

A Bloomberg Terminal offering

Bloomberg for Sustainable Finance Analysis



Bloomberg

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 Terminal®
- Bloomberg Enterprise Data
- Bloomberg Intelligence
- BloombergNEF
- Bloomberg Indices
- Bloomberg Media
- Bloomberg Industry Products

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.

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 11,500 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:

| | |
|--|---|
| <p>I. Integrate ESG risks and opportunities into fundamental analysis</p> | <ul style="list-style-type: none"> - Integration process and idea generation - Security screening and selection - Company performance analysis and scoring |
| <p>II. Analyze, monitor and report on portfolios</p> | <ul style="list-style-type: none"> - ESG exposure and performance analysis - Portfolio-level ESG reporting - ESG news monitoring |
| <p>III. Leverage fund and index products</p> | <ul style="list-style-type: none"> - Fund research - Index products |

Integrate ESG risks & opportunities into fundamental analysis

Integration process & idea generation

Bloomberg Intelligence (BI) and BloombergNEF (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.

91) Actions 93) Settings

<Search BI>

Environmental, Social & Governance Dashboard (BI BESGG)

Research

- Dashbd Home
- Environmental
- Social
- Governance
- Primers

Data Library

- Macro
- Industry
- Company
- ESG Scores
- Theme Scores
- Voting (Japan)
- Activists
- New Energy

Monitor

- News/Resea...
- Comp Sheets
- Markets

Midyear Outlook (Click to see more) »

BI Government Midyear Outlook: ESG

The U.S. government taking a back seat on environmental, social and governance (ESG) issues gives emphasis to reforms taking place around the world. Lack of U.S. climate leadership dents ...

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Critical Themes

- 1) Empowering Women in the Boardroom and Executive Suite
- 2) Japan's ESG Awakening
- 3) Carbon Drives Oil Stranded Assets Fear, Renewables Add
- 4) Sustainable Investing Topic Primer

Most Recent | More »

All Research

| | |
|---|-------|
| 5) Controlling Ownership, Low Board Independence Endemi... | 09/08 |
| 6) Food and Beverage Top Environmental Impacts Lurk in ... | 09/07 |
| 7) Mars Raises the Bar for Food Industry Supply-Chain Car... | 09/07 |
| 8) Consumer Discretionary Pay Policies May Offer Incentiv... | 09/05 |
| 9) Audit Committees With Insiders, Conflicts May Add Overs... | 09/05 |

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

Environmental, Social & Governance Dashboard (BI BESGG)

Research: 50 Materials, 50 Energy & Utilities, 50 Consumer, 50 Governance, 50 Country, 50 Topics

Iron and Steel ESG Primer

05/22/17

Steel Company Key ESG Issues are Energy, Carbon and Safety

Energy use, carbon emissions, worker safety and water management are among key environmental, social and governance (ESG) issues for the iron and steel industry, according to analysis by the Sustainability Accounting Standards Board. Steel is one of the most energy-intensive industries, underscoring the importance of energy efficiency to costs. It is the largest industrial emitter of carbon. Better ...

Page 1 of 15

Gold ESG Primer

05/12/17

Safety, Community Relations, Water Lead Gold-Mining ESG Focus

In order of importance, worker safety, community relations, water management, energy use and carbon emissions are among the key environmental, social and governance (ESG) issues for the gold mining industry, according to the Sustainability Accounting Standards Board. Poor safety rates and weak community relations can increase regulatory oversight, costs and production disruptions. ...

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Chemicals ESG Primer

05/01/17

Chemicals Sustainability Navigates Regulations and Opportunities

The chemicals industry faces a balancing act of meeting evolving environmental and health regulations within the new market opportunities created for lower-impact products and other solutions. Measures to eliminate toxic materials, genetically modified food controversies and regulations governing operational emissions may harm profitability and growth. In contrast, the same regulations ...

