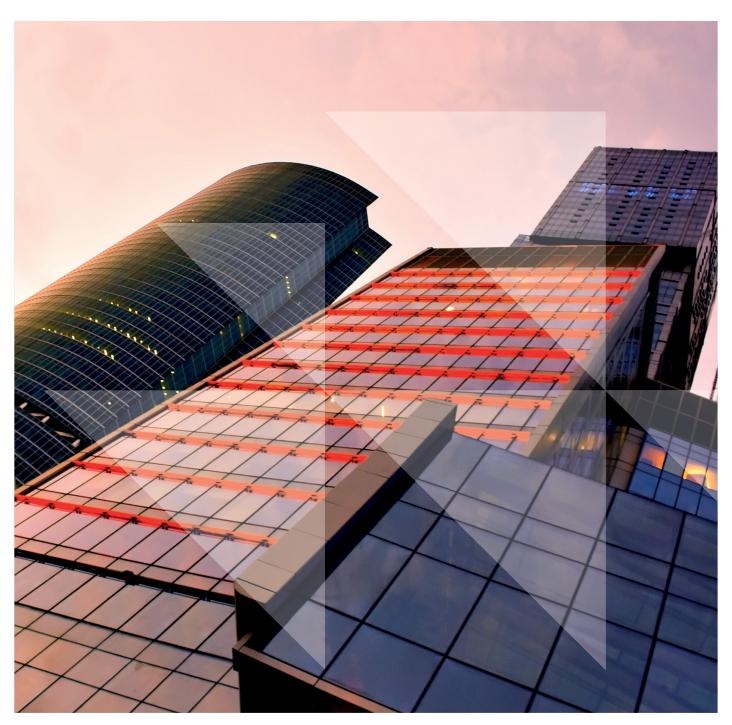


Sector insights: what is driving climate change action in the world's largest companies?

Global 500 Climate Change Report 2013

12 September 2013



Report writer and global advisor



The evolution of CDP

With great pleasure, CDP announced an exciting change this year.

Over ten years ago CDP pioneered the only global disclosure system for companies to report their environmental impacts and strategies to investors. In that time, and with your support, CDP has accelerated climate change and natural resource issues to the boardroom and has moved beyond the corporate world to engage with cities and governments.

The CDP platform has evolved significantly, supporting multinational purchasers to build more sustainable supply chains. It enables cities around the world to exchange information, take best practice action and build climate resilience. We assess the climate performance of companies and drive improvements through shareholder engagement.

Our offering to the global marketplace has expanded to cover a wider spectrum of the earth's natural capital, specifically water and forests, alongside carbon, energy and climate.

For these reasons, we have outgrown our former name of the Carbon Disclosure Project and rebranded to CDP. Many of you already know and refer to us in this way. Our rebrand denotes our progress as we continue to catalyze action and respond to business, finance, investment and environmental needs globally.

We now have a bolder, more dynamic look and logo that reflects the scale of the work we must undertake in the coming years to move the markets ahead of where they would otherwise be on these issues and realize truly sustainable economies.

- Over 5,000 companies from all over the world have been asked to report on climate change through CDP this year;
- 81% of the world's 500 largest public companies listed on the Global 500 engage with CDP to enable effective measurement of their carbon footprint and climate change action;
- CDP is a not-for-profit organization. If you would like to support our vital work through donations or sponsorship opportunities, please email paul.robins@cdp.net or telephone +44 (0) 7703 184 312.



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CEO Foreword



As countries around the world seek economic growth, strong employment and safe environments, corporations have a unique responsibility to deliver that growth in a way that uses natural resources wisely. The opportunity is enormous and it is the only growth worth having.



This year we passed a significant landmark of 400ppm of carbon dioxide in the atmosphere and are rapidly heading towards 450ppm, accepted by many governments as the upper limit to avoid dangerous climate change. The Intergovernmental Panel on Climate Change (IPCC) 5th assessment report (AR5) strengthens the scientific case for action.

Fears are increasing over future climate change impacts as we see more extreme weather events, Hurricane Sandy the most noted with damages totalling some \$42 billion¹. The unprecedented melting of the Arctic ice is a clear climate alarm bell, while the first 10 years of this century have been the world's hottest since records began, according to the World Meteorological Organization.

The result is a seismic shift in corporate awareness of the need to assess physical risk from climate change and to build resilience.

For investors, the risk of stranded assets has been brought to the fore by the work of Carbon Tracker. They calculate around 80% of coal, oil and gas reserves are unburnable, if governments are to meet global commitments to keep the temperature rise below 2°C. This has serious implications for institutional investors' portfolios and valuations of companies with fossil fuel reserves.

The economic case for action is strengthening. This year, we published the 3% Solution² with WWF showing that the US corporate sector could reduce emissions by 3% each year between 2010 and 2020 and deliver \$780 billion in savings above costs as a result. 79% of US companies responding to CDP report higher ROI on emission reductions

investments than on the average business investment. Meanwhile, governments are taking new action: The US Administration has launched its Climate Action Plan, with a new emphasis on reducing emissions from utilities; China is developing air pollution measures and moving toward pilot cap and trade schemes; the UK Government has mandated greenhouse gas emissions reporting for all large listed companies; the EU is looking at improving environmental and other reporting.

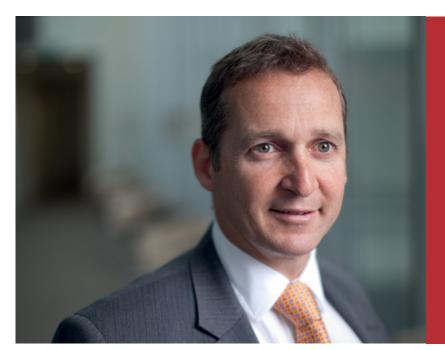
The pressure on corporations, investors and governments to act continues. At CDP, we have broadened our work to add forests to climate and water so our programs now extend to an estimated 79% of natural capital, by value³. To reflect this, we rebranded at the start of the year from the Carbon Disclosure Project to CDP and are increasing our focus on projects to accelerate action. One explores how corporations influence public policy on climate change both positively and negatively. Some corporations are still acting – both directly and through trade associations – to prevent the inevitable: nations need sensible climate regulation that protects the public interest over the long term.

As countries around the world seek economic growth, strong employment and safe environments, corporations have a unique responsibility to deliver that growth in a way that uses natural resources wisely. The opportunity is enormous and it is the only growth worth having.

Paul Simpson
CEO CDP

1 New York State Hurricane Sandy Damage Assessment; Governor Andrew Cuomo; November 12, 2012 http://www. governor.ny.gov/ press/11262012damageassessment 2 https://www.cdproject. net/CDPResults/3percent-solution-report.pdf 3 Based on findings from the report Natural Capital at Risk: The Top 100 Externalities of Business published by TEEB for Business Coalition in April 2013.

Investor Perspective



We seek to ensure the companies we invest in achieve and maintain high standards of corporate responsibility which includes the measurement and management of environmental impacts. CDP is a critical partner, for us, in fulfilling this responsibility.



CDP plays an important role in making available to investors high quality comparable data on company environmental performance, covering carbon emissions, water usage and forestry issues. Quantifying a company's use of 'natural capital' enables investors to integrate sustainability issues into investment decision making and company engagement. CDP is therefore working to improve market efficiency and enabling responsible investment.

Increases in extreme weather events, water shortages, pollution, loss of biodiversity and deforestation are among the environmental issues that must be confronted. Projected increases in atmospheric CO_2 levels would lead to climate change that would inflict suffering on humanity and costs to the global economy on a fundamentally different level than that of any financial crisis we have ever experienced. These issues are now well known and broadly accepted. However, the collective response from governments to date has been disappointing in their focus on short term political desires rather than longer term mutual necessity.

The understandable temptation for policy makers and businesses is to focus on the short term pressures of the market and to postpone facing up to environmental challenges until the global economy is restored to full health. This would compound the situation. CDP challenges companies to do more on both reporting and absolute emission reductions. Despite progress in reducing emissions in overall terms by some companies a significant scope for improvement across sectors remains. For there to be a meaningful movement towards absolute emissions reductions, companies must test the concept of a trade-off between economic performance and environmental responsibility. Top performing companies demonstrate that improving environmental

performance can add to the bottom line. The evidence in this report suggests linking incentives and business strategy to environmental metrics is an effective approach in achieving this goal. These are business issues that the investor community can clearly engage with companies on.

At Henderson Global Investors we manage almost £70bn on behalf of our clients who demand top class performance and responsible investment that meets their long-term requirements. We therefore seek to ensure the companies we invest in achieve and maintain high standards of corporate responsibility which includes the measurement and management of environmental impacts. CDP is a critical partner, for us, in fulfilling this responsibility.

Alongside a number of other investors, Henderson is a member of CDP's Carbon Action Initiative. This collaborative engagement exercise is designed to encourage the world's largest companies to move beyond measurement to actively work to reduce emissions over time by setting and publicly reporting emissions reduction targets. We believe that those companies that become leaders in this area and anticipate future regulatory actions, will gain significant business benefits over the long run.

I would like to thank CDP for the work it has done to date, and look forward to its continued success.

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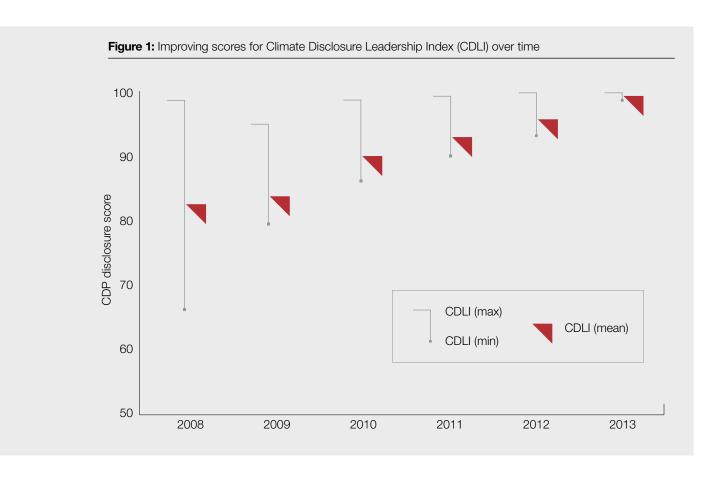
Andrew FormicaCEO Henderson Global Investors

Executive Summary

Businesses increasingly face the dual risks of climate and policy shocks. How companies build and demonstrate their resilience to these climate risks has important implications for their reputation with their stakeholders and for the value of their businesses. It is for these reasons that 722 investors representing US\$87 trillion of assets this year requested that the 500 largest listed companies measure and report what climate change means for their business through CDP's climate change program.

This year, 81% (403) of companies in the Global 500¹ took part. Demonstrating corporate understanding of the need for climate transparency, the quality of the information provided by companies has continually improved. To secure a position on CDP's Climate Disclosure Leadership Index (CDLI), companies must achieve a disclosure score in the top 10% of the Global 500 sample. The minimum score for entering the CDLI has risen to 97% (up from 94% in 2012 and 90% in 2011). The number of performance leaders demonstrating a strong approach to climate strategy and emissions reduction in their CDP responses has increased since last year. This highlights how seriously corporations treat their carbon reporting and that this reporting increasingly translates into action.

This report is written for companies, investors and policy makers that want to understand the climate change related risks and opportunities facing business. It assesses how ten key sectors are addressing these challenges and eliciting competitive advantage from this. It looks at how growing markets for products and services are impacting companies' responses to climate change. It also outlines trends seen in companies which are reporting barriers to actions.



¹ The Global 500 are the largest companies by market capitalization included in the FTSE Global Equity Index Series, as at 1 Jan 2013. The Global 500 report is based on the analysis of the 389 responses received by July 1st 2013.

This year's report presents sector-specific analysis. However, three main findings apply across the Global 500 sample:

Big emitters are not doing enough to reduce emissions

Total scope 1 and 2 emissions have not changed significantly in the past five years. The 50 largest emitters have increased their emissions since 2009.

2

Companies are yet to report emissions from the most relevant parts of their value chains

Current reporting of indirect scope 3 emissions does not reveal the full impact of companies' value chains.

3

Money talks: financial incentives are driving emissions reductions

Monetary rewards for employees, particularly at board-level, are powerful catalysts of climate action.

Executive Summary continued

1) Big emitters are not doing enough to reduce emissions

Total scope 1 and 2 emissions² from the Global 500 have fallen steadily from 4.2 billion metric tons CO₂e in 2009 to 3.6 billion metric tons CO₂e in 2013. However, scope 1 and 2 emissions from the 50 largest emitters3, which emitted 73% of total emissions in 2013, have increased by 1.65% since 2009 (see Table 1). The five largest emitters of each sector have also seen their scope 1 and 2 emissions increase by an average of 2.3% since 20094 (see sector snapshots for details). This suggests that the biggest emitters, who have the largest impact on global emissions and so present the greatest opportunity for large-scale change, need to do more to reduce their emissions. Policy makers could help to accelerate the necessary change by increasing incentives.

The difference in the direction of change between the Global 500 sample and the largest emitters can to some extent be explained by a change in the number and composition of companies within the Global 500 since 2009. However, emissions of the largest emitters remain globally significant.

Energy, utilities and materials companies, for example, represent less than a quarter of the Global 500 population but are responsible for well over three quarters (87%) of scope 1 and 2 emissions. The proportion of companies from these high emitting sectors has fallen from 26% in 2009 to 23% today. Had the proportion staved the same, emissions in 2013 would have been significantly higher. Indeed, the scope 1 and 2 emissions of each of these sectors are individually more than double the combined scope 1 and 2 emissions of all other sectors. The drop in scope 1 and 2 emissions from utility companies alone since last year is equivalent to more than the combined scope 1 and 2 emissions from healthcare, consumer staples, consumer discretionary, telecommunication services, IT and financials.

This year the majority of Global 500 companies report emissions reduction targets (84%) and resulting emissions reductions⁵ (75%) in some areas of their business. However, with an increase since 2009 in scope 1 and 2 emissions for the highest emitters across the Global 500 and in each sector, there is a disparity between companies' strategies, targets and the emissions reductions which are required to limit global warming to 2C.

Table 1: Change in emissions reported by the 50 largest emitters in 2013 between 2009 and 2013

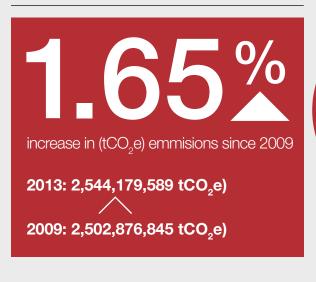
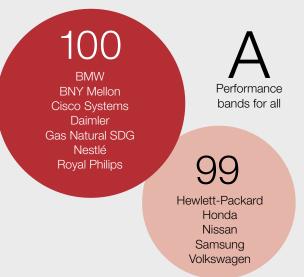


Figure 2: Highest scoring companies across both performance and disclosure



² Total reported scope 1 and 2 emissions. It should be noted that scope 2 figures for 2013 are not directly comparable with 2012 as companies can now incorporate the specific emissions factors associated with renewable energy purchases where supported by an appropriate tracking instruments.

³ Analysis of the 50 largest emitters in 2013 for whom complete emissions data is available from 2009. See Appendix IV.

⁴ Analysis of the 5 largest emitters per sector in 2013 for whom complete emissions data is available since 2009 (50 companies).

⁵ Emissions reductions can be reported against a business-as-usual projection, which might represent a company's overall increase in absolute emissions.

2) Companies are yet to report emissions from the most relevant parts of their value chains

Most companies (97%) disclose scope 1 and 2 emissions from their operations. However, while companies are able to identify the most carbon intensive activities from their value chains, the emissions of nearly half (47%) of these activities are yet to be quantified.

Instead of measuring carbon-intensive activities in their value chain, companies often focus on relatively insignificant opportunities for carbon reductions. Figure 3 shows the disparity in the proportion of companies reporting the different types of scope 3 activities and the actual scope 3 emissions reported for each of these activities. While 'use of sold products' is reported by 25% of companies, it accounts for 76% of reported scope 3 emissions. Meanwhile, 72% of companies report emissions from business travel, which accounts for only 0.2% of total reported scope 3 emissions.

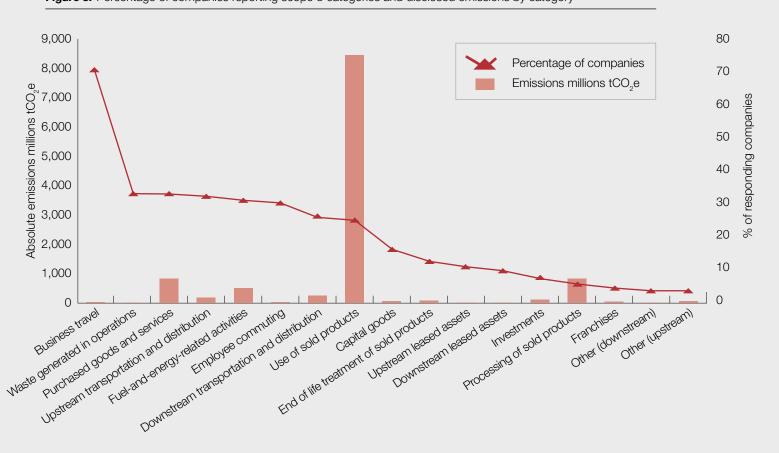
The importance of different scope 3 categories varies between sectors. However, companies do not always report their primary sources of scope 3 emissions. For example, while 83% of financial companies report emissions associated with business travel, only 6%

of them report emissions from their investment activity, where the significant majority of their scope 3 emissions originate. Similarly, only 22% of industrials report emissions from the use of sold products, which is where the majority of their scope 3 emissions come from.

Overall, this suggests that current scope 3 reporting does not reflect the full impact of companies' activities, and may mislead as to the full carbon impact of a company.



Figure 3: Percentage of companies reporting scope 3 categories and disclosed emissions by category



Executive Summary continued

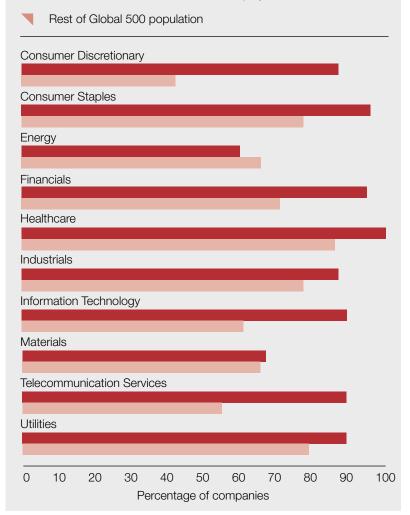
3) Money talks: financial incentives are driving emissions reductions

Monetary rewards for employees are powerful tools to drive climate action. Figure 4 shows that companies with monetary rewards are more likely to achieve absolute emissions reductions.

With the exception of the energy sector, companies reporting monetary rewards linked to energy or emissions reductions are more likely to report decreases in emissions. 85% of companies that provide monetary incentives to the board, executive team or all employees, report emissions reductions in the past year. By comparison, only 67% of other companies report reductions in emissions.

Figure 4: Percentage of companies with monetary rewards related to energy and emissions reductions reporting decreased emissions

Energy reduction incentive and monetary reward at board level, executive team level or to all employees



4) Other findings from the Global 500

Companies find it easier to quantify risks rather than opportunities

Global 500 companies identify a range of risks and opportunities (see Figures 5 & 6). However, they are more likely to quantify and monetize the impact of risks than opportunities: 54% of companies quantified at least one risk while only 41% quantified at least one opportunity. Companies tend to focus on tangible risks in areas such as carbon taxes or energy prices, whereas the benefits from climaterelated opportunities are often less tangible, such as changing consumer behavior. Companies are consequently less likely to quantify the impact of these opportunities. This suggests that businesses may be missing some significant risks and opportunities because valuation methods are unavailable.

The broad categories of climate risk reported are: regulation (84%), physical impacts (83%), and other related risks such as reputation (77%). Within these, reputation, changes in seasonal rainfall, cap-and-trade schemes and carbon taxes are mentioned by 51%, 43%, 42% and 39% of companies respectively. The most common climate-related opportunities mentioned by Global 500 companies are the less tangible changing consumer behavior (53%) and reputation (51%).

Longer payback times linked to strategic advantage

When considering capital investments in emissions reduction activities, companies can face challenges in justifying investments with longer payback periods (three years or more). However, companies that are making longer term investments to reduce their emissions are more likely to report that their climate change strategy affords them a strategic advantage over their competitors. 77% of companies with at least one investment with a payback time of three years or more state that their climate strategy gives them a competitive advantage (65% in 2012). Of the companies which do not have long-term investments in emissions reductions, only 54% report a strategic advantage from their response to climate change (2012: 58%).

Rise in independently verified emissions ensures data quality

71% of responding companies verified their emissions in 2013: a 29% increase from 2012 and almost double the percentage in 2011. Investors and shareholders have always demanded accuracy in a company's financial information. Increasingly, they are demanding accuracy in non-financial information as well. This positive trend should increase the trust in the data and therefore its use.

Figure 5: Percentage of companies selecting most commonly reported 5 risks



Figure 6: Percentage of companies selecting most commonly reported 5 opportunities

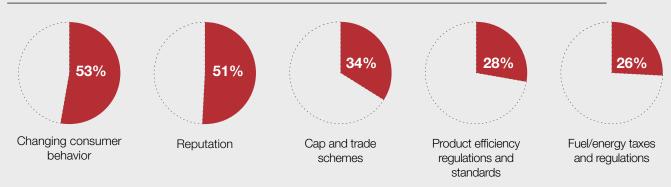


Figure 7: Methods used to drive investments in emissions reduction activities

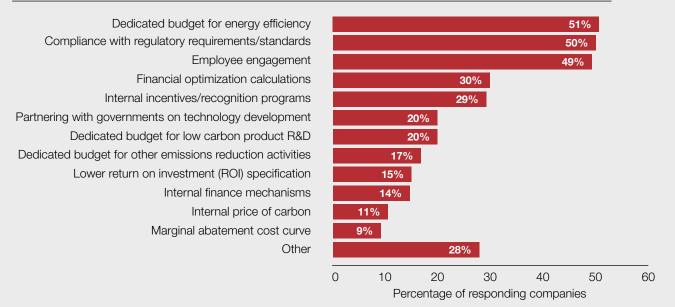


Figure 8: Number of companies with verification/assurance of emissions complete or underway



Global 500 Sector Assessment 2013

Table 2: Assessment of each sector's performance against the Global 500 average

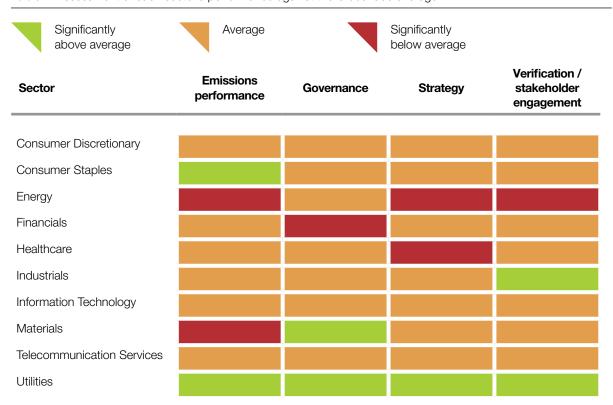


Table 2 compares sectors' climate performance scores with the average score across the Global 500. Across the four categories which were analyzed, utilities significantly outperformed average Global 500 companies while energy under-performed.

Sector overviews:

Consumer Discretionary

Total scope 1 and 2 emissions in consumer discretionary are not as significant as emissions in other sectors. However, the scope 3 emissions are 19 times higher than the sector's total scope 1 and 2 emissions. Emissions of the five biggest emitters have not changed significantly since 2009, although a majority of companies in the sector has reported absolute emission reduction targets as well as a decrease in emissions due to emissions reduction activities. Sector leaders have obtained outstanding results in the CPLI and CDLI, with three companies (BMW, Daimler and Royal Philips) achieving the maximum disclosure score of 100 as well as the highest performance band A. Nevertheless, the sector remains average in its overall performance relative to the Global 500 sample.

Consumer Staples

Consisting of some of the world's biggest consumer brands, companies in consumer staples are heavily influenced by changing consumer preferences. Although 58% of companies report a decrease in absolute emissions, the sector's overall scope 1 and 2 emissions have increased by 2.9% since 2012. However, the sector accounts for only 3% of total scope 1 and 2 emissions reported by the Global 500.

Energy

With one of the highest overall emissions of all sectors – the sector is responsible for 28.3% of total reported Global 500 scope 1 and 2 emissions – efforts to reduce emissions in the energy sector are essential to the global mitigation of climate change. However, 50% of energy companies have a performance band of C or lower. Since 2009, the overall emissions of the ten biggest emitters in the sector have increased by 53%. The sector also has the highest number of companies without emission reduction targets (24%), which companies justify by concerns that targets would constrain growth in their companies and in the wider economy.

⁶ The sector assessment is based on the following areas of the questionnaire: emissions performance - reporting of scopes 1, 2, and 3 emissions data and % operational spend on energy costs, energy use, absolute and/or intensity targets, emission reduction activities, change in emissions from prior year. Governance - level of oversight, incentives/rewards, risk management approach. Verification/stakeholder engagement - verification/assurance, engagement with policy makers, communication of sustainability information to public. Strategy - integrated strategy, identified risks and opportunities, emissions trading.

Financials

The financial sector makes up 24% of the respondents but is the lowest emitting sector in the Global 500: it represents only 0.6% of total reported scope 1 and 2 emissions. While 67% of companies report reductions in their emissions since 2012, there is a general lack of understanding of the full impact of companies' value chains. Indeed, only 6% of financials report the carbon impact of their investments, which would be their main area of scope 3 emissions.

Healthcare

Representing only 0.8% of total reported Global 500 scope 1 and 2 emissions, the healthcare sector has a limited impact on global emissions. Nevertheless, 57% of companies report a decrease in absolute emissions since 2012 (total decrease of 4.9%). Consistent drivers for emissions reductions are energy efficiency activities such as green information technology and building efficiency.

Industrials

Industrial companies will play an important role in the transition to a low carbon economy and 97% of industrial companies report that their products and services help reduce emissions. However, only 22% of companies in the sector report the emissions from the use of sold products, which suggests an incomplete understanding of their full value chains' impacts.

As companies respond to the demand for more efficient products, many companies have made substantial investments into research and development.

Companies are also engaging proactively with policymakers, where regulation plays a central role in the sector's response to climate change. Changing regulation can present significant opportunities for companies, but equally uncertainty surrounding new regulation can pose threats to business.

Information Technology

Overall emissions in the information technology sector have decreased by 21.9% since 2012. However, half of this reduction is due to divestments by Samsung. 89% of information technology companies state that their products help reduce emissions, which is important as the sector's scope 3 emissions are more than four times that of their scope 1 and 2 emissions.

Materials

The materials sector is the third biggest emitting sector, representing 26.2% of total reported scope 1 and 2 emissions. Companies are heavily exposed to regulatory risks such as carbon taxes and cap-and-trade schemes, with 74% of companies reporting regulatory issues as key risks. Mining companies, in particular, are also concerned about losing their licenses to operate and reputation is therefore seen as a significant risk (63% of companies).

Telecommunication Services

Representing 1.1% of total reported scope 1 and 2 emissions, the telecommunication services sector is focusing on avoided emissions for others rather than emissions from own operations. In fact, all companies in the sector state that their products and services help avoid emissions. 91% of companies have emissions reduction targets and the sector's overall scope 1 and 2 emissions decreased by 0.6% compared to 2012.

Utilities

With the highest emissions of all the sectors, representing a third of total reported scope 1 and 2 emissions, utility companies will play a critical role in helping customers and businesses avoid emissions. While overall emissions in the sector have decreased by 10.2% since 2012, this is to some extent due to a change in population of respondents. The sector demonstrates a comparatively mature response to climate change, with all companies having emissions reduction targets.

Utilities are acutely aware of the risks and opportunities from climate change. They therefore engage with policymakers to help inform the setting of climate targets more than any other sector and have set up working groups for special programs. Utilities are also looking at their whole value chain and are helping customers avoid emissions through a wide range of products and services that promote energy efficiency and savings.



[Repsol's] New Energy department's mandate is to position Repsol at the forefront of the market for new energy sources. Our activities in 2nd generation biofuels, micro-algae, in electrification of transportation and wind power will provide among others a strategic advantage in supplying energy in the future.

