

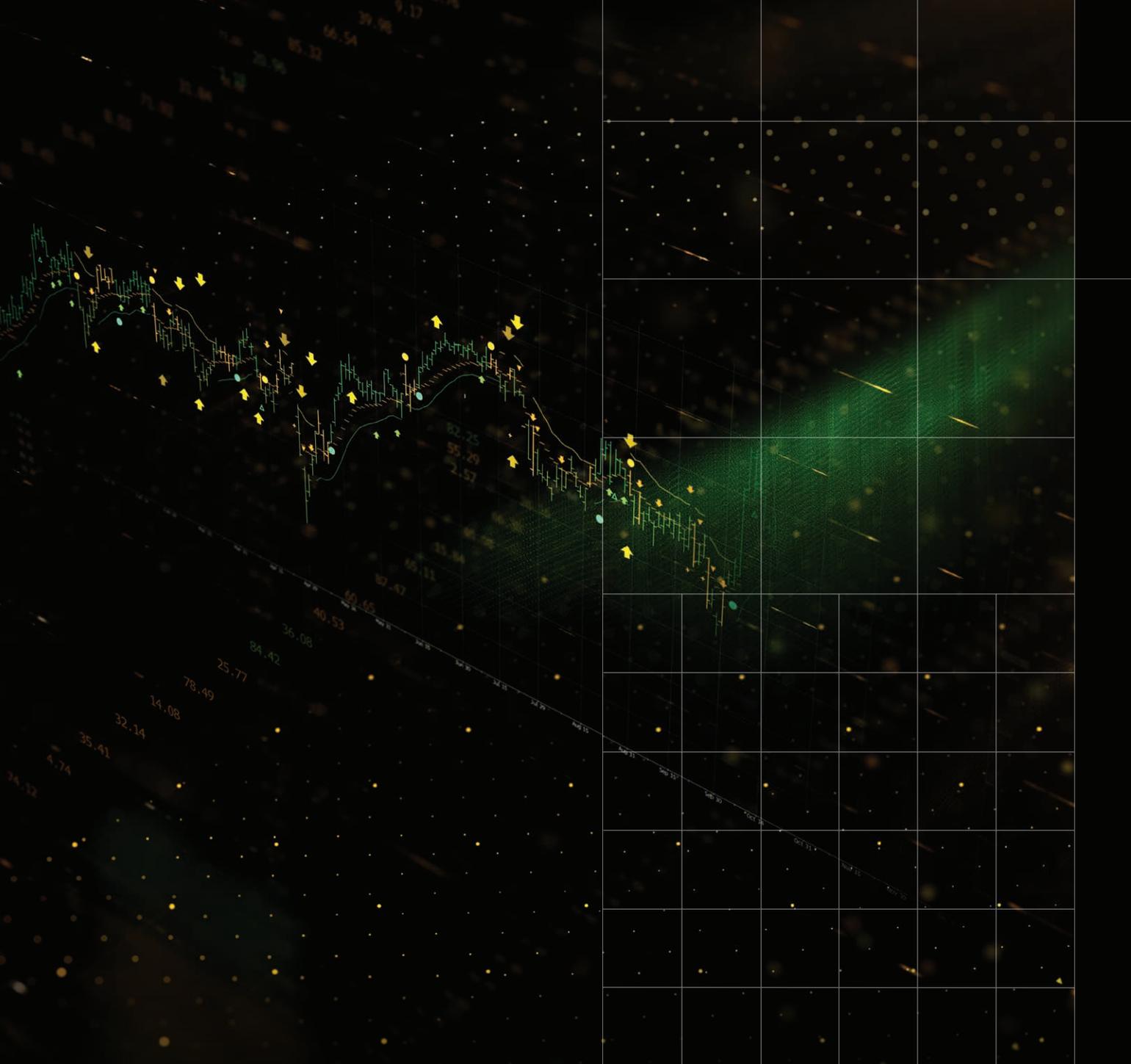
# Climate-related analysis on the Bloomberg Terminal.



Bloomberg Terminal

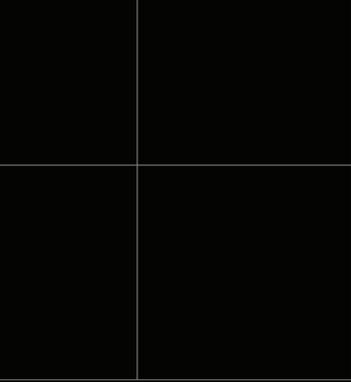
Functions for Market

**Bloomberg**



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# Climate-related analysis on the Bloomberg Terminal.

Climate change poses both risks and opportunities for businesses and investors. To help uncover these risks and opportunities, the Financial Stability Board Task Force on Climate-related Financial Disclosures (TCFD) has issued recommendations to guide companies in disclosing climate-related financial information that is decision-useful and comparable.