**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.

| | Energy/ Product | Carbon/ Product | Fresh Water/ sales | Safety (LTIR) | Fatality Rate |
|-------------------------------------|--------------------|--------------------|--------------------------|------------------|------------------|
| ◆ ArcelorMittal | 6.63 | 2.14 | 37,893 | 0.16 | 0.09 |
| ◆ Baoshan Iron & Steel | 4.91 | na | na | 0.03 | na |
| ▲ BlueScope Steel | 5.06 | 1.82 | 4,360 | 0.12 | 0.04 |
| ▲ China Steel | 6.50 | 2.29 | 5,162 | 0.06 | 0.09 |
| ▼ Evraz | 8.89 | 2.12 | 45,106 | 0.47 | 0.14 |
| ◆ Hyundai Steel | 4.12 | 0.92 | na | na | na |
| ◆ JFE Holdings | 6.36 | 2.01 | 7,092 | na | na |
| ◆ JSW Steel | 8.96 | 2.56 | 9,258 | 0.10 | 0.15 |
| ▼ Kobe Steel * | 8.13 | 2.43 | 2,574 | na | na |
| ▼ Nippon Steel & Sumitomo Metal | 6.42 | 2.01 | 14,666 | na | na |
| ◆ Novolipetsk Steel | 5.46 | na | 9,932 | 0.16 | 0.04 |
| ▲ Outokumpu | 2.72 | 0.77 | 6,701 | 0.42 | 0.06 |
| ▲ POSCO * | 6.35 | 1.91 | 2,990 | 0.04 | 0.04 |
| ▼ Severstal | 6.97 | na | 23,857 | 0.35 | 0.23 |
| ▲ Shanxi Taigang Stainless Steel | 4.50 | na | 2,057 | 0.09 | na |
| ◆ SSAB | na | 1.40 | 31,502 | 1.40 | 0.06 |
| ▼ Steel Authority of India | 7.57 | 2.61 | na | na | 0.15 |
| ◆ Tenaris ** | 5.58 | 1.35 | na | 0.50 | 0.04 |
| ◆ Thyssenkrupp * | 6.08 | 1.80 | 23,451 | 0.74 | na |
| ◆ Usinas Siderurgicas de Minas ** * | 6.75 | 2.36 | 20,673 | 0.13 | 0.01 |

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

Steel Company Primer

BloombergNEF – BNEF <GO>

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.

Bloomberg New Energy Finance Research

Bloomberg New Energy Finance

| filter by Sector | Filter by Geography | Filter by Type | Relevant Functions |
|--|--|---|---|
| <input type="checkbox"/> Wind <input type="checkbox"/> Solar <input type="checkbox"/> All other renewables <input type="checkbox"/> Utilities and Generation <input type="checkbox"/> Power Markets <input type="checkbox"/> Carbon and Climate <input type="checkbox"/> Energy Smart Technologies <input type="checkbox"/> Energy Storage <input type="checkbox"/> Natural Gas <input type="checkbox"/> Advanced Transport | <input type="checkbox"/> AMER <input type="checkbox"/> APAC <input type="checkbox"/> EMEA <input type="checkbox"/> EU <input type="checkbox"/> LATAM <input type="checkbox"/> US <input type="checkbox"/> China <input type="checkbox"/> UK <input type="checkbox"/> Germany <input type="checkbox"/> India | <input type="checkbox"/> Market Outlook <input type="checkbox"/> Research Note <input type="checkbox"/> Model & Dataset <input type="checkbox"/> Analyst Reaction <input type="checkbox"/> Weekly Report <input type="checkbox"/> Commentary <input type="checkbox"/> Short Content | Contact Us BNEF Website NEFW» Tutorial Video Green Bonds Guide Tickerized BNEF Data |

<Narrow Search> Focus **All** Analyst **All** Date **All** Doc Len **All**

| Headline | Pg | Date |
|---|----|----------|
| 1) <input type="checkbox"/> EU Power Weekly: Carbon Set to Swing as Tech Costs Cut | 5 | 07:32 |
| 2) <input type="checkbox"/> 3Q 2017 Energy Smart Technologies Market Outlook | 25 | 06:33 |
| 3) <input type="checkbox"/> China Ex-Im, Northland in August's Eye-Catching Wind Deals: BNEF | | 06:29 |
| 4) <input type="checkbox"/> Australian Power Purchase Agreement Dataset Sep. 2017 | 2 | 05:26 |
| 5) <input type="checkbox"/> Norway Vote, Cobalt, China, U.K. Auction: BNEF Week in Review | | 02:00 |
| 6) <input type="checkbox"/> Lenders Wary of Panel Makers Suniva and SolarWorld: BNEF | | 09/08/17 |
| 7) <input type="checkbox"/> U.S. Weather Report: Gas Demand to Dip Further in Florida: BNEF | | 09/08/17 |
| 8) <input type="checkbox"/> PV Module Bankability 2017: New Tech, New Headaches? | 10 | 09/08/17 |
| 9) <input type="checkbox"/> Offshore Wind Auction Prices Set to Undercut U.K. Nuclear: BNEF | | 09/08/17 |
| 10) <input type="checkbox"/> Oil Majors Diversify Reserves With Prices Lower for Longer: BNEF | | 09/08/17 |

Green bonds

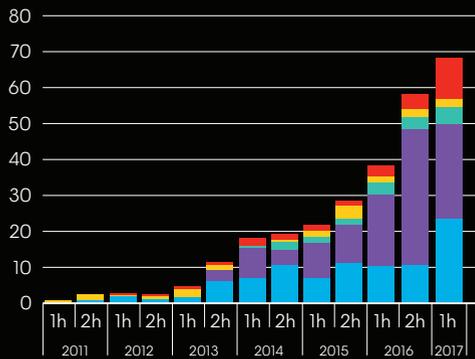
BNEF's finance experts offer in-depth research on the rapidly growing and evolving green bond market. From issuance trends to use of proceeds analyses, BNEF green bonds data is driven by Bloomberg's comprehensive and ever-growing green bond database and Bloomberg's market-leading fixed income analytics. 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