Repsol



2013 Climate Performance Leadership Index (CPLI)



Sector	Company	Performance band	Disclosure score	Consecutive years in the CPLI
Consumer Discretionary	BMW	А	100	4
	Daimler	А	100	1
	Royal Philips	А	100	1
	Honda	Α	99	1
	Nissan	Α	99	1
	Volkswagen	Α	99	1
	British Sky Broadcasting	Α	95	1
	H&M Hennes & Mauritz	Α	83	1
Consumer Staples	Nestlé	Α	100	2
	Diageo	Α	98	2
	L'Oréal	Α	93	1
	Anheuser Busch InBev	Α	85	1
	Unilever	А	82	2
Energy	Spectra Energy	Α	98	1
	BG Group	Α	89	1
Financials	BNY Mellon	Α	100	1
	Bank of America	А	98	4
	Goldman Sachs	Α	98	1
	HSBC	Α	97	1
	Firstrand Limited	Α	96	1
	Morgan Stanley	А	96	1
	Wells Fargo	Α	96	2
	AXA Group	Α	94	3
	TD Bank	Α	94	1
	Ace	Α	93	2
	BNP Paribas	Α	93	1
	Barclays	Α	92	1
	Swiss Re	Α	92	1
	Deutsche Bank	Α	91	2
	Munich Re	Α	91	1
	National Australia Bank	Α	91	4
	Westpac Banking	Α	91	4
	Assicurazioni Generali	Α	87	1
Healthcare	GlaxoSmithKline	Α	98	1
Industrials	Raytheon	Α	98	1
	Schneider Electric	Α	97	3
	CSX	Α	95	1
	Komatsu	Α	95	1
	Lockheed Martin	Α	91	3
Information Technology	Cisco Systems	Α	100	1
	Hewlett-Packard	Α	99	1
	Samsung	Α	99	1
	SAP	Α	98	1
	Adobe Systems	Α	97	1
	EMC	Α	97	1
	Microsoft	Α	96	1
	Infosys	Α	92	1
	Tata Consultancy Services	Α	89	1
Materials	Ecolab	Α	98	1
	Anglo American	Α	96	2
	E.I. du Pont de Nemours	А	96	1
Telecommunication Services	Swisscom	Α	97	1
	Telenor Group	Α	95	1
	BT Group	Α	93	1
Utilities	Gas Natural SDG	Α	100	2
	Exelon	Α	98	2

2013 Climate Disclosure Leadership Index (CDLI)



Sector	Company	Disclosure score	Performance band	Consecutive years in the CDLI
Consumer Discretionary	BMW Daimler Royal Philips General Motors Honda Volkswagen Home Depot Nissan Las Vegas Sands TJX Companies News Corporation	100 100 100 100 99 99 99 99 98 98	A A A A A A B A-	3 2 3 1 2 1 2 1 1 2 4
Consumer Staples	Nestlé Colgate Palmolive Reckitt Benckiser Diageo Philip Morris International	100 99 99 98 97	A B B A B	4 1 1 2 1
Energy	Spectra Energy Repsol Chevron Hess	98 98 97 97	A B A- B	2 2 1 5
Financials	BNY Mellon Bank of America Goldman Sachs Group Marsh & McLennan Simon Property Group HSBC HCP Allianz	100 98 98 98 98 97 97	A A B B A A- B	1 1 2 1 1 1 1 3
Healthcare	Bayer GlaxoSmithKline Johnson & Johnson United Health Group Sanofi	99 98 98 98 98	A- A A- B A-	6 1 1 1
Industrials	Eaton UPS Raytheon Deutsche Post Union Pacific Schneider Electric EADS	100 99 98 98 98 97 97	A- A- A B B B	1 3 1 4 1 1
Information Technology	Cisco Systems Hewlett-Packard Samsung SAP Adobe Systems EMC	100 99 99 98 97 97	A A A A	5 1 5 1 1
Materials	BASF Air Products & Chemicals Ecolab Kumba Iron Ore Praxair Vale POSCO	100 99 98 98 98 98 98	A- B A B B B	6 3 1 1 5 1 2
Telecommunication Services Utilities	Swisscom Gas Natural SDG Iberdrola Exelon Endesa National Grid Centrica	97 100 99 98 98 98 98	A A B A B B B	1 2 2 2 2 1 1 6

2013 Leadership Criteria

Each year, company responses are analyzed and scored against two parallel scoring schemes: disclosure and performance.

The disclosure score assesses the completeness and quality of a company's response. Its purpose is to provide a summary of the extent to which companies have answered CDP's questions in a structured format. A high disclosure score signals that a company provided comprehensive information about the measurement and management of its carbon footprint, its climate change strategy and risk management processes and outcomes.

The performance score assesses the level of action, as reported by the company, on climate change mitigation, adaptation and transparency. Its intent is to highlight positive climate action as demonstrated by a company's CDP response. A high performance score signals that a company is measuring, verifying and managing its carbon footprint, for example by setting and meeting carbon reduction targets and implementing programs to reduce emissions in both its direct operations and supply chain.

The highest scoring companies for disclosure and/or performance enter the CDLI and/or CPLI. Public scores are available in CDP reports, through Bloomberg Terminals, Google Finance and Deutsche Boerse's website.

What are the CDLI and CPLI criteria?

To enter the CDLI, a company must:

- Make its response public and submit via CDP's Online Response System
- Achieve a score within the top 10% of the total Global 500 population (60 companies in 2013)

To enter the CPLI (Performance Band A), a company must:

- Make its response public and submit via CDP's Online Response System
- Attain a performance score greater than 85
- Score maximum performance points on question 12.1a for greenhouse gas emissions reductions due to emission reduction actions over the past year (4% or above in 2013)
- Disclose gross global scope 1 and scope 2 figures
- Score maximum performance points for verification of scope 1 and scope 2 emissions
- Furthermore, CDP reserves the right to exclude any company from the CPLI if there is anything in its response or other publicly available information that calls into question its suitability for inclusion.

Note: Companies that achieve a performance score high enough to warrant inclusion in the CPLI, but do not meet all of the other CPLI requirements are classed as Performance Band A- but are not included in the CPLI.

How are the CDLI and CPLI used by investors?

Good disclosure and performance scores are used by investors as a proxy of good climate change management or climate change performance of companies.

Investors identify and then engage with companies to encourage them to improve their score. The 'Aiming for A' initiative which was initiated by CCLA Investment Management is driven by a coalition of UK asset owners and mutual fund managers. They are asking 10 major UK-listed utilities and extractives companies to aim for inclusion in the CPLI. This may involve filing supportive shareholder resolutions for Annual General Meetings occurring after September 2013.

Investors are also using CDP scores for creation of financial products. For example, Nedbank in South Africa developed the Nedbank Green Index. Disclosure scores are used for selecting stocks and performance scores for assigning weight.

For further information on the CDLI and the CPLI and how scores are determined, please visit **www.cdp.net/guidance**

CDLI and CPLI financial returns against overall Global 500

Figure 9: CPLI [2010 - 2013] returns against overall Global 500

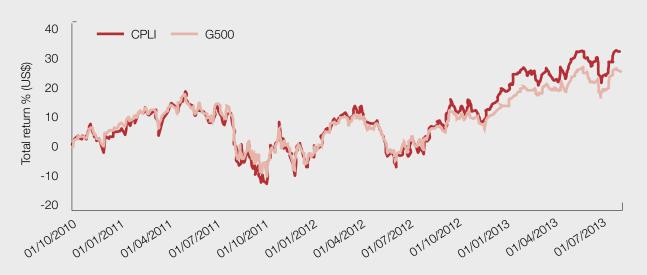
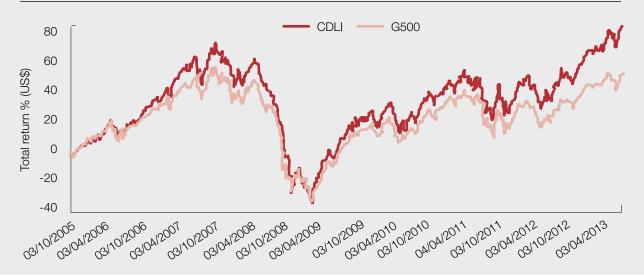


Figure 10: CDLI [2005 - 2013] returns against overall Global 500



Annual analysis of the companies that have achieved leadership positions on either the CPLI or the CDLI in the past suggests that companies that achieve leadership positions in climate change generate superior stock performance (see Figures 9 & 10). Since 2005, CDLI companies delivered total returns of 82.8%, outperforming the Global 500 (49.6%) by more than two thirds. Moreover, CPLI companies generated average total returns of 31.9% since 2010, outperforming the Global 500 (24.8%) by more than a quarter. The methodology for this analysis has been changed from previous years, however the superior financial performance of the leaders still shows through especially in the most recent years⁷.

While equity market performance is influenced by a broad range of quantitative factors including country, sector and financial performance, as well as qualitative considerations such as company management, governance and risk management. Nonetheless, this analysis suggests a correlation, although not a causality, between financial performance and good climate change performance and disclosure.

⁷ Total Return includes interest, capital gains, dividends and distributions realized over a given period of time. Sources: Bloomberg and CDP. Note: Results presented should not and cannot be viewed as an indicator of future performance or as investment advice. Performance of CDLI and CPLI companies is calculated using drifting weights, on an equally-weighted basis relative to the FTSE Global Equity Index Series and rebalanced on the first business day in October each year. Therefore, the 2013 CDLI & CPLI companies are not included in this analysis. For this report we weighted the companies based on the first business day in October each year, compared to last years report, where we used the one share per company method. Please refer to the important notices on the contents page of this report regarding the use of CDP data in other publications.

Performance and disclosure across geographies:

Figure 11: Percentage of companies in the CPLI by country

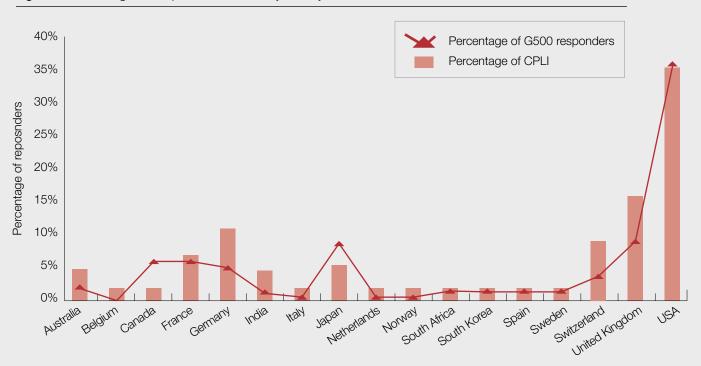
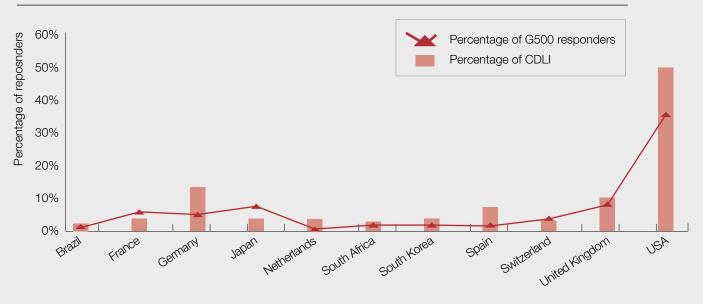


Figure 12: Percentage of companies in the CDLI by country



The UK, US and Germany are the countries with the highest representation in the CPLI (Figure 11), with the US and UK more than doubling the percentage represented in the CPLI, compared with last year. Relative to the geographic composition of the Global 500, Germany, the UK and Switzerland show over-proportionate representation in the CPLI this year.

India has a company in the performance leadership index for the first time. Meanwhile, companies from South Korea, Norway and Sweden have entered the CPLI again after at least a year out.

To provide insights into completeness of disclosure, Figure 12 shows that Spain has the highest proportion of companies in the CDLI relative to its representation in the Global 500.

PwC Commentary



Governments, investors, customers and communities make different, often contradictory, demands of business. Current business models are ill-equipped to deal with these contradictions.



In both developed and emerging economies, the demand for growth is increasingly urgent. Growth is vital to lift people out of poverty and provide jobs and stability for restless populations. Delivering this in a carbon constrained, but paradoxically energy abundant world, is a fundamental challenge. So far, there are few signs that either companies or countries have been able to decouple economic growth from carbon emissions growth.

Governments, investors, customers and communities make different, often contradictory, demands of business. One is to provide affordable, reliable, profitable and low carbon energy and transportation while minimizing impacts on local communities and the environment. Current business models are ill-equipped to deal with these contradictions or make the difficult trade-offs needed. These challenges are reflected in the responses that the world's largest companies have made to CDP, which describe different approaches to managing climate risks and tackling emissions.

Our analysis of Global 500 companies this year shows that they are increasingly transparent and sophisticated about their approach to climate change, are more likely to verify their emissions, and are looking beyond the boundary of their own operations. Companies are reporting their emissions from their supply chain and the use of their products, although some significant gaps remain. These changes will undoubtedly advance better decision-making.

In addition to carbon, companies are called to account for their broader environmental, social, economic and fiscal impacts. While companies are moving towards wider assessment of their impacts and improving data quality, there has been no systematic approach to compare different types of impact to inform decisionmaking. At PwC, we've been working with our clients to develop a more comprehensive approach which we call Total Impact Measurement and Management (TIMM).

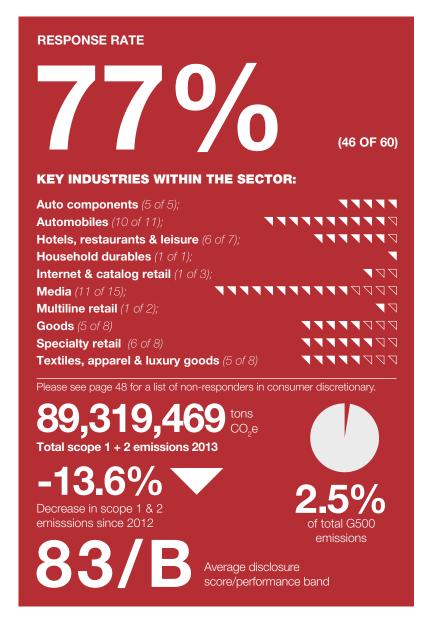
TIMM gives boards better insight into the social, fiscal, environmental and economic impacts of their activities. Taking this approach can also help to support a business's license to operate. But the real benefit is that it gives management the ability to compare strategies and investment choices, using quantified data, monitor the total impact of each decision and choice they make, and communicate this to their stakeholders. Being able to measure, understand and compare the trade-offs between different options means decisions can be made with more complete knowledge of the overall impact they will have and a better understanding of which stakeholders will be effected by which decisions.

The first part of the journey down the low carbon pathway is likely to be littered with awkward compromises between growth, the environment and communities. Looking at the total impact makes sound business sense. By doing so, TIMM can help inform better decision-making needed to deliver the transformation necessary to meet the demands of a growing population in a carbon constrained world.

Jonathan Grant Director, PwC

Tonathan Grant

Consumer Discretionary



The consumer discretionary sector makes up 12% of overall respondents and represents 2.5% of total Global 500 emissions. 41% of companies report a drop in absolute emissions since 2012 and, although a majority of companies in the sector has reported absolute emissions reduction targets as well as a decrease in emissions due to emission reduction activities,

Sales from our energy efficient Green Products totaled to €11.25 billion in 2012, representing 45.4% of total sales. We estimate that the demand for energy efficient products will increase allowing Royal Philips to increase the share of Green Products to 50% by 2015.

Royal Philips

nitters in 2013 have not

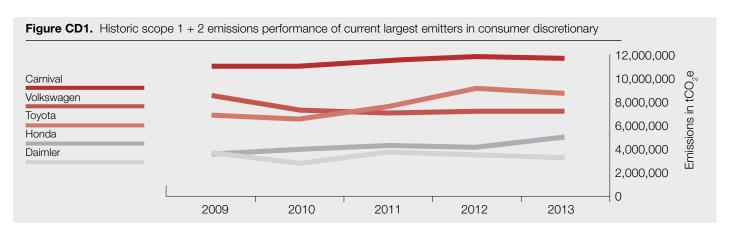
emissions of the five biggest emitters in 2013 have not changed significantly since 2009.

The three highest scoring companies in consumer discretionary by disclosure and performance are all part of the automobile industry: BMW, Daimler and GM.

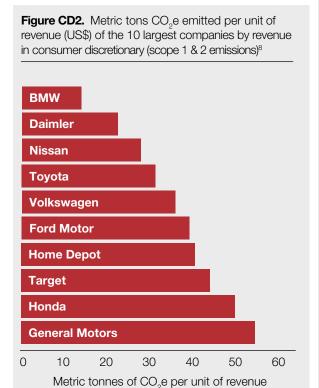
Reported opportunities are related to consumer behavior (61%) and reputation (39%). Regulation of product efficiency (such as for vehicles) is also important (noted by 39% of companies). A majority of the companies in consumer discretionary (78%) mentions at least one of these issues as a business opportunity.

Leading companies typically have well established sustainability programs and assess their products' footprints throughout the lifecycle. Companies often facilitate reductions for customers in addition to focusing on their own carbon footprint. For example, British Sky Broadcasting has introduced new products such as set top boxes which automatically go into standby – these can save approximately 205,000 metric tons CO_2 e each year. However, put in context, this is only equivalent to 12 hours of emissions by ExxonMobil.

Consumer discretionary companies are particularly affected by risks surrounding consumer behavior (46%), fuel and energy taxes (41%) as well as rainfall extremes and droughts (41%).



Currently, few companies assess the full impact of their value chains: only 28% of companies in consumer discretionary have accounted for emissions from the use of their products, which is likely to be one of the most carbon-intensive aspects of the sector's value chain. This suggests that, although 78% of companies in consumer discretionary do engage with suppliers on climate-related activities, the current reporting of the indirect value chain emissions in consumer discretionary does not reflect the companies' overall carbon impact.



Consumer Discretionary

Scope 1 & 2

Scope 3

Consumer Staples

Energy

Financials

Industrials

Information Technology

Materials

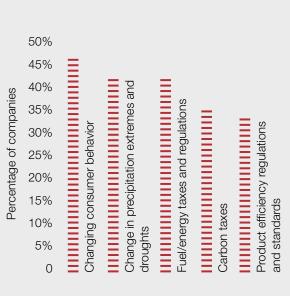
Telecommunication Services

Figure CD3. Total reported combined scope 1 and 2 emissions

compared to total reported scope 3 emissions by sector: scope 3

emissions in consumer discretionary are 19 times higher than the

Figure CD4. Most commonly reported risks by companies in consumer discretionary





2.5

Emissions in billions of tCO₂e

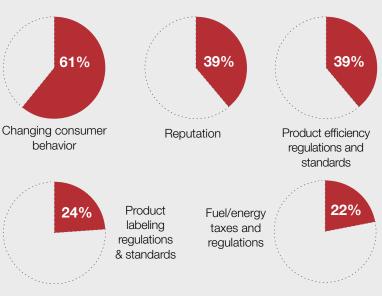
3

3.5

4

4.5

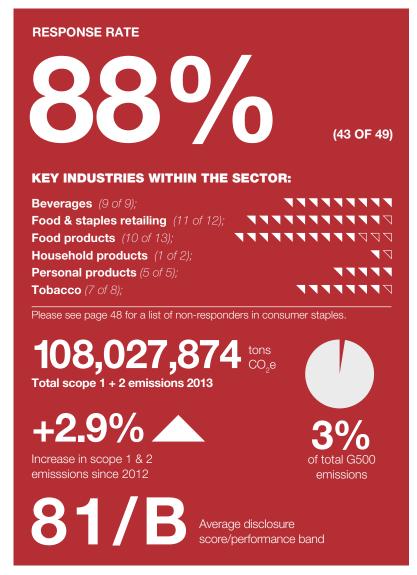
1.5



Utilities

0.5

Consumer Staples



The sector comprises many of the world's most well known consumer brands. As such, they are heavily influenced by changing consumer preferences. In fact, 53% of companies in the sector consider change in consumer behavior in response to climate change a key risk. The inability to address climate change issues is seen as a reputational risk by 51% of companies. At the same time, 47% of companies mention fuel and energy prices and 53% change in extreme weather. This illustrates the impact of regulation and physical risks on consumer staples companies.

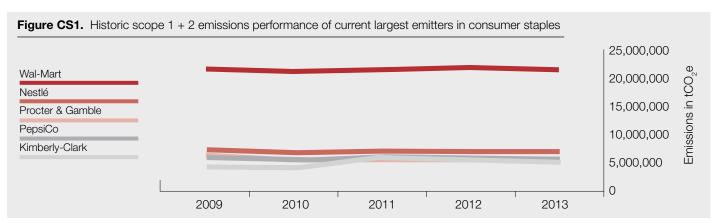
While 58% of companies report a decrease in absolute scope 1 and 2 emissions, the sector's total emissions have increased by 2.9%. The analysis shows that there has been little change in absolute emissions in the sector since 2009.

A number of climate change-related risks and opportunities in consumer staples are related to companies' supply chain's exposure to physical impacts of climate change as well as changes in regulation surrounding fuel and energy.

In particular, companies report the changing regulation surrounding biofuels as a reason for increased costs. For instance, PepsiCo notes that requirement to increase the volume of ethanol to 13.8 billion gallons in the U.S. gasoline supply in 2013 will increase the price of corn and sugar which make up a significant portion of the company's primary raw materials. Similarly, Unilever reports that the support for biofuels is leading to increased costs of key agricultural raw materials such as oils and fats in global commodity markets. The impact on the key raw materials in the sector suggests that the trade-off between biofuels production and global food supply is yet to be resolved, despite increasing focus on second generation biofuels.

Companies are also affected by exposure of their supply chains to physical impacts of climate change, with 58% of companies reporting extreme weather related risks influencing the cost and availability of raw materials. For example, Colgate Palmolive states that recent droughts in the U.S. and Russia have caused the cost of agricultural commodities such as corn, wheat and cotton to fluctuate. Similarly, Diageo reports disruptions due to lack of water in Ghana and Kenya as well as flooding in Ireland and Australia as having a significant impact on its costs.

Consumer behavior, the risk mentioned most frequently, is also cited frequently as an opportunity (58%). The risk reported by companies is that consumers may view products as less climate-friendly than others or view a whole industry as a poor carbon performer, which would drive them away from products. At the same time, many companies consider themselves well positioned and see commercial opportunities in anticipating changes in consumer behavior and the ability to enhance their reputation.







Emissions from transportation and logistics are the most commonly reported scope 3 categories – with 49% and 42% reporting upstream and downstream transport emissions respectively. Consumer staples companies also note the impact of rising fuel prices on operational costs, with 51% of companies mentioning fuel and energy regulations as a key risk.



Figure CS3. Most commonly reported risks by companies in consumer staples

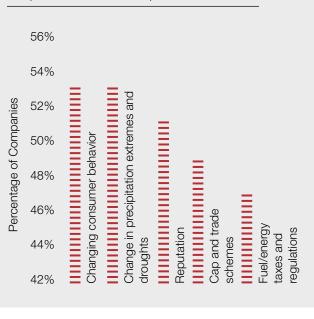
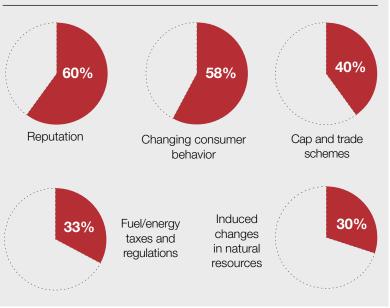
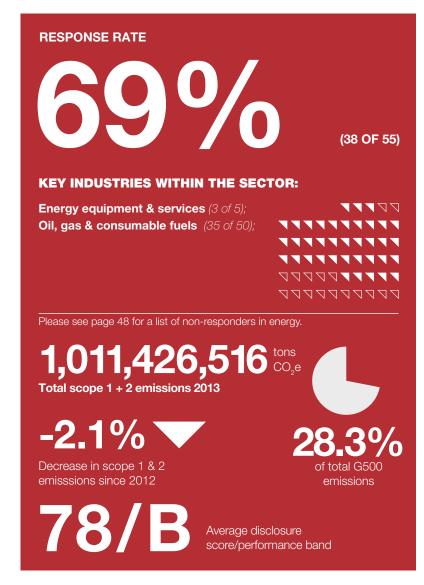


Figure CS4. Most commonly reported opportunities by companies in consumer staples



Energy



Efforts to reduce emissions in the energy sector are essential to the mitigation of climate change as the sector is one of the highest emitting sectors. However, 50% of energy companies have a performance band of C or lower. Since 2009, the total scope 1 and 2 emissions of the ten

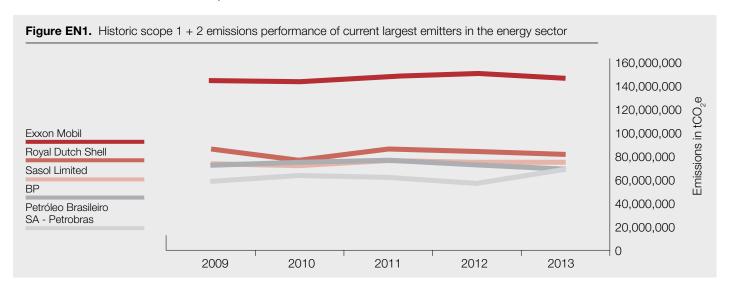
biggest emitters in the sector have increased by 53%. At the same time, the sector has the highest proportion of companies without emission targets (24%).

In addition to the significant impact on the total Global 500 scope 1 and 2 emissions, the energy sector's reported scope 3 emissions are four times higher than its scope 1 and 2 emissions. 98% of these emissions are emitted through the use of sold products.

Energy companies state that regulation is a major risk: 66% of companies report cap and trade schemes and 61% of companies report carbon taxes as risks. BG Group, for example, states that the [initial] rejection of the backloading proposal for EU ETS has led to more uncertainty in pricing. Other issues mentioned include the regulation of the sulfur content in the fuel used in shipping, Australian Clean Energy Futures Act, AB32 in California as well as the carbon leakage in the EU ETS.

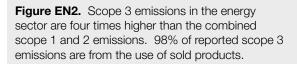
At the same time, energy companies see opportunities in changing regulation, but also in changing consumer behavior: 50% of companies mention changing consumer behavior, 45% international agreements and 45% cap and trade schemes as a key opportunity. Spectra Energy states that US transmission may experience an increased demand for natural gas transmission and storage operations resulting from cap and trade schemes. Chevron states that the EU, U.S. and Australia have already adopted regulation for developing Carbon Capture and Storage projects. It has begun work to make Gorgon in Australia the world's biggest carbon storage facility and thereby reduce emissions from one of the world's largest natural gas projects.

Companies such as Occidental Petroleum Corporation, Noble Energy or BP give similar explanations for the lack of company-wide absolute emissions reduction targets: business is constantly evolving and expanding and emission reduction targets will constrain growth. Instead, the focus is on energy efficiency projects throughout their business activities. Companies prefer



to use efficiency targets at an operational or project level, stating that overall emissions targets are not practical or useful in driving emissions reductions at the corporate level.

Therefore, reducing emissions from an energy company's own operations may require more significant and drastic changes to business as usual. In addition, the energy sector remains the only sector in the Global 500 sample, where Board-level monetary incentives did not lead to emissions reductions due to emission reduction activities.



Scope 3: use of sold products - 4,028,243,969

Scope 3: other categories - 100,027,169

Scope 1 + 2 - 1,011,426,516

0 1.5 2 2.5 3.5 4.5 0.5 3 4 Billion metric tonnes of CO_oe

Figure EN3. Metric tons CO, per unit of revenue (US\$) of the 10 largest companies by revenue in the energy sector (scope 1 & 2 emissions)



Royal Dutch Shell

BP

Statoil

Total

Chevron

Eni

PTT

Exxon Mobil

Petróleo Brasileiro SA - Petrobras

Gazprom

100 200 300 400 500 600 700 Metric tonnes of CO₂e per unit of revenue



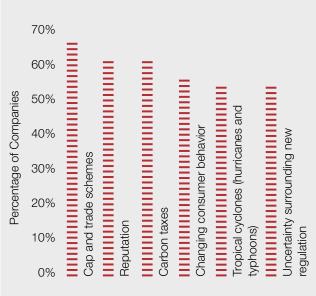
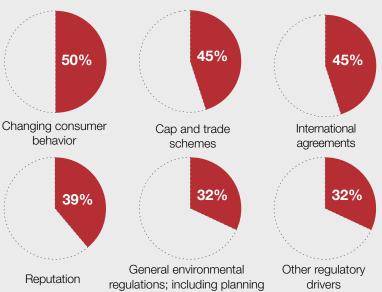


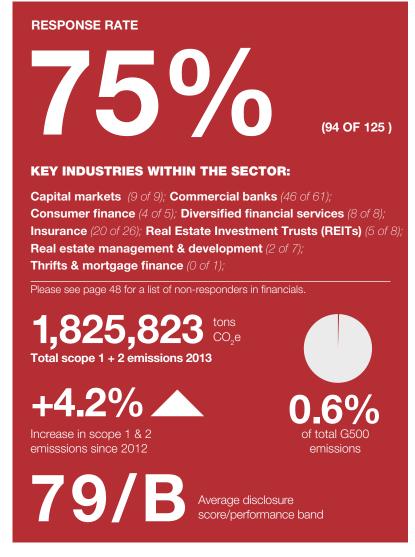
Figure EN5. Most commonly reported opportunities by energy companies

800

1000



Financials



The financial sector makes up 24% of the respondents and is the lowest emitting sector in the Global 500: it represents only 0.6% of total reported scope 1 and 2 emissions. While 67% of companies have reduced their scope 1 and 2 emissions since 2012, only 6% of financials report the carbon impact of their investments. This is a significant gap in the measurement of the sector's overall carbon impact.

