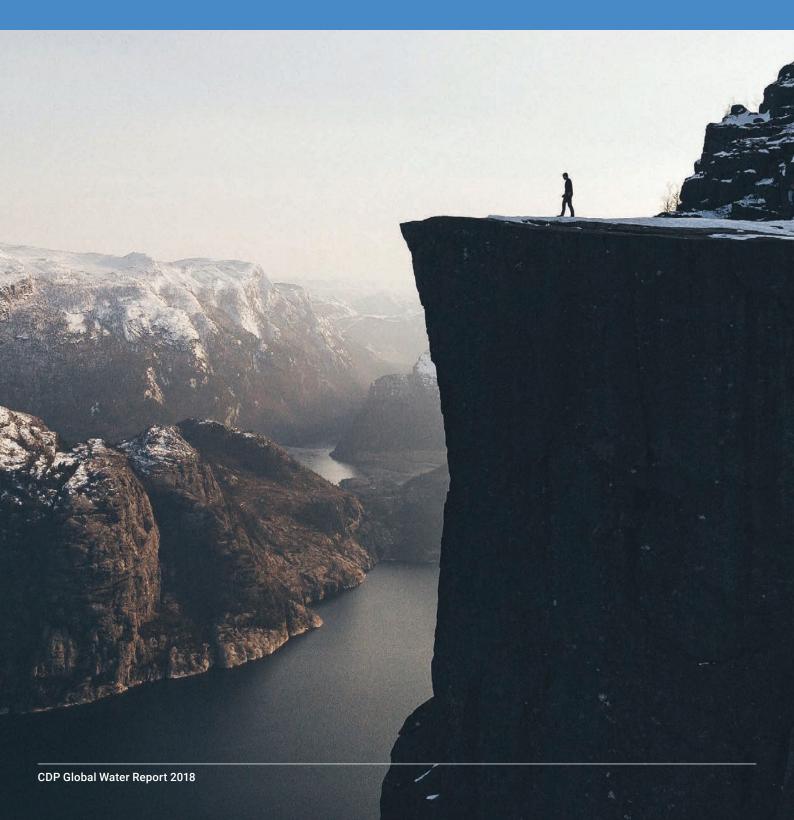
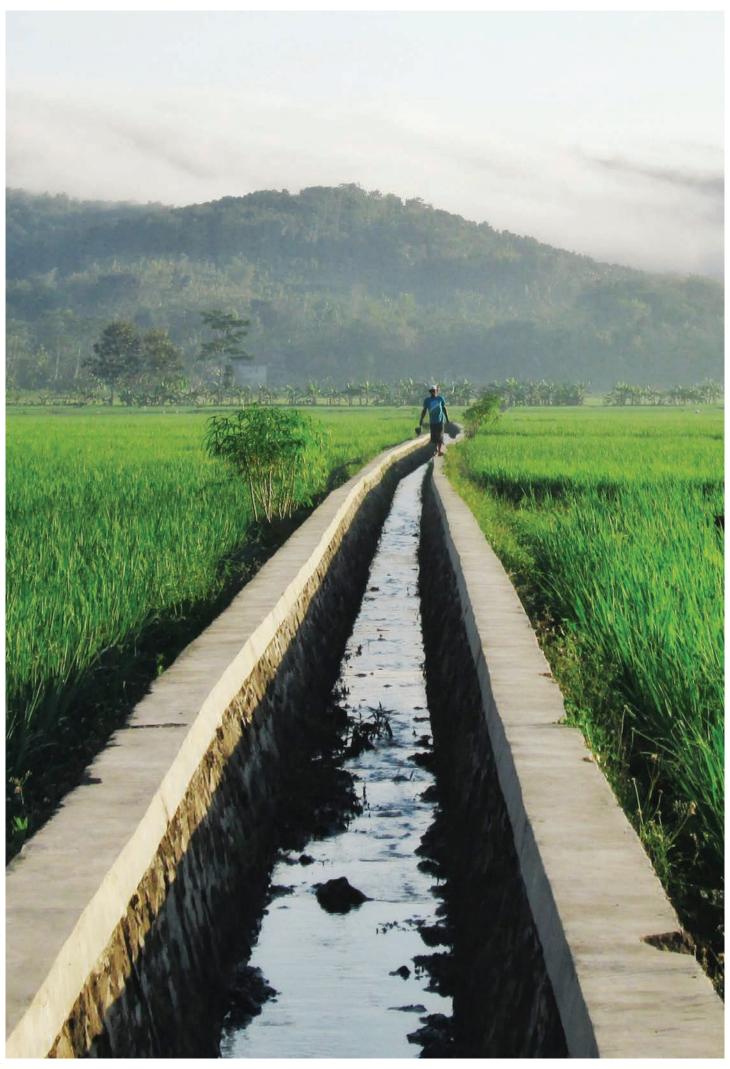


## TREADING WATER

## **Corporate Responses to Rising Water Challenges**

Written on behalf of 650 investors with US\$87 trillion in assets





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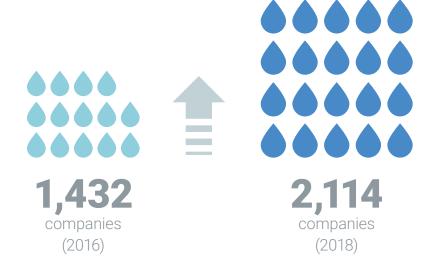
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## **ABOUT THIS REPORT**

In 2018, 4,969 high impact companies were asked to provide data about their efforts to manage and govern freshwater resources through CDP. In total 2,114 companies responded, up from 1,432 in 2016.

This data is used by 650 institutional investors, representing US\$87 trillion in assets to engage with portfolio companies, inform investment decisions and catalyze change. In addition, 44 purchasing organizations, with a combined spend of US\$2 trillion, use CDP water security data to drive greater insight, accountability and action throughout their global supply chains.

This report presents analysis of the response data from a sample of 783 of the world's largest publicly listed companies. The report is aimed at companies and investors seeking to understand how they can play their part in delivering a water secure world.



#### **KEY FINDINGS**

#### Corporate action is insufficient to achieve SDG 6 and deliver a water secure future

■ Companies are withdrawing more water year-on-year, despite greater awareness of water risks and more targets to reduce withdrawals being set. Between 2015 and 2018, there has been an almost 50% increase in the number of companies reporting higher water withdrawals. The increase in withdrawals is most pronounced in Asia and Latin America, and in the Food, Beverage & Agriculture, Manufacturing and Mineral Extraction sectors.

#### Companies must ensure that water is meaningfully embedded into corporate governance

■ The strategic decisions taken by the CEO and the Board can truly transform a company's impact on water resources. But although companies report high levels of risk exposure and board-level oversight, they have not yet tied water issues to performance. We found that among a cohort of companies in high impact sectors, 77% report exposure to substantive water risks, and 93% report that they have board-level oversight of water issues, but less than a third (31%) have incentives in place for C-Suite executives on water-related issues.

#### The Retail sector is lagging behind

■ The Retail sector has moved ahead of the Fossil Fuels sector for the first time in terms of poor performance on both transparency and action. Just 24% of retail companies responded to their investors, and fewer than 25% have water-related targets or goals.

## **CEO FOREWORD** PAUL SIMPSON, CEO, CDP



We all face a choice: seize the opportunities of the transition to a stable climate and a water secure future, or continue business as usual and face untold risks.

Water is the life blood of our global economy. It is a fundamental necessity for lives and livelihoods; for economic prosperity, health and development, and environmental sustainability. Yet this vital resource remains undervalued.

Last year, the UN reported that the world is not on track to meet its goal of ensuring the availability and sustainable management of water and sanitation for all - Sustainable Development Goal 6 (SDG 6). In fact, water crises continue to be rated as a top global risk based on both severity and likelihood by the World Economic Forum's Global Risks Report.

Meanwhile, a warming world continues to put our water supplies at risk. The landmark report from the Intergovernmental Panel on Climate Change (IPCC) showed us that limiting warming to below 1.5C would see the global population's exposure to water stress lowered by 50% compared to a 2C scenario. Yet, the world is currently heading beyond this guardrail.

We all face a choice: seize the opportunities of the transition to a stable climate and a water secure future, or continue business as usual and face untold risks

At CDP, we have been encouraged to see the increase in investors and companies stepping up their engagement with water security over the years. Ten years ago, when our water security program was launched, water disclosure was non-existent in capital markets. Last year, 2,114 companies, worth more than US\$18 trillion in market capitalization disclosed water information to their investors and customers through our platform.

However, corporate action is not reaching the pace and scale needed to truly address water insecurity. Our analysis shows that even as companies report greater risks year on year, freshwater withdrawals are increasing as they expand their production.

Achieving SDG 6 will require a complete transformation of our global economy. It will mean unprecedented co-operative action from companies, investors, cities, states and governments across all sectors.