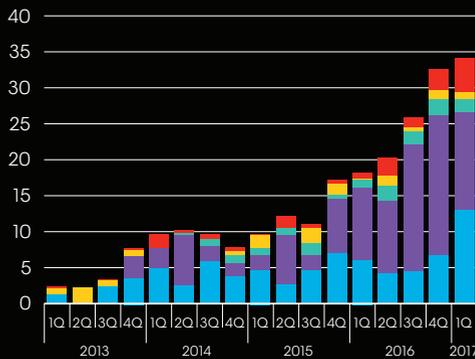
% billions



| | 2013 | | 2014 | | 2015 | | 2016 | | 2017 |
|--------------|------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Type | H1 | H2 | H1 | H2 | H1 | H2 | H1 | H2 | H1 |
| SSA | 1.7 | 6.1 | 7.0 | 10.3 | 7.3 | 11.7 | 10.3 | 10.5 | 23.2 |
| Corp | 0.0 | 2.9 | 9.0 | 4.8 | 9.3 | 10.0 | 20.4 | 37.3 | 26.3 |
| US muni | 0.2 | 0.2 | 0.2 | 2.2 | 1.8 | 2.0 | 3.1 | 3.6 | 5.1 |
| Project | 2.3 | 1.6 | 0.0 | 0.6 | 1.7 | 3.4 | 1.2 | 2.0 | 1.7 |
| ABS | 0.0 | 0.2 | 2.0 | 0.9 | 1.6 | 0.936 | 3.2 | 4.3 | 12.0 |
| Total | 4.1 | 11.0 | 18.2 | 18.7 | 21.7 | 28.0 | 38.1 | 57.6 | 68.2 |

Quarterly green bond insurance

% billions



| | 2014 | | | | 2015 | | | | 2016 | | | | 2017 | |
|--------------|------------|-------------|------------|-------------|------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Type | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 |
| SSA | 5.0 | 2.6 | 5.9 | 3.8 | 4.5 | 2.7 | 4.8 | 6.9 | 6.1 | 4.2 | 4.5 | 6.6 | 13.0 | 11.1 |
| Corp | 2.6 | 7.0 | 2.2 | 1.8 | 2.3 | 7.1 | 2.1 | 7.8 | 10.2 | 10.2 | 17.7 | 19.6 | 13.7 | 13.8 |
| US muni | 0.0 | 0.2 | 1.0 | 1.2 | 1.0 | 0.8 | 1.6 | 0.4 | 0.9 | 2.3 | 1.5 | 2.1 | 1.5 | 3.6 |
| Project | 0.0 | 0.0 | 0.0 | 0.5 | 1.7 | 0.0 | 1.8 | 1.6 | 0.1 | 1.1 | 0.6 | 1.4 | 0.9 | 0.7 |
| ABS | 1.9 | 0.2 | 0.7 | 0.3 | 0.0 | 1.5 | 0.6 | 0.4 | 0.9 | 2.5 | 1.3 | 2.8 | 4.9 | 7.1 |
| Total | 9.6 | 10.1 | 9.7 | 7.67 | 9.6 | 12.1 | 10.9 | 17.0 | 18.1 | 20.2 | 25.6 | 32.4 | 34.0 | 36.3 |

