

ESG Investment Exposure & Risk Analysis

Finance Domain



Introduction to ESG

Need for ESG in Investments

Problem Statement

Dataset Overview

Dashboard Design in Power BI

Key Insights & Analysis

Conclusion & Applications

Introduction to ESG

1. What is ESG?

- ESG = Environmental, Social, Governance.
- It measures how responsible and sustainable a company is -- beyond profit.
- It answers: “Is this company good for the planet, people, and is it run ethically?”

2. Why ESG Matters in Investments

- Investors and regulators demand transparency on climate impact, diversity, and ethics.
- Strong ESG performers = lower risks & long-term stability.
- Firms like BlackRock, Citi, and JP Morgan already integrate ESG into decisions.

3. ESG as a Measure of Responsible Investing

- Environmental → Carbon emissions, energy use, waste management.
- Social → Employee welfare, diversity, community impact.
- Governance → Business ethics, transparency, shareholder rights.
- ESG scores help investors identify sustainable and ethical companies

Need for ESG in Investments



Investor Expectations

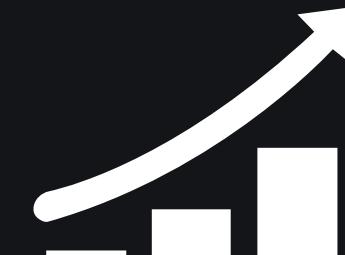
Governments and regulators worldwide are enforcing stricter ESG reporting, while investors demand greater transparency. Ignoring ESG can lead to reputational damage, penalties, and loss of investor trust.



mision

Companies with strong ESG practices manage risks better, avoid costly controversies, and attract sustainable capital—leading to more stable and long-term financial growth.

Rising demand for transparency in corporate practices



Problem Statement

Investment firms are under increasing pressure to align their portfolios with Environmental, Social, and Governance (ESG) standards. However, tracking ESG performance across a large number of companies and sectors remains challenging. This project aims to design a Power BI dashboard that helps visualize ESG score distribution, investment exposure, and risk levels across various sectors and companies, enabling better decision-making for sustainable investing.

Dataset Overview

The dataset contains 11,000+ records and 16 attributes, combining company details, financial indicators, and ESG metrics. It includes information on industries, regions, and years, along with revenue, profit margin, and market cap to capture investment exposure. ESG scores and environmental measures like carbon emissions, water usage, and energy consumption provide a complete view of company performance and risk.

key highlights



11,000+ records with 16 attributes

Company Information

Financial Indicators

ESG & Risk Metrics



Dashboard Design in Power BI

Investment opportunities are critical to fostering growth and innovation within the company. Our analysis focuses on areas that align with our strategic goals.

1. ESG Score Distribution by company, industry, and region.

2. Investment exposure breakdown by ESG performance levels Risk indicators highlighting high-risk or low-scoring companies

3. Filters for firm, sector, year, and region KPI cards for quick ESG & financial metrics

Key Insights & Analysis

High ESG Risk Sectors

Energy and Mining sectors show the highest ESG risk due to high carbon emissions and governance challenges.

ESG Leaders vs. Laggards

Technology and Healthcare sectors emerge as ESG leaders, while Utilities and Manufacturing lag behind.

Controversies & Risk Hotspots

Specific firms flagged for controversies in governance and environmental practices pose reputational and financial risks.



conclusion

The ESG Investment Exposure & Risk Analysis Dashboard shows how integrating ESG metrics with financial data can guide smarter and more responsible investment decisions. By highlighting high-risk sectors, investment allocation trends, ESG leaders and laggards, and potential controversies, it provides firms with a clear view of portfolio sustainability. ESG is crucial because companies with strong environmental, social, and governance practices are better at managing risks, complying with regulations, and maintaining long-term financial stability. This dashboard can be applied by investment firms to monitor ESG performance, support portfolio reallocation, ensure regulatory compliance, and align financial strategies with global sustainability goals.

thank you



Mumbai, India



9702887355



ddey4006@gmail.com