We are seeing some progress, from the companies participating in early efforts to set contextual water targets; to those seizing opportunities for new water-smart products. For example, German chemicals company Symrise AG now ties 10% of its C-suite bonuses to achieving corporate sustainability targets, including strategic waterrelated targets. And UK consumer goods company, **Reckitt Benckiser**, has committed to deriving a third of its net revenue from 'more sustainable' products by 2020. An innovation that results in a product reducing its water impact by more than 10% per use is classified as a 'sustainable product'.

And last year, a new index from **Euronext** with Goldman Sachs, in partnership with CDP became the first globally to base its selection on how companies perform on water security, climate change, and deforestation.

These are important and timely reminders of the progress we are seeing across the real economy. But there are still serious hurdles in the race to achieve SDG 6 on water and sanitation. In October 2018, Brazil elected a president whose policies threaten the future of the Amazon rainforest, a vital source and filter of water for Brazil. In the US, the Environmental Protection Agency has proposed rollbacks to the Clean Water Act at a time when US states are being urged to issue more bonds and loan guarantees to help finance water infrastructure1.

There is no time for complacency. Now is the time for businesses to ramp up action and send a clear signal to governments that they need policy ambition to match. Business as usual is no longer an option, but a prosperous and sustainable water secure future is achievable, if we choose to rise to the challenge. We must, we can and I believe we will.

**Paul Simpson** CEO, CDP

## NORGES BANK INVESTMENT MANAGEMENT COMMENTARY



As a shareholder, we expect the boards of companies we invest in to ensure that material water challenges and opportunities are integrated in corporate strategy and investment planning, risk management and reporting.

Norges Bank Investment Management is responsible for managing the assets of the Norwegian Government Pension Fund Global, currently amounting to more than US\$1 trillion. We work to safeguard and build financial wealth for future generations.

Our objective is to secure the highest possible return with moderate risk. Responsible investment is a key priority for the fund as it supports the long-term economic performance of our investments, and reduces financial risks associated with the environmental and social practices of companies in our portfolio.

Water management has been a focus area for us since 2009. Water challenges may give rise to risks and opportunities for companies, and their responses to these may influence long-term returns for the fund as a shareholder. Externalities from unsustainable water use may also present a risk to our portfolio's long-term value. We have a general interest in sustainable water management and efficient water regulation across different sectors and geographies.

To assess whether companies are adequately managing relevant risks we rely on corporate reporting. Every year we assess companies' disclosures across indicators of governance, strategy, risk management, supply chains and metrics and targets. We see the quality and scope of disclosures as an indicator of companies' maturity in water management. Our assessments inform our company engagements, voting and risk management. The information is also provided to support investment decisions. In 2018, our assessments on water management covered 598 companies in the chemical, consumer goods, farming and fishing, food and beverage, mining, oil and gas, pulp and paper and power sectors. The results show a general improvement in reporting on water management compared to 2017. On average, companies assessed in both 2017 and 2018 improved their scores by 8 percentage points, and around 30 percent of companies with no reporting on water management in 2017 began to report on this topic in 2018 - some following direct interactions with us.

We recognize CDP's important role in driving increased and improved disclosures, and we base many of our assessments on the responses through CDP's platform. We appreciate that disclosure frameworks rarely fit completely for everyone and can often be time consuming to fill out. We nevertheless encourage companies to continue reporting through CDP to ensure consistency, comparability and a common repository of water data.

Disclosures reflecting board accountability and oversight are something we emphasise. As a shareholder, we expect the boards of companies we invest in to ensure that material water challenges and opportunities are integrated in corporate strategy and investment planning, risk management and reporting. Boards should ascertain that the ensuing responsibilities are clearly defined within the organisation and they should effectively guide, monitor and review company management in carrying out these efforts.

Our assessments in 2018 showed a marked increase in the number of companies where either the board or a board committee directly oversees water management at the company. However, 34% of companies assessed still do not report having board oversight of environmental or water issues. We hope to see even more boards ensure appropriate oversight of this important issue going forward.

We would like to congratulate CDP on the release of the 2018 Global Water Report and are encouraged by the high number of companies continuing to respond to the revised questionnaire.

#### **Carine Smith Ihenacho**

Chief Corporate Governance Officer Norges Bank Investment Management

## **CDP'S WATER SECURITY PROGRAM 2018**

#### Today, our work drives action on water security at scale

2,114 companies

representing over US\$18 trillion in market capitalization and 53% of heavily water dependent companies on the MSCI ACWI publicly disclose their progress in managing waterrelated risks and impacts through CDP. This represents a twelve-fold increase on the 175 companies that disclosed in 2010

650 investors

with combined assets of US\$87 trillion, drive companies to both disclose their impacts on water security and take action to reduce them. This is up from 137 investors in 2010.

36.4 million

people are employed by the publicly-listed companies disclosing through CDP's water security program; equivalent to the population of Canada.

628

## cities

with a combined population of 1.7 billion people now disclose to CDP to build resilience and protect their citizens from water risks2.

**US\$2** 

### trillion

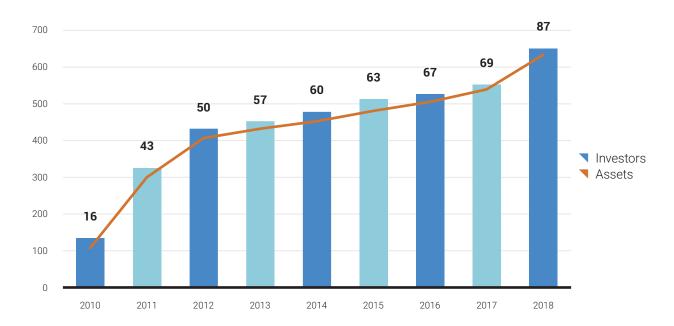
44 purchasing organizations with a combined annual spend of US\$2 trillion motivate their suppliers to disclose water information through CDP, enabling the management of water impacts through global supply chains.

**110** 

CDP is motivating companies to take ambitious action on water security in 110 countries, from Afghanistan to Zimbabwe and from Argentina to Zambia.

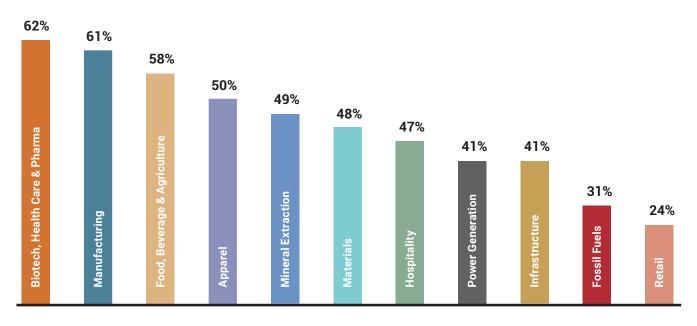
## **CDP'S WATER SECURITY PROGRAM 2018**

#### CDP Investor signatories and assets in US\$ trillion



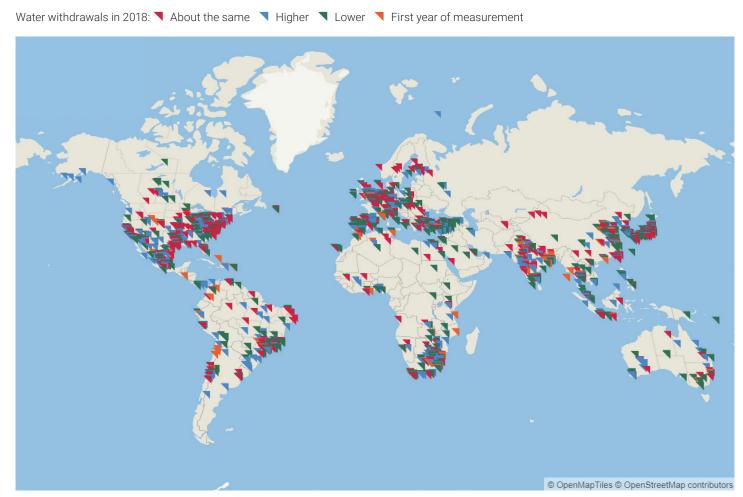


#### Response rate by sector



For more information on each sector's performance, see our sector summaries on p.18

#### Facilities at risk across the world



## CDP'S WATER SECURITY DATA ACROSS THE MARKET

The benefit of reporting through CDP is that companies disclose standardized, comparable in one place annually, and their data is then used by a range of different organizations across the globe. This diagram maps just some of the organizations that used CDP data in 2018 to advance water security.

CDP's water security data reaches hundreds of investors, influencing the financial community through the development of investment research, products and ratings. Our data also helps businesses to inform their strategy. We work with a range of NGOs on water security issues, and increasingly, governments and policymakers are also using CDP water security data to inform their decisions.



The world is not on track to meet our global water goal of ensuring availability and sustainable management of water and sanitation for all. The 2018 United Nations report on Sustainable Development Goal 6 was a stark reminder of this. Unsurprisingly, evidence is mounting that a failure to achieve our global goals poses a serious threat to financial stability.

