Bloomberg for Sustainable Finance Analysis

A Bloomberg Terminal offering
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Introducing Bloomberg Sustainable Finance Solutions

Conventional financial analysis is no longer enough. Long-term investors demand more. Structural and systemic shifts, such as climate change, resource scarcity, regulatory pressures and the importance of human capital and diversity increasingly pose material business risks and opportunities for issuers and investors globally. Bloomberg’s Sustainable Finance Solutions offer objective, transparent and rigorous insights to help asset owners, asset managers, issuers, regulators and others capitalize on material environmental, social and governance (ESG) issues.

Bloomberg Sustainable Finance
Bloomberg’s full suite of Sustainable Finance Solutions empowers asset owners, asset managers, issuers, regulators and more to identify, analyze and capitalize on material business risks, such as climate risk and emerging sustainability opportunities, such as the low carbon energy transition.

Bloomberg ESG
Bloomberg’s comprehensive ESG data set, advanced analytics and news drive fundamental ESG analysis at the heart of Bloomberg Sustainable Finance products.

- Bloomberg Terminal®
- Bloomberg Enterprise Data
- Bloomberg Intelligence
- Bloomberg New Energy Finance
- Bloomberg Indices
- Bloomberg Media
- Bloomberg Industry Products
## Better identify ESG risks & opportunities

Bloomberg Sustainable Finance Solutions integrate ESG risk and opportunity analysis into your daily workflow. Bloomberg’s ESG data on over 9,000 companies and up to 10 years of history for over 900 fields, is available as an Enterprise Data feed and is a fully integrated feature of the Bloomberg Terminal.

On the Terminal, ESG data is displayed alongside fundamental data in the same screens that investors use every day. Bloomberg supports your end-to-end workflow through ESG data, unique analysis, advanced analytics tools as well as news by a dedicated team of journalists focused on ESG issues.

As the number of ESG and sustainability-themed fund and index products grows, Bloomberg’s in-depth research and analysis tools help identify the products that align with investment objectives and customize indices to best meet investor goals and asset owner mandates.

### Bloomberg Sustainable Finance Solutions:

| I. Integrate ESG risks and opportunities into fundamental analysis | - Integration process and idea generation  
- Security screening and selection  
- Company performance analysis and scoring |
|---|---|
| II. Analyze, monitor and report on portfolios | - ESG exposure and performance analysis  
- Portfolio-level ESG reporting  
- ESG news monitoring |
| III. Leverage fund and index products | - Fund research  
- Index products |
Integrate ESG risks & opportunities into fundamental analysis

Integration process & idea generation

Bloomberg Intelligence (BI) and Bloomberg New Energy Finance (BNEF) put data, analytics and insights at your fingertips to drive idea generation, identify material ESG issues by industry and inform investment strategy decisions.

BI provides in-depth analysis and data sets on industries and companies across various sectors, as well as the government, credit, litigation and economic factors that can impact decision-making.

BNEF provides research and long-term forecasts, global in-depth analysis and independent proprietary views on the entire spectrum of energy technologies and sectors — power and utilities, gas, carbon markets & climate negotiations, transport, renewable energy, energy smart technologies and storage.

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Bloomberg Intelligence
BI ESG <GO>

Provides unique news and data-driven insights into sustainability themes that present material business risks and opportunities for industries and companies, including, but not limited to, climate change, human capital and diversity, corporate governance and executive compensation issues.
Bloomberg Intelligence
BI ESG <GO>
Industry Primers on BI ESG highlight which sustainability factors are truly value drivers. Examine how the issues have evolved over time. At the same time, incorporate unique data sets and interactive charts into your own analysis.