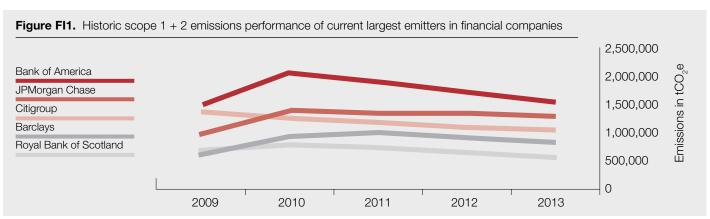
Within the sector, there is a strong drive to understand the risks and opportunities from climate change. 56% of companies work in partnerships

with trade associations and 33% fund research organizations to obtain information to feed into risk reports. Allianz SE, for example, states: "the WWF-Allianz study Tipping Points is one good example of how Allianz is investing in a better understanding of the potential risks of climate change by analysing concrete insurance portfolios in specific locations."

The most reported risk and opportunity in the financial sector is reputation, with 54% of companies reporting it as a key risk and similarly 55% as a key opportunity. For example, Deutsche Bank reports that demonstrating responsible investment practices and helping finance the transition to a low carbon economy is a way for [the company] to help restore trust with society. Weather extremes are reported by 40% of financials which can have an effect on the companies' own business as well as their clients'. Flooding of assets (commercial or offices) can influence the types of investments being made, for example the cost of insurance. Recent storm events, such as Superstorm Sandy, had significant implications for insurance companies and are something that is increasingly being factored into pricing strategies.

For many companies, climate change is primarily seen as an opportunity in terms of sales, e.g. increased demand for insurance of physical assets and for financing to upgrade assets. However, the materiality of the impacts of these changes is often considered minimal. 20% of the companies who respond that they have not identified any risks/opportunities with climate change state that they are not directly impacted by the effects of climate change due to the nature of their business.

Scope 3 emissions should be significant for financial companies relative to their scope 1 and 2 emissions. Business travel, employee commuting and waste generation are the three most commonly disclosed relevant scope 3 categories in financials. Most scope 3 emissions would be expected to come from investments, however, only 6% of responding companies report emissions in this category. This suggests that financials are yet to account fully for the impact of their value chains, but will require a standardized widely-accepted approach for calculating emissions from investments.





Use of sold products

End of life treatment of sold products

Downstream transportation and distribution

Capital goods

Investments

Downstream leased assets

Upstream leased assets

Upstream transportation and distribution

Employee commuting

Fuel-and-energy-related activities

Purchased goods and services

Waste generated in operations

Business travel

0 10 20 30 40 50 60 70 Percentage of companies

80



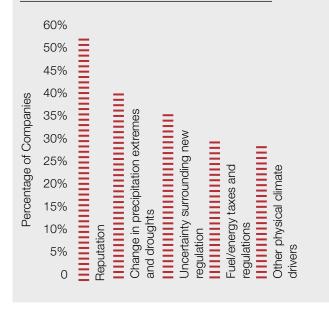


Figure FI3. Metric tons CO₂ per unit of revenue (US\$) of the 10 largest companies by revenue in financials (scope 1 & 2 emissions)

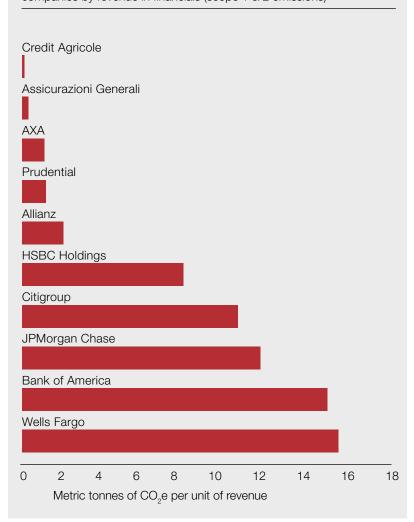
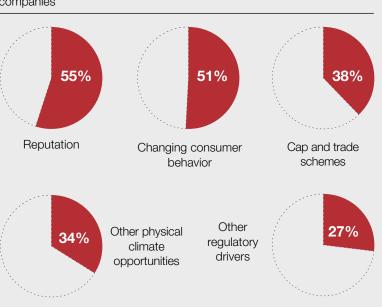
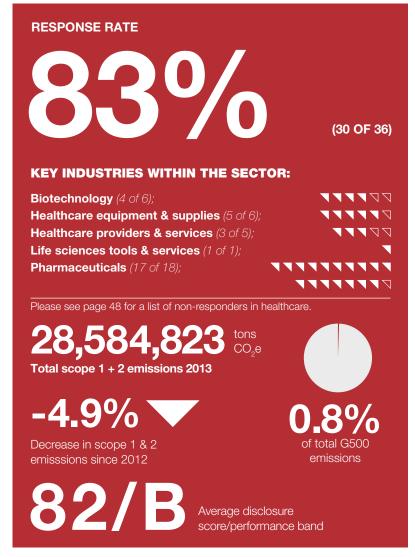


Figure FI5. Most commonly reported opportunities by financial companies



Healthcare



The healthcare sector makes up 8% of respondents and is the second lowest emitting sector representing only 0.8% of total reported scope 1 and 2 emissions

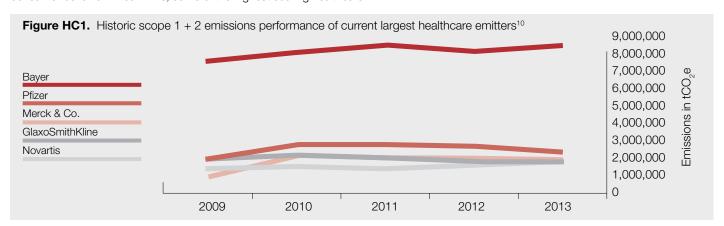
The risks reported typically appear more tangible and quantifiable than the climate-related business opportunities. Roughly half of the companies mention cap and trade schemes (57%) and weather extremes (50%) as key risks, whereas the most often reported opportunities are reputation and changing consumer behavior. Meanwhile, some of the highest scoring healthcare

In 2012 Bayer's total energy consumption was reduced by approx. 2% compared to 2011 despite an increase in manufactured sales volume. Therefore; a decoupling of the production from the energy demand could be realized. One important aspect for this decoupling was the implementation of numerous energy efficiency measures during the reporting year.

companies (e.g. Sanofi) state that they have not identified any climate change risks that have the potential to change their business substantially over the next years.

However, physical changes may still have an impact on the healthcare sector. For example, changes in mean average temperature may lead to changes in the location of diseases which can drive business growth in emerging economies. Bayer, for example, states that the increase in temperature as a result of global climate change could promote the reproduction and spread of mosquitoes. This could result in another 40 to 60 million people being exposed to the risk of vector borne diseases like malaria and therefore the demand of products could rise in affected regions.

While climate change is having a limited impact on healthcare companies' business strategies, they are still investing in emissions reductions. 57% of them report a decrease in emissions compared to 2012. A consistent driver for this decrease is energy reduction activities, e.g. green IT and building efficiency. Increases in emissions are typically the result of acquisitions and change in output.



Manufacturing healthcare companies are starting to invest more in energy efficient production techniques to reduce their own emissions. Companies' products can significantly help users reduce their emissions. For example, by developing a new type of inhaler, GlaxoSmithKline has reduced consumers' emissions by 2 million metric tons CO₂e/year which is equivalent to approximately 10% of the total emissions from the financials sector or four days of emissions from Arcelor Mittal in 2012.

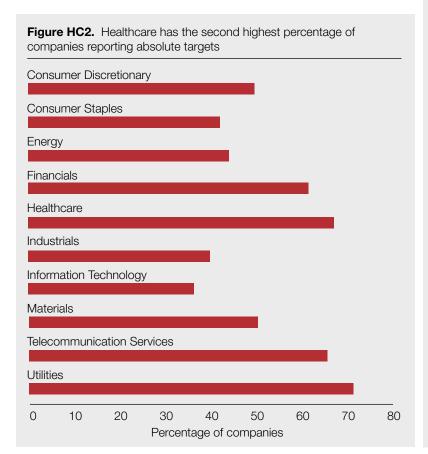


Figure HC3. Metric tons CO₂e per unit of revenue (US\$) of the 10 largest companies by revenue in healthcare (scope 1 & 2 emissions)

UnitedHealth Group

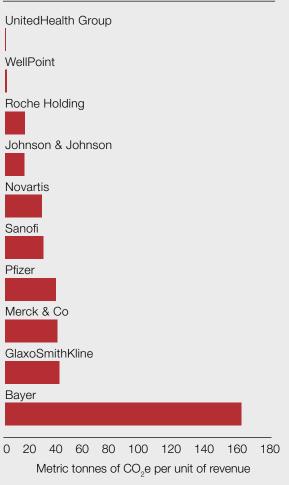


Figure HC4. Most commonly reported risks by healthcare companies

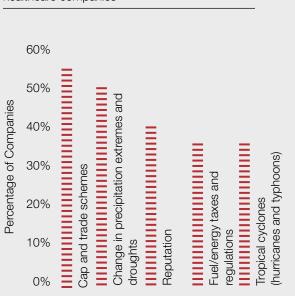
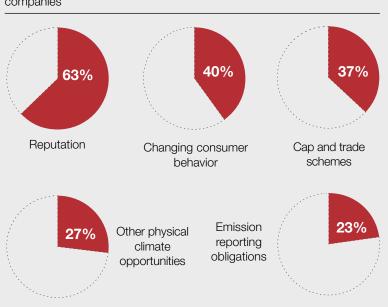
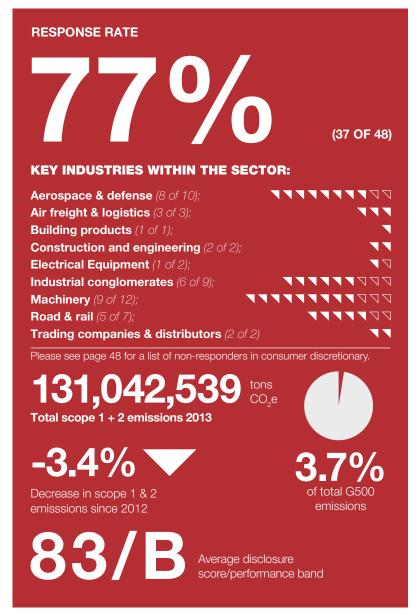


Figure HC5. Most commonly reported opportunities by healthcare companies



Industrials



The industrials sector is the fourth highest emitting sector. Companies are making large investments in research and development (R&D) as well as energy-efficiency projects, suggesting climate change is central in these companies' strategies. Industrials are both reducing their own carbon footprint as well as enabling emissions reductions throughout their value chain.

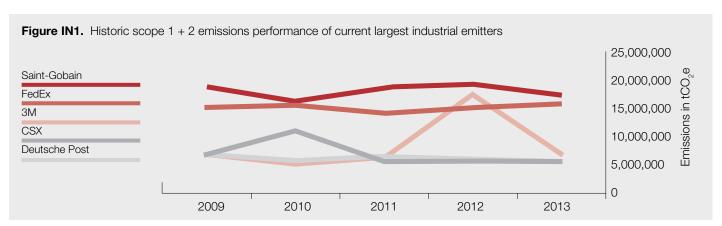
Industrial companies will play an important role in the transition to a low carbon economy: 97% of companies report that their products and services enable emissions reduction to third parties. For example, Hitachi has set a target to achieve an annual reduction of 100 million metric tons CO₂e through products and services by 2025, roughly equivalent to the annual emissions of a single large cement company. In many cases, more efficient and environmentally sound products are linked to more stringent regulation. 86% of industrials report regulation as an opportunity which could lead to increase in demand.

To respond to the demand for more efficient products, many companies have made substantial investments into R&D. Schneider Electric, for example, spent 4.4% of its revenue on R&D in 2012 (over €1 billion) while Rolls-Royce report £919 million of investments on R&D. Two thirds of Rolls-Royce's expenditure focused on improving the environmental performance of products and in particular on reducing emissions.

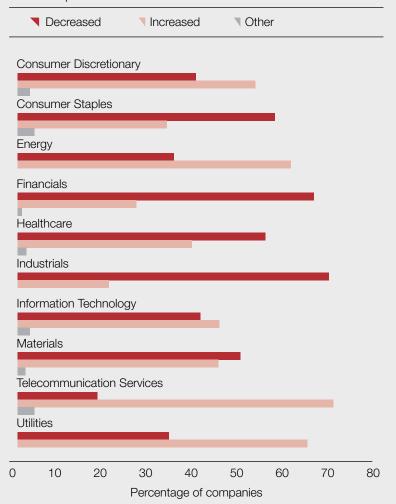
Although changing regulation is a key opportunity for the industrial sector, uncertainty surrounding new regulation simultaneously poses a threat to companies (32% of companies). 38% of them consider regulation a key risk. Carbon taxes, cap and trade schemes as well as fuel and energy regulation are the main risks reported by the companies. Industrials are likely to be impacted by cap and trade schemes and other carbon regulation due to high fuel and energy consumption rates.

At the same time, 19% of companies do not consider the potential impacts of climate-related regulation to be significant. For example, Las Vegas Sands Corporation has conducted an assessment of potential impacts of cap and trade schemes in the next 3-5 years, and concluded that the enforcement of cap and trade schemes remains uncertain and the potential impact is minor.

Due to the central role of regulation in the sectors' response to climate change and the influence the sector could have on climate change mitigation, companies are proactively engaging with policy makers, with all companies in the sector supporting climate policy and none of the companies stating that their position on climate change is inconsistent with the trade associations







they engage with. Whether it is upcoming climate policy driving the deployment of green technologies (Siemens), increases in fuel prices shifting customers to rail transportation (CSX) or the compliance with new product standards (Schneider Electric), regulatory changes are a key driver for new business opportunities in industrials.

Figure IN3. Metric tons CO₂e per unit of revenue (US\$) of the 10 largest companies by revenue in industrials (scope 1 & 2 emissions)

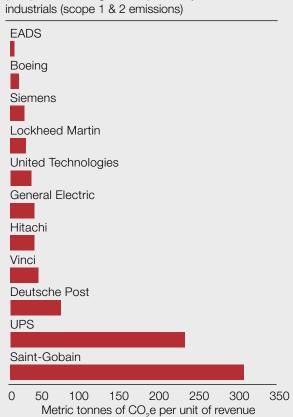


Figure IN4. Most commonly reported risks by industrial companies

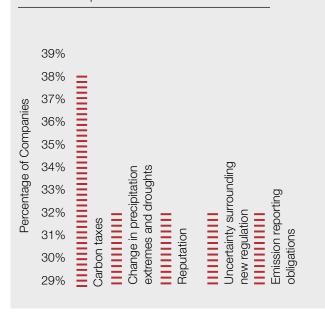
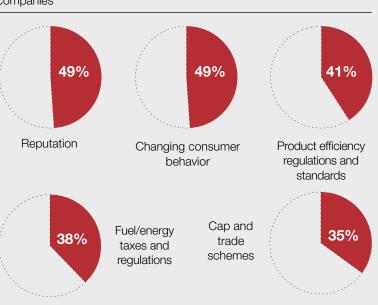
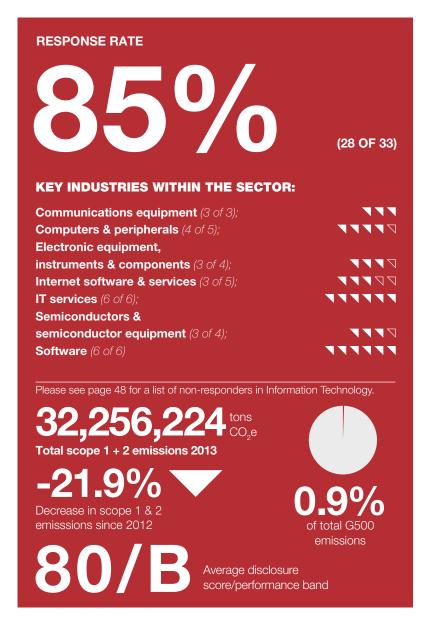


Figure IN5. Most commonly reported opportunities by industrial companies



Information Technology



Information technology (IT) companies report that they offer products that assist third parties in avoiding emissions (89% of respondents, compared with the Global 500 average of 74%). Solutions include cloud services, outsourcing, systems implementations and software solutions.

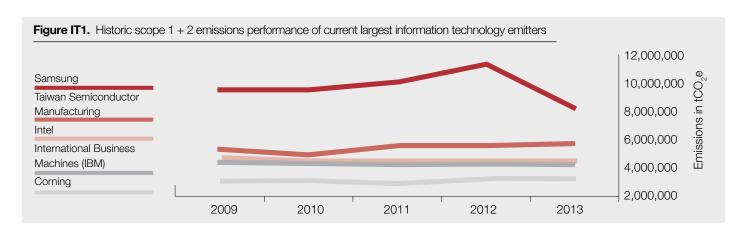
IT companies reduced their scope 1 and 2 emissions significantly in 2012 (by 21.9%). However, almost half of this decrease was solely due to Samsung's divestment of its LCD business division which contributed to a 4 million tCO₂e decrease in its emissions.

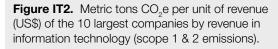
Customers' expectations of environmentally-friendly products and corporate responsibility are driving good practice. IT companies believe that there are significant reputational benefits from taking strong climate change actions (39% highlight reputational opportunities and 50% highlight reputational risks).

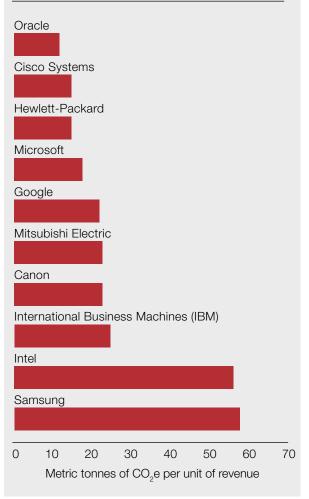
The IT sector is striving to help consumers make choices which are less resource or carbon intensive. For instance, SAP's product footprint (including upstream and downstream emissions) is 28 times the size of its scope 1 and 2 emissions. The majority of the IT sector's effect on mitigating climate change will be through the delivery of less carbon intensive products. However, only 36% of companies report emissions data for use of sold products and processing of sold products. A number of IT companies report a drive to decouple growth from emissions and success in developing ranges of efficiency projects, from energy-saving improvements in their data centers and office to more fuel-efficient corporate cars.

Risks from climate change are relatively limited compared to other sectors. Regulatory risks are not expected to have a major impact on the sector as the sector's scope 1 and 2 emissions are comparatively small. However, 71% of IT companies report that physical risks could be significant – through disruption of supply chains and manufacturing processes. Leaders are responding by measuring the impact of their supply chain on the environment and assessing the resilience of their supply chains to physical risks.

The main opportunities reported are primarily around product development (43% of respondents report opportunities that could lead to new products and services). These are both due to consumer demand (environmentally conscious customers, reputation) and the development of new products in order to improve business continuity in case of physical natural disasters.







SAP anticipates that increasing regulation at the global level, including potential UNFCCC successor agreements to the Kyoto Protocol, will significantly increase the need for business process and reporting automation. [...] SAP anticipates that during the negotiation phase leading up to 2015, we are likely to see an increase in sector based initiatives to agree voluntary CO₂ reduction commitments as industry makes a proactive attempt to shape the smartest regulation possible.

SAP

Figure IT3. Most commonly reported risks by information technology companies

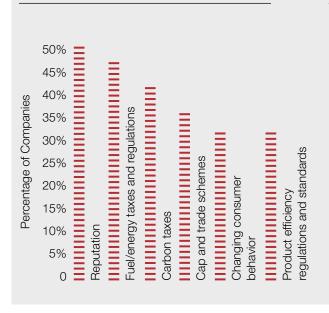
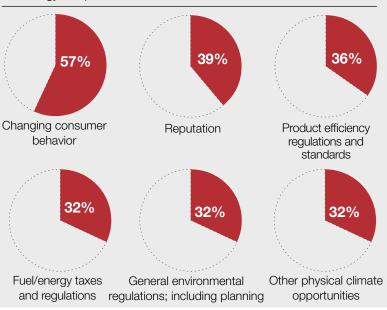
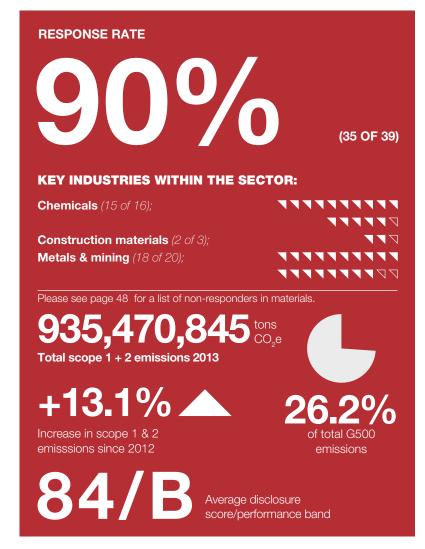


Figure IT4. Most commonly reported opportunities by information technology companies



Materials



The materials sector is the third highest emitting sector. 74% of companies report being highly exposed to regulatory risks, such as carbon taxes, given their high emissions and the global nature of the majority of their businesses.

Anglo American, for example, estimates that the carbon cost of its Metallurgical Coal business in Australia could range between US\$7 million in 2012 and US\$69 million by 2016. BASF states that roughly 50% of its global emissions are covered by the EU ETS, which it sees as its main regulatory risk. In addition, the current uncertainty around international, legally-binding, regulation can be a barrier to entry for companies with global

operations and companies report a careful monitoring of changes in legislation. Mining companies, in particular, are also concerned about losing their license to operate and reputation is therefore seen as a significant risk (63% of companies).

Reducing their overall emissions can therefore significantly reduce liabilities to carbon taxes. As such, a majority (89%) of companies offer monetary incentives for energy efficiency and emission reductions. BHP Billiton's annual remuneration review takes into account performance against carbon targets. At Kumba Iron Ore, 25% of the CEO's performance targets are weighted towards key performance indicators including energy and water saving targets.

Among leading companies, there is therefore a trend towards renewable power generation in order to reduce the fuel costs. 92% of companies disclosed an emissions reduction target, although there is a tendency towards shorter term targets (more than half do not have targets with timeframes beyond 2012). This might reflect the uncertainty around long term regulation.

Companies also have high research and development budgets for green and low carbon products. For example, Arcelor Mittal notes that its commitment to a collaborative French research program on low impact steelmaking is US\$16.7 million out of a total US\$41.2 million budget. Government support also helps the development of new technologies. BASF reports German Government sponsored projects for innovating in the field of e-mobility. However, on the whole, emissions decreases by companies are relatively insignificant and some increases in this sector are substantial (e.g. a 450% increase for First Quantum Minerals Limited). This is because companies' operations are frequently carbon intensive and they are finding it difficult to decouple financial growth from emissions growth.

36% of companies engage with trade associations and 22% of companies fund research organizations, although companies' motivations for doing so vary. A majority of companies emphasize positive engagement on climate change but often lobby in order to protect their business interests, for example by minimizing

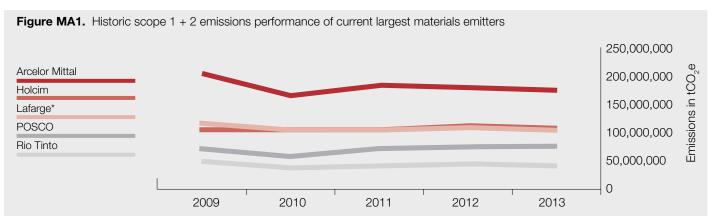
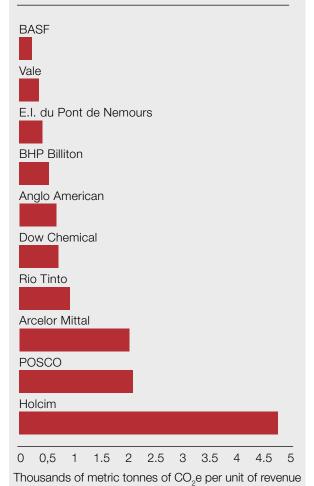


Figure MA2. Metric tons CO₂e per unit of revenue (US\$) of the 10 largest companies by revenue in materials (scope 1 & 2 emissions)



Anglo American Platinum has a number of projects in differing stages of development that could be taken forward as CDM projects. These include electric drilling, solar water heating, various compressor efficiency and pumping projects and the installation of a thermal co-generation heat recovery process on a high-pressure cooling system.

Anglo American

reporting or protecting competitiveness. Overall, the materials sector is still supportive of climate policy, with 71% of companies supporting climate legislation. While motivations might vary, a level international playing field for an emissions-intensive sector might be the common denominator that will drive change in materials companies.

Figure MA3. Most commonly reported risks by material companies

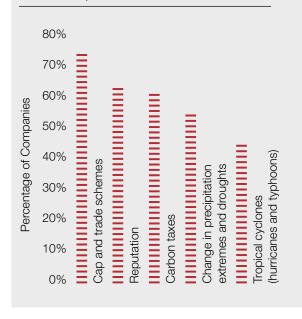
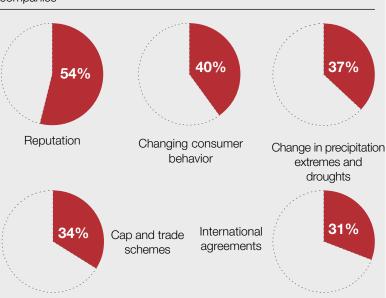
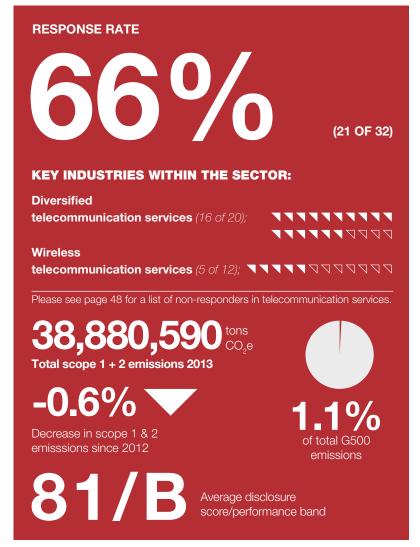


Figure MA4. Most commonly reported opportunities by material companies



Telecommunication Services



By helping others avoid emissions, most telecommunication service companies see themselves as "part of the solution to climate change" (TeliaSonera). Every telecommunications company stated that their products help to avoid emissions, giving examples of green solutions such as cloud computing, video conferencing, smart building management and smart electrical grids.

Virtually all telecommunication services companies refer to the GeSI SMARTer2020 report which suggests that increased use of ICT could reduce global emissions by 16.5% by 2020. This would be equivalent to US\$1.9 trillion in energy and fuel savings. Companies are innovating to meet this potential:

Opportunities exist for our customers to reduce their carbon emissions through the use of our products and services. Telstra is quantifying the impacts and benefits of ICT to manage and reduce carbon emissions for both its own operations and for its

Telstra Corporation

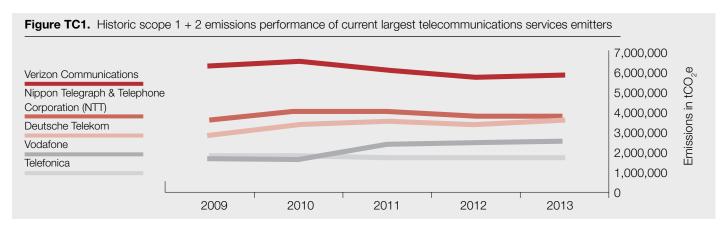


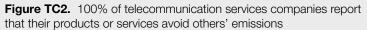
BT Group has a Director of Carbon & Energy, whose personal annual pay and bonus is linked to energy and carbon reduction targets.