In January of this year, the Dutch central bank, **DNB**, reported that the Dutch financial sector's exposure to the most water-scarce regions and most impactful companies totals €97 billion<sup>3</sup>. And yet, competition for the world's finite amount of freshwater continues to increase while quality worsens.

Delivering a water secure future will require a complete transformation of our global economy – and the private sector is vital to this effort. Companies in the food, textile, energy, industrial, chemicals, pharmaceuticals and mining sectors account for and wield influence over 70% of the world's freshwater use and pollution. In almost all cases, their business models, practices and products do not align with a water secure future, a future in which SDG 6 has been achieved.

The financial impact of this situation is already being felt by companies, with US\$38.5 billion in water-related financial losses experienced this year by responding companies. Two companies – **Vale** and the **Tokyo Electric Power Company** – account for the lion's share of these impacts (US\$29.2 billion). But even with these removed, the total financial losses experienced this year (US\$9.27 billion) is up from 2017. Further, there is reason to believe that this financial loss figure may be higher in reality, given that at least 50 companies were unable to provide financial figures for the impacts reported.

As water crises worsen, these high impact companies are increasingly exposed to risks that could threaten their reputations, revenue and financial stability. On the other hand, as governments around the world move to address this issue and achieve SDG 6, companies, and the investors and banks fueling them, face substantial transition risks of stranded assets if they fail to move with the times. In other words, if they fail to consider how their business models, products and practices must change to decouple production and consumption from the depletion of water resources.

Investors are increasingly calling on companies to take such steps. In 2018, 650 institutional investors with over US\$87 trillion in assets invited 1,536 of the world's largest publicly listed, high impact companies to disclose water-related information through CDP. These companies depend on a stable supply of good quality water for success. 783 companies – or 51% – responded to their investors, demonstrating some progress towards better water performance.

However, important sectors are lagging behind their peers. Of particular concern is the Retail sector, which moved ahead of the Fossil Fuels sector for the first time in terms of poor performance on both transparency – just 24% of retail companies responded – and action – fewer than 25% have water-related targets or goals and only 54% engage suppliers on water risks and impacts. With revenues anticipated to reach US\$28 trillion this year<sup>4</sup>, this sector is more powerful than ever. Made up of those companies near the top of the agricultural value chain, the retail sector enables agribusinesses to pump ever increasing amounts of non-renewable groundwater, it enables dyehouses to release toxic pollution, and consumers to buy ever cheaper meat, but it can also be the key to changing all of this.

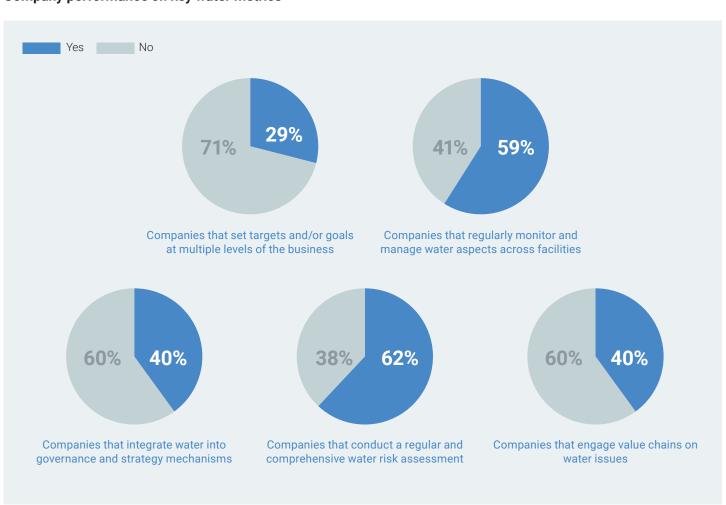
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 $<sup>4. \</sup>quad https://www.researchandmarkets.com/reports/3766834/overview-and-evolution-of-the-global-retail and the substitution of the properties of the properti$ 

#### Sectors with largest financial impacts

|                                  | Financial impacts reported | Most common impacts  | Most common responses   |
|----------------------------------|----------------------------|--|---|
| Mineral Extraction               | US\$20.5 billion           | <ul> <li>Increased operating costs</li> <li>Reduction/disruption in production capacity</li> <li>Fines, penalties or enforcement orders</li> </ul> | <ul> <li>Adopt water efficiency, water re-use, recycling and conservation practices</li> <li>Pollution abatement and control measures</li> <li>Engage with regulators/policymakers</li> </ul> |
| Power Generation                 | US\$9.6 billion            | <ul><li>Increased operating costs</li><li>Impact on company assets</li><li>Increased compliance costs</li></ul>                                    | <ul><li>Engage with regulators/policymakers</li><li>Infrastructure maintenance</li><li>Increased capital expenditure</li></ul>  |
| Biotech, Health Care<br>& Pharma | US\$3.5 billion            | Reduction/disruption in production capacity Constraint to growth Increased operating costs   | <ul> <li>Adopt water efficiency, water re-use, recycling and conservation practices</li> <li>Amend the Business Continuity Plan</li> <li>Secure alternative water supply</li> </ul>           |

#### Company performance on key water metrics



#### Increasing risks, increasing withdrawals

Decoupling production and consumption from the depletion of water resources requires greater levels of ambition, transparency and innovation. Our analysis suggests that the pace and scale of change we are seeing from the corporate world is insufficient to meet this challenge.

This year, we examined 296 of the world's largest companies that have consistently reported water information through CDP between 2015 and 2018. This cohort identified more substantive water risks year-on-year (75% in 2018, up from 70% in 2015) and the number setting targets to reduce water withdrawals doubled over the four-year period. But this ambition has not translated into actual reduced dependence on water resources, with an almost 50% increase in the number of companies reporting higher water withdrawals.

This worrying trend holds both for company-wide water withdrawal figures and figures for sites facing substantial water risks, with the biggest increases among companies in the Food, Beverage & Agriculture, Manufacturing and Mineral Extraction sectors, and those operating in Asia and Latin America. Further, while there has been a modest reduction (7%) in the number of companies reporting withdrawals from non-renewable groundwater, companies reporting higher withdrawals from all other sources, including renewable groundwater and surface water, has risen on average 35%.

The most common explanation that companies provide for increased withdrawals is an increase in production. For example, US beverage producer, **Constellation Brands, Inc**. attributed the increase in withdrawals in 2018 to a rise in production, improved metering at some locations and extreme weather conditions throughout the world necessitating a need for increased water use for irrigation. And **Marfrig Global Foods** report that their withdrawals from non-renewable groundwater were 11% higher in 2018 than in the previous year. Groundwater represents 38% of their total water withdrawal and the increase was due to the opening of new operating plants in 2017.

Unlike carbon, we are not in a race to zero when it comes to water withdrawals – companies and people alike will always need a certain amount of water to survive and thrive. But as water availability and quality decreases around the world, a failure by business to deliver even a modest reduction on this indicator is .concerning.

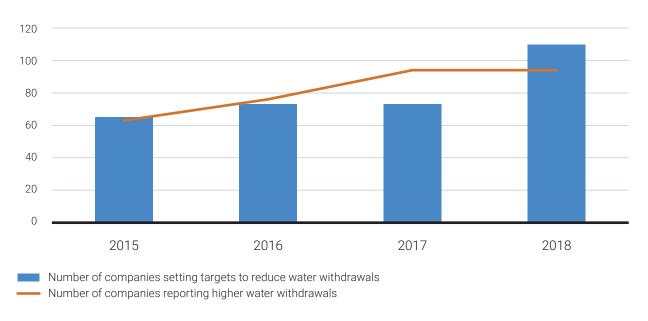
#### The Water A List: Raising the bar on corporate water action

Given the scale of the water challenges we face, the incremental changes we're seeing from many companies – acting a little more efficiently or a little more collaboratively – are unlikely to cut it. Delivering a water secure future not only means better water management but, importantly, better business management. For example, **AstraZeneca** has developed a global strategy to cap water use at 2015 levels through to 2025, while doubling revenue. And **Sony Corporation** is diversifying its business model to develop new technologies in the agricultural sector that improve productivity and reduce environmental impact. The company estimates the opportunity could be worth US\$4.1 billion over the next four to six years.