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

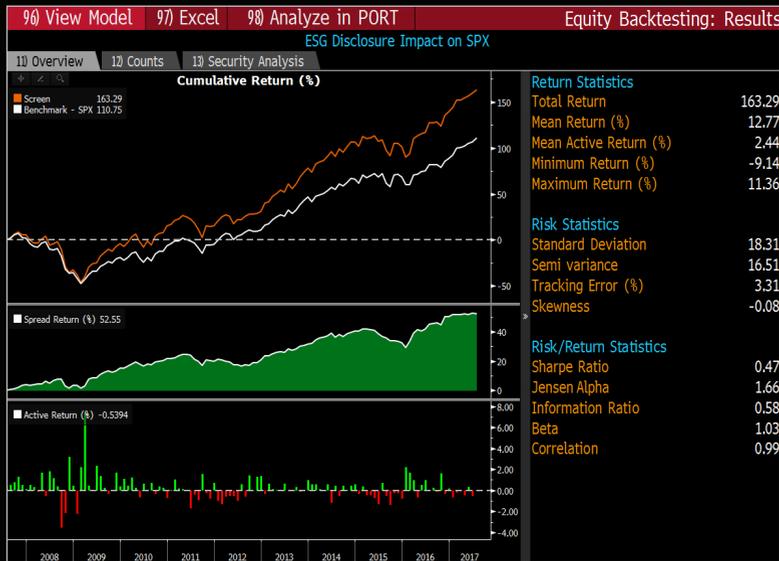
Security screening & selection

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

| 97) Formula | 98) Actions | 99) Backtest | Equity Screening | |
|---------------------------|--|-------------------------|-------------------------|--|
| My Recent Screens | | | As Of 09/11/2017 | |
| 11) For Jan | Screening Criteria | | | |
| 12) TCFD Energy | 31) Exchanges | 32) Sectors | 33) Country of Domicile | |
| 13) TCFD M&B Metals Mi... | 34) Indices | 35) Portfolios/Monitors | 45) More Categories | |
| 14) TCFD Transportation | Add Criteria | | | |
| 15) TCFD All Others | Fields | | | |
| 16) TCFD Pkg Foods and... | Selected Screening Criteria | | | |
| 17) TCFD M&B Capital G... | Matches | | | |
| 18) Japan Governance | Security Universe | | | |
| 19) TCFD | 915686 | | | |
| 20) All Saved Screens | 258415 | | | |
| Popular Screens | | | 505 | |
| 21) Global Infrastructure | 51) Trading Status: Active | 251 | | |
| 22) High CDS Spreads | 52) Indices: S&P 500 Index | 235 | | |
| 23) Insider Buyers | 53) Top 50 Sequential Percentile Rank - Higher is Better(Latest FY ESG Di... | 235 | | |
| 24) Quality Screen | 54) Latest FY Total Greenhouse Gas / Carbon Dioxide Emissions has data | 235 | | |
| 25) SZSE SEHK Northbound | Display Only Fields | | | |
| 26) Value Screen | 55) Total GHG CO2 Emissions Intensity per Energy | 235 | | |
| 30) More Screens | 56) Add screening criteria | | | |

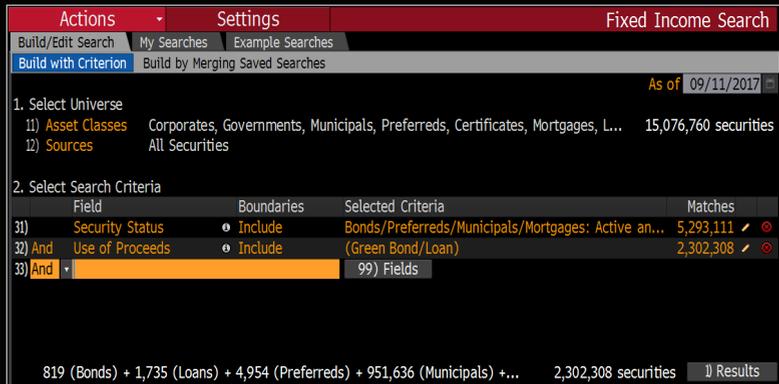
Equity screening EQS <GO>

Generate unique investment ideas combining Bloomberg ESG and financial data with security screening. EQS <GO> features both ready-made ESG searches and user-customizable fundamental and ESG data. Any screened universe can be built on EQS 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.



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 11,500 companies across 83 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.

| BP/ LN Equity | | Export to Excel | | Environmental, Social & Governance Analysis | | | |
|---------------------------------|---------|-----------------|----------|---|-------|-------------------|---------------------------|
| BP PLC | | | | History 5 Years | | Currency GBP | |
| Summary | | vs History | vs Peers | 97) ESG Scores RV ESG » | | | |
| Environmental | Better | Better | | RobecoSAM Rank | 61 | ISS QualityScore | 1 |
| Social | Better | Better | | Sustainalytics Rank | 75.6 | CDP Climate Score | 6 |
| Governance | Better | Worse | | Bloomberg ESG Disclosure | 68 | | |
| 98) Analyze Peers | | vs History | | vs Peers | | | |
| Metrics | Current | History | Change | Low | Range | High | Median Difference History |
| 1) Environmental | | | | | | | |
| 11) GHG/Revenue | 415.3 | | 127.7 W | 365.8 | | 897.3 | 651.5 -236.2 B |
| 12) GHG/MBOE | 46.9 | | -9 B | 21.7 | | 194.2 | 81.8 -34.9 B |
| 13) Carbon Reserves | 7280.3 | | 313.8 W | 119.7 | | 5280 | 1424.6 5855.7 W |
| 14) Oil in Total Prod % | 59.7 | | 24.9 W | 35.2 | | 92.2 | 50.5 9.2 W |
| 15) Energy/MBOE | 175.6 | | -42 B | 100.8 | | 727 | 281.6 -106 B |
| 2) Social | | | | | | | |
| 21) Women Empls Mgmt Ratio | 0.67 | | 0.07 B | 0.18 | | 0.92 | 0.61 0.05 B |
| 22) Women Employees % | 33 | | 3 B | 23 | | 41 | 30.5 2.5 B |
| 23) Employee Turnover % | 16 | | 3 W | 4 | | 13 | 10.8 5.2 W |
| 24) Employees Unionized % | -- | | -- | 68.9 | | 89 | 78.3 -- |
| 25) Lost Time Incident Rate | 0.05 | | -0.03 B | 0.05 | | 0.33 | 0.12 -0.07 B |
| 3) Governance | | | | | | | |
| 31) Independent Directors % | 78.6 | | 5.2 B | 26.3 | | 90 | 61.1 17.5 B |
| 32) Percent of Board Members... | 23.1 | | 23.1 B | 10.5 | | 50 | 20 3.1 B |
| 33) Director Avg Age | 62 | | 3 W | 58 | | 62 | 60 3 W |
| 34) Director Meeting Attd % | 98 | | 3.6 B | 88.4 | | 99.4 | 94.5 3.5 B |
| 35) Board Size | 13 | | -2 B | 8 | | 19 | 12 2 W |