Steel Company Primer

<table>
<thead>
<tr>
<th>Steel Company</th>
<th>Energy/Product</th>
<th>Carbon/Product</th>
<th>Fresh Water/sales</th>
<th>Safety (L/Tyr)</th>
<th>Fatality Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>ArcelorMittal</td>
<td>6.83</td>
<td>2.14</td>
<td>37,893</td>
<td>0.16</td>
<td>0.09</td>
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<tr>
<td>Baoshan Iron &amp; Steel</td>
<td>4.91</td>
<td>na</td>
<td>na</td>
<td>0.03</td>
<td>na</td>
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<tr>
<td>BlueScope Steel</td>
<td>5.06</td>
<td>1.82</td>
<td>4,360</td>
<td>0.12</td>
<td>0.04</td>
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<tr>
<td>China Steel</td>
<td>6.50</td>
<td>2.29</td>
<td>5,162</td>
<td>0.06</td>
<td>0.09</td>
</tr>
<tr>
<td>Evraz</td>
<td>8.89</td>
<td>2.12</td>
<td>45,106</td>
<td>0.47</td>
<td>0.14</td>
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<tr>
<td>Hyundai Steel</td>
<td>4.12</td>
<td>0.92</td>
<td>na</td>
<td>na</td>
<td>na</td>
</tr>
<tr>
<td>JFE Holdings</td>
<td>6.36</td>
<td>2.01</td>
<td>7,092</td>
<td>na</td>
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<tr>
<td>JSW Steel</td>
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<td>0.15</td>
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<tr>
<td>Kobe Steel *</td>
<td>8.13</td>
<td>2.43</td>
<td>2,574</td>
<td>na</td>
<td>na</td>
</tr>
<tr>
<td>Nippon Steel &amp; Sumitomo Metal</td>
<td>6.42</td>
<td>2.01</td>
<td>14,666</td>
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<td>na</td>
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<tr>
<td>Novolipetsk Steel</td>
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<td>9,332</td>
<td>0.16</td>
<td>0.04</td>
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<tr>
<td>Outokumpu</td>
<td>2.72</td>
<td>0.77</td>
<td>6,701</td>
<td>0.42</td>
<td>0.06</td>
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<tr>
<td>POSCO *</td>
<td>6.35</td>
<td>1.91</td>
<td>2,989</td>
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<td>0.04</td>
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<tr>
<td>Severstal</td>
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<td>na</td>
<td>23,857</td>
<td>0.35</td>
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<tr>
<td>Shanzxi Taigang Stainless Steel</td>
<td>4.50</td>
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<td>2,057</td>
<td>0.09</td>
<td>na</td>
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<tr>
<td>SSAB</td>
<td>na</td>
<td>1.40</td>
<td>31,502</td>
<td>1.40</td>
<td>0.06</td>
</tr>
<tr>
<td>Steel Authority of India</td>
<td>7.67</td>
<td>2.61</td>
<td>na</td>
<td>0.15</td>
<td></td>
</tr>
<tr>
<td>Tenaris **</td>
<td>5.58</td>
<td>1.35</td>
<td>3,350</td>
<td>0.50</td>
<td>0.04</td>
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<tr>
<td>Thyssenkrupp *</td>
<td>6.08</td>
<td>1.80</td>
<td>23,521</td>
<td>0.74</td>
<td>0.74</td>
</tr>
<tr>
<td>Usinas Siderurgicas de Minas **</td>
<td>6.75</td>
<td>2.36</td>
<td>20,673</td>
<td>0.13</td>
<td>0.01</td>
</tr>
</tbody>
</table>

* Calculated by dividing total energy & carbon by steel production; ** 2 yr fatality average
Source: Company filings, Bloomberg Intelligence
Bloomberg New Energy Finance — BNEF

BNEF synthesizes the most sophisticated new energy data into clear narratives that frame the financial, economic and policy implications of emerging energy technologies. BNEF research allows you to connect the dots to investment ideas and draw unique conclusions from large and complex data sets.