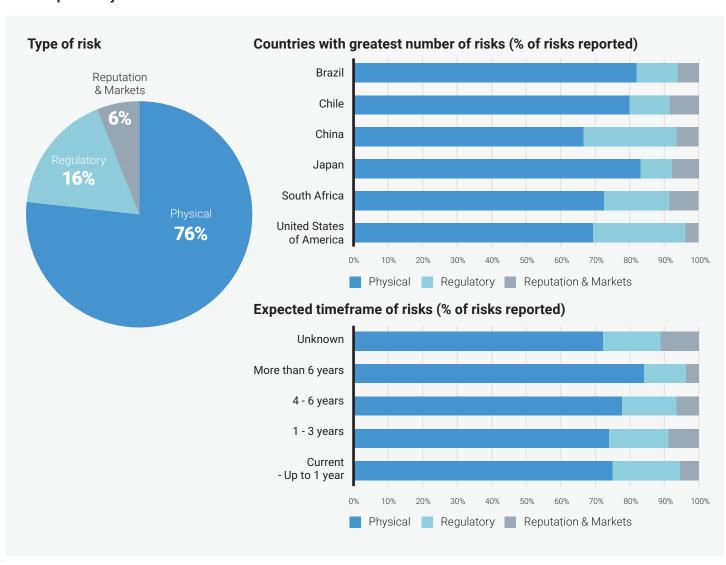
In recognition of the changes needed, CDP raised the bar for corporate leadership on water security in 2018. To make the Water Security A List, companies must now show that they regularly monitor and manage water aspects relevant to their activities through the whole value chain, that they have regular and comprehensive water risk assessment procedures that are grounded in the river basin and a solid understanding of how water issues could impact their financial performance. At the same time, they should show that they have implemented a genuine strategic response to these risks, i.e. a company's governance mechanisms and long-term business and financial strategies must be informed by and working to address water security issues.

While some (31), including global drinks company **Diageo**, French beauty giant **L'Oréal** and Brazilian petrochemical company **Braskem** were able to meet these higher standards and achieve leadership status, the vast majority (752) were not. All company scores and response statuses can be found in Appendix IV, p.46.

#### Water withdrawals reported by cohort in 2018



#### Risks reported by cohort in 2018



## **CDP'S WATER A LIST 2018**



**AstraZeneca** United Kingdom

**■** Bayer AG Germany



Altria Group, Inc.

**United States** 

Asahi Group Holdings, Ltd. Japan

Coca-Cola European Partners United Kingdom

**▼** Diageo Plc United Kingdom

General Mills Inc. **United States** 

Kirin Holdings Co Ltd Japan

■ Suntory Beverage & Food Japan



■ Galp Energia SA Portugal



**Las Vegas Sands Corporation United States** 



Acciona S.A. Spain



**Materials** 

Klabin S/A Brazil

**LIXIL Group Corporation** Japan



■ Braskem S/A Brazil

**Brembo SpA** Italy

CNH Industrial NV United Kingdom

▼ Firmenich SA Switzerland

Ford Motor Company **United States** 

▼ International Flavors & Fragrances Inc.

**United States** 

KAO Corporation Japan

▼ LG Display Republic of Korea

**▼ LG Innotek** Republic of Korea

**▼** L'Oréal France

**▼** Metsä Board Finland

Mitsubishi Electric Corporation Japan

Nabtesco Corporation Japan

■ Stanley Black & Decker, Inc. **United States** 

▼ Toyota Industries Corporation Japan



Gap Inc. **United States** 



Microsoft Corporation **United States** 

#### **Embedding water into corporate governance**

Companies will not achieve the transformations needed until water is meaningfully embedded into corporate governance. Environmental and sustainability professionals can make incremental improvements to a company's water performance, but it is the strategic decisions taken by the CEO and the Board that will truly transform outcomes for a water secure future. Decisions, for example, associated with product development, market expansion, or resource allocation, all have the potential to significantly reduce or even eliminate a company's negative environmental impacts. And increasingly, investors are looking to hold C-Suite decision makers accountable for their performance on water-related issues.

For the first time in 2018, we are able to assess just how many companies in high impact sectors are rewarding their C-Suite officers for performance on water-related issues<sup>5</sup>. Although 77% of this group report exposure to substantive water risks, and 93% report that they have board-level oversight of water issues, under a third (31%) have incentives in place for C-Suite executives to reduce water withdrawals and just 15% have incentives tied to avoidance of pollution.

For example, German chemicals company **Symrise AG** ties 10% of its CEO, chief finance (CFO) and chief strategy (CSO) officers' bonuses to achieving corporate sustainability targets. These include strategic water-related company targets, such as the annual reduction of wastewater loadings by 4%, increasing the number and percentage of strategic suppliers participating in CDP's supply chain program, and the company's CDP scores for water, climate and forests.

#### Accelerating the transition to a water-secure economy

Achieving SDG 6 is possible. To succeed, those companies that affect our freshwater must go to work to protect it. The business risks of inaction are very real but so too are the opportunities lost. Mainstream financial institutions are moving to seize these opportunities. Indices such as the **Euronext** and **Goldman Sachs** CDP Environment France Index favor companies that perform better on water issues, and banks are now rewarding leading companies with preferential interest rates for better sustainability performance, such as **BBVA's** Sustainability Improver Loan.

The reality, risks and opportunities of a water secure future must be embedded within business, financial and policy decision making. Corporate transparency plays a vital role in driving the transition to a water secure future by catalyzing a desire to grow differently amongst the private sector and its extensive supply chains. As the market matures, CDP will continue to raise the bar on corporate water performance to spark the systemic transformations needed to decouple production and consumption from the depletion of water resources.



# **Sector** summaries

## INTRODUCTION

These sector summaries provide a simple way for investors and others to compare company performance on key water issues across industry sectors. Investors can assess strengths and weaknesses and use this information to inform corporate engagement and facilitate improved disclosure and action.

The sectors are defined by CDP's new Activity Classification System, which categorizes companies by the diverse activities from which they derive revenue, and associates these activities with how they impact on water security. You can find a full list of all companies invited to respond, their response status and score in Appendix IV on p.46.

#### The sectors analyzed in these pages are:



**Apparel** 



Biotech, Health Care & Pharma



Food, Beverage & Agriculture



**Fossil Fuels** 



Hospitality



Infrastructure



**Manufacturing** 



**Materials** 



**Mineral Extraction** 



**Power Generation** 



Retail

## **KEY METRICS**

CDP has identified six key management behaviors that investors can expect of any company. These metrics are aligned with our 2018 scoring methodology and you can read more about how they are calculated in our report methodology on p.36.



#### **Transparency**

## Does the company respond to the request for information via CDP?

Some companies report some water-related metrics in their sustainability reports, but this information is often incomplete and not comparable. CDP offers the only platform for companies to disclose material water-related information in a standardized format. Disclosing via CDP enables a company to better understand its risk exposure, identify actions to mitigate these risks and seize a competitive advantage.



#### **Risk Assessment**

Does the company conduct a regular risk assessment including river basin management authorities?

Water issues differ greatly from one river basin to another. A company considering its water use alongside the physical, regulatory, social, environmental and temporal context within which it and its suppliers operate, has a far greater chance of understanding and enhancing its resilience.



#### **Governance & Strategy**

Does the company:

- have board-level oversight of water issues;
- integrate water into long-term business objectives and;
- have a publicly available water policy?

Water governance must be in the boardroom of every company that can impact on, or be impacted by, water resources. By providing board members with the information and tools to plan for a transition to a water-secure world and by publicly monitoring progress, water security can become part of companies' modus operandi.



#### **Targets & Goals**

Does the company set company-wide targets and/or goals that are monitored at the corporate level and

targets and/or goals for any two of the following business activity, site/facility, brand, country, or river basin?

Companies must set and achieve ambitious targets to reduce impacts on water availability and quality. Targets can be set at different levels within the company from facilities to products to regions, but all should be tracked at the corporate level. This allows the targets to be incorporated into the company's overall strategy and performance KPIs, enhancing the chance of success.



#### **Measuring & Monitoring**

## Does the company measure all water aspects at 75% of facilities?

As the saying goes, what gets measured gets managed. Robust water accounting data is necessary to inform business planning and forecasting as well as risk identification and response. Companies should regularly measure all water aspects: withdrawals, discharges, quality, consumption, and employee access to WASH (Water, Sanitation and Hygiene).



#### Value Chain Engagement

Does the company actively engage value chain (suppliers, customers or other value chain partners) on water-related issues?

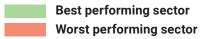
Companies that leverage their procurement power can drive change at greater pace and scale through value chains. By engaging value chain partners on water issues, companies can gather a more complete picture of their water risk exposure and incentivize sustainable behavior among both suppliers and customers. Examples of action include onboarding & compliance; incentivizing improved water management and stewardship; and innovation & collaboration with value chain partners.

## **HEATMAP**

So, how have companies performed on these key management behaviors in 2018?

The heatmap below provides performance by sector, marking in green the best performers and in red the worst, relative to other sectors. In most cases, there is significant room for improvement.