Bloomberg supports these efforts. Mike Bloomberg serves as TCFD Chair and Curtis Ravenel, Bloomberg's Global Head of Sustainable Business & Finance, is a member of the TCFD Secretariat. Bloomberg has also developed tools that stakeholders can use to assess climate-related risk and prepare TCFD-style financial disclosures. Here are Bloomberg's latest tools for climate-related analysis.

To learn more about these tools, please contact your Bloomberg account manager or Ani Kavookjian at [akavookjian@bloomberg.net](mailto:akavookjian@bloomberg.net). For more information on the TCFD, please visit [www.fsb-tcfid.org](http://www.fsb-tcfid.org) or email [info@fsb-tcfid.org](mailto:info@fsb-tcfid.org).

## Data on the Bloomberg Terminal

### Identify TCFD-aligned metrics

Enhance investment decision-making by integrating any of the 70+ data fields available on the Bloomberg Terminal® that correspond to TCFD-aligned metrics and targets. Policy fields help identify companies addressing climate change risks and opportunities through company governance and operations. Bloomberg also offers click-through transparency to underlying documentation. Companies and investors can access most of these fields through Bloomberg Terminal applications such as Financial Analysis (FA), Relative Valuation (RV), Portfolio & Risk Analytics (PORT), Equity Screening (EQS) and Charts (CHAR) or can download the data into their own systems for analysis via API. (Most of these fields are also available for off-Terminal enterprise-wide use via Bloomberg Data License.)

### Financial Analysis – FA <GO>

FP FP Equity		96 Actions			97 Export		98 Settings		Financial Analysis										
TOTAL SA		BQL		Periods		10		Annuals		Cur		FRC (USD)							
1 Key Stats		2 I/S		3 B/S		4 C/F		5 Ratios		6 Segments		7 Addl		8 ESG		9 Custom		10 Shared	
11 Overview		12 Environmental		13 Social		14 Governance		15 Exec & Dir Comp		16 ESG Ratios		17 CDP							
In Millions of USD except Per Share		2017 Y		2016 Y		2015 Y		2014 Y		2013 Y		2012 Y							
12 Months Ending		12/31/2017		12/31/2016		12/31/2015		12/31/2014		12/31/2013		12/31/2012							
Global Reporting Initiatives Checked		NO		NO		NO		NO		NO		NO							
Verification Type		Yes		Yes		Yes		Yes		Yes		Yes							
Emissions																			
GHG Scope 1		50,000.0		51,000.0		50,000.0		44,000.0		46,000.0		47,000.0							
GHG Scope 2		4,000.0		4,000.0		4,000.0		4,100.0		4,300.0		4,400.0							
Total GHG Emissions		54,000.0		55,000.0		54,000.0		48,100.0		50,300.0		51,400.0							
GHG Scope 3		400,000.0		420,000.0		530,000.0		550,000.0		550,000.0		-							

FP FP Equity		96 Actions			97 Export		98 Se						
TOTAL SA		Key Stats		I/S		B/S		C/F		Ratios		Se	
11 Overview		12 Environmental		13 Social		14 Governance							
In Millions of USD except Per Share		2017 Y											
12 Months Ending		12/31/2017											
Climate Change Policy		Yes											
New Products - Climate Change		No											
Climate Change Opportunities Discus.		Yes											
Risks of Climate Change Discussed		Yes											

Financial Analysis: Source Document	
FY 2017	
<b>5.2.4.2 Strategy</b>	
<b>Identification of climate-related risks and opportunities</b>	
The risks and opportunities related to climate change are analyzed according to different timescales: short term (until 2020), medium term (until 2030) and long term (beyond 2030).	
As mentioned in point 5.2.4.1 of this chapter, the risks related to climate change are identified in the analysis of investment projects and their impact is also examined for the entire Group portfolio. These risks are presented in detail in point 3.1.2 of chapter 3.	
Climate change also provides TOTAL with opportunities:	
<ul style="list-style-type: none"> <li>- In the coming decades, demand for electricity will grow faster than the global demand for energy, and the contribution of renewables and gas to the production of electricity is essential to the success of the 2°C scenario. This represents an opportunity for TOTAL. Access to energy and decentralized production are part of this opportunity;</li> </ul>	

Viewing climate-related data

## Equity Screening – EQS <GO>

### Screen for climate-related performance

Use Bloomberg's Equity Screening tool to generate investment ideas related to climate change. By screening climate-related characteristics such as greenhouse gas emissions, investors can generate and evaluate an investible universe that expresses a view on the financial implications of climate change. This list of companies can then be viewed throughout Terminal applications, including portfolio analysis, benchmark tracking, historical studies, backtesting and news alerts. The sample screen below filters for global oil and gas companies that have emissions reduction initiatives and climate change policies and are reporting Scope 1 Greenhouse Gas Emissions.

