonomy | EU Taxonomy | |
| DNSH (Do No Sig- | EU Taxonomy | |
| nificant Harm) | | |
| Climate change miti- | EU Taxonomy | |
| gation | | |
| Water sustainable use | EU Taxonomy | |
| Circular economy | EU Taxonomy | |
| Pollution prevention | EU Taxonomy | |
| Biodiversity protec- | EU Taxonomy | |
| tion | | |
| Ecosystem preserva- | EU Taxonomy | |
| tion | | |
| Carbon reduction | EU Taxonomy | |
| Renewable energy | EU Taxonomy | |
| sources | | |
| Energy efficiency | EU Taxonomy | |
| Waste management | EU Taxonomy | |
| Resource recycling | EU Taxonomy | |
| Sustainable agricul- | EU Taxonomy | |
| ture | | |
| Sustainable transport | EU Taxonomy | |

| Code | Торіс | Category |
|----------------------|-------------|----------|
| Green building | EU Taxonomy | |
| Low-carbon technol- | EU Taxonomy | |
| ogy | | |
| Environmental | EU Taxonomy | |
| restoration | | |
| Non-toxic materials | EU Taxonomy | |
| Green infrastructure | EU Taxonomy | |
| Sustainable water | EU Taxonomy | |
| management | | |
| Habitat restoration | EU Taxonomy | |
| Clean transportation | EU Taxonomy | |
| Renewable power | EU Taxonomy | |
| Sustainable product | EU Taxonomy | |
| innovation | | |