#### Key:



|                               | Transparency | Governance<br>& Strategy | Measuring<br>& Monitoring | Risk<br>Assessment | Targets<br>& Goals | Value Chain<br>Engagement |
|-------------------------------|--------------|--------------------------|---------------------------|--------------------|--------------------|---------------------------|
| Apparel                       | 50%          | 46%                      | 31%                       | 62%                | 38%                | 55%                       |
| Biotech, Health Care & Pharma | 62%          | 39%                      | 63%                       | 60%                | 31%                | 47%                       |
| Food, Beverage & Agriculture  | 58%          | 51%                      | 78%                       | 67%                | 41%                | 53%                       |
| Fossil Fuels                  | 31%          | 40%                      | 62%                       | 62%                | 26%                | 21%                       |
| Hospitality                   | 50%          | 25%                      | 31%                       | 25%                | 31%                | 50%                       |
| Infrastructure                | 41%          | 59%                      | 56%                       | 73%                | 26%                | 29%                       |
| Manufacturing                 | 60%          | 33%                      | 59%                       | 61%                | 27%                | 39%                       |
| Materials                     | 49%          | 48%                      | 64%                       | 79%                | 34%                | 42%                       |
| Mineral Extraction            | 49%          | 47%                      | 88%                       | 72%                | 16%                | 23%                       |
| Power Generation              | 41%          | 50%                      | 71%                       | 68%                | 43%                | 41%                       |
| Retail                        | 24%          | 32%                      | 18%                       | 32%                | 25%                | 54%                       |
| Total :                       | 51%          | 40%                      | 59%                       | 62%                | 29%                | 40%                       |



| Response rate   | Apparel   |         | 50% | 13   | 3/26 |
|-----------------|-----------|---------|-----|------|------|
| Accessories Mar | nufacture | 67% 2/3 |     |      |      |
| Clothin         | ng Design | 36%     |     | 4/11 |      |
| Clothing Mar    | nufacture | 56%     | 5/9 |      |      |
|                 | Textiles  | 67% 2/3 |     |      |      |

#### How is water material to the Apparel sector?

In the Apparel sector, water is used for dyeing and bleaching, cooling, cleaning and painting processes. Thousands of chemicals are used in these processes and companies across the apparel value chain can face regulatory and reputational risks if wastewater is not properly treated. In addition, textile manufacturers rely heavily on water in the value chain for the irrigation of cotton and other natural fibers, and for leather production for the irrigation of feedstock for cattle. Finally, the use phase of products is an emerging risk for the sector, for example as microplastics enter water bodies from the washing of synthetic materials.

| Cross-sector average       | Apparel<br>sector performance |
|----------------------------|-------------------------------|
| Transparency 51%           | 50%                           |
| Governance & Strategy 40%  | 46%                           |
| Measuring & Monitoring 59% | 31%                           |
| Risk Assessment 62%        | 62%                           |
| Targets & Goals 29%        | 38%                           |
| Value Chain Engagement 40% | 55%                           |

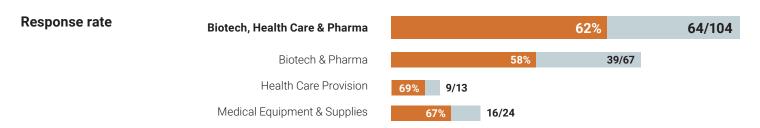
The Apparel sector significantly underperforms on measuring & monitoring water aspects – a cause for investor concern given the sector's contribution to water pollution. Just four companies in the sector monitor total discharge volumes. Investors should ask questions about company procedures for measuring and monitoring withdrawals, discharges, consumption and WASH services for employees.

The sector must improve its public commitments on water issues. The most common targets relate to water consumption and product water intensity, but much more can be done on the prevention of water pollution and WASH provision. Investors should check for targets aligned with existing initiatives like Zero Discharge of Hazardous Chemicals (ZDHC), and the Sustainable Apparel Coalition.

Encouragingly, the sector outperforms others on engaging the value chain on water issues. This is a critical area for action, as water use and pollution by suppliers can cause significant brand damage and production disruptions. Furthermore, consumers are increasingly aware of the impact of their clothes on the environment



## **BIOTECH, HEALTH CARE & PHARMA**



#### How is water material to the Biotech, Health Care & Pharma sector?

This sector is primarily comprised of pharmaceuticals companies, with some medical equipment and biotechnology companies and a smaller contingent of health care services companies. For pharmaceuticals companies, water plays a critical and varied role as a reagent, solvent and cleaning agent, and companies often require high quality and ultra-pure water in the production and delivery of products<sup>6</sup>. Monitoring water discharge quality is also a key consideration as companies must comply with regulations concerning the removal of pharmaceutical compounds from discharged water. The water-energy nexus is often explicit in this sector as manufacturing plants require cooling systems that can vary in their water and energy efficiency. Companies may have to trade off emissions reductions goals against efforts to reduce water dependence.

| Cross-sector average       | Biotech, Health Care & Pharma<br>sector performance |
|----------------------------|---|
| Transparency 51%           | 62%   |
| Governance & Strategy 40%  | 39%   |
| Measuring & Monitoring 59% | 63%   |
| Risk Assessment 62%        | 60%   |
| Targets & Goals 29%        | 31%   |
| Value Chain Engagement 40% | 47%   |

The sector has the second highest disclosure rate, with large multinationals such as **AstraZeneca** and **Bayer** making the 2018 Water A List.

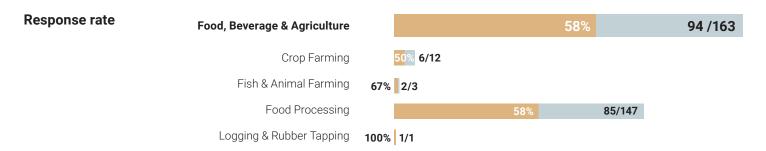
The sector must rapidly step up the ambition and number of the water related targets and goals that it sets. Just two reporting companies have a water recycling target and none have set a watershed remediation or ecosystem preservation goal. Investors should challenge these companies to set ambitious, public goals monitored at the corporate level.

It is encouraging to see that the sector outperforms the average when it comes to engaging the value chain. For example, **Merck & Co**. has a 2018 target to collect water use data from at least 90% of strategic suppliers with the highest environmental impacts. Merck is working with other members of Pharmaceutical Supply Chain Initiative to obtain water use data from suppliers. In 2017, the company surveyed 224 suppliers, covering approximately 37% of procurement spend. This represents less than 1% of their total number of suppliers.

<sup>6.</sup> SUEZ (2017) Ultra-pure water use in semiconductor and pharmaceutical industries. [Online] Available: suezwaterhandbook.com/processes-and-technologies/treatment-and-conditioning-of-industrial-water/process-water-including-ultra-pure-water/ultra-pure-water-used-in-semiconductor-and-pharmaceutical-industries



## FOOD, BEVERAGE & AGRICULTURE



#### Why water is material for the Food, Beverage & Agriculture sector

The agricultural sector accounts for almost 70% of the world's water consumption<sup>7</sup>, as water is as water is essential for the growing of crops and animals. Water is also used in the washing, boiling, packaging and transportation of agricultural commodities. For example, cleaning water can account for as much as 70% of overall water use in soft drinks manufacturing<sup>8</sup>. Water quality is also an issue: excessive or poor application of fertilizers and pesticides can lead to nitrate and phosphorus run-offs, polluting waterways and contaminating groundwater. It is estimated that better water management could boost crop production by 20% globally<sup>9</sup>.

| Cross-sector average       | Food, Beverage & Agriculture<br>sector performance |
|----------------------------|--|
| Transparency 51%           | 58%  |
| Governance & Strategy 40%  | 51%  |
| Measuring & Monitoring 59% | <b>78</b> %  |
| Risk Assessment 62%        | 67%  |
| Targets & Goals 29%        | 41%  |
| Value Chain Engagement 40% | 53%  |

The sector beats the average, but there are still some major global food companies not disclosing water information to their investors, including **Kweichow Moutai, ITC Limited** and **Pernod Ricard**. Investors must engage this critical sector on their water use and management to ensure that risks are being managed appropriately.

The FBA sector leads on the setting of targets and goals, with excellent examples from companies like **AB InBev**, which includes water-related goals in executive targets and financial rewards. The company's two goals for 2025 are broken down in annual milestones and evaluated on an annual basis. These goals comprise between 10-25% of the annual monetary incentives of the executives directly involved.

Encouragingly, the sector is the best performer on value chain engagement, with a clear majority of companies requesting water-related information from value chain partners.