<table>
<thead>
<tr>
<th>Actions</th>
<th>View Options</th>
<th>Bloomberg New Energy Finance Research</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bloomberg New Energy Finance</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Filter by Sector
- Wind
- Solar
- All other renewables
- Utilities and Generation
- Power Markets
- Carbon and Climate
- Energy Smart Technologies
- Energy Storage
- Natural Gas
- Advanced Transport

### Filter by Geography
- AMER
- APAC
- EMEA
- LATAM
- US
- China
- India

### Filter by Type
- Market Outlook
- Research Note
- Model & Dataset
- Analyst Reaction
- Weekly Report
- Commentary
- Short Content

### Relevant Functions
- Contact Us
- BNEF Website | NEFWR
- Tutorial Video
- Green Bonds Guide
- Tickerized BNEF Data

<table>
<thead>
<tr>
<th>Headline</th>
</tr>
</thead>
<tbody>
<tr>
<td>1) EU Power Weekly: Carbon Set to Swing as Tech Costs Cut</td>
</tr>
<tr>
<td>2) 3Q 2017 Energy Smart Technologies Market Outlook</td>
</tr>
<tr>
<td>3) China Ex-Im, Northland in August’s Eye-Catching Wind Deals: BNEF</td>
</tr>
<tr>
<td>4) Australian Power Purchase Agreement Dataset Sep. 2017</td>
</tr>
<tr>
<td>5) Norway Vote, Cobalt, China, U.K. Auction: BNEF Week In Review</td>
</tr>
<tr>
<td>6) Lenders Wary of Panel Makers Suniva and SolarWorld: BNEF</td>
</tr>
<tr>
<td>7) U.S. Weather Report: Gas Demand to Dip Further In Florida: BNEF</td>
</tr>
<tr>
<td>9) Offshore Wind Auction Prices Set to Undercut U.K. Nuclear: BNEF</td>
</tr>
<tr>
<td>10) Oil Majors Diversify Reserves With Prices Lower for Longer: BNEF</td>
</tr>
</tbody>
</table>
Green bonds
BNEF's finance experts offer in-depth research on the rapidly growing and evolving green bond market. From issuance trends to use of proceeds analyses, BNEF green bonds data is driven by Bloomberg's comprehensive and ever-growing green bond database and Bloomberg’s market-leading fixed income analytics. Beyond green bonds, analyze and identify the widest range of fixed income instruments associated with sustainability opportunities.

Is there any stopping the green bond market?

Half-year green bond insurance

Quarterly green bond insurance

Source: Bloomberg New Energy Finance. Note: *H1 2017 is H1 2017 to date, the number is not extrapolated
Security screening & selection

Bloomberg-integrated analytics tools include equity and fixed income screening for quick insights into companies that meet specified ESG criteria.

Equity screening

EOS <GO>

Generate unique investment ideas combining Bloomberg ESG and financial data with security screening. EOS <GO> features both ready-made ESG searches and user-customizable fundamental and ESG data. Any screened universe can be built on EOS and easily integrated throughout Bloomberg analytics, including in ESG news controversy alerts and portfolio and risk analysis tools.
**Equity backtesting**

EQBT <GO>

Enables backtesting of investment ideas to see how ESG screens would have impacted historical performance.

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**Fixed income search**

SRCH <GO>

Enables bond screening for green, social and sustainability labeled bonds and issuers. Any saved universe can be easily integrated into portfolio and risk analysis tools.
Company performance analysis & scoring

Gain insights on risks and opportunities for over 9,000 companies across 70 countries based on company-reported ESG data. Bloomberg also offers third-party partner data and scores. Generate proprietary issuer ESG scores with full transparency using Bloomberg analytics and ESG data.

Environmental, Social & Governance Analysis

Provides a quick snapshot of a company’s historical ESG performance using the most material and best-reported metrics, third-party ESG scores. Analyze improving or lagging ESG scores vs. peers and history.
Excel template library for ESG performance scores XLTPIXCR <GO>

Generates transparent ESG performance scores to assess company and portfolio ESG performance with options for user-customized, sector specific weightings and ESG momentum factors.