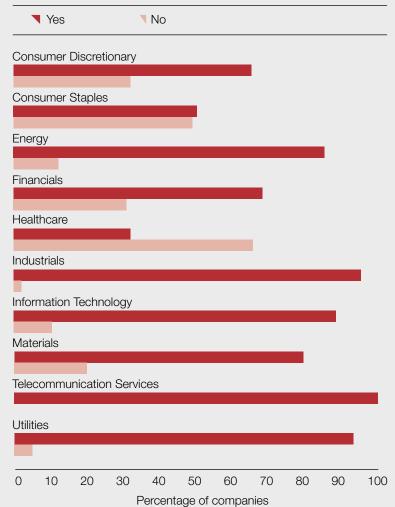
While the majority (91%) of companies have emissions reduction targets, 70% of companies also reported an increase in emissions. Telecommunication services companies justify this by explaining that this increase in their own emissions will be compensated by the overall decreases resulting from the use of their products, and suggesting that overall global emissions are lower than they would be in a business as usual scenario.

Telecommunication services companies report a wide range of risks and opportunities: reputation is the most frequently reported risk in the sector (76% of companies). However, regulatory issues such as carbon taxes, fuel and energy pricing as well as emissions reporting obligations are also frequently reported. Deutsche Telekom states that, since the emissions of ICT companies are comparable to the emissions from aviation, an involvement of the sector in the EU ETS might be a possibility in the future.

Carbon taxes are both a risk and an opportunity: a risk due to their own emissions but an opportunity due to a growth in other companies' use of telecommunication companies' products in order to reduce their own emissions.







Similarly, extreme weather events also present telecommunication companies with both risks and opportunities too: natural disasters might provide an additional requirement for governments to be prepared to help populations communicate during extreme weather events. On the other hand, France Telecom notes that physical risks to infrastructure could increase operational costs by 9% by 2020.

Figure TC3. Metric tons CO, e per unit of revenue

(US\$) of the 10 largest companies by revenue in telecommunication services (scope 1 & 2 emissions)

BT Group

Telefonica

KDDI

France Telecom

NTT DOCOMO

Nippon Telegraph & Telephone

Vodafone

Deutsche Telekom

70

80

Figure TC4. Most commonly reported risks by telecommunication services companies

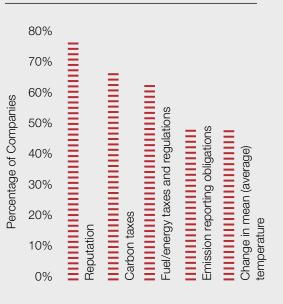


Figure TC5. Most commonly reported opportunities by telecommunication services companies

10

AT&T

0

Verizon Communications

20

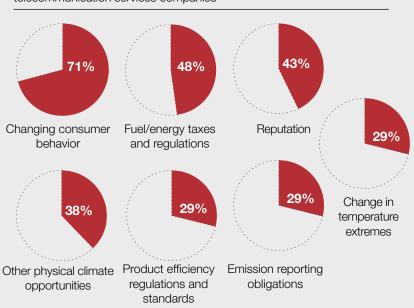
30

40

Metric tonnes of CO₂e per unit of revenue

50

60



Utilities



Despite being the highest emitting sector utilities are investing in low carbon generation and providing products or services that promote energy efficiency and savings among their customers. Given their size, small improvements in energy efficiency by utilities can have a large impact on overall emissions.

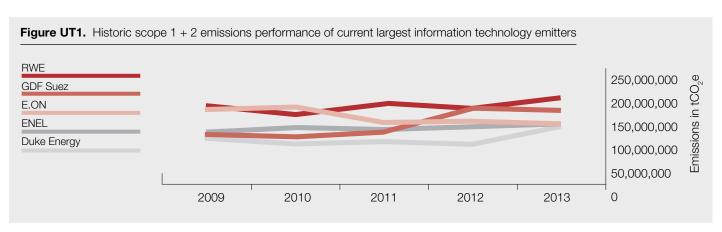
Total scope 1 and 2 emissions have decreased by 1.3 million metric tons $\mathrm{CO}_2\mathrm{e}$ in absolute terms, mostly due to changes in the Global 500 population. However, two thirds of utility companies have increased their emissions since last year. For example, Enel's emissions have increased

by 4.1% due to a higher consumption of fossil fuels. Companies note that energy efficiency programs (CERT & CESP) and employee engagement programs are critical to limiting emissions growth. Some also reported a change of their energy mix towards more renewable energy and the allocation of large budgets to low carbon product development.

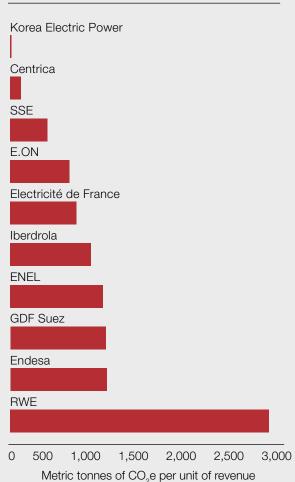
The sector demonstrates a comparatively sophisticated response to climate change, with all companies having emissions reduction targets and (41%) of companies having long term targets beyond 2020. Most (76%) of these are intensity targets, which reflects the industry's difficulty in decoupling emissions from growth. To address this, companies not only focus on energy consumption to reduce emissions and increase energy efficiency but also, for example, water efficiency (e.g. for cooling).

Utility companies are acutely aware of the risks and opportunities from climate change. Risks to the sector include uncertainty surrounding regulation (76% of companies) as well as cap and trade schemes (71% of companies). Centrica, for example, states that the company is exposed to significant regulatory risk because, in highly regulated markets, external policy decisions or changes to regulatory regimes or industry procedures could fundamentally affect its commercial operations. RWE states that international agreements, such as an extension of the Kyoto Protocol, would help to keep a level playing field for all market participants. Furthermore, seasonal changes in precipitation and temperature, which could affect seasonal demand, are also highlighted as a significant risk.

The main opportunities reported by utilities involve reputation, changing customer behavior and regulatory opportunities surrounding international agreements. For example, E.ON states that its strategic focus on cleaner energy will strengthen its brand image and credibility among its key stakeholders. Furthermore, it estimates that 60% of its top shareholders have advanced requirements in terms of environmental, social and governance issues.







RWE as other electric utilities are expected to deliver their contribution to reduce CO₂ emissions. The way we contribute to the common goal to reduce CO₂ emissions influences our reputation significantly.

RWE

Utilities engage with policymakers more than any other sector. They have set up working groups for special programs (e.g. Green Deal & Energy Company Obligation in the UK, 'Roadmap to 2050' in the EU or support of international treaties) which aim to inform the setting of climate targets. 76% of companies fund research organizations, 94% engage with trade associations and all report direct engagement with governments. 88% of companies state that their approach to climate change is consistent with the position of trade associations.

Finally, utility companies are looking at their whole value chain and are helping customers avoid emissions through a wide range of products and services that promote energy efficiency and savings. These include supplying steam to industrial customers at cogeneration facilities, generating renewable electricity or delivering Renewable Energy Certificates.

Figure UT3. Most commonly reported risks by information technology companies

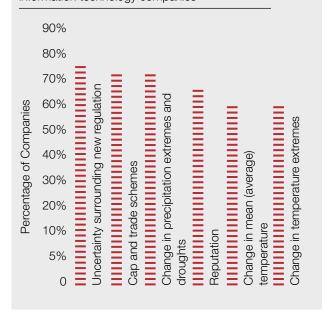
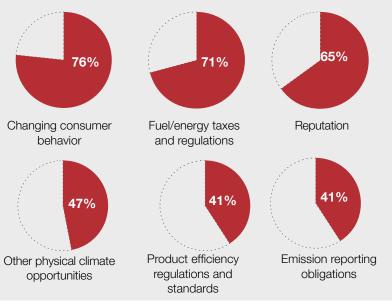
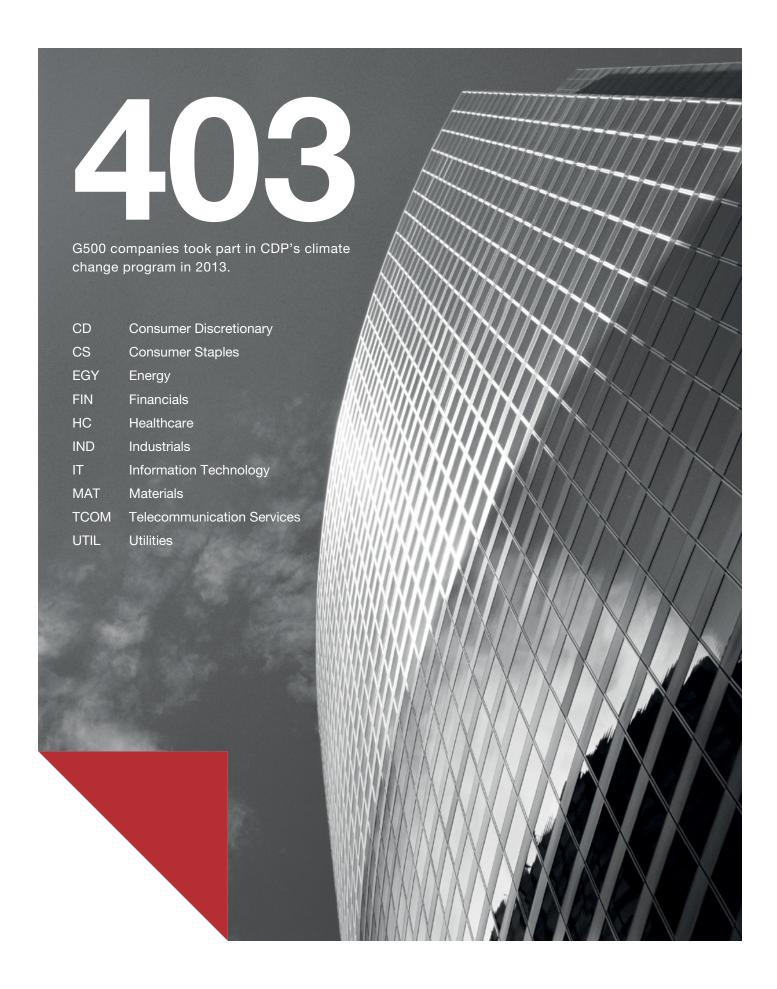


Figure UT4. Most commonly reported opportunities by information technology companies



Key Disclosure Statistics



Key disclosure statistics

Figure KS1 is based on the sample of 403 companies. This includes companies that reference a holding company's response. Analysis in the remainder of this report is based on 389 responses received by 1st July 2013 and does not include companies that reference a holding company's response.

The number of companies disclosing scope 1 or 2 emissions includes those that have disclosed their emissions as zero.

Scope 2 figures for 2013 are not directly comparable with 2012 as companies can now incorporate the specific emissions factors associated with renewable energy purchases where supported by appropriate tracking instruments.

Climate Change Reporting Framework

The Climate Disclosure Standards Board (CDSB), a special project of CDP, is an international organization committed to the integration of climate change-related information into mainstream corporate reporting.

CDSB's internationally accepted Climate Change Reporting Framework is designed for use by companies in making disclosures in, or linked to, their mainstream financial reports about the risks and opportunities that climate change presents to their strategy, financial performance and condition.

Designed in-line with the objectives of financial reporting and rules on non-financial reporting, the Climate Change Reporting Framework offers a leading example of how to apply the principles of integrated reporting with respect to reporting on climate change. Learn more about CDSB's work and download the Framework from their website **www.cdsb.net**.

Figure KS1: Year-on-year number of companies responding to CDP publicly and privately



Responding publicly to CDP Responding privately to CDP

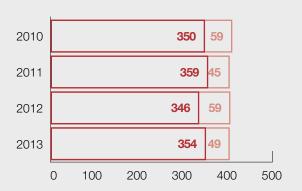
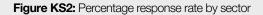


Figure KS3: Year on year number of companies disclosing scope 1 or scope 2 GHG emissions



7

Responding publicly to CDP Responding privately to CDP

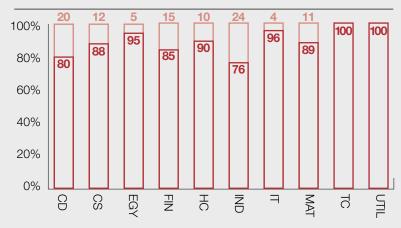
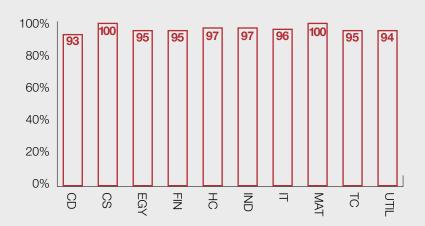


Figure KS4: Percentage of responding companies in each sector disclosing scope 1 or scope 2 GHG emissions





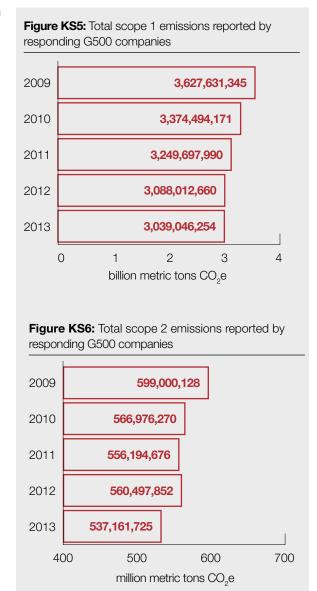
Key Emissions Statistics

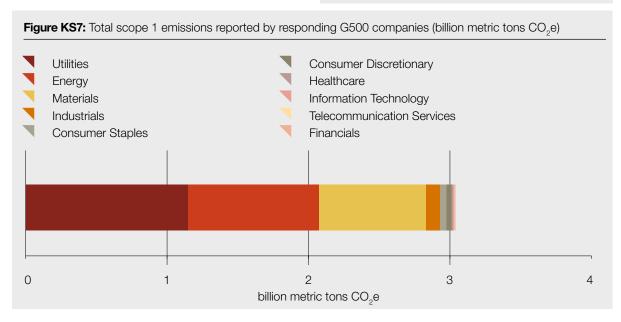
Total scope 1 and 2 emissions have dropped by 72 million metric tons $\rm CO_2e$ since 2012, although this is partly due to a change in reporting sample and a drop in the number of respondents from the heaviest emitting sectors (energy, materials, utilities).

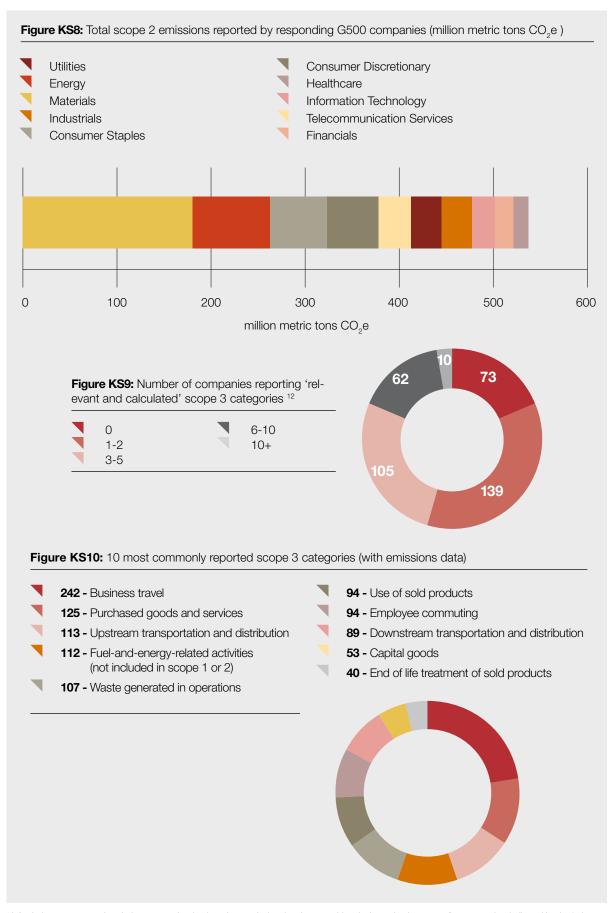
Due to a change in the approach for scope 2 accounting, scope 2 figures for 2013 are not comparable with 2012 as companies can now incorporate the specific emissions factors associated with renewable energy purchases where supported by appropriate tracking instruments.

Only companies reporting scope 3 emissions using the Greenhouse Gas Protocol Corporate Value Chain (scope 3) Accounting and Reporting Standard named categories have been included below. In addition, only those categories for which emissions figures that are greater than zero and identified as relevant have been included.

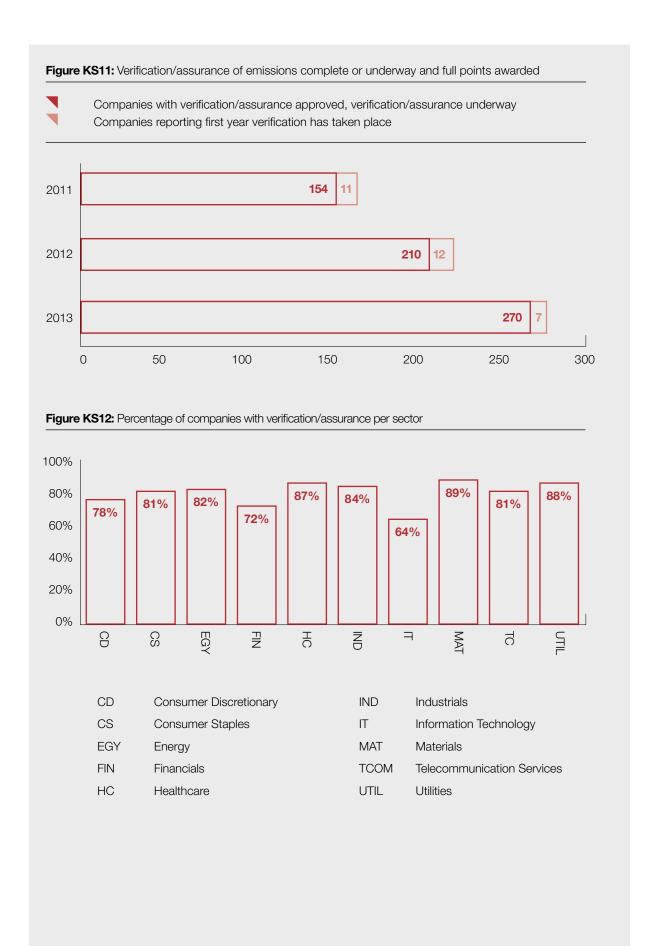
CDP has been working to encourage greater levels of third party verification/assurance of data in response to demands for higher levels of data quality. The term "reported and approved" refers to the fact that the number of companies with verification is based on the scoring of the verification statements attached to their response. Where companies report verification/assurance of more than one scope, they are counted only once in the statistic provided below.



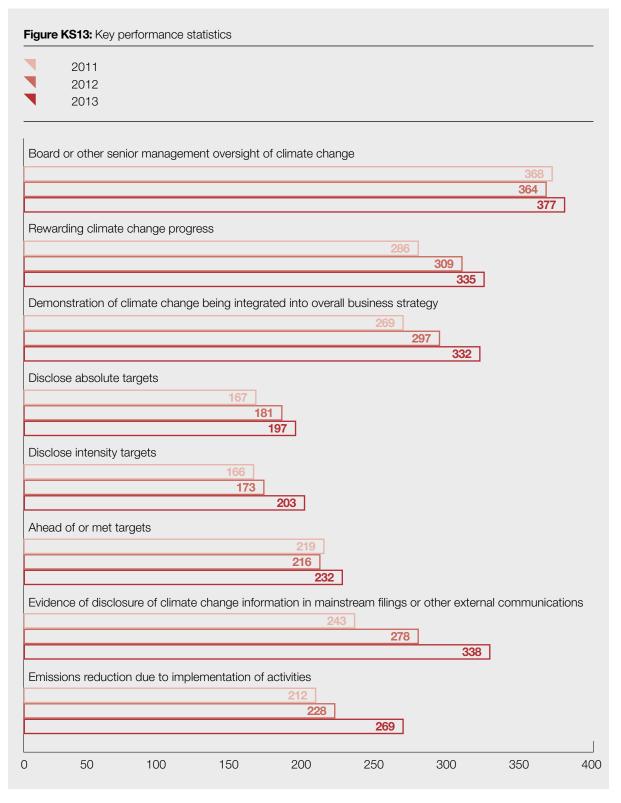




Key Emissions Statistics continued



Key Best Practice Statistics



Companies disclosing absolute or intensity targets have been included in this section only where they have been fully described, providing base year, target year, percentage reduction and for intensity targets, target metric.

Companies may report multiple emissions reductions due to implementation of activities, targets and reward incentives. In all of these cases, companies are counted only once in the statistics presented above, with the exception of the statistics on absolute and intensity targets where companies that have both types of target will be counted once in each type.

Key Best Practice Statistics continued

Figure KS14: Percentage of responding companies with board or other senior management oversight by sector

7

Individual/sub-set of the Board or other committee appointed by the Board Other manager/officer or senior officer

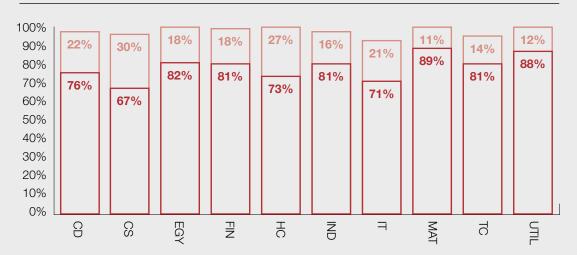


Figure KS15: Percentage of responding companies rewarding climate change progress by sector

Monetary Non-monetary only

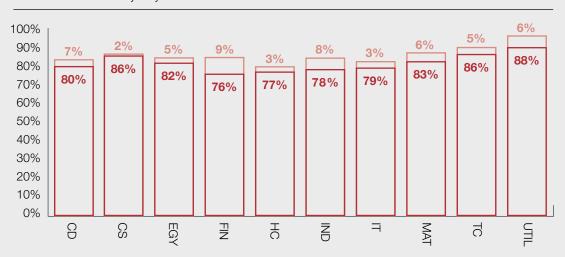


Figure KS16: Percentage of responding companies demonstrating climate change being integrated into overall business strategy



Figure KS17: Percentage of responding companies disclosing absolute targets by sector



Figure KS18: Percentage of responding companies disclosing intensity targets by sector



Figure KS19: Percentage of responding companies ahead of or having met targets by sector



Figure KS20: Percentage of responding companies with evidence of disclosure of climate change information in mainstream filings or other external communications by sector

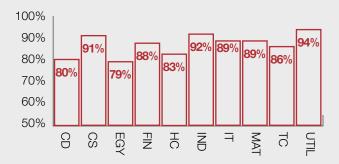
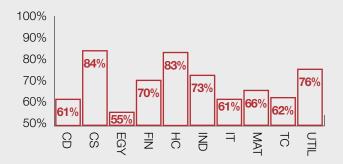


Figure KS21: Percentage of responding companies with emissions reductions due to implementation of activities by sector



Appendix I - Non-responding companies

Company name	Country	2013 Status
Consumer Discretionary		
Amazon.com	USA	NR
Belle International	Greater China	NR
Comcast	USA	IN
Fast Retailing	Japan	NR
Hermes International	France	NR
Kia Motors	South Korea	DP
Kinder Morgan.	USA	NR
Luxottica Group	Italy	DP
Prada	Italy	NR
Priceline.Com	USA	NR
	Chile	NR NR
S.A.C.I. Falabella		
Sands China	Greater China	NR
Time Warner Cable	USA	NR
Consumer Staples		
Archer Daniels Midland	USA	NR
Magnit	Russia	DP
Want Want China Holdings	Greater China	NR
Energy		
China Petroleum & Chemical	Greater China	NR
Coal India	India	NR
EOG Resources	USA	IN
Formosa Petrochemical	Greater China	NR
Lukoil	Russia	DP
Marathon Oil	USA	NR
Marathon Petroleum	USA	IN
National Oilwell Varco	USA	NR
Oil & Natural Gas	India	NR
Phillips 66	USA	NR
Reliance Industries	India	NR
Rosneft	Russia	NR
Tenaris	Luxembourg	NR
Valero Energy	USA	IN
Williams Companies	USA	NR
Financials		
AIA	Greater China	NR
Bank Central Asia	Indonesia	NR
Bank Mandiri	Indonesia	NR
Bank of China	Greater China	NR
BB&T	USA	NR
Berkshire Hathaway	USA	NR
Cheung Kong	Greater China	NR
China Construction Bank	Greater China	NR
China Life Insurance	Greater China	NR
China Overseas Land & Investment	Greater China	NR
CIMB	Malaysia	NR
DBS		
Discover Financial Services		NR
Equity Residential	Singapore	NR IN
	Singapore USA	IN
	Singapore USA USA	IN DP
General Growth Properties	Singapore USA USA USA	IN DP NR
General Growth Properties GRUPO FINANCIERO INBURSA-O	Singapore USA USA USA Mexico	IN DP NR NR
General Growth Properties GRUPO FINANCIERO INBURSA-O Housing Development Finance	Singapore USA USA USA USA Mexico India	IN DP NR NR NR
General Growth Properties GRUPO FINANCIERO INBURSA-O Housing Development Finance CICI Bank	Singapore USA USA USA Mexico India India	IN DP NR NR NR NR
General Growth Properties GRUPO FINANCIERO INBURSA-O Housing Development Finance CICI Bank Picc Property & Casualty	Singapore USA USA USA Mexico India India Greater China	IN DP NR NR NR NR NR
General Growth Properties GRUPO FINANCIERO INBURSA-O Housing Development Finance CICI Bank Picc Property & Casualty Public Bank BHD	Singapore USA USA USA Mexico India India Greater China Malaysia	IN DP NR NR NR NR NR NR
General Growth Properties GRUPO FINANCIERO INBURSA-O Housing Development Finance CICI Bank Picc Property & Casualty Public Bank BHD Public Storage	Singapore USA USA USA Mexico India India Greater China Malaysia USA	IN DP NR NR NR NR NR NR NR NR
General Growth Properties GRUPO FINANCIERO INBURSA-O Housing Development Finance CICI Bank Picc Property & Casualty Public Bank BHD Public Storage	Singapore USA USA USA Mexico India India Greater China Malaysia	IN DP NR NR NR NR NR NR
General Growth Properties GRUPO FINANCIERO INBURSA-O Housing Development Finance CICI Bank Picc Property & Casualty Public Bank BHD Public Storage Sampo Oyj Sberbank	Singapore USA USA USA Mexico India India Greater China Malaysia USA	IN DP NR NR NR NR NR NR NR NR
General Growth Properties GRUPO FINANCIERO INBURSA-O Housing Development Finance CICI Bank Picc Property & Casualty Public Bank BHD Public Storage Sampo Oyj Sberbank	Singapore USA USA USA Mexico India India Greater China Malaysia USA Finland	IN DP NR
General Growth Properties GRUPO FINANCIERO INBURSA-O Housing Development Finance CICI Bank Picc Property & Casualty Public Bank BHD Public Storage Sampo Oyj Sberbank Siam Commercial Bank PCL	Singapore USA USA USA Mexico India India Greater China Malaysia USA Finland Russia	IN DP NR
General Growth Properties GRUPO FINANCIERO INBURSA-O Housing Development Finance CICI Bank Picc Property & Casualty Public Bank BHD Public Storage Sampo Oyj Sberbank Siam Commercial Bank PCL Sun Hung Kai Properties	Singapore USA USA USA Mexico India India Greater China Malaysia USA Finland Russia Thailand	IN DP NR
General Growth Properties GRUPO FINANCIERO INBURSA-O Housing Development Finance CICI Bank Picc Property & Casualty Public Bank BHD Public Storage Sampo Oyj Sberbank	Singapore USA USA USA Mexico India India Greater China Malaysia USA Finland Russia Thailand Greater China	IN DP NR

Company name	Country	2013 Status
Healthcare		
Alexion Pharmaceuticals	USA	NR
Gilead Sciences	USA	NR
Intuitive Surgical	USA	NR
McKesson	USA	DP
Express Scripts Holding	USA	DP
Valeant Pharmaceuticals International	Canada	NR
Industrials		
Caterpillar	USA	IN
FANUC	Japan	NR
General Dynamics	USA	NR
Grupo Mexico B. de CV	Mexico	NR
Hutchison Whampoa	Greater China	NR
Jardine Matheson	Greater China	NR
Jardine Strategic	Greater China	NR
Precision Castparts	USA	NR
Information Technology	00/1	
Apple	USA	NB
ASML Holding	Netherlands	DP
Facebook	USA	NR
Tencent Holdings	Greater China	NR
Materials	Circutor Ormita	
Lyondell Basell Industries	Netherlands	NR
MMC Norilsk Nickel	Russia	DP
Siam Cement	Thailand	NR
Southern Copper Corporation	Peru	NR
Telecommunication Services		
Advanced Info Service	Thailand	NR
América Móvil	Mexico	NR
American Tower	USA	DP
Axiata Group Berhad	Malaysia	NR
Bharti Airtel	India	NR
China Mobile	Greater China	NR
China Telecom	Greater China	NR
Crown Castle International Corp	USA	NR
SoftBank	Japan	NR
Telekom Indonesia	Indonesia	NR
Utilities		
CEZ	Czech Republic	NR
Dominion Resources	USA	DP
Hong Kong and China Gas	Greater China	NR
National Thermal Power (NTPC)	India	NR
NextEra Energy	USA	NR
The Southern Company	USA	IN

Appendix Key:

AQ: Answered questionnaire

AQ(L): Answered questionnaire late, and therefore is not scored.