<sup>7.</sup> http://www.fao.org/nr/water/aquastat/water\_use/index.stm

<sup>8.</sup> WRAP. Drinks Resource Maps – Summary and overview. Available at: http://www.wrapcymru.org.uk/sites/files/wrap/Drinks%20Resource%20Maps%20Summary%20FINAL%20010512%20 AG%202\_0.pdf

<sup>9.</sup> http://unesdoc.unesco.org/images/0026/002614/261424e.pdf

### **FOSSIL FUELS**

| Response rate | Fossil Fuels                    | 31%      |       |
|---------------|---------------------------------|----------|-------|
|               | Coal Mining                     | 28% 5/18 |       |
|               | Oil & Gas Extraction            | 26%      | 11/43 |
|               | Oil & Gas Marketing & Retailing | 33% 3/9  |       |
|               | Oil & Gas Midstream & Other     | 28% 7/25 |       |
|               | Oil & Gas Processing            | 40%      | 17/43 |

#### Why water is material for the Fossil Fuels sector

Water underpins the exploration, production and refining of fossil fuels, being involved in most parts of the value chain from construction to drilling, pumping, treatment and cooling. The International Energy Agency says that global water consumption for power generation and fuel production is expected to more than double from 66 billion cubic meters (bcm) in 2010, to 135 bcm by 2035. Coal accounts for 50% of this growth and is one of the most-water intensive methods of generating electricity. For some production techniques such as hydraulic fracturing and oil sands, large volumes of water are required to extract the resource. A major risk within the industry is water pollution which can arise from spills, cross-aquifer mixing, drill muds and cuttings, disruption and pollution of surface water and groundwater through water discharge, contamination by pump leakages and oil spillages during transportation. The extraction of hydrocarbons also produces large volumes of water, which must be safely managed. Oil & gas refining is a water-intensive process and there is also high water pollution potential if products are spilled. Retailers, midstream, and oil & gas services companies share water pollution and reputational risk with their clients.

| Cross-sector average       | Fossil Fuels<br>sector performance |
|----------------------------|------------------------------------|
| Transparency 51%           | 31%                                |
| Governance & Strategy 40%  | 40%                                |
| Measuring & Monitoring 59% | 62%                                |
| Risk Assessment 62%        | 62%                                |
| Targets & Goals 29%        | 26%                                |
| Value Chain Engagement 40% | 21%                                |

This sector has consistently had one of the lowest response rates of all sectors since the inception of CDP's Water Security program. Investors should expect greater transparency from oil and gas majors given the large volumes of water these companies manage on a daily basis, and the well-documented potential for water pollution from their activities. Major non-disclosers include Exxon Mobil Corporation, Royal Dutch Shell, and Chevron Corporation.

The sector achieves average performance for the inclusion of water issues into governance and strategy mechanisms, but investors should expect this of all Fossil Fuel companies. Climate change is now embedded into the strategy of these companies, and water should be too. For example, the Task Force on Climate Related Financial Disclosures requests water metrics from the energy sector.

### HOSPITALITY



#### Why water is material for the Hospitality sector

Many companies in the hospitality sector have water intensive supply chains through agricultural production of the food and beverages that they sell. Companies in this sector often have large real estate holdings that can be severely affected by water pollution and scarcity. For example, water consumption for hotel chains can be high and hotels can be located in water stressed locations. Cost is also a factor: water accounts for 10% of utility bills in many hotels. These companies can drive change and reduce water impacts through working collaboratively with their value chain – suppliers and consumers alike.

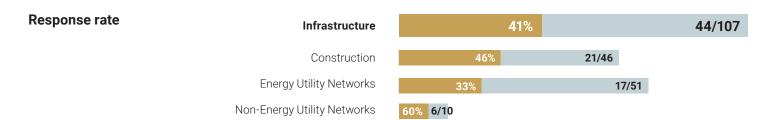
| Cross-sector average       | Hospitality<br>sector performance |
|----------------------------|-----------------------------------|
| Transparency 51%           | 50%                               |
| Governance & Strategy 40%  | 25%                               |
| Measuring & Monitoring 59% | 31%                               |
| Risk Assessment 62%        | 25%                               |
| Targets & Goals 29%        | 31%                               |
| Value Chain Engagement 40% | 50%                               |

The sector does not achieve the average response rate, with major names such as **Oriental Land Co Ltd.**, **Restaurant Brands International** and **Chipotle Mexican Grill** not disclosing. Investors must encourage a significant increase in transparency from this sector, which relies heavily on water.

The sector is the worst performer on the integration of water issues into business governance and strategy. Investors must encourage restaurant chains and hoteliers to raise the strategic importance of water issues within the business, ensuring that the board has oversight of risks and opportunities.

Companies in this sector often have estates across the world, for example, restaurants and hotel chains. It is therefore concerning that companies are not undertaking the comprehensive risks assessments necessary to map which sites are in water-stressed areas, and understand the location and magnitude of water risks. For example, **Interncontinental Hotels** reports that they completed a comprehensive water risk assessment across their global estate in 2016, finding that 2,414 facilities, or 47% of all their hotels, are exposed to substantive water risk.

## **INFRASTRUCTURE**

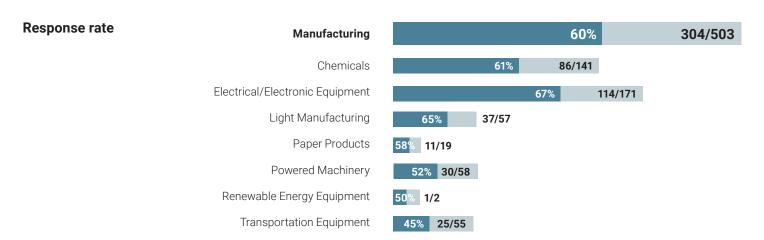


#### Why water is material for the Infrastructure sector

The Construction sub-sector is dependent on cement and other water-reliant construction materials. Construction companies have also reported that significant change in precipitation and increased sudden extreme rainfall is a risk for their sites. For Utility Networks, there is water-related risk through potential issues with flooding, water access and water pollution. Energy Utility Networks often have water intensive supply chains (coal, natural gas, shale gas fracking); and a potential risk to their business reputationally through media interest.

| Cross-sector average       | Infrastructure sector<br>performance |
|----------------------------|--------------------------------------|
| Transparency 51%           | 41%                                  |
| Governance & Strategy 40%  | 59%                                  |
| Measuring & Monitoring 59% | 56%                                  |
| Risk Assessment 62%        |                                      |
| Targets & Goals 26%        |                                      |
| Value Chain Engagement     | 29%                                  |

## MANUFACTURING



#### Why water is material for the Manufacturing sector

Manufacturing is a diverse sector, and key water uses in the major sub-sectors are outlined below.

- The Chemicals sub-sector is highly water intensive: water is used for cooling purposes (90%) but also as a raw material, in cleaning, transport, as a solvent and as part of the final product. The sector faces the risk of spillage of hazardous chemicals which can affect the quality of local water resources.
- Electrical Equipment covers components such as displays and touch screens as well as lighting, heating ventilation, air conditioning, power tools, power management, control, automation and robotic actuators. Ultra-pure water is required to manufacture many of these items, including semiconductors.
- Light Manufacturing covers the manufacture of metal parts, which has a water-intensive supply chain via mining, and the manufacture of plastic products among other things. Water is used primarily for cooling and cleaning, and ultra-pure water is required for some processes. Furthermore, rinse water used in the production of aluminum, titanium and other composites produces high levels of hazardous wastes and must be precisely treated.
- Transportation Equipment covers auto manufacturing, which uses water for surface treatment and coating, paint spray booths, washing, rinsing, hosing, cooling, air-conditioning systems and boilers. Wastewater then needs to be treated to high standards in order to meet environmental regulations. This sub-sector also has a water intensive supply chain, as water is required to produce many auto components.



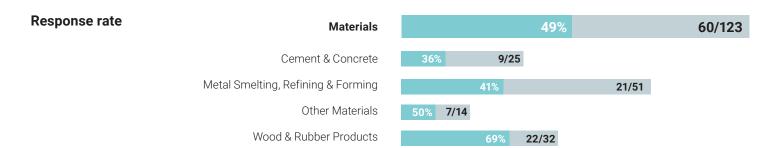
| Cross-sector average       | Manufacturing sector performance |
|----------------------------|----------------------------------|
| Transparency 51%           | 60%                              |
| Governance & Strategy 40%  | 33%                              |
| Measuring & Monitoring 59% | 59%                              |
| Risk Assessment 62%        | 61%                              |
| Targets & Goals 29%        | 27%                              |
| Value Chain Engagement 40% | 39%                              |

Transparency is relatively high in this sector, but still 200 companies such as **Apple Inc., Unilever Nv Cva** and **Broadcom Limited** still fail to disclose critical water related information to their investors.

Given that most manufacturing processes are water-critical, it is concerning that water issues are not yet widely integrated into company governance and strategy procedures. Some companies however, are incentivizing positive change at the highest levels of corporate governance such as **Braskem S/A**, which provides incentives to the C-suite for the achievement of company water targets.

The Manufacturing sector should be leading the way in the setting of targets and goals – both efficiency targets per product and, crucially, reduction and elimination of water pollution. Investors should challenge companies in this sector to set reaching targets. For example, **Ford Motor Company** aims to reduce water use per vehicle produced by 30 percent from 2015 to 2020, with the ultimate goal of manufacturing vehicles without withdrawing any drinkable water.