Actions ▾		99) Backtest		Equity Screening	
				As Of	08/09/2018 📅
Screening Criteria					
31) Exchanges		32) Sectors		33) Country of Domicile	
34) Indices		35) Portfolios/Monitors		45) More Categories	
Add Criteria					
				3) Fields	
Selected Screening Criteria				Matches	
Security Universe				1022459	
51) ▾	Trading Status: Active			329105	⊙
52) ▾	Security Attributes: Show Primary Security of company only			71008	⊙
53) ▾	Sectors (BICS): Oil Gas & Coal			2195	⊙
54) ▾	Latest FY Emissions Reduction Initiatives = 1			180	⊙ ⊙
55) ▾	Latest FY Climate Change Policy = 1			111	⊙ ⊙
56) ▾	Latest FY GHG Scope 1 has data			52	⊙ ⊙

Screening  
oil & gas companies

## Company Document Search – DSCO <GO>

### Search for climate-related disclosures

Search for companies mentioning climate change or the TCFD in transcripts of calls or presentations or in their corporate filings. Searching in DSCO <GO> can help identify companies taking the lead on improving disclosure of climate-related risks and opportunities. Use alert features in DSCO <GO> to stay informed when a company addresses climate issues or references the TCFD.

The screenshot shows the DSCO <GO> interface with various filters applied: "TCFD", "TASK FORCE ... X", and "TASK-FORCE ... X". The search results list several documents, with the top one being "Australia & New Zealand Bankin: Corporate Responsibility 2017/12/11". The preview shows a document discussing climate-related financial disclosures and the bank's commitment to TCFD recommendations.

Finding TCFD activity

## Carbon Footprint Tool – XLTP XPCF <GO>

### Uncover concentrated carbon risks

Align with TCFD recommendations to use carbon footprinting to identify concentrated carbon risks in investment portfolios. Bloomberg's Portfolio Carbon Footprint Tool in Excel connects with PORT and follows multiple recommended methods to calculate a portfolio's footprint and compare it to a benchmark or another portfolio.

Bloomberg		Portfolio Carbon Footprint Tool								
Language	English	FTSE 100 INDEX	Weights of Members with Estimated Carbon Data					Portfolio	Benchmark	
Portfolio	UKX Index	STXE 600 € Pr	Weights of Members with Reported Carbon Data					0.62	5.66	
Benchmark	SXXP Index		Carbon Impact (tonnes)					355871188.48	1335895455.92	
Classification (for estimate)	BICS		Market Value of members in calculation (in 1 million USD)					2516531.39	9761208.74	
Level (for estimate)	Level 1		Carbon Efficiency (tonnes/1m USD invested)					141.41	136.86	
Normalised By	Sales		Carbon Intensity (tonnes/1m USD sales or assets)					151.64	174.69	
Debt Denominator	Net Debt		Swedish Fund Industry Carbon Intensity					199.50	245.58	
Fiscal Year	2015		Name	Ticker	Allocation Effect or Data Source	Selection Effect	Total Attribution	Weight	Weighted Carbon	
Group By	BICS Level 1						Portfolio	Benchmark	+/-	Portfolio
FTSE 100 INDEX grouped by BICS Level 1										
Communications			1.66	0.19	-	1.46	6.54	5.40	1.14	32.79
Consumer Discretionary			2.22	10.78		13.01	8.34	11.09	-2.75	222.98
Consumer Staples			5.34	3.22	-	8.56	17.83	13.25	4.58	40.02
Energy			12.20	3.42	-	8.78	15.50	6.03	9.47	281.41
Financials			0.01	0.17	-	0.15	23.11	23.12	-0.01	10.73
Health Care			3.96	1.19	-	2.77	9.33	12.30	-2.98	28.93
Industrials			7.70	1.13	-	6.57	3.38	10.83	-7.45	37.87
Materials			8.39	21.32	-	12.93	9.87	8.67	1.19	661.92
Technology			4.09	0.34	-	3.75	2.81	5.51	-2.70	11.08
Utilities			4.93	29.88	-	34.81	3.30	3.81	-0.51	244.51

Measuring a portfolio's carbon footprint

## Scenario Analysis Tool – APPS TRACK <GO>

Analyze scenarios for oil and gas companies

Evaluate potential future capex at risk in the oil and gas industry under a 2° Celsius scenario with the 2D Scenario Analysis Tool, created by Carbon Tracker and powered by Rystad Energy's asset-level data, which helps determine how much of a company's potential future capex is at risk under a 2° Celsius scenario. The model can evaluate scenarios reported by companies themselves or can be used to identify opportunities in companies already transitioning to low-carbon strategies.