Environmental, Social & Governance Analysis ESG <GO>

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 performance vs. peers and history.

| Bloomberg ESG Performance Scorecard | | | | | | | | | | |
|--|----------------|--------------|-------------------------|-----------|----------|------------|---------------|----------|--------|-------|
| *Note: Enter PRVTU ID or Index Ticker. | | | | | | | | | | |
| Portfolio | NDX | Sector | BICS | | | | | | | |
| Benchmark | SPX | Fiscal Year | 2016 | Calculate | Settings | Show Chart | Show Columns | CDE Page | | |
| Display | Ticker | | | | | | | | | |
| Ticker | Universe | BICS Level 1 | BICS Level 3 | Type | ESG | | Environmental | | Social | |
| | | | | | Rank | % Rank | Weight | Rank | Weight | Rank |
| IPG UN | Communications | | Advertising & Marketing | Benchmark | 55.33 | 100.0% | 33.3% | 50.00 | 33.3% | 33.33 |
| OMIC UN | Communications | | Advertising & Marketing | Benchmark | 24.59 | 0.0% | 33.3% | n/a | 33.3% | n/a |
| CHTR UW | Communications | | Cable & Satellite | Both | 27.37 | 50.0% | 33.3% | n/a | 33.3% | n/a |
| CMCSA UW | Communications | | Cable & Satellite | Both | 53.10 | 66.6% | 33.3% | n/a | 33.3% | 84.72 |
| DISH UW | Communications | | Cable & Satellite | Both | 22.57 | 33.3% | 33.3% | n/a | 33.3% | n/a |
| LBTYA UW | Communications | | Cable & Satellite | Portfolio | 57.69 | 83.3% | 33.3% | 25.00 | 33.3% | 81.55 |
| LBTYK UW | Communications | | Cable & Satellite | Portfolio | 57.69 | 83.3% | 33.3% | 25.00 | 33.3% | 81.55 |
| LILA UW | Communications | | Cable & Satellite | Portfolio | 4.59 | 0.0% | 33.3% | n/a | 33.3% | n/a |
| LILAK UW | Communications | | Cable & Satellite | Portfolio | 4.59 | 0.0% | 33.3% | n/a | 33.3% | n/a |
| CBS UN | Communications | | Entertainment Content | Benchmark | 28.76 | 87.5% | 33.3% | n/a | 33.3% | 26.79 |
| DIS UN | Communications | | Entertainment Content | Benchmark | 74.05 | 100.0% | 33.3% | 75.00 | 33.3% | 66.67 |
| DISCA UW | Communications | | Entertainment Content | Both | 24.18 | 25.0% | 33.3% | n/a | 33.3% | n/a |
| DISCK UW | Communications | | Entertainment Content | Both | 24.18 | 25.0% | 33.3% | n/a | 33.3% | n/a |
| FOX UW | Communications | | Entertainment Content | Both | 25.48 | 50.0% | 33.3% | n/a | 33.3% | n/a |
| FOXA UW | Communications | | Entertainment Content | Both | 25.48 | 50.0% | 33.3% | n/a | 33.3% | n/a |
| SNI UW | Communications | | Entertainment Content | Benchmark | 22.62 | 0.0% | 33.3% | n/a | 33.3% | n/a |
| TWX UN | Communications | | Entertainment Content | Benchmark | 27.31 | 75.0% | 33.3% | n/a | 33.3% | n/a |
| VIAB UN | Communications | | Entertainment Content | Both | 23.77 | 12.5% | 33.3% | n/a | 33.3% | n/a |
| CTRP UW | Communications | | Internet Based Services | Portfolio | 22.58 | 20.0% | 33.3% | n/a | 33.3% | 19.44 |
| EXPE UW | Communications | | Internet Based Services | Both | 42.21 | 100.0% | 33.3% | n/a | 33.3% | 63.89 |
| LVNTA UW | Communications | | Internet Based Services | Portfolio | 7.32 | 0.0% | 33.3% | n/a | 33.3% | n/a |
| PCLN UW | Communications | | Internet Based Services | Both | 37.57 | 80.0% | 33.3% | n/a | 33.3% | 27.78 |
| TRIP UW | Communications | | Internet Based Services | Benchmark | 24.99 | 40.0% | 33.3% | n/a | 33.3% | 11.11 |
| VRSN UW | Communications | | Internet Based Services | Benchmark | 35.01 | 60.0% | 33.3% | n/a | 33.3% | 27.78 |