DP: Declined to participate

IN: Information provided (e.g. CSR report)

NR: No response

SA: See another - refers to another company response

Not public: the company responded privately

Scope 3 column: value indicates number of S3 categories that were reported as 'relevant and calculated'

*: the asterisk on scope 1 or scope 2 emissions figure indicates full points were awarded for verification that is complete or underway using an approved standard

Bold: companies that are in either CPLI (performance band A) or CDLI (disclosure score 97 or higher), or both.



Appendix II - Responding companies, scores and emissions data

Company name	Country	2013 Score	Scope 1	Scope 2	Scope
Consumer Discretionary					
Adidas	Germany	86 B	12,169	57,551	1
Astra International	Indonesia	32		Not public	
BMW	Germany	100 A	484,612*	862,214*	7
Bridgestone	Japan	93 B		Not public	
British Sky Broadcasting			20,972*	80,458*	11
Carnival	United Kingdom	83 C	10,819,814*	57,585*	4
CBS	USA	24	,		
Christian Dior	France	59 E		Not public	
Compagnie Financière Richemont	Switzerland	79 B	18,600	45,200	1
Compass	United Kingdom		76,141	9,064	0
Continental AG	Germany	82 C	591,681*	1,860,558*	1
Daimler	Germany		960,464*	2,330,559*	11
Denso	Japan	71 C		Not public	
DIRECTV	USA	91 B	106,060*	88,145*	5
eBay	USA	75 D	14,374	225,952	1
ord Motor	USA	72 C	1,698,799*	3,440,338	0
General Motors	USA	100 A-	2,454,755*	5,531,380*	7
H&M Hennes & Mauritz	Sweden	83 A	15,282*	329,630*	2
Home Depot	USA	99 A-	250,224*	2,529,646*	1
Honda	Japan	99 A	1,410,000*	3,540,000*	12
Hyundai	South Korea	87 B	877,211*	1,533,990*	3
Hyundai Mobis	South Korea	94 B	40,967*	291,957*	1
nditex	Spain	80 B	24,479*	290,120*	2
Johnson Controls	USA	94 A-	866,181*	1,465,658*	8
as Vegas Sands	USA	94 A-	225,157*		2
				821,527*	
_owe's	USA	85 D	303,721	2,552,740	1
VMH	France	67 C	48,365*	299,150*	5
McDonald's	USA	71 D		Not public	
Naspers	South Africa	59 E		Not public	
News Corporation	USA	97 A-	62,360*	376,022*	6
NIKE	USA	70 D		Not public	
Nissan	Japan	99 A	835,766*	2,432,889*	12
Royal Philips	Netherlands	100 A	442,549*	408,517*	4
PPR	France	90 B	15,078*	98,950*	3
Rogers Communications	Canada	68 C	38,870	159,819	4
Starbucks	USA	86 C	239,972*	792,644*	1
arget	USA	91 B	527,047*	2,489,866*	1
Thomson Reuters	USA	95 B		Not public	
TJX Companies	USA	98 B	63,084*	686,955*	0
- Toyota	Japan	96 B	2,727,000*	4.499.000*	10
/iacom	USA	60 D	_, ,	Not public	
/ivendi Universal					
TIVOTIGI OTTIVOTOGI	France	69 D	90.755*		2
/olkewagen	France	69 D	90,755*	345,818*	2
	Germany	99 A	4,133,581*	345,818* 4,572,344 *	5
Walt Disney Company	Germany USA	99 A 78 C	4,133,581* 867,353	345,818* 4,572,344* 899,027	5
Valt Disney Company VPP	Germany USA United Kingdom	99 A 78 C 95 B	4,133,581* 867,353 9,859*	345,818* 4,572,344* 899,027 164,206*	5 1 1
Valt Disney Company NPP /um! Brands	Germany USA	99 A 78 C	4,133,581* 867,353	345,818* 4,572,344* 899,027	5
Valt Disney Company VPP Yum! Brands Consumer Staples	Germany USA United Kingdom USA	99 A 78 C 95 B 92 B	4,133,581* 867,353 9,859* 156,510*	345,818* 4,572,344* 899,027 164,206* 2,377,372*	5 1 1 1
Walt Disney Company WPP Yum! Brands Consumer Staples Ntria Ambev - Cia. Bebidas das	Germany USA United Kingdom USA USA	99 A 78 C 95 B 92 B 75 C	4,133,581* 867,353 9,859* 156,510*	345,818* 4,572,344* 899,027 164,206* 2,377,372* 236,169	5 1 1 1 0
Walt Disney Company WPP Yum! Brands Consumer Staples Altria Ambev - Cia. Bebidas das Americas	Germany USA United Kingdom USA USA USA USA USA	99 A 78 C 95 B 92 B 75 C	4,133,581* 867,353 9,859* 156,510* 283,926 757,236	345,818* 4,572,344* 899,027 164,206* 2,377,372* 236,169 235,799	5 1 1 1 1 0
Walt Disney Company WPP Yum! Brands Consumer Staples Altria Ambev - Cia. Bebidas das Americas Anheuser Busch InBev	Germany USA United Kingdom USA USA USA USA USA USA USA USA USA Brazil	99 A 78 C 95 B 92 B 75 C	4,133,581* 867,353 9,859* 156,510* 283,926 757,236 2,459,221*	345,818* 4,572,344* 899,027 164,206* 2,377,372* 236,169	5 1 1 1 0
Walt Disney Company WPP Yum! Brands Consumer Staples Altria Ambev - Cia. Bebidas das Americas Anheuser Busch InBev	Germany USA United Kingdom USA USA USA USA USA	99 A 78 C 95 B 92 B 75 C	4,133,581* 867,353 9,859* 156,510* 283,926 757,236	345,818* 4,572,344* 899,027 164,206* 2,377,372* 236,169 235,799	5 1 1 1 1 0
Walt Disney Company WPP Yum! Brands Consumer Staples Altria Ambev - Cia. Bebidas das Americas Anheuser Busch InBev Associated British Foods	Germany USA United Kingdom USA USA USA USA USA USA USA USA USA Brazil	99 A 78 C 95 B 92 B 75 C 66 C	4,133,581* 867,353 9,859* 156,510* 283,926 757,236 2,459,221*	345,818* 4,572,344* 899,027 164,206* 2,377,372* 236,169 235,799 1,588,297*	5 1 1 1 0 0
Walt Disney Company WPP Yum! Brands Consumer Staples Altria Ambev - Cia. Bebidas das Americas Anheuser Busch InBev Associated British Foods Beiersdorf AG	Germany USA United Kingdom USA USA USA Brazil Belgium United Kingdom	99 A 78 C 95 B 92 B 75 C 66 C 85 A	4,133,581* 867,353 9,859* 156,510* 283,926 757,236 2,459,221* 2,295,328*	345,818* 4,572,344* 899,027 164,206* 2,377,372* 236,169 235,799 1,588,297* 1,067,934*	5 1 1 1 1 0 0 0
Walt Disney Company MPP Yum! Brands Consumer Staples Altria Ambev - Cia. Bebidas das Americas Anheuser Busch InBev Associated British Foods Beiersdorf AG BRF Brasil Foods	Germany USA United Kingdom USA USA USA Brazil Belgium United Kingdom Germany	99 A 78 C 95 B 92 B 75 C 66 C 85 A 85 B 51 C	4,133,581* 867,353 9,859* 156,510* 283,926 757,236 2,459,221* 2,295,328*	345,818* 4,572,344* 899,027 164,206* 2,377,372* 236,169 235,799 1,588,297* 1,067,934* 51,571	5 1 1 1 1 0 0 0
Walt Disney Company MPP Yum! Brands Consumer Staples Altria Ambev - Cia. Bebidas das Americas Anheuser Busch InBev Associated British Foods Beiersdorf AG BRF Brasil Foods British American Tobacco	Germany USA United Kingdom USA USA Brazil Belgium United Kingdom Germany Brazil	99 A 78 C 95 B 92 B 75 C 66 C 85 A 85 B 51 C 83 B	4,133,581* 867,353 9,859* 156,510* 283,926 757,236 2,459,221* 2,295,328* 22,071	345,818* 4,572,344* 899,027 164,206* 2,377,372* 236,169 235,799 1,588,297* 1,067,934* 51,571 Not public	5 1 1 1 1 0 0 0 0
Walt Disney Company MPP Yum! Brands Consumer Staples Altria Ambev - Cia. Bebidas das Americas Anheuser Busch InBev Associated British Foods Beiersdorf AG BRF Brasil Foods British American Tobacco Carrefour	Germany USA United Kingdom USA USA Brazil Belgium United Kingdom Germany Brazil United Kingdom	99 A 78 C 95 B 92 B 75 C 66 C 85 A 85 B 51 C 83 B 94 B	4,133,581* 867,353 9,859* 156,510* 283,926 757,236 2,459,221* 2,295,328* 22,071 359,184*	345,818* 4,572,344* 899,027 164,206* 2,377,372* 236,169 235,799 1,588,297* 1,067,934* 51,571 Not public 387,168*	5 1 1 1 1 0 0 0 0 0
Walt Disney Company MPP Yum! Brands Consumer Staples Altria Ambev - Cia. Bebidas das Americas Anheuser Busch InBev Associated British Foods Beiersdorf AG BRF Brasil Foods British American Tobacco Carrefour Coca-Cola	Germany USA United Kingdom USA USA Brazil Belgium United Kingdom Germany Brazil United Kingdom France	99 A 78 C 95 B 92 B 75 C 66 C 85 A 85 B 51 C 83 B 94 B 80 B	4,133,581* 867,353 9,859* 156,510* 283,926 757,236 2,459,221* 2,295,328* 22,071 359,184* 1,630,800*	345,818* 4,572,344* 899,027 164,206* 2,377,372* 236,169 235,799 1,588,297* 1,067,934* 51,571 Not public 387,168* 1,585,600* 1,143,628*	5 1 1 1 0 0 0 0 0 0
Walt Disney Company WPP Yum! Brands Consumer Staples Altria Ambev - Cia. Bebidas das Americas Anheuser Busch InBev Associated British Foods Beiersdorf AG BRF Brasil Foods British American Tobacco Carrefour Coca-Cola Colgate-Palmolive	Germany USA United Kingdom USA USA Brazil Belgium United Kingdom Germany Brazil United Kingdom France USA	78 C 95 B 92 B 75 C 66 C 85 A 85 B 51 C 83 B 94 B 80 B	4,133,581* 867,353 9,859* 156,510* 283,926 757,236 2,459,221* 2,295,328* 22,071 359,184* 1,630,800* 2,607,171* 232,574*	345,818* 4,572,344* 899,027 164,206* 2,377,372* 236,169 235,799 1,588,297* 1,067,934* 51,571 Not public 387,168* 1,585,600* 1,143,628* 435,061*	5 1 1 1 0 0 0 0 0 0 0
Walt Disney Company WPP Yum! Brands Consumer Staples Altria Ambev - Cia. Bebidas das Americas Anheuser Busch InBev Associated British Foods Beiersdorf AG BRF Brasil Foods British American Tobacco Carrefour Coca-Cola Colgate-Palmolive Costco Wholesale	Germany USA United Kingdom USA USA Brazil Belgium United Kingdom Germany Brazil United Kingdom France USA USA USA	99 A 78 C 95 B 92 B 75 C 66 C 85 A 85 B 51 C 83 B 94 B 80 B 90 A- 99 B 45	4,133,581* 867,353 9,859* 156,510* 283,926 757,236 2,459,221* 2,295,328* 22,071 359,184* 1,630,800* 2,607,171* 232,574* 362,802	345,818* 4,572,344* 899,027 164,206* 2,377,372* 236,169 235,799 1,588,297* 1,067,934* 51,571 Not public 387,168* 1,585,600* 1,143,628* 435,061* 1,197,983	5 1 1 1 1 0 0 0 0 0 0 0 0
Walt Disney Company MPP Yum! Brands Consumer Staples Altria Ambev - Cia. Bebidas das Americas Anheuser Busch InBev Associated British Foods Beiersdorf AG BRF Brasil Foods British American Tobacco Carrefour Coca-Cola Colgate-Palmolive Costco Wholesale CVS Caremark	Germany USA United Kingdom USA USA Brazil Belgium United Kingdom Germany Brazil United Kingdom France USA USA USA USA USA	99 A 78 C 95 B 92 B 75 C 66 C 85 A 85 B 51 C 83 B 94 B 80 B 90 A- 99 B 45	4,133,581* 867,353 9,859* 156,510* 283,926 757,236 2,459,221* 2,295,328* 22,071 359,184* 1,630,800* 2,607,171* 232,574* 362,802 201,000*	345,818* 4,572,344* 899,027 164,206* 2,377,372* 236,169 235,799 1,588,297* 1,067,934* 51,571 Not public 387,168* 1,585,600* 1,143,628* 435,061* 1,197,983 1,495,000*	5 1 1 1 1 0 0 0 0 0 0 0 0 1 5 1 1 5 1 1 1 1
Walt Disney Company MPP //um! Brands Consumer Staples Altria Ambev - Cia. Bebidas das Amheuser Busch InBev Associated British Foods Beiersdorf AG BRF Brasil Foods British American Tobacco Carrefour Coca-Cola Colgate-Palmolive Costco Wholesale CVS Caremark Danone	Germany USA United Kingdom USA USA Brazil Belgium United Kingdom Germany Brazil United Kingdom France USA USA USA USA USA USA France	99 A 78 C 95 B 92 B 75 C 66 C 85 A 85 B 51 C 83 B 94 B 80 B 90 A- 99 B 45 92 B 93 B	4,133,581* 867,353 9,859* 156,510* 283,926 757,236 2,459,221* 2,295,328* 22,071 359,184* 1,630,800* 2,607,171* 232,574* 362,802 201,000* 894,206*	345,818* 4,572,344* 899,027 164,206* 2,377,372* 236,169 235,799 1,588,297* 1,067,934* 51,571 Not public 387,168* 1,585,600* 1,143,628* 435,061* 1,197,983 1,495,000* 847,529*	5 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0
Walt Disney Company MPP Yum! Brands Consumer Staples Altria Ambev - Cia. Bebidas das Americas Anheuser Busch InBev Associated British Foods Beiersdorf AG BRF Brasil Foods British American Tobacco Carrefour Coca-Cola Colgate-Palmolive Costco Wholesale CVS Caremark Danone Diageo Femsa - Fomento	Germany USA United Kingdom USA USA Brazil Belgium United Kingdom Germany Brazil United Kingdom France USA USA USA USA USA	99 A 78 C 95 B 92 B 75 C 66 C 85 A 85 B 51 C 83 B 94 B 80 B 90 A- 99 B 45 92 B 93 B	4,133,581* 867,353 9,859* 156,510* 283,926 757,236 2,459,221* 2,295,328* 22,071 359,184* 1,630,800* 2,607,171* 232,574* 362,802 201,000*	345,818* 4,572,344* 899,027 164,206* 2,377,372* 236,169 235,799 1,588,297* 1,067,934* 51,571 Not public 387,168* 1,585,600* 1,143,628* 435,061* 1,197,983 1,495,000*	5 1 1 1 1 0 0 0 0 0 0 0 0 1 5 1 1 5 1 1 1 1
Walt Disney Company MPP Yum! Brands Consumer Staples Altria Ambev - Cia. Bebidas das Americas Anheuser Busch InBev Associated British Foods Beiersdorf AG BRF Brasil Foods British American Tobacco Carrefour Coca-Cola Colgate-Palmolive Costco Wholesale CVS Caremark Danone Diageo Femsa - Fomento Economico Mexicano	Germany USA United Kingdom USA USA Brazil Belgium United Kingdom Germany Brazil United Kingdom France USA USA USA USA USA USA USA USA USA France UNA USA France UNA USA France UNA Mexico	99 A 78 C 95 B 92 B 75 C 66 C 85 A 85 B 51 C 83 B 94 B 80 B 90 A- 99 B 45 92 B 93 B 93 B	4,133,581* 867,353 9,859* 156,510* 283,926 757,236 2,459,221* 2,295,328* 22,071 359,184* 1,630,800* 2,607,171* 232,574* 362,802 201,000* 894,206* 597,619*	345,818* 4,572,344* 899,027 164,206* 2,377,372* 236,169 235,799 1,588,297* 1,067,934* 51,571 Not public 387,168* 1,585,600* 1,143,628* 435,061* 1,197,983 1,495,000* 847,529* 83,898* Not public	5 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Walt Disney Company MPP Yum! Brands Consumer Staples Altria Ambev - Cia. Bebidas das Americas Anheuser Busch InBev Associated British Foods Beiersdorf AG BRF Brasil Foods British American Tobacco Carrefour Coca-Cola Colgate-Palmolive Costco Wholesale CVS Caremark Danone Diageo Femsa - Fomento Economico Mexicano General Mills	Germany USA United Kingdom USA USA Brazil Belgium United Kingdom Germany Brazil United Kingdom France USA	99 A 78 C 95 B 92 B 75 C 66 C 85 A 85 B 51 C 83 B 94 B 80 B 90 A- 99 B 45 92 B 93 B 93 B 93 B	4,133,581* 867,353 9,859* 156,510* 283,926 757,236 2,459,221* 2,295,328* 22,071 359,184* 1,630,800* 2,607,171* 232,574* 362,802 201,000* 894,206*	345,818* 4,572,344* 899,027 164,206* 2,377,372* 236,169 235,799 1,588,297* 1,067,934* 51,571 Not public 387,168* 1,585,600* 1,143,628* 435,061* 1,197,983 1,495,000* 847,529* 83,898* Not public 737,000	5 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0
Volkswagen Walt Disney Company WPP Yum! Brands Consumer Staples Altria Ambev - Cia. Bebidas das Amheuser Busch InBev Associated British Foods Beiersdorf AG BRF Brasil Foods British American Tobacco Carrefour Coca-Cola Colgate-Palmolive Costco Wholesale CVS Caremark Danone Diageo Femsa - Fomento Economico Mexicano General Mills H.J. Heinz	Germany USA United Kingdom USA Brazil Belgium United Kingdom Germany Brazil United Kingdom France USA	99 A 78 C 95 B 92 B 75 C 66 C 85 A 85 B 51 C 83 B 94 B 80 B 90 A 99 B 45 92 B 93 B 93 B 73 C 78 B 27	4,133,581* 867,353 9,859* 156,510* 283,926 757,236 2,459,221* 2,295,328* 22,071 359,184* 1,630,800* 2,607,171* 232,574* 362,802 201,000* 894,206* 597,619*	345,818* 4,572,344* 899,027 164,206* 2,377,372* 236,169 235,799 1,588,297* 1,067,934* 51,571 Not public 387,168* 1,585,600* 1,143,628* 435,061* 1,197,983 1,495,000* 847,529* 83,898* Not public 737,000 Not public	5 1 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Walt Disney Company WPP Yum! Brands Consumer Staples Altria Armbev - Cia. Bebidas das Americas Anheuser Busch InBev Associated British Foods Beiersdorf AG BRF Brasil Foods British American Tobacco Carrefour Coca-Cola Colgate-Palmolive Costco Wholesale CVS Caremark Danone Diageo Femsa - Fomento Economico Mexicano General Mills	Germany USA United Kingdom USA USA Brazil Belgium United Kingdom Germany Brazil United Kingdom France USA	99 A 78 C 95 B 92 B 75 C 66 C 85 A 85 B 51 C 83 B 94 B 80 B 90 A- 99 B 45 92 B 93 B 93 B 93 B	4,133,581* 867,353 9,859* 156,510* 283,926 757,236 2,459,221* 2,295,328* 22,071 359,184* 1,630,800* 2,607,171* 232,574* 362,802 201,000* 894,206* 597,619*	345,818* 4,572,344* 899,027 164,206* 2,377,372* 236,169 235,799 1,588,297* 1,067,934* 51,571 Not public 387,168* 1,585,600* 1,143,628* 435,061* 1,197,983 1,495,000* 847,529* 83,898* Not public 737,000	5 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

Company name	Country	2013 Score	Scope 1	Scope 2	Scope 3
Imperial Tobacco	United Kingdom	83 B	144,153*	163,819*	0
ITC	India	85 B	1,150,203*	172,121*	4
Japan Tobacco	Japan	96 B		Not public	
Kellogg Company	USA	84 B	536,069*	671,729*	2
Kimberly-Clark	USA	72 C	2,461,675*	2,967,804*	2
Kraft Foods	USA	81 B	477,813*	695,225*	9
L'Oreal	France	93 A	66,920*	126,500*	5
Mondelez International	USA	91 B	1,075,761*	954,755*	9
Nestle	Switzerland	100 A		3,391,319*	11
PepsiCo	USA	94 B	3,854,784*	1,928,490*	4
Pernod-Ricard	France	59 E	283,345	92,502	0
Philip Morris International			441,953*	433,892*	
	USA	97 B			0
Procter & Gamble			2,799,000	3,028,000	
Reckitt Benckiser	United Kingdom		104,934*	208,576	7
Reynolds American	USA	70 B	107,093*	167,402*	0
SABMiller	United Kingdom		1,009,825*	997,465*	0
Seven & I Holding	Japan	82 B	169,619*	2,310,530*	2
Souza Cruz (see British	Brazil	SA			
American Tobacco)	USA	(AQ)	700 000	226 057	0
Sysco		66 C	788,200	336,857	0
Tesco	United Kingdom	96 A-	1,418,798*	3,764,068*	7
Time Warner	USA	AQ(L)			
Unilever	United Kingdom		1,053,344*	907,399*	8
Unilever NV (see Unilever)	Netherlands	SA (AQ	2)		
Walgreens	USA	86 C		Not public	
Wal-Mart de Mexico	Mexico	71 C	851,495	1,078,080	2
Wal-Mart Stores	USA	94 A-	5,605,099*	15,581,135*	4
Wesfarmers	Australia	77 B	2,508,924	2,790,505	4
Woolworths	Australia	96 B	383,871*	2,499,051*	3
Energy					
Anadarko Petroleum	USA	75 C	5,056,818*	535,843	1
Apache	USA	70 C	10,766,000	1,314,000	0
Baker Hughes	USA	90 B	516,000*	425,000*	1
BG Group	United Kingdom		7,739,569*	20,295*	3
BP BP	United Kingdom		59,830,000*	8,360,000*	1
			39,030,000	0,000,000	<u>'</u>
Canadian Natural Resources		AQ(L)			
Cenovus Energy	Canada	94 B	4,657,427*	1,079,646*	0
Chevron	USA	97 A-	58,559,220*	3,849,319*	1
CNOOC (Red Chip)	Greater China	22		Not public	
ConocoPhillips	USA	83 B	24,171,000	1,638,000	3
Devon Energy	USA	86 B	7,596,657*	1,087,905	1
Ecopetrol	Colombia	48		Not public	
Enbridge	Canada	85 C	3,091,100	2,982,900	1
Eni	Italy	92 B	52,493,340*	834,197*	6
Exxon Mobil	USA	80 B	132,000,000*	14,000,000*	1
Gazprom	Russia	62 C	133,428,139	5,146,743	0
Halliburton	USA	65 D	4,211,808	839,363	1
Hess	USA	97 B	7,409,486*	584,695*	3
Husky Energy	Canada	86 C	9,171,000*	2,381,000	0
Imperial Oil	Canada	62 D	9,780,351*	1,367,700	0
Inpex	Japan	96 B	485,041*	27,981*	4
Noble Energy	USA	76 C	2,078,600	61,630	0
Novatek	Russia	40	2,336,375	73,460	1
Occidental Petroleum	USA	61 E	14,270,000	5,600,000	0
Petrobras	Brazil	82 C	65,983,676*	1,394,740*	1
PETROCHINA	Greater China	AQ(L)	,,	.,,.	
PTT	Thailand		20 222 000*	1 500 000*	2
	T I aliai lu	84 B	29,332,000*	1,583,000*	3
PTT Exploration & Production	Thailand	85 C	4,431,143*	1,649*	2
Repsol	Spain	98 B	14,062,806*	811,243*	3
Royal Dutch Shell	Netherlands	90 B	72,000,000*	9,000,000*	5
Sasol	South Africa	96 B	66,895,000*	8,553,000*	8
Schlumberger	USA	83 C	2,200,000	550,000	2
Spectra Energy	Nonwov	98 A	8,381,680*	608,390*	2
Statoil	Norway	86 B	15,362,600*	409,443	
Suncor Energy	Canada	94 B	18,608,320 *		4
Surgutneftegas	Russia	23	47.000.000	Not public	
Total	France	81 C	47,000,000*	4,400,000	2
TransCanada	Canada	91 B	12,186,545*	231,494*	1
Tullow Oil	United Kingdom	72 B		Not public	
Woodside Petroleum	Australia	72 C	9,889,254*	8,455*	2

Appendix II - Responding companies, scores and emissions data - *continued*

Company name	Country	2013 Score	Scope 1	Scope 2	Scope 3
Financials		000.0			
Ace	Switzerland	93 A	12,912*	39,791*	4
Aflac	USA	85 B	3,884*	18,536*	3
AKBANK T.A.Ş.	Turkey	78 B	-,	Not public	
Allianz	Germany	97 B	84,161*	166,019*	3
Allstate	USA	96 B	40,796*	150,401*	3
American Express	USA	87 C	23,371	142,667	1
American International					
Group	USA	62 D		Not public	
Assicurazioni Generali	Italy	87 A	17,862*	47,877*	3
Australia and New Zealand	Australia	92 A-	16,428*	205,462*	5
Banking					
Aviva	United Kingdom		23,849*	75,733*	4
AXA	France	94 A	51,886*	119,930*	2
Banco Bradesco	Brazil	76 C	4,780*	30,219*	3
Banco do Brasil	Brazil	54 D	7,444	54,348	4
Banco Santander	Spain	84 B	31,857*	342,928*	2
Banco Santander Brasil	Brazil	64 C	15,790	22,861	8
Bank of America	USA	98 A	116,666*	1,421,829*	10
Bank of Communications	Greater China	2			
Bank of Montreal	Canada	94 B	20,933*	86,853*	3
Bank of Nova Scotia	Canada	72 C	16,310*	128,052*	1
Barclays	United Kingdom	92 A	46,757*	786,547*	1
BBVA	Spain	76 D	9,267	295,771	1
BlackRock	USA	79 C		Not public	
BNP Paribas	France	93 A	70,319*	388,323*	1
BNY Mellon	USA	100 A	9,513*	208,926*	8
BOC Hong Kong	Greater China	AQ (L)			
Brookfield Asset					
Management	Canada	63 D	67,649	587,875	0
Canadian Imperial Bank of	0	04.0	04.070	54.050	_
Commerce	Canada	61 D	21,079	54,959	1
Capital One Financial	USA	71 C	14,501	194,433	1
Charles Schwab	USA	55 E		Not public	
Chubb	USA	52 D	1,129	10,133	0
Cielo SA	Brazil	53 E	1,564*	285*	3
Citigroup	USA	95 B	35,570*	993,687*	2
Commonwealth Bank of	Australia	00 D	11 160	145.000	9
Australia	Australia	88 B	11,160	145,989	9
Credit Agricole	France	59 D	10,241*	18,149*	1
Credit Suisse	Switzerland	88 B	23,511	151,561	4
Deutsche Bank	Germany	91 A	94,031*	443,165*	5
DnB	Norway	84 B	1,571*	13,587*	3
Firstrand Limited	South Africa	96 A	11,572*	257,172*	2
Franklin Resources	USA	86 C	8,175	29,552	1
Goldman Sachs	USA	98 A	14,559*	276,815*	7
Great West Lifeco	Canada	67 B		Not public	
Hang Seng Bank	Greater China	42	0	24,617	0
HCP	USA	97 A-	28,940*	216,887*	1
HDFC Bank	India	75 E	5,872	347,770	3
Hong Kong Exchanges &	0 . 0	70.5			
Clearing	Greater China	76 D		Not public	
HSBC	United Kingdom	97 A	64,918*	688,827*	1
Industrial and Commercial	Greater China			Not public	
Bank of China	Greater China	5		Not public	
ING	Netherlands	96 B	27,039*	87,735*	3
Intesa Sanpaolo	Italy	92 B	58,994*	54,539*	2
Itaú Unibanco Holding	Brazil	83 C	8857*	48,890*	5
JPMorgan Chase	USA	91 B	83,343*	1,219,748*	1
Lloyds Banking	United Kingdom	90 B	49,414*	290,726*	2
Malayan Banking	Malaysia	67 C	652	88,427	1
Manulife Financial	Canada	84 C	213,835	195,565	3
Marsh & McLennan	USA	98 B	3,429*	97,423*	1
MetLife	USA	92 A-		Not public	
Mitsubishi Estate	Japan	76 C		Not public	
Mitsubishi UFJ Financial Group	Japan	76 C	18,556	238,444	1
Mitsui Fudosan Co.	Japan	67 C		Not public	
Mizuho Financial	Japan	89 B	16,177*	202,850*	10
Morgan Stanley	USA	96 A	13,757*	330,747*	2
Munich Re	Germany	91 A	64,755*	87,106*	2
	Australia				
Mational Augtralia Dank	musu alid	91 A	25,363*	171,767*	6
National Australia Bank		06.0	0.600*	OE 077*	0
Nomura Holdings	Japan	86 B	3,629*	95,377*	2
		86 B 93 B 3	3,629* 0*	95,377* 64,175*	1