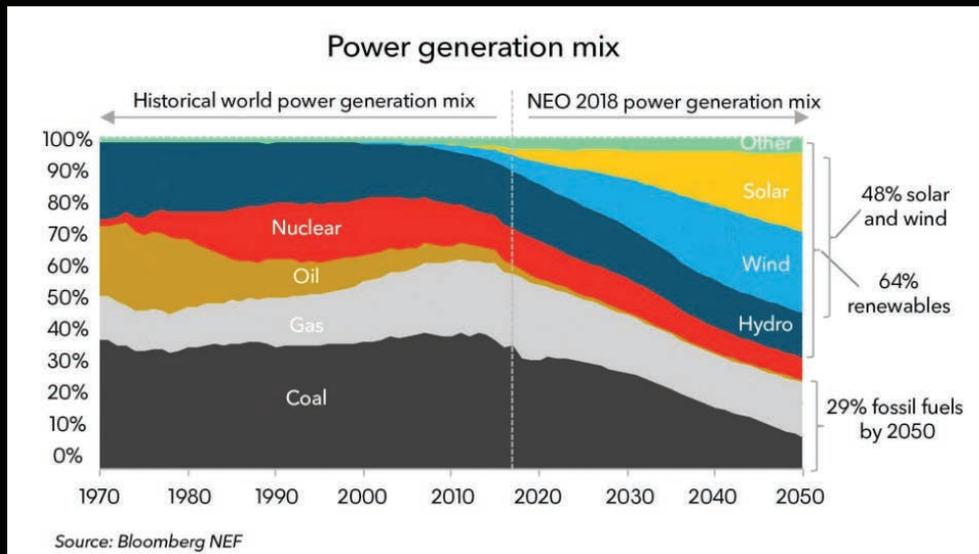
Assessing a company's resiliency

## Bloomberg NEF's New Energy Outlook – BNEF NEO <GO>

### Leverage unique insights & analytics

Bloomberg NEF's annual forecasts on energy and transportation can provide critical inputs to scenario analysis work conducted by corporations and investors. These market-leading reports offer unique insight into future energy production generation, as well as trends and investment signals in transportation and related industries. Among BNEF's long term outlooks, the New Energy Outlook (NEO) provides a unique view of how the world's power sector will evolve out to 2050.

### New Energy Outlook 2018

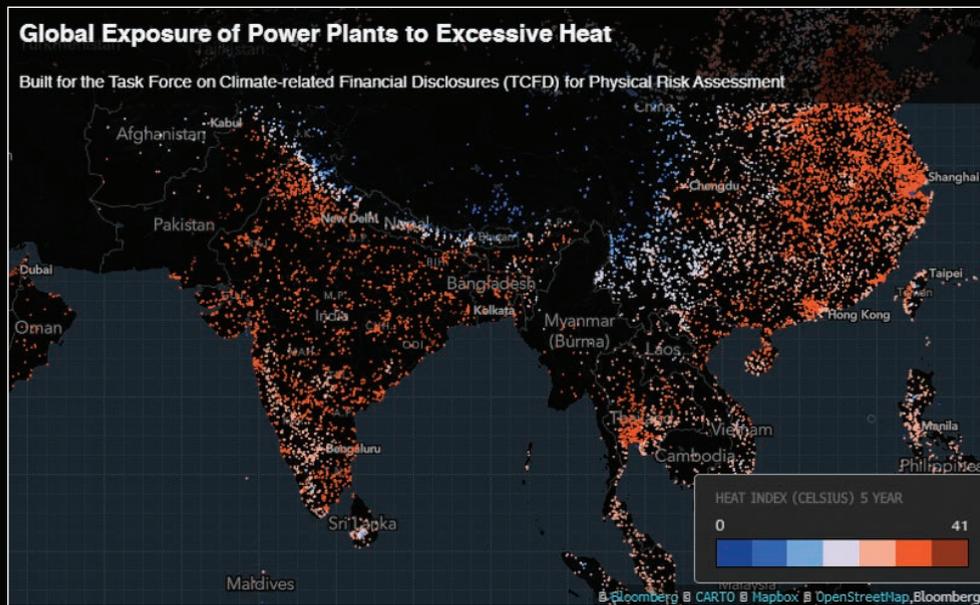


Exploring energy trends

## Physical risk assessment – MAPS <GO>

### View climate risks for key assets

Map key assets such as power plants, oil refineries and natural gas pipelines against a range of risks to determine which portfolio holdings or supply chains carry climate risks and which organizations may be more resilient to climate change. Working in collaboration with the United Nations Environment Programme Finance Initiative's TCFD pilot program for banks, Bloomberg has updated its mapping tools to include more than 100 new climate-related data sets.



Mapping risks to power plants

## Bloomberg Sustainable Finance solutions

For more information about Bloomberg's full suite of Sustainable Finance solutions, visit [BESG <GO>](#) on the Terminal or [bloomberg.com/esg](https://www.bloomberg.com/esg) on the web.

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