# MATERIALS



#### Why water is material for the Materials sector

- For wood products such as pulp and paper, water is used to create the pulp and flush away unwanted impurities. Industrial effluent from mills can contain toxic and non-biodegradable organic materials. Deforestation in service to this sector poses a substantial risk for water security worldwide.
- Cement production requires significant amounts of water for cooling heavy equipment and exhaust gases, in emission control systems such as wet scrubbers, as well as for preparing slurry in wet process kilns. Discharged water may be altered in terms of temperature, acidity or suspended solids with potential impacts for the discharge environment.
- Companies involved in Metal Smelting, Refining & Forming have a water-intensive supply chain (mining) and require large quantities of cooling water. End products are used as raw materials in the Manufacturing and Infrastructure sectors, which also rely on water.
- The 'Other materials' sector includes glass products and ceramics. Water is used in virtually all ceramic processes, and wastewater can contain minerals and some heavy metals which must be treated carefully.

| Cross-sector average       | Materials<br>sector performance |
|----------------------------|---------------------------------|
| Transparency 51%           | 49%                             |
| Governance & Strategy 40%  | 48%                             |
| Measuring & Monitoring 59% | 64%                             |
| Risk Assessment 62%        | 79%                             |
| Targets & Goals 29%        | 34%                             |
| Value Chain Engagement 40% | 42%                             |

Materials companies outperform the cross-sector average for governance and strategy, but at 48% there is still room for improvement, particularly in the adoption of water policies. For example, **Saint-Gobain**'s water policy, adopted in 2011, affirms a long-term objective for zero discharge of industrial water in liquid form, while avoiding generating new impacts for other natural environments and for other parties involved. The company has also defined a water standard that sets out minimum requirements for industrial sites must on water management and the prevention of risks of water constraints, pollution and flooding. The policy also requires that all stakeholders throughout the value chain, including suppliers, are condiered into consideration. The list of priority sites within the framework of the Water policy is based on both water withdrawals and the water stressed areas.

Outperforming every other sector, 79% of companies in the Materials sector such as **Duratex S/A, LIXIL Group Corporation** and **Tata Steel** have a comprehensive water risk assessment in place.

The Materials sector ranks the third highest across sectors when it comes to setting targets and goals, but there is significant room for improvement. For example, companies can ratchet their targets once achieved. In 2017, **Cementos Argos** achieved its water consumption goal of using 455 litres per tonne of cement compared with a baseline year of 2012, when the company used 649 litres of water per tonne. The company has now ratcheted that target, aiming to reach 256 litres per tonne by 2025.



## MINERAL EXTRACTION

| Deenenee vote |                              |          |     |       |       |  |
|---------------|------------------------------|----------|-----|-------|-------|--|
| Response rate | Mineral Extraction           |          | 49% |       | 32/65 |  |
|               |                              |          |     |       |       |  |
|               | Iron Ore Mining              | 43% 3/7  |     |       |       |  |
|               |                              |          |     |       |       |  |
|               | Mined Precious Metals        |          | 50% | 21/42 |       |  |
|               | Other Non-Ferrous Ore Mining | 50% 6/12 |     |       |       |  |
|               | Other Non-Metallic Minerals  | 50% 2/4  |     |       |       |  |

#### Why water is material for the Mineral Extraction sector

In mining, water is used to extract the raw material from the ground, to extract the desired element from the raw material, in the transport and storage of excess slurry, and for other processes such as dust suppression, cooling and employee requirements on site. Water pollution is a significant risk, to access minerals below the water table, mines need to 'dewater' and then safely dispose of this groundwater. Acid Mine Drainage and water pollution from tailings dams is a significant risk, even after the lifetime of a mine. Mining and mineral processing is also energy intensive, and water is often required to produce this energy.

| Cross-sector average       | Mineral Extraction sector performance |  |
|----------------------------|---------------------------------------|--|
| Transparency 51%           | 49%                                   | Less than half of companies in this sector responded to the investor request for water-related information, with previous  |
| Governance & Strategy 40%  | 47%                                   | responders to CDP such as <b>BHP Billiton, Rio Tinto</b> and <b>MMC Norilsk Nickel OSJC</b> failing to disclose in 2018. This trend is deeply concerning considering recent tailings dams disasters and water pollution issues that have harmed the sector's reputation. |
| Measuring & Monitoring 59% | 88%                                   | Encouragingly, the vast majority of responding companies companies report that they have strong measurement and monitoring practices in place. This rate is the highest of any sector, reflecting the critical importance of water to mining activities.                 |
| Risk Assessment 62%        | <b>72</b> %                           | Given that more than half (52%) of respondents in this sector report exposure to substantive water risk, it's disappointing that   |
| Targets & Goals 29%        | 16%                                   | only 16% of companies, the lowest of any sector, are setting multiple water targets and goals. Investors should challenge companies to set a range of ambitious water targets.   |
| Value Chain Engagement 40% | 23%                                   |  |



## **POWER GENERATION**

| Response rate | Power Generation           | 41%     | 29/70 |
|---------------|----------------------------|---------|-------|
|               | Nuclear Power Generation   | 50% 1/2 |       |
|               | Renewable Power Generation | 50% 4/8 |       |
|               | Thermal Power Generation   | 40%     | 24/60 |

#### Why water is material for the Power Generation sector

The Power Generation sector is heavily dependent on water for cooling, and, in the case of hydroelectric generation plants, for power generation itself. For this reason, thermal power plants are often located near water bodies and companies rely on these resources for the success of their business. Water usage and risk exposure will depend on the power generation source and cooling technology used by the power plant, as well as the location of the plant. Even fuels not typically associated with large water use can be water intensive. For example, depending on the cooling technology used, water withdrawals and consumption for Concentrated Solar Power can be of the same order as conventional power plants, while carbon capture and storage can almost double a plant's water withdrawals and consumption<sup>10</sup>. Furthermore, power generation plants face reputational risk from the impact that their activities can have on local water resources. For example, in many regions regulations dictate that plants must discharge water at the same or similar temperatures as those at which they withdrew it. Reservoirs and dams can also affect aquatic life and the hydrologic cycle.

| Cross-sector average       | Power Generation sector performance |  |
|----------------------------|-------------------------------------|--|
| Transparency 51%           | 41%                                 | Along with the Fossil Fuels sector, disclosure is lacking, w   |
| Governance & Strategy 40%  | 50%                                 | over half of requested companies failing to respond. Major non-responders include NextEra Energy, Inc., The South Company, and Xcel Energy Inc.  |
| Measuring & Monitoring 59% | 71%                                 | It is reassuring that the Power Generation sector perform on measuring and monitoring, given the sector's depende a stable supply of water. Robust monitoring allows compto plan for the future. For example, <b>EDP</b> reports that its widischarges were much lower in 2017 than in 2016 due to     |
| Risk Assessment 62%        | 68%                                 | drought in the Iberian Peninsula which caused a 47% dec<br>in hydro power generation. As hydro power generation ac<br>for more than 99% of EDP's discharges to fresh surface w<br>the company expects this downward trend in discharges<br>continue as it grows wind capacity in its generation portfo |
| Targets & Goals 29%        | 43%                                 | The Power Generation sector tops the table when it come setting water targets and goals. For example, by 2020, <b>En</b> aims to reduce water consumed per GWh by 30% from a   |
| Value Chain Engagement 40% |                                     | baseline, and <b>ENGIE</b> aims to reduce fresh water withdraw energy production by 15% by 2020. Investors must encount others in the sector to set ambitious goals.   |

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| esponse rate | Retail                          |        | 24%  | 6    |       |  |
|--------------|---------------------------------|--------|------|------|-------|--|
|              | Clothing Retail                 | 249    | 6    | 7/29 | I     |  |
|              | Department Stores               | 25% 1/ | 1    |      |       |  |
|              | Specialist Retailers            | 189    | 3/17 |      |       |  |
|              | Supermarkets, Food & Drugstores |        | 25%  |      | 17/67 |  |

#### How is water material to the Retail sector?

The Retail sector covers clothing, food and drug retail – a sector with a unique position to effect change in farming, production, manufacturing, and consumer behavior. While water use in direct operations may be limited to taps and toilets in stores, the production of food, textiles and pharmaceuticals in the value chain is water intensive and carries significant water pollution risks. The Retail sector enables agribusinesses to pump ever increasing amounts of non-renewable groundwater, it enables dyehouses to release toxic pollution, and it enables consumers to buy ever cheaper meat, but it can also be the key to changing all of this. Furthermore, retail locations and consumers themselves may be affected by drought or flood events, impacting on sales and business continuity.

Major responding retailers include **Gap Inc.**, which made the Water Security A List, **J Sainsbury plc** and **Inditex**. Transparency in this sector is low, but from the companies that did respond, we found that the most common water risks related to:

- Increased operating costs
- Reduction or disruption in production capacity
- Supply chain disruption
- Disruption to sales
- Reduced revenues from lower sales/output
- Company brand damage

The majority of these risks are expected to materialize within the next three years. For example, **Inditex** reported a potential financial impact of US\$288 million from the reputational risk associated with water pollution from viscose production.