Company name	Country	2013 Score	Scope 1	Scope 2	Scope 3
Ping An Insurance Company of China	^y Greater China	AQ(L)			
PNC Financial Services	USA	89 B	47,606*	398,414*	3
Power Financial Corporation		86 C	10.500	Not public	
Prudential Prudential Financial	United Kingdom USA		12,500	114,636	0
Royal Bank of Canada	Canada	63 C 77 D	5,090 32,046	70,613 127,445	1
Royal Bank of Scotland	United Kingdom		66,586*	497,763*	9
Simon Property Group	USA	98 B	21,854*	496,006*	2
Skandinaviska Enskilda Banken AB (SEB AB)	Sweden	74 B	0	9,308	3
Societe Generale	France	85 B	31,763*	205,871*	4
Standard Bank	South Africa	71 C	9,198*	363,916*	4
Standard Chartered	United Kingdom	91 B	26,560*	229,122*	0
State Bank of India	India	16			
State Street	USA	87 C	10,009*	98,756*	1
Sumitomo Mitsui Financial Group	Japan	86 B		Not public	
Svenska Handelsbanken	Sweden	81 B	41	4,889*	2
Swire Properties	Greater China	SA (AC))		
Swiss Re	Switzerland	92 A	4,850*	8,800*	1
T.GARANTİ BANKASI A.Ş.	Turkey	80 C	15,568	73,994	1
Tokio Marine Holdings	Japan	83 B	17,918*	70,971*	1
Toronto-Dominion Bank	Canada	94 A	43,289*	64,108*	2
Travelers Companies	USA	63 C	35,633	48,175	0
U.S. Bancorp	USA	78 C	38,055	370,672	4
UBS	Switzerland	92 A-	21,838*	172,421*	6
Unibail-Rodamco UniCredit	France	79 B	15,429*	66,533* 308,348*	3
Ventas	USA USA	77 C 85 C	67,425* 43,381	314,379	0
Wells Fargo	USA	96 A	93,904*	1,333,372*	7
Westfield	Australia	85 B	25,187*	458,569*	4
Westpac Banking	Australia	91 A	12,134*	176,648*	3
Zurich Insurance	Switzerland	65 C		Not public	
Healthcare					
Abbott Laboratories	USA	84 B	470,781*	537,821*	5
Allergan	USA	91 B	49,128*	52,049*	2
Amgen	USA	76 B	119,968*	286,679*	3
Astellas Pharma	Japan	88 B	85,937*	125,398*	1
AstraZeneca	United Kingdom		340,800*	286,200*	5
Baxter International	USA	82 B	345,000*	445,000* 4,120,000 *	10
Bayer	Germany	99 A-	4,240,000*		40
Riogen Idea	1167	02 B			7
Biogen Idec Bristol-Myers Squibb	USA	92 B	46,588*	39,307*	7
Bristol-Myers Squibb	USA	96 B	46,588* 269,734*	39,307* 262,565*	7
Bristol-Myers Squibb Celgene	USA USA	96 B 80 C	46,588* 269,734* 14,458*	39,307* 262,565* 18,420*	7 2 2
Bristol-Myers Squibb Celgene Covidien	USA	96 B	46,588* 269,734* 14,458* 230,511	39,307* 262,565*	7 2 2 0
Bristol-Myers Squibb Celgene	USA USA Ireland	96 B 80 C 70 C	46,588* 269,734* 14,458*	39,307* 262,565* 18,420* 402,132	7 2 2
Bristol-Myers Squibb Celgene Covidien CSL	USA USA Ireland Australia	96 B 80 C 70 C 85 C	46,588* 269,734* 14,458* 230,511 55,383	39,307* 262,565* 18,420* 402,132 136,951	7 2 2 0 2
Bristol-Myers Squibb Celgene Covidien CSL Eli Lilly	USA USA Ireland Australia USA France Germany	96 B 80 C 70 C 85 C 86 B 28 72 D	46,588* 269,734* 14,458* 230,511 55,383 415,040*	39,307* 262,565* 18,420* 402,132 136,951 1,160,941*	7 2 2 0 2 4
Bristol-Myers Squibb Celgene Covidien CSL Eli Lilly Essilor International Fresenius Medical Care GlaxoSmithKline	USA USA Ireland Australia USA France Germany United Kingdom	96 B 80 C 70 C 85 C 86 B 28 72 D 98 A	46,588* 269,734* 14,458* 230,511 55,383 415,040* 3	39,307* 262,565* 18,420* 402,132 136,951 1,160,941* 55100 Not public 804,283 *	7 2 2 0 2 4 3
Bristol-Myers Squibb Celgene Covidien CSL Eli Lilly Essilor International Fresenius Medical Care GlaxoSmithKline Johnson & Johnson	USA USA Ireland Australia USA France Germany United Kingdom USA	96 B 80 C 70 C 85 C 86 B 28 72 D 98 A 98 A-	46,588* 269,734* 14,458* 230,511 55,383 415,040* 3 1,005,447* 329,556*	39,307* 262,565* 18,420* 402,132 136,951 1,160,941* 55100 Not public 804,283* 853,700*	7 2 2 0 2 4 3
Bristol-Myers Squibb Celgene Covidien CSL Eli Lilly Essilor International Fresenius Medical Care GlaxoSmithKline Johnson & Johnson Medtronic	USA USA Ireland Australia USA France Germany United Kingdom USA USA	96 B 80 C 70 C 85 C 86 B 28 72 D 98 A 61 D	46,588* 269,734* 14,458* 230,511 55,383 415,040* 3 1,005,447* 329,556* 31,460	39,307* 262,565* 18,420* 402,132 136,951 1,160,941* 55100 Not public 804,283* 853,700* 170,685	7 2 2 0 2 4 3 5 2 2
Bristol-Myers Squibb Celgene Covidien CSL Eli Lilly Essilor International Fresenius Medical Care GlaxoSmithKline Johnson & Johnson Medtronic Merck & Co.	USA USA Ireland Australia USA France Germany United Kingdom USA USA USA	96 B 80 C 70 C 85 C 86 B 28 72 D 98 A 98 A - 61 D 87 B	46,588* 269,734* 14,458* 230,511 55,383 415,040* 3 1,005,447* 329,556* 31,460 1,053,000*	39,307* 262,565* 18,420* 402,132 136,951 1,160,941* 55100 Not public 804,283* 853,700* 170,685 927,000*	7 2 2 0 2 4 3 5 2 2 3
Bristol-Myers Squibb Celgene Covidien CSL Eli Lilly Essilor International Fresenius Medical Care GlaxoSmithKline Johnson & Johnson Medtronic Merck & Co. Novartis	USA USA Ireland Australia USA France Germany United Kingdom USA USA USA USA Switzerland	96 B 80 C 70 C 85 C 86 B 28 72 D 98 A 98 A 61 D 87 B	46,588* 269,734* 14,458* 230,511 55,383 415,040* 3 1,005,447* 329,556* 31,460 1,053,000* 637,838*	39,307* 262,565* 18,420* 402,132 136,951 1,160,941* 55100 Not public 804,283* 853,700* 170,685 927,000* 1,013,238*	7 2 2 0 2 4 3 5 2 2 2 3 6
Bristol-Myers Squibb Celgene Covidien CSL Eli Lilly Essilor International Fresenius Medical Care GlaxoSmithKline Johnson & Johnson Medtronic Merck & Co. Novartis Novo Nordisk	USA USA Ireland Australia USA France Germany United Kingdom USA USA USA USA Switzerland Denmark	96 B 80 C 70 C 85 C 86 B 28 72 D 98 A 98 A 61 D 87 B 96 B	46,588* 269,734* 14,458* 230,511 55,383 415,040* 3 1,005,447* 329,556* 31,460 1,053,000* 637,838* 38,587*	39,307* 262,565* 18,420* 402,132 136,951 1,160,941* 55100 Not public 804,283* 853,700* 170,685 927,000* 1,013,238* 88,294*	7 2 2 0 2 4 3 5 2 2 2 3 6 5
Bristol-Myers Squibb Celgene Covidien CSL Eli Lilly Essilor International Fresenius Medical Care GlaxoSmithKline Johnson & Johnson Medtronic Merck & Co. Novartis Novo Nordisk Pfizer	USA USA Ireland Australia USA France Germany United Kingdom USA USA USA USA Switzerland Denmark USA	96 B 80 C 70 C 85 C 86 B 28 72 D 98 A 98 A - 61 D 87 B 96 B 96 B	46,588* 269,734* 14,458* 230,511 55,383 415,040* 3 1,005,447* 329,556* 31,460 1,053,000* 637,838* 38,587* 1,217,736*	39,307* 262,565* 18,420* 402,132 136,951 1,160,941* 55100 Not public 804,283* 853,700* 170,685 927,000* 1,013,238* 88,294* 1,155,762*	7 2 2 0 2 4 3 5 2 2 3 6 5 8
Bristol-Myers Squibb Celgene Covidien CSL Eli Lilly Essilor International Fresenius Medical Care GlaxoSmithKline Johnson & Johnson Medtronic Merck & Co. Novartis Novo Nordisk Pfizer Roche Holding	USA USA Ireland Australia USA France Germany United Kingdom USA USA USA Switzerland Denmark USA Switzerland Switzerland	96 B 80 C 70 C 85 C 86 B 28 72 D 98 A 98 A- 61 D 87 B 96 B 96 B 91 B	46,588* 269,734* 14,458* 230,511 55,383 415,040* 3 1,005,447* 329,556* 31,460 1,053,000* 637,838* 38,587* 1,217,736* 394,063*	39,307* 262,565* 18,420* 402,132 136,951 1,160,941* 55100 Not public 804,283* 853,700* 170,685 927,000* 1,013,238* 88,294* 1,155,762* 432,103*	7 2 2 0 2 4 3 5 2 2 2 3 6 5
Bristol-Myers Squibb Celgene Covidien CSL Eli Lilly Essilor International Fresenius Medical Care GlaxoSmithKline Johnson & Johnson Medtronic Merck & Co. Novartis Novo Nordisk Pfizer Roche Holding Sanofi-Aventis	USA USA Ireland Australia USA France Germany United Kingdom USA USA USA Switzerland Denmark USA Switzerland France	96 B 80 C 70 C 85 C 86 B 28 72 D 98 A 98 A- 61 D 87 B 96 B 96 B 91 B 96 B	46,588* 269,734* 14,458* 230,511 55,383 415,040* 3 1,005,447* 329,556* 31,460 1,053,000* 637,838* 38,587* 1,217,736*	39,307* 262,565* 18,420* 402,132 136,951 1,160,941* 55100 Not public 804,283* 853,700* 1,013,238* 88,294* 1,155,762* 432,103* 685,707*	7 2 2 0 2 4 3 5 2 2 3 6 5 8
Bristol-Myers Squibb Celgene Covidien CSL Eli Lilly Essilor International Fresenius Medical Care GlaxoSmithKline Johnson & Johnson Medtronic Merck & Co. Novartis Novo Nordisk Pfizer Roche Holding Sanofi-Aventis Stryker Takeda Pharmaceutical	USA USA Ireland Australia USA France Germany United Kingdom USA USA USA Switzerland Denmark USA Switzerland Switzerland	96 B 80 C 70 C 85 C 86 B 28 72 D 98 A 98 A- 61 D 87 B 96 B 96 B 91 B	46,588* 269,734* 14,458* 230,511 55,383 415,040* 3 1,005,447* 329,556* 31,460 1,053,000* 637,838* 38,587* 1,217,736* 394,063*	39,307* 262,565* 18,420* 402,132 136,951 1,160,941* 55100 Not public 804,283* 853,700* 170,685 927,000* 1,013,238* 88,294* 1,155,762* 432,103*	7 2 2 0 2 4 3 5 2 2 3 6 5 8
Bristol-Myers Squibb Celgene Covidien CSL Eli Lilly Essilor International Fresenius Medical Care GlaxoSmithKline Johnson & Johnson Medtronic Merck & Co. Novartis Novo Nordisk Pfizer Roche Holding Sanofi-Aventis Stryker Takeda Pharmaceutical Ireva Pharmaceutical Industries	USA USA Ireland Australia USA France Germany United Kingdom USA USA USA USA Switzerland Denmark USA Switzerland France USA Switzerland Israel	96 B 80 C 70 C 85 C 86 B 28 72 D 98 A 98 A- 61 D 87 B 96 B 96 B 96 B 97 A- 73 D	46,588* 269,734* 14,458* 230,511 55,383 415,040* 3 1,005,447* 329,556* 31,460 1,053,000* 637,838* 38,587* 1,217,736* 394,063* 694,600*	39,307* 262,565* 18,420* 402,132 136,951 1,160,941* 55100 Not public 804,283* 853,700* 170,685 927,000* 1,013,238* 88,294* 1,155,762* 432,103* 685,707* Not public Not public	7 2 2 0 2 4 3 5 2 2 2 3 6 5 8 1 9
Bristol-Myers Squibb Celgene Covidien CSL Eli Lilly Essilor International Fresenius Medical Care GlaxoSmithKline Johnson & Johnson Medtronic Merck & Co. Novartis Novo Nordisk Pfizer Roche Holding Sanofi-Aventis Stryker Takeda Pharmaceutical Teva Pharmaceutical Industries Thermo Fisher Scientific	USA USA Ireland Australia USA France Germany United Kingdom USA USA USA USA Switzerland Denmark USA Switzerland France USA Switzerland ISA Switzerland ISA USA USA USA USA USA USA USA USA USA U	96 B 80 C 70 C 85 C 86 B 28 98 A 98 A 61 D 87 B 96 B 96 B 97 A 53 E 77 C	46,588* 269,734* 14,458* 230,511 55,383 415,040* 3 1,005,447* 329,556* 31,460 1,053,000* 637,838* 38,587* 1,217,736* 394,603* 694,600*	39,307* 262,565* 18,420* 402,132 136,951 1,160,941* 55100 Not public 804,283* 853,700* 170,685 927,000* 1,013,238* 88,294* 1,155,762* 432,103* 685,707* Not public 168,509 Not public 297,992	7 2 2 0 2 4 3 5 2 2 3 6 5 8 1 9
Bristol-Myers Squibb Celgene Covidien CSL Eli Lilly Essilor International Fresenius Medical Care GlaxoSmithKline Johnson & Johnson Medtronic Merck & Co. Novartis Novo Nordisk Pfizer Roche Holding Sanofi-Aventis Stryker Takeda Pharmaceutical Teva Pharmaceutical Industries Thermo Fisher Scientific UnitedHealth	USA USA Ireland Australia USA France Germany United Kingdom USA USA USA Switzerland Denmark USA Switzerland France USA Japan Israel USA	96 B 80 C 70 C 85 C 86 B 28 72 D 98 A 61 D 87 B 96 B 91 B 96 B 97 A 53 E 79 C 73 D	46,588* 269,734* 14,458* 230,511 55,383 415,040* 3 1,005,447* 329,556* 31,460 1,053,000* 637,838* 38,587* 1,217,736* 394,663* 694,600* 238,684 64,863 8,694*	39,307* 262,565* 18,420* 402,132 136,951 1,160,941* 55100 Not public 804,283* 853,700* 170,685 927,000* 1,013,238* 88,294* 1,155,762* 432,103* 685,707* Not public 168,509 Not public 297,992 104,200*	7 2 2 0 2 4 3 5 2 2 3 6 5 8 1 9
Bristol-Myers Squibb Celgene Covidien CSL Eli Lilly Essilor International Fresenius Medical Care GlaxoSmithKline Johnson & Johnson Medtronic Merck & Co. Novartis Novo Nordisk Pfizer Roche Holding Sanofi-Aventis Stryker Takeda Pharmaceutical Teva Pharmaceutical Industries Thermo Fisher Scientific UnitedHealth WellPoint	USA USA Ireland Australia USA France Germany United Kingdom USA USA USA USA Switzerland Denmark USA Switzerland France USA Switzerland ISA Switzerland ISA USA USA USA USA USA USA USA USA USA U	96 B 80 C 70 C 85 C 86 B 28 98 A 98 A 61 D 87 B 96 B 96 B 97 A 53 E 77 D 73 D	46,588* 269,734* 14,458* 230,511 55,383 415,040* 3 1,005,447* 329,556* 31,460 1,053,000* 637,838* 38,587* 1,217,736* 394,603* 694,600*	39,307* 262,565* 18,420* 402,132 136,951 1,160,941* 55100 Not public 804,283* 853,700* 170,685 927,000* 1,013,238* 88,294* 1,155,762* 432,103* 685,707* Not public 168,509 Not public 297,992	7 2 2 0 2 4 3 5 2 2 3 6 5 8 1 9
Bristol-Myers Squibb Celgene Covidien CSL Eli Lilly Essilor International Fresenius Medical Care GlaxoSmithKline Johnson & Johnson Medtronic Merck & Co. Novartis Novo Nordisk Pfizer Roche Holding Sanofi-Aventis Stryker Takeda Pharmaceutical Teva Pharmaceutical Industries Thermo Fisher Scientific UnitedHealth WellPoint Industrials	USA USA Ireland Australia USA France Germany United Kingdom USA USA USA Switzerland Denmark USA Switzerland France USA Japan Israel USA	96 B B 80 C 70 C 85 C 86 B 28 P 8 A 98 A 96 B 96 B 96 B 97 A 53 E 79 C 73 D 98 B 57 C C	46,588* 269,734* 14,458* 230,511 55,383 415,040* 3 1,005,447* 329,556* 31,460 1,053,000* 637,838* 38,587* 1,217,736* 394,063* 694,600* 238,684 64,863 8,694* 7,460	39,307* 262,565* 18,420* 402,132 136,951 1,160,941* 55100 Not public 804,283* 853,700* 170,685 927,000* 1,013,238* 88,294* 1,155,762* 432,103* 685,707* Not public 168,509 Not public 297,992 104,200* 114,199	7 2 2 0 2 4 3 5 2 2 3 6 5 8 1 9
Bristol-Myers Squibb Celgene Covidien CSL Eli Lilly Essilor International Fresenius Medical Care GlaxoSmithKline Johnson & Johnson Medtronic Merck & Co. Novartis Novo Nordisk Pfizer Roche Holding Sanofi-Aventis Stryker Takeda Pharmaceutical Teva Pharmaceutical Industries Thermo Fisher Scientific UnitedHealth WellPoint Industrials 3M	USA USA Ireland Australia USA France Germany United Kingdom USA USA Switzerland Denmark USA Switzerland France USA Japan Israel USA	96 B B 80 C 70 C 85 C 86 B 28 P 8 A 98 A 96 B 96 B 96 B 97 A 53 E 79 C 73 D 98 B 77 C C 77 C 77 C 77 C 77 C 77 C 77 C	46,588* 269,734* 14,458* 230,511 55,383 415,040* 3 1,005,447* 329,556* 31,460 1,053,000* 637,838* 38,587* 1,217,736* 394,663* 694,600* 238,684 64,863 8,694*	39,307* 262,565* 18,420* 402,132 136,951 1,160,941* 55100 Not public 804,283* 853,700* 170,685 927,000* 1,013,238* 88,294* 1,155,762* 432,103* 685,707* Not public 168,509 Not public 297,992 104,200*	7 2 2 0 2 4 3 5 2 2 3 6 5 8 1 9
Bristol-Myers Squibb Celgene Covidien CSL Eli Lilly Essilor International Fresenius Medical Care GlaxoSmithKline Johnson & Johnson Medtronic Merck & Co. Novartis Novo Nordisk Pfizer Roche Holding Sanofi-Aventis Stryker Takeda Pharmaceutical Teva Pharmaceutical Industries Thermo Fisher Scientific UnitedHealth WellPoint Industrials 3M ABB	USA USA Ireland Australia USA France Germany United Kingdom USA USA Switzerland Denmark USA Switzerland France USA Japan Israel USA USA USA USA Switzerland France USA Japan Israel USA USA USA USA USA USA USA	96 B B 80 C 70 C 85 C 86 B 28 A 98 A 96 B 96 B 96 B 97 A 53 E 75 C 98 B 77 C C 73 D AQ (L)	46,588* 269,734* 14,458* 230,511 55,383 415,040* 3 1,005,447* 329,556* 31,460 1,053,000* 637,838* 38,587* 1,217,736* 394,063* 694,600* 238,684 64,863 8,694* 7,460 4,540,000	39,307* 262,565* 18,420* 402,132 136,951 1,160,941* 55100 Not public 804,283* 853,700* 170,685 927,000* 1,013,238* 88,294* 1,155,762* 432,103* 685,707* Not public 168,509 Not public 297,992 104,200* 114,199	7 2 2 0 2 4 3 5 2 2 3 6 5 8 1 9
Bristol-Myers Squibb Celgene Covidien CSL Eli Lilly Essilor International Fresenius Medical Care GlaxoSmithKline Johnson & Johnson Medtronic Merck & Co. Novartis Novo Nordisk Pfizer Roche Holding Sanofi-Aventis Stryker Takeda Pharmaceutical Ireva Pharmaceutical Industries Thermo Fisher Scientific UnitedHealth WellPoint Industrials 3M ABB Atlas Copco	USA USA Ireland Australia USA France Germany United Kingdom USA USA Switzerland Denmark USA Switzerland France USA	96 B B 80 C 70 C 85 C 86 B 28 P 8 A 98 A 96 B 96 B 97 A 53 E 79 C 73 D 75 D 98 B 77 C P 8 A 7 C C 93 B B 7 C C 93 B B 7 C C 93 B 8 C 7 C 93 B 7 C 9	46,588* 269,734* 14,458* 230,511 55,383 415,040* 3 1,005,447* 329,556* 31,460 1,053,000* 637,838* 38,587* 1,217,736* 394,063* 694,600* 238,684 64,863 8,694* 7,460 4,540,000	39,307* 262,565* 18,420* 402,132 136,951 1,160,941* 55100 Not public 804,283* 853,700* 170,685 927,000* 1,013,238* 88,294* 1,155,762* 432,103* 685,707* Not public 168,509 Not public 297,992 104,200* 114,199 2,230,000	7 2 2 2 0 0 2 4 3 3 6 5 8 1 9 3 5 5 2 2 3 3 6 5 5 8 5 5 6 4 4
Bristol-Myers Squibb Celgene Covidien CSL Eli Lilly Essilor International Fresenius Medical Care GlaxoSmithKline Johnson & Johnson Medtronic Merck & Co. Novartis Novo Nordisk Pfizer Roche Holding Sanofi-Aventis Stryker Takeda Pharmaceutical Teva Pharmaceutical Industries Thermo Fisher Scientific UnitedHealth WellPoint Industrials 3M ABB Atlas Copco BAE Systems	USA USA Ireland Australia USA France Germany United Kingdom USA USA USA Switzerland Denmark USA Switzerland France USA	96 B B 80 C 70 C 85 C 86 B 28 P 8 A 98 A 96 B 96 B 96 B 97 A 53 E 79 C 75 D 98 B 77 C P 8 A 7 C C 98 B 6 A 7 C C 6 A 7 C C C 7 C C C 7 C C C 7 C C C 7 C C C 7 C C C 7 C C C 7 C C C 7 C C C C 7 C	46,588* 269,734* 14,458* 230,511 55,383 415,040* 3 1,005,447* 329,556* 31,460 1,053,000* 637,838* 38,587* 1,217,736* 394,063* 694,600* 238,684 4,540,000 29,464* 277,920	39,307* 262,565* 18,420* 402,132 136,951 1,160,941* 55100 Not public 804,283* 853,700* 1,70,685 927,000* 1,013,238* 88,294* 1,155,762* 432,103* 685,707* Not public 168,509 Not public 297,992 104,200* 114,199 2,230,000	7 2 2 0 2 4 3 5 2 2 3 6 5 8 1 9
Bristol-Myers Squibb Celgene Covidien CSL Eli Lilly Essilor International Fresenius Medical Care GlaxoSmithKline Johnson & Johnson Medtronic Merck & Co. Novartis Novo Nordisk Pfizer Roche Holding Sanofi-Aventis Stryker Takeda Pharmaceutical Ireva Pharmaceutical Industries Thermo Fisher Scientific UnitedHealth WellPoint Industrials 3M ABB Atlas Copco	USA USA Ireland Australia USA France Germany United Kingdom USA USA Switzerland Denmark USA Switzerland France USA	96 B B 80 C 70 C 85 C 86 B 28 P 8 A 98 A 96 B 96 B 97 A 53 E 79 C 73 D 75 D 98 B 77 C P 8 A 7 C C 93 B B 7 C C 93 B B 7 C C 93 B 8 C 7 C 93 B 7 C 9	46,588* 269,734* 14,458* 230,511 55,383 415,040* 3 1,005,447* 329,556* 31,460 1,053,000* 637,838* 38,587* 1,217,736* 394,063* 694,600* 238,684 64,863 8,694* 7,460 4,540,000	39,307* 262,565* 18,420* 402,132 136,951 1,160,941* 55100 Not public 804,283* 853,700* 170,685 927,000* 1,013,238* 88,294* 1,155,762* 432,103* 685,707* Not public 168,509 Not public 297,992 104,200* 114,199 2,230,000	7 2 2 2 0 0 2 4 3 3 6 5 8 1 9 3 5 5 2 2 3 3 6 5 5 8 5 5 6 4 4