Excel template library for ESG performance scores XLTP XSCR <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.

| BP / LN Equity | Alerts | Contact IR | Company Management | | |
|------------------------------|---------------|------------|------------------------|------------|----------|
| Board | 83 Committees | 84 Changes | 85 Cross Boarding | 80 Summary | |
| BP PLC | | | Peer Companies | | |
| Board | Value | Peer Avg | Executives | Value | Peer Avg |
| Structure | | | Structure | | |
| # Directors | 13 | 13 | # Executives | 9 | 10 |
| % Non-Exec Directors | 85 | 87 | | | |
| Diversity | | | Diversity | | |
| % Women Directors | 23 | 25 | % Women Executives | 0 | 12 |
| Average Age | -- | 60 | Average Age | -- | -- |
| Age Range | -- | 23 | CEO Age | 61 | 59 |
| Entrenchment | | | Entrenchment | | |
| Average Tenure (Years) | 5.11 | 5.36 | Average Tenure (Years) | 10.24 | 7.24 |
| # Directors > 5yr Tenure | 8 | 5 | CEO Tenure (Years) | 7.00 | 3.87 |
| # Directors > 10yr Tenure | 0 | 2 | | | |
| Overboarding | | | Ownership | | |
| Average # Boards Served | 1.08 | 0.86 | % Execs Holding Shares | 44 | 41 |
| Highest # Boards Served | 3 | 3 | % CEO Ownership | 0.0096 | 0.0044 |
| % Exec Dirs on 2+ Boards | 0 | 0 | | | |
| % Non-Exec Dirs on 3+ Boards | 9 | 11 | | | |

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 | | | | | | | | | | | | | | | | | | | | | |
|--|--------|---------------------|-------|-------|---------------------|-------|-------|---------------------|-------|-------|------------------------|-------|--------|-------|-------|-------|--------|--|--|-------|--------|
| Main View Summary Cash Flows Liquidity Risk Key Rates | | | | | | | | | | | | | | | | | | | | | |
| ESG SCORECARD DEMO vs S&P 500 INDE by BICS Sectors in USD As of 08/29/17 | | | | | | | | | | | | | | | | | | | | | |
| Date Trend | | | | | | | | | | | | | | | | | | | | | |
| Name | Wgt | UD-Custom ESG Score | | | UD-Custom Gov Score | | | UD-Custom Env Score | | | UD-Custom Social Score | | | | | | | | | | |
| | Port | Bmkr | +/- | Port | Bmkr | +/- | Port | Bmkr | +/- | Port | Bmkr | +/- | Port | Bmkr | +/- | | | | | | |
| ESG SCORECARD DEMO | 100.00 | 100.00 | 0.00 | 58.81 | 55.00 | 3.80 | 79.68 | 76.96 | 2.72 | 64.84 | 66.76 | -1.92 | 63.29 | 55.60 | 7.70 | | | | | | |
| Utilities | | | 3.31 | -3.31 | | | 54.64 | -54.64 | | | | 75.57 | -75.57 | | | 49.08 | -49.08 | | | 60.50 | -60.50 |
| Technology | 24.59 | 14.93 | 9.66 | 80.01 | 72.02 | 7.99 | 82.41 | 82.52 | -0.10 | 80.97 | 87.99 | -7.02 | 77.86 | 67.36 | 10.50 | | | | | | |
| QCOM US | 7.40 | 0.37 | 7.13 | 84.76 | 84.76 | 0.00 | 75.22 | 75.22 | 0.00 | 95.00 | 95.00 | 0.00 | 84.07 | 84.07 | 0.00 | | | | | | |
| NU US | 3.85 | 0.16 | 3.69 | 60.65 | 60.65 | 0.00 | 82.97 | 82.97 | 0.00 | 50.00 | 50.00 | 0.00 | 48.97 | 48.97 | 0.00 | | | | | | |
| LRCX US | 0.19 | 0.13 | 0.06 | 28.09 | 28.09 | 0.00 | 84.28 | 84.28 | 0.00 | | | | | | 0.00 | | | | | | |
| INTC US | 3.86 | 0.78 | 3.08 | 91.02 | 91.02 | 0.00 | 89.54 | 89.54 | 0.00 | 95.00 | 95.00 | 0.00 | 88.52 | 88.52 | 0.00 | | | | | | |
| IBH US | 4.80 | 0.58 | 4.22 | 85.80 | 85.80 | 0.00 | 83.79 | 83.79 | 0.00 | 95.83 | 95.83 | 0.00 | 77.78 | 77.78 | 0.00 | | | | | | |
| AHAT US | 0.21 | 0.23 | -0.02 | 53.10 | 53.10 | 0.00 | 84.30 | 84.30 | 0.00 | 50.00 | 50.00 | 0.00 | 25.00 | 25.00 | 0.00 | | | | | | |
| ADSK US | 3.61 | 0.10 | 3.51 | 74.61 | 74.61 | 0.00 | 86.04 | 86.04 | 0.00 | 50.00 | 50.00 | 0.00 | 87.78 | 87.78 | 0.00 | | | | | | |
| AAPL US | 0.58 | 4.06 | -3.47 | 86.01 | 86.01 | 0.00 | 88.99 | 88.99 | 0.00 | 92.86 | 92.86 | 0.00 | 76.19 | 76.19 | 0.00 | | | | | | |
| Industrial | 9.16 | 10.10 | -0.94 | 64.77 | 52.40 | 12.37 | 79.28 | 76.58 | 2.70 | 55.58 | 49.02 | 6.56 | 75.02 | 52.93 | 22.09 | | | | | | |
| UPS US | 5.24 | 0.38 | 4.87 | 78.17 | 78.17 | 0.00 | 78.66 | 78.66 | 0.00 | 62.50 | 62.50 | 0.00 | 93.33 | 93.33 | 0.00 | | | | | | |