Company management MGMT <GO>

Bring transparency to company governance with real-time updates on Board and management information. Evaluate Board independence, diversity and suitability and identify potential conflicts of interest. Track performance by specific management teams and follow those managers through their transitions to other companies.
Analyze, monitor & report on portfolios

ESG exposure & performance analysis

Portfolio & Risk Analytics PORT <GO>
Analyze the ESG performance of your portfolio against a benchmark on key metrics with Bloomberg’s Portfolio & Risk Analytics solution. Analyzes current and historical performance of portfolios on an absolute basis or relative to a benchmark.

Portfolio-level ESG reporting

Excel template library for Carbon Footprint Tool XLTP XPCF <GO>
Measure and compare a portfolio’s carbon footprint against a benchmark, even when companies don’t disclose emissions data. The model brings together overall portfolio exposures with attribution analysis to give a full understanding of carbon risk and opportunities to reduce it.
ESG news monitoring

Bloomberg provides comprehensive, timely, trusted and actionable news to drive investment decisions with confidence. Quickly and easily tailor news curation to navigate critical ESG-related issues, such as emerging controversies.

<table>
<thead>
<tr>
<th>Sample ESG Risks News Codes</th>
<th>Sample ESG Opportunity News Codes</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCFRAUD — Accounting Fraud</td>
<td>BONGREEN — Green Bonds</td>
</tr>
<tr>
<td>RECALL — Product Recalls</td>
<td>ESGALTNRG — Renewables Innovation &amp; Investment</td>
</tr>
<tr>
<td>HARASS — Workplace Discrimination &amp; Harassment</td>
<td>GREENBUILD — Green Building</td>
</tr>
<tr>
<td>ESGTOXIC — Pollution &amp; Spills</td>
<td>GREENPROD — Green Products</td>
</tr>
</tbody>
</table>

Top news

TOP ESG <GO>

Identifies trending and most-read stories across the spectrum of ESG issues.

News searches & alerts

NLRT <GO>

Use news analysis tools to determine the stories with the greatest impact and set custom alerts to stay ahead of price moves. Set custom alerts using NLRT <GO> on some of the sample news codes below.
Leverage fund research & index products

**Fund research**

Bloomberg provides instant access to detailed data and information on over 350,000 funds worldwide to select funds that meet ESG and thematic investing criteria, seamlessly integrated with analytics. With fund screening tools, identify products that align with client requirements and mandates.

<table>
<thead>
<tr>
<th>Fund Screening Criteria</th>
<th>Matches</th>
</tr>
</thead>
<tbody>
<tr>
<td>(Type screening criteria and select from the suggested fields)</td>
<td>271,254</td>
</tr>
<tr>
<td>Market Status: Active</td>
<td>3,461,913</td>
</tr>
<tr>
<td>Fund Primary Share Class: Yes</td>
<td>130,994</td>
</tr>
<tr>
<td>Clean Energy Attributes: Adaptation, Biofuels, Biomass and Waste, Carbon Capture and Storage, Carbon Markets, Clean C</td>
<td>184</td>
</tr>
</tbody>
</table>
Index products

The Bloomberg Index family expanded its fixed income index offering with the addition of Bloomberg Barclays Indices in 2016.

Bloomberg Barclays and MSCI collaborated to create the first ESG fixed income indices in the market that incorporate measures of ESG risk and involvement. Three primary methodologies: Socially Responsible, Sustainability and ESG Weighted. Bloomberg Barclays MSCI ESG Fixed Income Indices are available for Global, USD, EUR, and GBP fixed-rate, investment-grade bond universes.

Security description

DES <GO>

Review index membership on the Terminal and benchmark your bond portfolio against the Bloomberg Barclays MSCI Fixed Income Indices.

Security description

DES <GO>

Create index products based on the Bloomberg Barclays MSCI Fixed Income Indices by customizing over 100 ESG fields.
About the Bloomberg Terminal.

Since 1981, business and financial professionals have depended on the Bloomberg Terminal for the real-time data, news and analytics they need to make the decisions that matter. The Terminal provides information on every asset class — from fixed income to equities, foreign exchange to commodities, derivatives to mortgages — all seamlessly integrated with on-demand multimedia content, extensive electronic-trading capabilities and a superior communications network.