Company name	Country	2013 Score	Scope 1	Scope 2	Scope 3
Cummins	USA	91 B		Not public	
Danaher	USA	12		Not public	
Deere	USA	79 C	440,147*	1,053,446*	2
Deutsche Post	Germany	98 B	4,800,000*	570,000*	3
EADS	Netherlands	97 B	581,115*	432,092*	0
East Japan Railway	Japan	#		Not public	
Eaton	USA	100 A-	105,382*	637,346*	8
Emerson Electric	USA	AQ(L)			
Empresas COPEC	Chile	32		Not public	
FedEx Corporation	USA	80 B	14,602,697*	959,109	2
General Electric	USA	72 C	1,970,000	2,905,000	1
Hitachi	Japan	95 B	912,154*	3,313,114*	6
Honeywell International	USA	74 B	5,532,844*	1,756,275*	0
Illinois Tool Works	USA	79 C		Not public	
Komatsu	Japan	95 A	123,754*	354,601*	9
Larsen & Toubro	India	83 B	424,351*	248,130*	2
Lockheed Martin	USA	91 A	249,491*	985,006*	2
Mitsubishi	Japan	67 D		Not public	
Mitsui & Co	Japan	78 C		Not public	
MTR	Greater China	87 C	53,568*	1,171,764*	3
Norfolk Southern	USA	90 B	4,925,238*	252,854*	2
Raytheon	USA	98 A	101,715*	435,872*	3
Rolls-Royce	United Kingdom		213,089	337,064	3
Saint-Gobain	France	91 B	12,801,000*	4,550,000*	5
Sandvik AB	Sweden	64 C	12,001,000	Not public	
Schneider Electric	France	97 A	113,238*	345,123*	10
Siemens	Germany	96 A-	1,042,000*	1,385,000*	5
		65 D	1,042,000		
Sime Darby Berhad	Malaysia		44 505 500*	Not public	
Union Pacific	USA	98 B	11,595,509*	407,176*	
United Technologies Corporation	USA	87 B	801,694*	880,896*	1
UPS	USA	99 A-	11,715,635*	823,212*	4
Vinci	France	93 B	2,195,535*	193,548*	3
Volvo	Sweden	73 C		Not public	
Information Technology					
Accenture	Ireland	92 B	9,383	224,615	1
Adobe Systems	USA	97 A	2,744*	22,995*	4
Automatic Data Processing	USA	83 C	15,500	157,100	2
Canon	Japan	85 B	145,283	921,409	9
Cisco Systems	USA	100 A	65,832*	628,164*	8
Cognizant Technology Solutions	USA	64 C	46,934	137,460	2
Corning	USA	54 D	383,729*	1,129,330*	0
EMC	USA	97 A	45,886*	368,528*	6
Ericsson	Sweden	85 B	92,335*	263,003*	9
Google	USA	93 B	37,187*	1,149,988*	3
Hewlett-Packard	USA	99 A	246,000*	1,643,000*	7
Hon Hai Precision Industry (see Foxconn Intl Hldg - Asia ex JCK)	Greater China	SA (AQ)			
Infosys	India	92 A	28,015*	134,230*	4
Intel	USA	85 B	794,759*	2,331,048*	6
International Business Machines	USA	86 B	541,584*	2,208,459*	1
MasterCard	USA	43	3,026	37,825	0
Microsoft	USA	96 A	48,516*	1,207,419*	7
Mitsubishi Electric	Japan	60 D	322,000	791,000	3
Oracle	USA	79 C	16,481	440,773	3
Qualcomm					0
	USA	56 D 90 C	64,782 2,350*	49,216	2
salesforce.com	South Korea	90 C	2,350* 2,098,438*	29,429* 5,388,036*	5
Samsung					
SAP Taiwan Semiconductor	Germany Greater China	98 A 90 B	1,563,306*	43,004* 3,042,814*	6
Manufacturing					
Tata Consultancy Services	India	89 A	58,961*	300,555*	2
Texas Instruments	USA	64 D	827,274	1,588,466	0
Visa	USA	61 D	8,151	68,313	3
Yahoo Japan	Japan	15		Not public	
Yahoo!	USA	91 B	4,002*	333,291*	2
Materials					
Air Liquide	France	88 B	11,272,000*	10,853,000*	1
Air Products & Chemicals	USA	99 B	14,767,209*	10,563,030*	5
Anglo American	United Kingdom		8,470,754*	9,403,534*	11
Antofagasta	United Kingdom		645,371*	1,539,442*	3
Arcelor Mittal	Luxembourg	88 B	158,192,000*		1

BASE	Company name	Country	2013 Score	Scope 1	Scope 2	Scope 3
BHP Billition	Barrick Gold	Canada	87 B	3,784,180*	2,229,368*	0
Dow. Chemical USA	BASF	Germany	100 A-	20,208,000*	4,479,000*	7
E. du Pont de Nemours USA	BHP Billiton	United Kingdom	75 C	20,200,000*	20,000,000*	2
Freeport-MotNoRan Copper USA	Dow Chemical					
Freeport-McMoRan Copper USA						
Genoro International			98 A	336,258	199,296	3
Fresnillo	Freeport-Iνιαινίοκαη Copper & Gold	USA	86 C	5,679,367*	3,985,464*	4
Glencore International Switzerland 82 C Not public	Fresnillo	Mexico	68 D	236.184	346.134	2
Goldcorp	Glencore International	Switzerland	82 C			
Industrials Peñoles Mexico 46 674,687* 1,747,388* 0 1,747,38	Goldcorp	Canada	75 C	734,981*		2
Numba Iron Ore	Holcim	Switzerland	82 C	102,102,123	6,600,687	6
Lafarge S.A. France 96 B 97,354,270° 8,907,096° 0 LG Chemical South Korea 95 B 4,454,747° 1,865,116° 4 Linder Germany 93 A 6,100,000° 9,800,000° 7 Monsanto USA 70 D 1,610,000 59,800,000° 7 Normanto USA 92 B 1,610,1000 59,800,000° 4 Normanto Mining USA 92 B 1,610,1000 59,800,000° 4 Normanto Mining USA 92 B 1,610,100° 539,000 4 Normanto Mining USA 92 B 1,610,100° 539,000 4 Normanto Mining USA 92 B 1,610,100° 539,000 4 Normanto Mining USA 92 B 1,510,1000 539,000 4 Normanto Mining USA 92 B 1,610,100° 1,700,000 6 Normanto Mining USA 92 B 1,510,1000 1,700,000 0 POSAS 100,000 1,810,000 0 0 Normanto Mining USA 98 B 3,555,000° 1,1,229,000° 3 Normanto USA 98 B 5,555,000° 11,329,000° 3 Normanto USA 98 B 5,555,000° 11,329,000° 6 Normanto USA 98 B 5,555,000° 11,329,000° 6 Normanto USA 98 B 1,010,000 0 1,810,000° 6 Normanto United Kingdom 88 B 26,900,000° 16,400,000° 6 Normanto United Kingdom 91 B 733,000° 391,000° 2 Normanto USA 98 B 1,010,000° 1 Normanto United Kingdom 91 B 733,000° 391,000° 2 Normanto USA 98 B 1,010,000° 1 Normanto UNITED Normanto UNITED Normanto UNITED Normanto Services Normanto USA 98 B 1,0403,834° 1,469,167° 6 Normanto Services Normanto USA 98 B 1,0403,834° 1,469,167° 6 Normanto Services Normanto UNITED Normanto Greater China 2 Chunghwa Telecom Greater China 65 D 23,169 785,792 1 Deutsche Teleckom Germany 90 B 366,128° 3,291,322° 1 Prance Telecom France Sels 445,424° 1,024,182° 1 Normanto Normanto Services Normanto Services Normanto Services Normanto Normanto Services Normanto Service	Industrias Peñoles	Mexico	46	674,687*	1,747,388*	0
Linde Germany 93 A 4,454,747 1,865,116 4 Linde Germany 93 A 6,100,000 7 7	Kumba Iron Ore	South Africa	98 B	448,274*	516,315*	9
Linde	Lafarge S.A.	France	96 B	97,354,270*	8,907,096*	0
Monsanto	LG Chemical	South Korea	95 B	4,454,747*	1,865,116*	4
Newmont Mining	Linde		93 A-	6,100,000*	9,800,000*	
Not public Not	Monsanto					
POSCO South Korea 97 B 73,526,000* 3,471,000* 4 Potash Corporation of Saskatchewan				4,016,150*		2
Potash Corporation of Saskatchewan						
Saskatchewan Calletida 71 O 7,049,000 1,700,000 0 PPRI Industries USA 60 D J 4,053,000 1,810,000 0 Praxair USA 98 B 5,355,000 11,329,000 3 Rio Tinto United Kingdom 88 B 26,900,000 16,400,000 6 Shin Etsu Chemical Japan 61 C 1,525,214 2,950,932 9 Syngenta International Switzerland 91 B 733,000 391,000 2 Teck Canada 89 B 2,889,517 293,514* 1 Vale Brazil 98 B 16,403,834* 1,469,167* 6 Xstrata Switzerland 82 C Not public Telecommunication Services Telecommunication Services Attat BT United Kingdom 93 A 200,876* 192,644* 10 BT United Kingdom 93 A 200,876* 192,644* 10 CenturyLink USA 66 D 27,162 785,792 1 China Unicom Greater China 2 20,216 785,792		South Korea	97 B	73,526,000*	3,471,000*	4
Praxair	Saskatchewan					
Rio Tinto				· ·		
Shin Etsu Chemical Japan						
Syngenta International Switzerland 91 B 733,000* 391,000* 2				-,,		
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Not public Telecommunication Services				16.403.834*		6
Telecommunication Services	Xstrata			,,		
AT&T USA 96 B 948,441* 7,894,626* 1 BCE Canada 91 B 99,151* 186,890* 1 BT United Kingdom 93 A 200,876* 192,644* 10 CenturyLink USA 66 D 279,523 2,079,912 2 Chunghwa Telecom Greater China 2 Chunghwa Telecom Greater China 65 D 23,169 785,792 1 Deutsche Telekom Germany 90 B 356,128* 3,291,232* 1 France Telecom France 85 B 445,424* 1,024,182* 1 KDDI Japan 72 C 2,947 1,032,629 4 MTN South Africa 76 D 652,790 384,725 1 Nippon Telegraph & Telephone (NTT) NITD DOCOMO Japan 75 B 87,648* 1,364,600* 3 Singapore Telecom Singapore 76 C 6,897* 177,321* 3 Swisscom Switzerland 97 A 25,459* 46,766* 7 Telefonica Spain 95 B 111,124* 1,649,137* 6 Telefonica Brasil (see Brazil SA 11,1124* 1,649,137* 6 Telefonica Sweden 83 B 35,331* 268,482* 3 Telstra Corporation Australia 83 B 53,587* 1,374,617* 3 Verizon Communications USA 84 B 512,899 5,334,874 1 Vodacom South Africa 94 B 45,851* 401,703* 5 Vodacom United Kingdom 85 B 404,885* 2,178,178* 2 Utilities American Electric Power USA 67 C 123,430,000 0 EON AG Germany 83 B 126,871,536* 4,363,825* 5 Electricite de France (EDF) France 95 B 80,283,556* 74,004* 9 Endesa Spain 99 B 127,801,281* 1,171,290* 2 Electric Deuer Brance 95 B 121,742,200* 7,189,301* 0 ENGLE Ploldings Greater China 94 B 127,801,281* 1,171,172* 5 ENEL Italy 87 B 127,801,281* 1,171,290* 2 EDWer Assets Holdings Greater China 98 B 35,461,002* 7,189,301* 0 EON Mational Grid United Kingdom 98 B 7,913,978* 4,547,900* 2 EOWer Assets Holdings Greater China 98 B 35,461,002* 7,189,301* 0 EOWer Assets Holdings Greater China 98 B 35,461,000* 1,940,000* 2	Telecommunication Servi					
BCE			96 B	948.441*	7.894.626*	1
CenturyLink USA 66 D 2 79,523 2,079,912 2 China Unicom Greater China 2 Chunghwa Telecom Greater China 2 Deutsche Telekom Germany 90 B 356,128* 3,291,232* 1 France Telecom France 85 B 445,424* 1,022,4182* 1 KDDI Japan 72 C 2,947 1,032,629 4 MTN South Africa 76 D 652,790 384,725 1 NIPpon Telegraph & Telephone (NTT) Japan 75 B 87,648* 1,364,600* 3 Singapore Telecom Singapore 76 C 6,897* 177,321* 3 Singapore Telecom Singapore 76 C 6,897* 177,321* 3 Swisscom Switzerland 97 A 25,459* 46,766* 7 Telefonica Spain 95 B 111,124* 1,649,137* 6 Telefonica Brasil (see Brazil SA A22,073* 787,079*	BCE					
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China Unicom Greater China 2 Chunghwa Telecom Greater China 65 D 23,169 785,792 1 Deutsche Telekom Germany 90 B 356,128* 3,291,232* 1 France 85 B 445,424* 1,024,182* 1 KDDI Japan 72 C 2,947 1,032,629 4 MTN South Africa 76 D 652,790 384,725 1 Nippon Telegraph & Telephone (NTT) Japan 75 B 260,000* 3,531,000* 8 Picephone (NTT) Japan 75 B 87,648* 1,364,600* 3 Singapore Telecom Singapore 76 C 6,897* 177,321* 3 Swisscom Switzerland 97 A 25,459* 46,766* 7 Telefonica Spain 95 B 111,124* 1,649,137* 6 Telefonica Brasil (see Brazil SA 111,124* 1,649,137* 6 Telefonica Norway 95 A 342,073*	CenturyLink		_	279,523		2
Deutsche Telekom Germany 90 B 356,128* 3,291,232* 1	China Unicom	Greater China	2			
France Telecom France 85 B 445,424* 1,024,182* 1 KDDI Japan 72 C 2,947 1,032,629 4 MTN South Africa 76 D 652,790 384,725 1 Nippon Telegraph & Telephone (NTT) NTT DOCOMO Japan 75 B 87,648* 1,364,600* 3 Singapore Telecom Singapore 76 C 6,897* 177,321* 3 Swisscom Switzerland 97 A 25,459* 46,766* 7 Telefonica Spain 95 B 111,124* 1,649,137* 6 Telefonica Brasil (see Telefonica Spain 95 B 111,124* 1,649,137* 6 Telefonica Brasil (see Telefonica Spain 95 B 111,124* 1,649,137* 6 Telefonica Communications USA 84 B 512,899 5,334,874* 1 Vodacom South Africa 94 B 45,851* 401,703* 5 Vodafone United Kingdom 85 B 404,885* 2,178,178* 2 Utilities American Electric Power USA 68 D 121,927,400 0 0 Centrica United Kingdom 97 B 7,230,344* 166,476* 6 CLP Holdings Greater China 94 B 38,245,000* 219,000 2 Duke Energy USA 67 C 123,430,000 0 E.ON AG Germany 83 B 126,871,536* 4,363,825* 5 Electricite de France (EDF) France 95 B 80,283,556* 74,004* 9 Endesa Spain 98 B 54,676,230* 1,317,120* 5 ENEL Italy 87 B 127,801,261* 1,140,337* 1 Excelon USA 98 A 26,038,890* 5,691,542* 4 Gas Natural Spain 99 B 35,461,092* 7,189,301* 0 Korea Electric Power Corporation Power Powe	Chunghwa Telecom	Greater China	65 D	23,169	785,792	1
KDDI Japan 72 C 2,947 1,032,629 4 MTN South Africa 76 D 652,790 384,725 1 Nippon Telegraph & Telephone (NTT) Japan 95 B 260,000* 3,531,000* 8 NITT DOCOMO Japan 75 B 87,648* 1,364,600* 3 Singapore Telecom Singapore 76 C 6,897* 177,321* 3 Swisscom Switzerland 97 A 25,459* 46,766* 7 Telefonica Spain 95 B 111,124* 1,649,137* 6 Telefonica Brasil (see Telefonica) Brazil SA 46,766* 7 Telefonica Brasil (see Telefonica) Brazil SA 46,00* 3 Telefonica Brasil (see Telefonica) Brazil SA 46,00* 46,00* 2 Telefonica Brasil (see Telefonica) Brazil SA 46,00* 3 3 268,482* 3 7 161640,137* 4 1 4 4 4 4	Deutsche Telekom	Germany	90 B	356,128*	3,291,232*	1
MTN South Africa 76 D 652,790 384,725 1 Nippon Telegraph & Telephone (NTT) Japan 95 B 260,000* 3,531,000* 8 NTT DOCOMO Japan 75 B 87,648* 1,364,600* 3 Singapore Telecom Singapore 76 C 6,897* 177,321* 3 Swisscom Switzerland 97 A 25,459* 46,766* 7 Telefonica Spain 95 B 111,124* 1,649,137* 6 Telefonica Brasil (see Brazil SA (AQ) 787,079* 2 Telefonica Brasil (see Brazil SA 42,073* 787,079* 2 Telefonica Brasil (see Brazil SA 42,073* 787,079* 2 Telefonica Brazil SA 42,073* 787,079* 2 Telefonica Morway 95 A 342,073* 787,079* 2 Telestor Wordacom 95 B 35,331* 268,482* 3 Tel	France Telecom	France	85 B	445,424*	1,024,182*	1
Nippon Telegraph & Telephone (NTT) Japan 95 B 260,000* 3,531,000* 8 NTT DOCOMO Japan 75 B 87,648* 1,364,600* 3 Singapore Telecom Singapore 76 C 6,897* 177,321* 3 Swisscom Switzerland 97 A 25,459* 46,766* 7 Telefonica Spain 95 B 111,124* 1,649,137* 6 Telefonica Brasil (see Telefonica) Brazil SA (AQ) 7 787,079* 2 Telenor Norway 95 A 342,073* 787,079* 2 Telestra Corporation Australia 83 B 35,351* 268,482* 3 Telstra Corporation Australia 83 B 53,587* 1,374,617* 3 Verizon Communications USA 84 B 512,899 5,334,874 1 Vodacom South Africa 94 B 45,851* 401,703* 5 Vodafone United Kingdom 85 B 404,885* 2,178,178* <	KDDI	Japan	72 C	2,947	1,032,629	4
Telephone (NTT) NTT DOCOMO Japan 75 B 87,648* 1,364,600* 3 Singapore Telecom Singapore 76 C 6,897* 177,321* 3 Swisscom Switzerland 97 A 25,459* 46,766* 7 Telefonica Spain 95 B 111,124* 1,649,137* 6 Telefonica Brasil (see Telefonica) Telefonica Brasil (see Telefonica) Telenor Norway 95 A 342,073* 787,079* 2 TeliaSonera Sweden 83 B 35,331* 268,482* 3 Telstra Corporation Australia 83 B 53,587* 1,374,617* 3 Verizon Communications USA 84 B 512,899 5,334,874 1 Vodacom South Africa 94 B 45,851* 401,703* 5 Vodafone United Kingdom 85 B 404,885* 2,178,178* 2 Utilities American Electric Power USA 68 D 121,927,400 0 Centrica United Kingdom 97 B 7,230,344* 166,476* 6 CLP Holdings Greater China 94 B 38,245,000* 219,000 2 Duke Energy USA 67 C 123,430,000 0 E.ON AG Germany 83 B 126,871,536* 4,363,825* 5 Electricite de France (EDF) France 95 B 80,283,556* 74,004* 9 Endesa Spain 100 A 26,062,058* 956,889* 2 GDF Suez France Spain 99 B 35,461,092* 7,189,301* 0 Korea Electric Power South Korea 91 B 1,174,220* 132,861* 0 Korea Electric Power Nower Assets Holdings Greater China 96 B 8,960,000* 0 8 BWE Germany 93 B 181,690,000* 1,940,000* 2	MTN	South Africa	76 D	652,790	384,725	1
Singapore Telecom	Nippon Telegraph & Telephone (NTT)					
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Telefonica Spain 95 B 111,124* 1,649,137* 6						
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Telenor	Telefonica Brasil (see	· ·	SA	111,124*	1,649,137	ь
TeliaSonera Sweden 83 B 35,331* 268,482* 3 Telstra Corporation Australia 83 B 53,587* 1,374,617* 3 Verizon Communications USA 84 B 512,899 5,334,874 1 Vodacom South Africa 94 B 45,851* 401,703* 5 Vodafone United Kingdom 85 B 404,885* 2,178,178* 2 Utilities American Electric Power USA 68 D 121,927,400 0 0 Centrica United Kingdom 97 B 7,230,344* 166,476* 6 CLP Holdings Greater China 94 B 38,245,000* 219,000 2 Duke Energy USA 67 C 123,430,000 0 E.ON AG Germany 83 B 126,871,536* 4,363,825* 5 Electricite de France (EDF) France 95 B 80,283,556* 74,004* 9 Endesa Spain 98 B 54,676,230* 1,317,120* 5 ENEL Italy 87 B 127,801,261* 1,140,337* 1 Exelon USA 98 A 26,038,890* 5,691,542* 4 Gas Natural Spain 100 A 26,062,058* 956,889* 2 GDF Suez France 95 B 154,230,874* 3,712,790* 2 Iberdrola Spain 99 B 35,461,092* 7,189,301* 0 National Grid United Kingdom 98 B 7,913,978* 4,547,930* 6 Power Assets Holdings Greater China 96 B 8,960,000* 0 8 RWE Germany 93 B 181,690,000* 1,940,000* 2		Norway		342 073*	787 079*	2
Telstra Corporation Australia 83 B 53,587* 1,374,617* 3 Verizon Communications USA 84 B 512,899 5,334,874 1 Vodacom South Africa 94 B 45,851* 401,703* 5 Vodafone United Kingdom 85 B 404,885* 2,178,178* 2 Utilities American Electric Power USA 68 D 121,927,400 0 0 Centrica United Kingdom 97 B 7,230,344* 166,476* 6 CLP Holdings Greater China 94 B 38,245,000* 219,000 2 Duke Energy USA 67 C 123,430,000 2 Electricite de France (EDF) France 95 B 80,283,556* 74,000* 9 Electricite de France (EDF) France 95 B 80,283,556* 74,000* 9 Endesa Spain 98 B 54,676,230* 1,317,120* 5 ENEL Italy 87 B						
Verizon Communications USA 84 B 512,899 5,334,874 1 Vodacom South Africa 94 B 45,851* 401,703* 5 Vodafone United Kingdom 85 B 404,885* 2,178,178* 2 Utilities American Electric Power USA 68 D 121,927,400 0 0 Centrica United Kingdom 97 B 7,230,344* 166,476* 6 CLP Holdings Greater China 94 B 38,245,000* 219,000 2 Duke Energy USA 67 C 123,430,000 0 0 E.ON AG Germany 83 B 126,871,536* 4,363,825* 5 5 Electricite de France (EDF) France 95 B 80,283,556* 74,004* 9 Endesa Spain 98 B 54,676,230* 1,317,120* 5 ENEL Italy 87 B 127,801,261* 1,140,337* 1 Exelon USA 98 A						
Vodacom South Africa 94 B 45,851* 401,703* 5 Vodafone United Kingdom 85 B 404,885* 2,178,178* 2 Utilities American Electric Power USA 68 D 121,927,400 0 0 Centrica United Kingdom 97 B 7,230,344* 166,476* 6 CLP Holdings Greater China 94 B 38,245,000* 219,000 2 Duke Energy USA 67 C 123,430,000 0 0 E.ON AG Germany 83 B 126,871,536* 4,363,825* 5 Electricite de France (EDF) France 95 B 80,283,556* 74,004* 9 Endesa Spain 98 B 54,676,230* 1,317,120* 5 ENEL Italy 87 B 127,801,261* 1,140,337* 1 Exelon USA 98 A 26,038,890* 5,691,542* 4 Gas Natural Spain 100 A 26,062,058* 956,889* 2	Verizon Communications					
Vodafone United Kingdom 85 B 404,885* 2,178,178* 2 Utilities American Electric Power USA 68 D 121,927,400 0 0 Centrica United Kingdom 97 B 7,230,344* 166,476* 6 CLP Holdings Greater China 94 B 38,245,000* 219,000 2 Duke Energy USA 67 C 123,430,000 0 0 E.ON AG Germany 83 B 126,871,536* 4,363,825* 5 5 Electricite de France (EDF) France 95 B 80,283,556* 74,004* 9 Endesa Spain 98 B 54,676,230* 1,317,120* 5 ENEL Italy 87 B 127,801,261* 1,140,337* 1 Exelon USA 98 A 26,038,890* 5,691,542* 4 Gas Natural Spain 100 A 26,062,058* 956,889* 2 GDF Suez France 95 B 154,230,874* 3,712,790* 2 1 <td>Vodacom</td> <td></td> <td></td> <td></td> <td></td> <td></td>	Vodacom					
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CLP Holdings Greater China 94 B 38,245,000* 219,000 2 Duke Energy USA 67 C 123,430,000 0 E.ON AG Germany 83 B 126,871,536* 4,363,825* 5 Electricite de France (EDF) France 95 B 80,283,556* 74,004* 9 Endesa Spain 98 B 54,676,230* 1,317,120* 5 ENEL Italy 87 B 127,801,261* 1,140,337* 1 Exelon USA 98 A 26,038,890* 5,691,542* 4 Gas Natural Spain 100 A 26,062,058* 956,889* 2 GDF Suez France 95 B 154,230,874* 3,712,790* 2 Iberdrola Spain 99 B 35,461,092* 7,189,301* 0 Korea Electric Power Corporation South Korea 91 B 1,174,220* 132,861* 0 National Grid United Kingdom 98 B 7,913,978* 4,547,930* 6 Power Asset	American Electric Power	USA	68 D	121,927,400	0	0
Duke Energy USA 67 C 123,430,000 0 E.ON AG Germany 83 B 126,871,536* 4,363,825* 5 Electricite de France (EDF) France 95 B 80,283,556* 74,004* 9 Endesa Spain 98 B 54,676,230* 1,317,120* 5 ENEL Italy 87 B 127,801,261* 1,140,337* 1 Exelon USA 98 A 26,038,890* 5,691,542* 4 Gas Natural Spain 100 A 26,062,058* 956,889* 2 GDF Suez France 95 B 154,230,874* 3,712,790* 2 Iberdrola Spain 99 B 35,461,092* 7,189,301* 0 Korea Electric Power Corporation South Korea 91 B 1,174,220* 132,861* 0 National Grid United Kingdom 98 B 7,913,978* 4,547,930* 6 Power Assets Holdings Greater China 96 B 8,960,000* 0 8 RWE	Centrica	United Kingdom	97 B	7,230,344*	166,476*	6
E.ON AG Germany 83 B 126,871,536* 4,363,825* 5 Electricite de France (EDF) France 95 B 80,283,556* 74,004* 9 Endesa Spain 98 B 54,676,230* 1,317,120* 5 ENEL Italy 87 B 127,801,261* 1,140,337* 1 Exelon USA 98 A 26,038,890* 5,691,542* 4 Gas Natural Spain 100 A 26,062,058* 956,889* 2 GDF Suez France 95 B 154,230,874* 3,712,790* 2 Iberdrola Spain 99 B 35,461,092* 7,189,301* 0 Korea Electric Power Corporation South Korea 91 B 1,174,220* 132,861* 0 National Grid United Kingdom 98 B 7,913,978* 4,547,930* 6 Power Assets Holdings Greater China 96 B 8,960,000* 0 8 RWE Germany 93 B 181,690,000* 1,940,000* 2	CLP Holdings	Greater China	94 B	38,245,000*	219,000	2
Electricite de France (EDF) France 95 B 80,283,556* 74,004* 9 Endesa Spain 98 B 54,676,230* 1,317,120* 5 ENEL Italy 87 B 127,801,261*1,140,337* 1 Exelon USA 98 A 26,038,890* 5,691,542* 4 Gas Natural Spain 100 A 26,062,058* 956,889* 2 GDF Suez France 95 B 154,230,874*3,712,790* 2 Iberdrola Spain 99 B 35,461,092* 7,189,301* 0 Korea Electric Power Corporation South Korea 91 B 1,174,220* 132,861* 0 National Grid United Kingdom 98 B 7,913,978* 4,547,930* 6 Power Assets Holdings Greater China 96 B 8,960,000* 0 8 RWE Germany 93 B 181,690,000* 1,940,000* 2	Duke Energy					
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ENEL Italy 87 B 127,801,261*1,140,337* 1 Exelon USA 98 A 26,038,890* 5,691,542* 4 Gas Natural Spain 100 A 26,062,058* 956,889* 2 GDF Suez France 95 B 154,230,874*3,712,790* 2 Iberdrola Spain 99 B 35,461,092* 7,189,301* 0 Korea Electric Power Corporation South Korea 91 B 1,174,220* 132,861* 0 National Grid United Kingdom 98 B 7,913,978* 4,547,930* 6 Power Assets Holdings Greater China 96 B 8,960,000* 0 8 RWE Germany 93 B 181,690,000* 1,940,000* 2	Electricite de France (EDF)					
Exelon USA 98 A 26,038,890* 5,691,542* 4 Gas Natural Spain 100 A 26,062,058* 956,889* 2 GDF Suez France 95 B 154,230,874*3,712,790* 2 Iberdrola Spain 99 B 35,461,092* 7,189,301* 0 Korea Electric Power Corporation South Korea 91 B 1,174,220* 132,861* 0 National Grid United Kingdom 98 B 7,913,978* 4,547,930* 6 Power Assets Holdings Greater China 96 B 8,960,000* 0 8 RWE Germany 93 B 181,690,000* 1,940,000* 2	Endesa					
Gas Natural Spain 100 A 26,062,058* 956,889* 2 GDF Suez France 95 B 154,230,874* 3,712,790* 2 Iberdrola Spain 99 B 35,461,092* 7,189,301* 0 Korea Electric Power Corporation South Korea 91 B 1,174,220* 132,861* 0 National Grid United Kingdom 98 B 7,913,978* 4,547,930* 6 Power Assets Holdings Greater China 96 B 8,960,000* 0 8 RWE Germany 93 B 181,690,000* 1,940,000* 2						
GDF Suez France 95 B 154,230,874* 3,712,790* 2 Iberdrola Spain 99 B 35,461,092* 7,189,301* 0 Korea Electric Power Corporation South Korea 91 B 1,174,220* 132,861* 0 National Grid United Kingdom 98 B 7,913,978* 4,547,930* 6 Power Assets Holdings Greater China 96 B 8,960,000* 0 8 RWE Germany 93 B 181,690,000* 1,940,000* 2						
Iberdrola Spain 99 B 35,461,092* 7,189,301* 0 Korea Electric Power Corporation South Korea 91 B 1,174,220* 132,861* 0 National Grid United Kingdom 98 B 7,913,978* 4,547,930* 6 Power Assets Holdings Greater China 96 B 8,960,000* 0 8 RWE Germany 93 B 181,690,000* 1,940,000* 2						
Korea Electric Power Corporation South Korea 91 B 1,174,220* 132,861* 0 National Grid United Kingdom 98 B 7,913,978* 4,547,930* 6 Power Assets Holdings Greater China 96 B 8,960,000* 0 8 RWE Germany 93 B 181,690,000* 1,940,000* 2						
Corporation South Korea 91 B 1,174,220* 132,861* 0 National Grid United Kingdom 98 B 7,913,978* 4,547,930* 6 Power Assets Holdings Greater China 96 B 8,960,000* 0 8 RWE Germany 93 B 181,690,000* 1,940,000* 2			ลล น	JO,401,092*	1,109,301^	U
National Grid United Kingdom 98 B 7,913,978* 4,547,930* 6 Power Assets Holdings Greater China 96 B 8,960,000* 0 8 RWE Germany 93 B 181,690,000* 1,940,000* 2		South Korea	91 B	1,174,220*	132,861*	0
Power Assets Holdings Greater China 96 B 8,960,000* 0 8 RWE Germany 93 B 181,690,000* 1,940,000* 2	National Grid	United Kingdom	98 B	7,913,978*	4,547,930*	6
	Power Assets Holdings					8
SSE United Kingdom 90 B 24,560,110* 1,364,652* 1	RWE	Germany	93 B	181,690,000*	1,940,000*	2
	SSE	United Kingdom	90 B	24,560,110*	1,364,652*	1