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

| Bloomberg | | Portfolio Carbon Footprint Tool | | | | | | | | | |
|---|---------------|---|------------------|-------------------|--------|--|------------|--------|--|------------|--|
| Language | English | | | | | | | | | | |
| Portfolio | UKX Index | | | | | | | | | | |
| Benchmark | SXSP Index | | | | | | | | | | |
| Classification (for estimate) | BICS | | | | | | | | | | |
| Level (for estimate) | Level 1 | | | | | | | | | | |
| Normalised By | Sales | | | | | | | | | | |
| Debt Denominator | Net Debt | | | | | | | | | | |
| Fiscal Year | 2015 | | | | | | | | | | |
| Group By | BICS Level 1 | | | | | | | | | | |
| Currency | GBP | | | | | | | | | | |
| Update | | Location Effect Emission Effect Attribution | | | | | | | | | |
| Edit Universe | | 43.14 -69.32 -26.13 | | | | | | | | | |
| Go to Chart | | | | | | | | | | | |
| <input checked="" type="checkbox"/> Include Estimate <small>An asterisk is added in front of the company name in column B if a company is using estimate carbon data.</small> | | | | | | | | | | | |
| Name | Ticker | Allocation Effect | Selection Effect | Total Attribution | Weight | Weighted Carbon Intensity (tonnes/1 million GBP) | Difference | Weight | Weighted Carbon Intensity (tonnes/1 million GBP) | Difference | |
| FTSE 100 INDEX grouped by BICS Level 1 | | | | | | | | | | | |
| Communications | Load in Chart | -2.51 | 0.52 | -1.99 | 7.01 | 5.81 | 1.20 | 50.13 | 42.66 | 7.46 | |
| Consumer Discretionary | Load in Chart | 3.33 | 17.27 | 20.60 | 8.08 | 10.93 | -2.85 | 348.72 | 134.89 | 213.84 | |
| Consumer Staples | Load in Chart | -6.70 | -5.63 | -12.33 | 17.39 | 13.22 | 4.17 | 58.33 | 90.70 | -32.37 | |
| Energy | Load in Chart | 18.82 | -6.54 | 12.28 | 14.49 | 6.03 | 8.46 | 428.81 | 473.94 | -45.13 | |
| Financials | Load in Chart | 0.07 | 0.93 | 1.00 | 22.81 | 22.84 | -0.03 | 16.66 | 12.60 | 4.06 | |
| Health Care | Load in Chart | 4.85 | -1.38 | 3.47 | 10.96 | 13.46 | -2.50 | 45.31 | 57.89 | -12.59 | |

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.

Search News Sources Display & Edit Custom Searches Page 3/3 News

SPX/ENVIR., SOCIAL, GO... <Narrow More> Sort Top Ranked

Match All of SPX X Envir., Soci...X Utilities X Translate to...

- 1) Siemens Gamesa to Repower Two Wind Farms in Texas for Nextera BN 09/06
- 2) The Latest: Irma Knocks Out Power to 7M Homes, Businesses APW 12:50
- 3) American Water Works Co Presentation Barclays Global CEO Energy BT 09/06
- 4) MarketWatch: IMPORTANT SHAREHOLDER ALERT: Lundin Law PC Announces an Inves... NS1 12:57
- 5) Corporate PPA Monthly: Spotlight on the United States BNE 08/29
- 6) Ameren responds to request for assistance in anticipation of Hurricane Irma's lan... PRN 09/08
- 7) Trans&Dist World: Xcel Energy Foundation Donates to Red Cross to Assist with Hurr... IN1 09/08
- 8) Duke Asks to Cancel Planned South Carolina Nuclear Reactors BN 08/25
- 9) Xcel Energy Foundation Donates to the American Red Cross to Assist with Hurrican... BUS 09/07
- 10) CharlotteObservr: The Latest: Irma knocks out power to 7M homes, businesses NS1 12:55
- 11) Renewable Returns: U.S. Utilities Buy into Wind, Solar BNE 08/17
- 12) Jennifer A. Dlouhy: @louie4me @TheStalwart @FLGovScott NextEra said it would sh... TWT 09/08