Appendix III: Investor members

CDP works with investors globally to advance the investment opportunities and reduce the risks posed by climate change by asking over 5,000 of the world's largest companies to report their climate strategies, GHG emissions and energy use through CDP's

standardized format. To learn more about CDP's member offering and becoming a member, please contact us or visit the investor pages at https://www.cdp.net/en-US/WhatWeDo/Pages/investors.aspx

	des Fechadas de Previdência ementar
ATP G	oup
Aviva I	nvestors
Bank o	f America
Bendig	o and Adelaide Bank
BlackF	ock
Boston	Common Asset Management, LLC
	nia Public Employees' Retirement ı (CalPERS)
	nia State Teachers' Retirement ı (CalSTRS)
Calver	Group, Ltd.
Capric	orn Investment Group
Cathol	c Super
CCLA	nvestment Management Ltd
Daiwa	Asset Management Co. Ltd.
Genera	tion Investment Management
Goldm	an Sachs Group Inc.
Hende	son Global Investors
HSBC	Holdings plc
Legg N	lason, Inc.
KLP	
Londo	n Pensions Fund Authority
Mobim	o Holding AG

Mon	geral Aegon Seguros e Previdência S.A
Morg	gan Stanley
Natio	onal Australia Bank
Neuk	oerger Berman
New	ton Investment Management Limited
Nord	lea Bank
Norg (NBI	es Bank Investment Management M)
	hwest and Ethical Investments L.P. (NE stments)
PFA	Pension
Robe	eco
Robe	ecoSAM AG
Rock	refeller Asset Management
Roya	al Bank of Scotland Group
Sam	pension KP Livsforsikring A/S
Schr	oders
Scot	tish Widows Investment Partnership
Skar	dinaviska Enskilda Banken AB (SEB AB)
Som	po Japan Insurance Inc.
Stan	dard Chartered
Sun	Life Financial Inc
Sust	ainable Insights Capital Management
TD A	sset Management
The '	Wellcome Trust

2013 INVESTOR SIGNATORY BREAKDOWN - REGION

Africa (15)



America - Latin & Caribbean (71)



America - North (174)



Asia (71)



Australia and New Zealand (61)



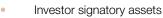
Europe - North & Western (294)

Europe - Southern & Eastern (39)

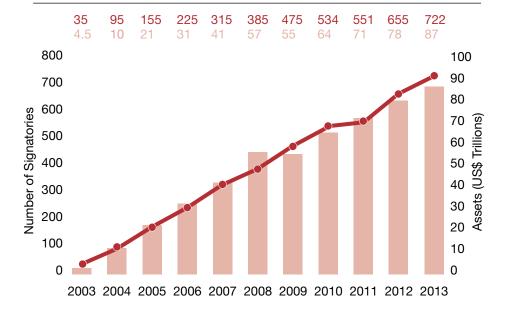


50 100 150 200 250 300

INCREASING NUMBER OF INVESTORS REQUESTING CLIMATE DATA THROUGH CDP



Number of investor signatories



2013 INVESTOR SIGNATORY BREAKDOWN - TYPE

247 Mainstream Asset Managers167 Pension funds

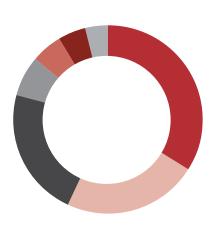
160 Banks

51 Insurance

39 SRI Asset Managers

34 Foundations

27 Other



Investor signatories

722 financial institutions with assets of US\$87 trillion were signatories to the CDP 2013 climate change information request dated February 1st 2013

3Sisters Sustainable Management LLC Aberdeen Asset Management Aberdeen Immobilien KAG mbH

ABRAPP - Associação Brasileira das Entidades Fechadas de Previdência Complementar Achmea NV

Active Earth Investment Management Acuity Investment Management

Addenda Capital Inc.

Advanced Investment Partners Advantage Asset Managers (Pty) Ltd

AEGON-INDUSTRIAL Fund Management Co., Ltd AFP Integra

AIG Asset Management

AK PORTFÖY YÖNETİMİ A.Ş. AKBANK T.A.Ş.

Alberta Investment Management Corporation (AIMCo)

Alberta Teachers Retirement Fund

Alcyone Finance

AllenbridgeEpic Investment Advisers

Alliance Trust

Allianz Elementar Versicherungs-AG

Allianz Global Investors AG

Allianz Group Altira Group Amalgamated Bank

Amlin

AMP Capital Investors AmpegaGerling Investment GmbH

Amundi AM

ANBIMA - Associação Brasileira das Entidades dos Mercados Financeiro e de Capitais

Antera Gestão de Recursos S.A.

APG Group AQEX LLC Aquila Capital

Arisaig Partners

Arkx Investment Management ARMA PORTFÖY YÖNFTIMI A S

Armstrong Asset Management

ASM Administradora de Recursos S.A. ASN Bank Assicurazioni Generali

ATI Asset Management Atlantic Asset Management

ATP Group

Auriel Capital Management

Australia and New Zealand Banking Group

Australian Ethical Investment

AustralianSuper Avaron Asset Management AS

Aviva

Aviva Investors AXA Group Baillie Gifford & Co.

BaltCap

Banco Bradesco S/A Banco Comercial Português SA

Banco de Credito del Peru BCP

Banco de Galicia y Buenos Aires S.A

Banco do Brasil Previdência Banco do Brasil S/A Banco Espírito Santo SA

Banco Nacional de Desenvolvimento Economico e Social (BNDES)

Banco Popular Espanol Banco Sabadell Banco Santander

Banesprev - Fundo Banespa de Seguridade Social

Banesto BANIF SA Bank Handlowy w Warszawie SA

Bank Leumi Le Israel

Bank of America Merrill Lynch Bank of Montreal

Bank of Nova Scotia (Scotiabank)

Bank Sarasin & Cie AG Bank Vontobel

Bankhaus Schelhammer & Schattera Kapitalanlagegesellschaft m.b.H.

Bankia Bankinter

BankInvest

bankmecu

Banque Degroof Banque Libano-Francaise

Barclays

Basellandschaftliche Kantonalbank

BASF Sociedade de Previdência Complementar

Basler Kantonalbank

Bâtirente

Baumann and Partners S.A.

Bayern LB

BayernInvest Kapitalanlagegesellschaft mbH

BBC Pension Trust Ltd

Bedfordshire Pension Fund

Beetle Capital

Befimmo SA Bendigo and Adelaide Bank

Bentall Kennedy

Berenberg Bank Berti Investments

BioFinance Administração de Recursos de Terceiros Ltda

BlackRock Blom Bank SAL

Blumenthal Foundation

BNP Paribas Investment Partners

RNY Mellon

BNY Mellon Service Kapitalanlage-Gesellschaft

Boston Common Asset Management, LLC

Brasilprev Seguros e Previdência S/A.

Breckinridge Capital Advisors British Airways Pensions

British Coal Staff Superannuation Scheme

British Columbia Investment Management Corporation (bcIMC)

Brown Advisory BT Financial Group

BT Investment Management

Busan Bank

CAAT Pension Plan

Cadiz Holdings Limited

CAI Corporate Assets International AG

Caisse de dépôt et placement du Québec

Caisse des Dépôts

Caixa de Previdência dos Funcionários do Banco do Nordeste do Brasil (CAPEF)

Caixa Econômica Federal

Caixa Geral de Depósitos

CaixaBank

California Public Employees' Retirement System (CalPERS)

California State Teachers' Retirement System (CalSTRS)

California State Treasurer

Calvert Investment Management, Inc

Canada Pension Plan Investment Board (CPPIB) Canadian Imperial Bank of Commerce (CIBC)

Canadian Labour Congress Staff Pension Fund CAPESESP

Capital Innovations, LLC

Capricorn Investment Group

CARE Super Carmignac Gestion

Caser Pensiones E.G.F.P Cathay Financial Holding Catherine Donnelly Foundation

Catholic Super CBF Church of England Funds

CBRE Group, Inc.

Chus Superannuation Fund

CCLA Investment Management Ltd

Celeste Funds Management

Central Finance Board of the Methodist Church

CERES-Fundação de Seguridade Social

Change Investment Management

Chinatrust Financial Holding Co Limited Christian Brothers Investment Services Inc

Christian Super

Christopher Reynolds Foundation

Church Commissioners for England Church of England Pensions Board

CI Mutual Funds' Signature Global Advisors

City Developments Limited

ClearBridge Investments

Climate Change Capital Group Ltd

CM-CIC Asset Management Colonial First State Global Asset Management

Comerica Incorporated

Comgest

Commerzbank AG

CommInsure

Commonwealth Bank of Australia

Commonwealth Superannuation Corporation

Compton Foundation, Inc.

Concordia Versicherungs-Gesellschaft a.G.

Connecticut Retirement Plans and Trust Funds

Conser Invest

Co-operative Asset Management Co-operative Financial Services (CFS)

Daegu Bank

Daesung Capital Management

Daiwa Asset Management Co. Ltd. Daiwa Securities Group Inc.

Dalton Nicol Reid

Danske Bank A/S

de Pury Pictet Turrettini & Cie S.A. DekaBank Deutsche Girozentrale

Delta Lloyd Asset Management

Desjardins Financial Security

Deutsche Asset Management Investmentgesellschaft mbH

Deutsche Bank AG Deutsche Postbank AG

Development Bank of Japan Inc.

Development Bank of the Philippines (DBP)

Dexia Asset Management

Dexus Property Group DLM INVISTA ASSET MANAGEMENT S/A

DNB ASA Domini Social Investments LLC

Dongbu Insurance

Doughty Hanson & Co. DWS Investments

DZ Bank

Earth Capital Partners LLP

East Sussex Pension Fund Ecclesiastical Investment Management

Ecofi Investissements - Groupe Credit Cooperatif

Edward W. Hazen Foundation EEA Group Ltd

Eko

Elan Capital Partners

Element Investment Managers

ELETRA - Fundação Celg de Seguros e Previdência

Environment Agency Active Pension fund

Epworth Investment Management Equilibrium Capital Group

equinet Bank AG

Erik Penser Fondkommission Erste Asset Management

Erste Group Bank AG

Essex Investment Management Company, LLC **ESSSuper** Ethos Foundation

Etica SGR Eureka Funds Management

Eurizon Capital SGR S.p.A.

Evangelical Lutheran Church in Canada Pension Plan for Clergy and Lay Workers

Evangelical Lutheran Foundation of Eastern Canada

Evli Bank Plc

F&C Asset Management

FACEB - Fundação de Previdência dos Empregados da CEB

FAELCE - Fundacao Coelce de Seguridade Social

Investor signatories continued

FAPERS- Fundação Assistencial e Previdenciária da Extensão Rural do Rio Grande do Sul FASERN - Fundação COSERN de Previdência Complementar Fédéris Gestion d'Actifs FIDURA Capital Consult GmbH FIM Asset Management Ltd FIM Services Financiere de l'Echiquier FIPECq - Fundação de Previdência Complementar dos Empregados e Servidores da FINEP, do IPEA, do CNPq FIRA. - Banco de Mexico First Affirmative Financial Network, LLC First Commercial Bank First State Investments First State Superannuation Scheme First Swedish National Pension Fund (AP1) Firstrand Limited Five Oceans Asset Management Florida State Board of Administration (SBA) Folketrygdfondet Folksam Fondaction CSN Fondation de Luxembourg Forma Futura Invest AG Fourth Swedish National Pension Fund, (AP4) FRANKFURT-TRUST Investment Gesellschaft mbH Friends Fiduciary Corporation Fubon Financial Holdings Fukoku Capital Management Inc FUNCEF - Fundação dos Economiários Federais Fundação AMPLA de Seguridade Social -Fundação Atlântico de Seguridade Social Fundação Attilio Francisco Xavier Fontana Fundação Banrisul de Seguridade Social Fundação BRDE de Previdência Complementar - ISBRE Fundação Chesf de Assistência e Seguridade Social – Fachesf Fundação Corsan - dos Funcionários da Companhia Riograndense de Saneamento Fundação de Assistência e Previdência Social do BNDES - FAPES FUNDAÇÃO ELETROBRÁS DE SEGURIDADE SOCIAL - ELETROS Fundação Forluminas de Seguridade Social - FORLUZ Fundação Itaipu BR - de Previdência e Assistência FUNDAÇÃO ITAUBANÇO Fundação Itaúsa Industrial Fundação Promon de Previdência Social Fundação Rede Ferroviaria de Seguridade Social - Refer FUNDAÇÃO SANEPAR DE PREVIDÊNCIA E ASSISTÊNCIA SOCIAL - FUSAN Fundação Sistel de Seguridade Social (Sistel) Fundação Vale do Rio Doce de Seguridade Social - VALIA FUNDIÁGUA - FUNDAÇÃO DE PREVIDENCIA COMPLEMENTAR DA CAESB Futuregrowth Asset Management GEAP Fundação de Seguridade Social General Equity Group AG Generali Deutschland Holding AG Generation Investment Management Genus Capital Management German Equity Trust AG Gjensidige Forsikring ASA Global Forestry Capital S.a.r.l. GLS Gemeinschaftsbank eG Goldman Sachs Group Inc. GOOD GROWTH INSTITUT für globale Vermögensentwicklung mbH Governance for Owners Government Employees Pension Fund ("GEPF"), Republic of South Africa **GPT Group**

Greater Manchester Pension Fund

Green Century Capital Management

Groupe Investissement Responsable Inc.

Grupo Financiero Banorte SAB de CV

Gruppo Bancario Credito Valtellinese

Guardians of New Zealand Superannuation

Green Cay Asset Management

GROUPAMA EMEKLİLİK A.Ş GROUPAMA SİGORTA A.S.

Groupe Crédit Coopératif

Grupo Santander Brasil

Gruppo Monte Paschi

GROUPE OFI AM

Hang Seng Bank Hanwha Asset Management Company Harbour Asset Management Harrington Investments, Inc Hauck & Aufhäuser Asset Management GmbH Hazel Capital LLP HDFC Bank Ltd Healthcare of Ontario Pension Plan (HOOPP) Helaba Invest Kapitalanlagegesellschaft mbH Henderson Global Investors Hermes Fund Managers **HESTA Super** HIP Investor Holden & Partners HSBC Global Asset Management (Deutschland) GmbH HSBC Holdings plc HSBC INKA Internationale Kapitalanlagegesellschaft mbH Hyundai Marine & Fire Insurance Co., Ltd. Hyundai Securities Co., Ltd. **IBK Securities** IDBI Bank Ltd Illinois State Board of Investment Ilmarinen Mutual Pension Insurance Company Impax Group plc Independent Planning Group Indusind Bank Industrial Alliance Insurance and Financial Services Industrial Bank Industrial Bank of Korea Industrial Development Corporation Industry Funds Management Inflection Point Partners ING Group Insight Investment Management (Global) Ltd Instituto Infraero de Seguridade Social -Instituto Sebrae De Seguridade Social - SEBRAEPREV Insurance Australia Group IntReal KAG Investec Asset Management Investing for Good Irish Life Investment Managers Itaú Asset Management Itaú Unibanco Holding S.A. Janus Capital Group Inc. Jarislowsky Fraser Limited Jessie Smith Noyes Foundation JOHNSON & JOHNSON SOCIEDADE PREVIDENCIARIA JPMorgan Chase & Co. Jubitz Family Foundation Jupiter Asset Management Kaiser Ritter Partner Privatbank AG (Schweiz) KB Kookmin Bank KBC Asset Management NV KBC Group KCPS and Company KDB Asset Management Co., Ltd. KDB Daewoo Securities Co. Ltd. KEPLER-FONDS Kapitalanlagegesellschaft m. b. H. **KEVA** KeyCorp KfW Bankengruppe Killik & Co LLP Kiwi Income Property Trust Kleinwort Benson Investors KlimalNVEST KLP Insurance Korea Investment Management Korea Technology Finance Corporation La Banque Postale Asset Management La Financiere Responsable Lampe Asset Management GmbH Landsorganisationen i Sverige LaSalle Investment Management LBBW - Landesbank Baden-Württemberg LBBW Asset Management Investmentgesellschaft

LD Lønmodtagernes Dyrtidsfond

LGT Capital Management Ltd.

LIG Insurance Co., Ltd.

Light Green Advisors, LLC

Legg Mason, Inc.

Legal & General Investment Management

Living Planet Fund Management Company S.A. Lloyds Banking Group Local Authority Pension Fund Forum Local Government Super LOGOS PORTFÖY YÖNETIMI A.Ş. London Pensions Fund Authority Lothian Pension Fund LUCRF Super Macquarie Group MagNet Magyar Közösségi Bank Zrt. MainFirst Bank AG Malakoff Médéric MAMA Sustainable Incubation AG Man Group plc Mandarine Gestion MAPFRE Maple-Brown Abbott Marc J. Lane Investment Management, Inc Maryland State Treasurer Matrix Asset Management Matrix Group McLean Budder MEAG MUNICH ERGO Asset Management GmbH Mediobanca Meeschaert Gestion Privée Meiji Yasuda Life Insurance Company Mendesprev Sociedade Previdenciária Merck Family Fund Mercy Investment Services, Inc. Mergence Investment Managers MetallRente GmbH Metrus - Instituto de Seguridade Social Metzler Investment Gmbh MFS Investment Management Midas International Asset Management Miller/Howard Investments Mirae Asset Global Investments Co. Ltd. Mirae Asset Securities Missionary Oblates of Mary Immaculate Mistra, Foundation for Strategic Environmental Research Mitsubishi UFJ Financial Group, Inc. Mitsui Sumitomo Insurance Co..Ltd Mizuho Financial Group, Inc. Momentum Manager of Managers (Pty) Ltd Monega Kapitalanlagegesellschaft mbH Mongeral Aegon Seguros e Previdência S.A. Morgan Stanley Mountain Cleantech AG MTAA Superannuation Fund Mutual Insurance Company Pension-Fennia Nanuk Asset Management Natcan Investment Management Nathan Cummings Foundation, The National Australia Bank National Bank of Canada National Bank Of Greece National Grid Electricity Group of the Electricity Supply Pension Scheme National Grid UK Pension Scheme National Pensions Reserve Fund of Ireland National Union of Public and General Employees (NUPGE) Nativus Sustainable Investments Natixis SA Natural Investments LLC Nedbank Limited Needmor Fund Nelson Capital Management, LLC Nest Sammelstiftung Neuberger Berman New Alternatives Fund Inc. New Amsterdam Partners LLC New Forests New Mexico State Treasurer New York City Employees Retirement System New York City Teachers Retirement System New York State Common Retirement Fund (NYSCRF) Newton Investment Management Limited NGS Super NH-CA Asset Management Nikko Asset Management Co., Ltd. Nipponkoa Insurance Company, Ltd Nissay Asset Management Corporation NORD/LB Kapitalanlagegesellschaft AG Nordea Bank

Norfolk Pension Fund

Norges Bank Investment Management (NBIM) North Carolina Retirement System Northern Ireland Local Government Officers' Superannuation Committee (NILGOSC) Northern Star Group Northern Trust Northward Capital Northwest and Ethical Investments L.P. (NEI Investments) Nykredit OceanRock Investments Inc. Oddo & Cie oeco capital Lebensversicherung AG ÖKOWORLD Old Mutual plc OMERS Administration Corporation Ontario Pension Board Ontario Teachers' Pension Plan OP Fund Management Company Ltd Oppenheim & Co Limited Oppenheim Fonds Trust GmbH Opplysningsvesenets fond (The Norwegian Church Endowment) OPSEU Pension Trust (OP Trust) Oregon State Treasurer Orion Energy Systems Osmosis Investment Management Panahpur Park Foundation Parnassus Investments Pax World Funds Pensioenfonds Vervoer Pension Denmark Pension Fund for Danish Lawyers and Economists Pension Protection Fund Pensionsmyndigheten Perpetual Investments PETROS - Fundação Petrobras de Seguridade Social PFA Pension **PGGM** Phillips, Hager & North Investment Management Ltd. PhiTrust Active Investors Pictet Asset Management SA Pinstripe Management GmbH Pioneer Investments Piraeus Bank PKA Pluris Sustainable Investments SA PNC Financial Services Group, Inc. Pohjola Asset Management Ltd Polden Puckham Charitable Foundation Portfolio 21 Investments Porto Seguro S.A. POSTALIS - Instituto de Seguridade Social dos Correios e Telégrafos Power Finance Corporation PREVHAB PREVIDÊNCIA COMPLEMENTAR PREVI Caixa de Previdência dos Funcionários do Banco do Brasil PREVIG Sociedade de Previdência Complementar Provinzial Rheinland Holding Prudential Investment Manager Prudential PLC Psagot Investment House Ltd PSP Investments Q Capital Partners Co. Ltd QBE Insurance Group Rabobank Raiffeisen Fund Management Hungary Ltd. Raiffeisen Kapitalanlage-Gesellschaft m.b.H. Raiffeisen Schweiz Rathbone Greenbank Investments RCM (Allianz Global Investors) Real Grandeza Fundação de Previdência e Assistência Socia **REI Super** Reliance Capital Ltd Representative Body of the Church in Wales Resolution Resona Bank, Limited Revnders McVeigh Capital Management River Twice Capital Advisors, LLC RLAM Robeco RobecoSAM AG Robert & Patricia Switzer Foundation

Rockefeller Asset Management

Rose Foundation for Communities and the Environment Rothschild Royal Bank of Canada Royal Bank of Scotland Group RPMI Railpen Investments RREEF Investment GmbH Russell Investments Sampension KP Livsforsikring A/S Samsung Fire & Marine Insurance Samsung Life Insurance Samsung Securities Santa Fé Portfolios Ltda Santam Ltd Sarasin & Partners SAS Trustee Corporation Sauren Finanzdienstleistungen GmbH & Co. KG Schroders Scottish Widows Investment Partnership SEB Asset Management AG Second Swedish National Pension Fund (AP2) Seligson & Co Fund Management Plc Sentinel Funds SERPROS - Fundo Multipatrocinado Service Employees International Union Benefit Funds Servite Friars Seventh Swedish National Pension Fund (AP7) Shiga Bank, Ltd. Shinhan Bank Shinhan BNP Paribas Investment Trust Management Co., Ltd Shinkin Asset Management Co., Ltd Siemens Kapitalanlagegesellschaft mbH Signet Capital Management Ltd Skandia Skandinaviska Enskilda Banken AB (SEB AB) Smith Pierce, LLC SNS Asset Management Social(k) Sociedade de Previdencia Complementar da Dataprev - Prevdata Socrates Fund Management Solaris Investment Management Sompo Japan Insurance Inc. Sonen Capital LLC Sopher Investment Management Soprise! LLP SouthPeak Investment Management SPF Beheer by Spring Water Asset Management, LLC Sprucegrove Investment Management Ltd Standard Chartered Standard Chartered Korea Limited Standard Life Investm State Bank of India State Street Corporation StatewideSuper Stockland Storebrand ASA Strathclyde Pension Fund Stratus Group Sumitomo Mitsui Financial Group Sumitomo Mitsui Trust Holdinas, Inc. Sun Life Financial Inc. Superfund Asset Management GmbH SUSI Partners AG Sustainable Capital Sustainable Development Capital LLP Sustainable Insight Capital Management Svenska Kyrkan, Church of Sweden Svenska Kyrkans Pensionskassa Swedbank Swift Foundation Swiss Re Swisscanto Holding AG Sycomore Asset Management Syntrus Achmea Asset Management T. Rowe Price T.GARANTİ BANKASI A.S. T.SINAİ KALKINMA BANKASI A.Ş. Tata Capital Limited TD Asset Management Teachers Insurance and Annuity Association – College Retirement Equities Fund

Telluride Association

Terra Forvaltning AS

Tempis Capital Management Co., Ltd

TerraVerde Capital Management LLC

TfL Pension Fund The ASB Community Trust The Brainerd Foundation The Bullitt Foundation The Central Church Fund of Finland The Children's Investment Fund Foundation The Clean Yield Group The Collins Foundation The Co-operators Group Limited The Daly Foundation The Environmental Investment Partnership LLP The Hartford Financial Services Group, Inc. The Joseph Rowntree Charitable Trust The Korea Teachers Pension The New School The Oppenheimer Group The Pension Plan For Employees of the Public Service Alliance of Canada The Pinch Group The Presbyterian Church in Canada The Russell Family Foundation The Sandy River Charitable Foundation The Sisters of St. Ann The Standard Bank Group The Sustainability Group The United Church of Canada - General Council The University of Edinburgh Endowment Fund The Wellcome Trust Third Swedish National Pension Fund (AP3) Threadneedle Asset Management Tobam Tokio Marine & Nichido Fire Insurance Co., Ltd. Toronto Atmospheric Fund Trillium Asset Management, LLC Triodos Bank Tri-State Coalition for Responsible Investment Tryg Turner Investments UBS Unibail-Rodamco UniCredit Union Asset Management Holding AG Union di Banche Italiane S.c.p.a Union Investment Privatfonds GmbH Unionen Unipension UNISON staff pension scheme UniSuper Unitarian Universalist Association United Methodist Church General Board of Pension and Health Benefits United Nations Foundation Unity Trust Bank Universities Superannuation Scheme (USS) Vancity Group of Companies VCH Vermögensverwaltung AG Ventas Inc Veris Wealth Partners Veritas Investment Trust GmbH Vermont State Treasurer Vexiom Capital, L.P. VicSuper Victorian Funds Management Corporation VIETNAM HOLDING ASSET MANAGEMENT LTD. Vinva Investment Management Voigt & Collegen VOLKSBANK INVESTMENTS Waikato Community Trust Walden Asset Management, a division of Boston Trust & Investment Management Company WARBURG - HENDERSON Kapitalanlagegesellschaft für Immobilien mbH WARBURG INVEST KAPITALANLAGEGESELLSCHAFT MBH Water Asset Management, LLC Wells Fargo & Company West Yorkshire Pension Fund WestLB Mellon Asset Management (WMAM) Westpac Banking Corporation WHEB Asset Management White Owl Capital AG Woori Bank Woori Investment & Securities YES BANK Limited York University Pension Fund Youville Provident Fund Inc. Zegora Investment Management Zevin Asset Management Zurich Cantonal Bank Zurich Cantonal Bank

Appendix IV: 50 companies used in 2009 to 2013 analysis.[†]

AUSTRALIA



Energy

Woodside Petroleum

BRAZIL



Energy

Petróleo Brasileiro SA - Petrobras

Materials

Vale

CANADA



Energy

Husky Energy Imperial Oil Suncor Energy

Materials

Potash Corporation of Saskatchewan

FRANCE



Energy

Total

Industrials

Saint-Gobain

Materials

Air Liquide

Utilities

Electricite de France (EDF)

GDF Suez

GERMANY



Consumer Discretionary

Volkswagen

Materials

BASF Linde

Utilities

E.ON

RWE

ITALY



Utilities

ENEL

JAPAN



Materials

Nippon Steel & Sumitomo

Metal

LUXEMBOURG



Materials

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Energy

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Energy

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Energy

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S. KOREA



Materials

POSCO

SPAIN



Energy Repsol

Utilities

Gas Natural SDG

SWITZERLAND



Materials

Holcim Xstrata

UK



Consumer Discretionary

Carnival

Energy

BP

Materials

Anglo American BHP Billiton

Rio Tinto **Utilities**

National Grid

USA



Consumer Staples

Wal-Mart

Energy

Apache

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