Top news TOP ESG <GO>

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

| Sample ESG Risks News Codes | Sample ESG Opportunity News Codes |
|--|--|
| ACCFRAUD — Accounting Fraud | BONGREEN — Green Bonds |
| RECALL — Product Recalls | ESGALTRNG — Renewables Innovation & Investment |
| HARASS — Workplace Discrimination & Harassment | GREENBUILD — Green Building |
| ESGTOXIC — Pollution & Spills | GREENPROD — Green Products |

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.

| 90 Actions ▾ | | Fund Screening | |
|---|-----------------|-------------------------|-----------------------------|
| Universe Criteria | | | |
| 51) Classifications | 53) Fund Type | 55) Country of Domicile | 57) Country of Availability |
| 52) Portfolio/Monitor | 54) Currency | 56) Manager Location | 58) Fund Description |
| Universe Criteria | | | |
| 59) Holdings Classifications | 60) Allocations | 61) Exposure | |
| Screening Criteria | | | |
| <input type="text" value="Type screening criteria and select from the suggested fields"/> | | | Fields |
| % Currency conversion not selected Selected Screening Criteria Matches | | | |
| Universe Criteria | | | 776254 |
| 11) Market Status: Active | | | 345619 |
| 12) Fund Primary Share Class = Yes | | | 130994 |
| 13) Clean Energy Attribute: Adaptation,Biofuels,Biomass and Waste,Carbon Capture and Storage,Carbon Markets,Clean C | | | 182 |

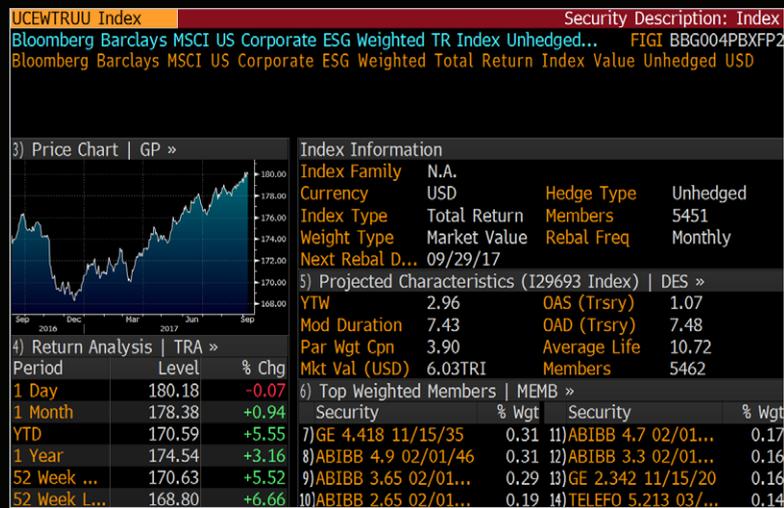
Fund screening FSRC <GO>

Research and screen funds based on specific, customizable search criteria such as fund type, country of domicile, clean energy attributes (e.g., adaptation, carbon markets) and general attributes (e.g., climate change).

Index products

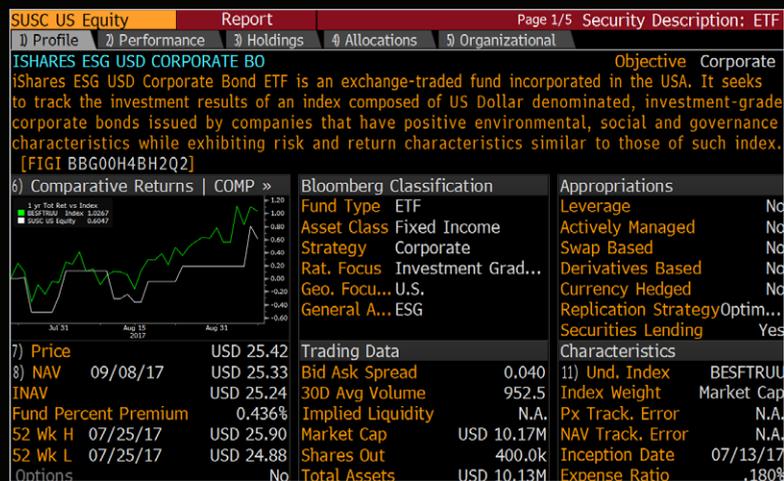
The Bloomberg Index family expanded its fixed income index offering with the addition of Bloomberg Barclays Indices in 2016.

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.

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+44 20 7330 7500

Mumbai
+91 22 6120 3600

New York
+1 212 318 2000

San Francisco
+1 415 912 2960

São Paulo
+55 11 2395 9000

Singapore
+65 6212 1000

Sydney
+61 2 9777 8600

Tokyo
+81 3 3201 8900

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