Further, just thirteen retailers reported US\$291 million in water-related financial impacts over the reporting year. These impacts include increased capital costs, increased operating costs and reduced production capacity. For example, **J Sainsbury plc** reports that higher water prices directly impact their operational costs. Ofwat, the UK water regulator, sets price limits for customers that use less than 50 megaliters per annum but as a large water user, Sainsbury's is not subject to such price limits. In response, the company is investing US\$319,000 in reducing water consumption across its estate, by developing on-site rainwater harvesting and increasing water efficiency.



| Cross-sector average       | Retail<br>sector performance |
|----------------------------|------------------------------|
| Transparency 51%           | 24%                          |
| Governance & Strategy 40%  | 32%                          |
| Measuring & Monitoring 59% | 18%                          |
| Risk Assessment 62%        | 32%                          |
| Targets & Goals 29%        | 25%                          |
| Value Chain Engagement     | 54%                          |

Retail has the lowest disclosure rate of any sector, outstripping Fossil Fuels which has been the least transparent sector since CDP's Water Security program was launched in 2009. Major non-disclosing companies include **Costco Wholesale Corporation, Walgreens Boots Alliance,** and **TJX Companies, In.** Investors should expect greater transparency from retailers given the high dependence on water in the value chain.

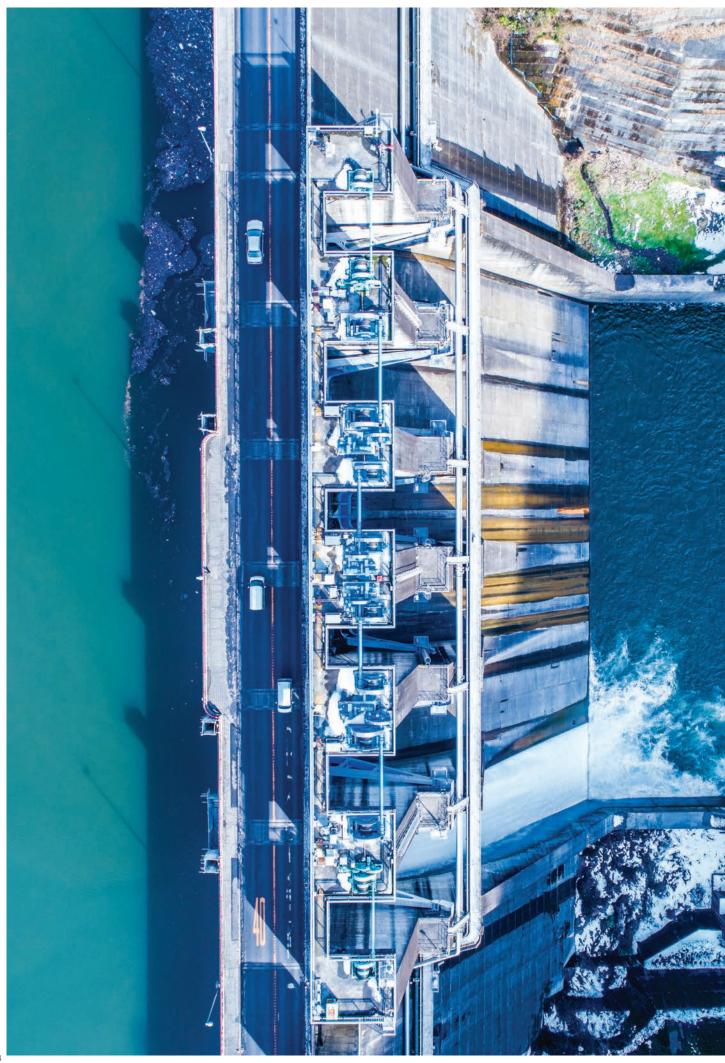
Retailers perform poorly when it comes to governance and strategy, second only to Hospitality, the worst performing sector. Companies in this sector are not treating water with the strategic importance it deserves, with just 36% of companies publishing a water policy and 50% integrating water issues into their financial planning. Investors should engage companies to raise the strategic importance of water among retail companies.

The sector is a clear laggard when it comes to measuring and monitoring, the worst of any sector. Direct water use among retailers can be low at individual sites, but when aggregated across the whole estate, retailers can be significant water users. As the majority of water use is embedded in the value chain, companies should also ensure that their suppliers have robust measuring and monitoring systems in place.

Retailers are not undertaking comprehensive assessments of the risks they may face, with the sector being the second worst performer on this metric. This should be a cause for investor concern, given that these companies rely on products from around the world, often from water-stressed areas.

Of the companies setting targets and goals in this sector, only 7% were related to supplier engagement. Given the importance of supplier engagement to this sector this is disappointing.

The Retail sector outperforms the cross-sector average, which is encouraging given that the majority of water-related impacts lie in the value chain, with consumers and suppliers. Investors must encourage all retailers to fully engage their value chain to build awareness of and resilience to water issues that could, if not properly managed, cause disruptions to business continuity.



# Appendices

## APPENDIX I: REPORT METHODOLOGY

#### **Overview**

In 2018, 4,969 companies were asked to provide data about their efforts to manage and govern freshwater resources through CDP. In total 2,114 companies responded, up from 1,432 in 2016.

1,536 of these were asked by their investors, while 3,837 were asked by their purchasing companies as part of CDP's Supply Chain program. The 783 companies responding to the investor request are the focus of this report.

#### **Sectors**

For the purposes of this report, respondents to CDP's 2018 water security questionnaire are divided into eleven sectors, defined by CDP's new Activity Classification System, which categorizes companies by the diverse activities from which they derive revenue, and associates these activities with how they impact on water security.

Response rates are based on responses received from companies that were sent CDP's 2018 water questionnaire. Companies that responded voluntarily, and subsidiary companies that respond through their parent companies are included in these calculations.

#### Metrics included in Global Insights and Analysis pp.11-16

#### Water withdrawals

To analyze trends in corporate water withdrawals, we examined 296 companies that have consistently reported water information through CDP between 2015 and 2018.

Question W1.2 was analyzed: For the reporting year, please provide total water withdrawal data by source, across your operations, specifically the column within the question that asks: "How does total water withdrawals for this source compare to the last reporting year?". Responses here help us to understand whether withdrawals were "higher" or "lower" than the previous reporting year.

To ensure that this statistic is robust, volumetric data (i.e. megaliters of water withdrawn) was <u>not</u> used due to the potential for the misreporting of absolute volumes (for example, if a company mistakenly reports in different units, or adds an extra zero).

#### Incentives

In 2018, we introduced a question on water performance incentives for the C-Suite in five high impact sectors: food, beverage and tobacco, metals and mining, oil and gas, electric utilities and chemicals. W6.4 Do you provide incentives to C-suite employees or board members for the management of water-related issues?

A total of 297 companies were presented with this question. The figures for risk exposure (77%), board-level oversight (93%) and incentives for water withdrawal reduction (31%) refer to this cohort of 297 companies.



#### Six key metrics analyzed in Sector summaries pp.16-32

| Key metric                | Description   | Questions analyzed from CDP's 2018 Water Security Questionnaire   |
|---------------------------|---|---|
| Transparency              | Does the company respond to the investor request for water-related information?   | Company performs on this metric if they have provided water-related information to their investors via CDP. Both public and non-public responses are counted, as well as voluntary and  |
| Governance<br>& Strategy  | Does the company:  have board-level oversight of water issues; integrate water into long-term business objectives and have a publicly available water policy?   | Company performs on this metric if they have answered 'yes' to: W6.2 Is there board level oversight of water-related issues within your organization? AND W7.1 Are water-related issues integrated into any aspects of your long-term strategic business plan, and if so how? AND W6.1 Does your organization have a water policy?  |
| Measuring<br>& Monitoring | Does the company measure all water aspects at 75% of their facilities?  | Company performs on this metric if they answer that they monitor the following at 75% of their facilities or more:  * total withdrawal volumes  * total discharge volumes  * quality of water withdrawals discharges;  * quality of water discharges;  * total water consumption;  * the provision of fully-functioning, safely managed Water, Sanitation and Hygiene (WASH) services to all workers.  This data is found in question W1.2 Across all your operations, what proportion of the following water aspects are regularly measured and monitored? |
| Risk<br>Assessment        | Does the company conduct a regular risk assessment including river basin management authorities?  | Company performs on this metric if they answer 'yes' to: W3.3 Does your organization undertake a water-related risk assessment? and if any of the following are selected in W3.3a  Six-monthly or more frequently  Annually  Every two years and selects 'river basin management authorities' in W3.3c Which of the following stakeholders are considered in your organization's water-related risk assessments?  |
| Targets<br>& Goals        | Does the company set company-<br>wide targets and/or goals that are<br>monitored at the corporate level<br>and<br>targets and goals for any two of the<br>following levels: business activity,<br>site/facility, brand, country, or river<br>basin. | Company performs on this metric if they answer in W8.1 Describe your approach to setting and monitoring water-related targets and/or goals, that they set targets and/or goals that are monitored at the corporate level and sets targets and goals for any two of the following levels: business activity, site/facility, brand, country, or river basin.  |
| Value chain engagement    | Does the company actively engage<br>their value chain (suppliers,<br>customers or other value chain<br>partners) on water-related issues?   | Company performs on this metric if in W1.4b Provide details of any other water-related supplier engagement activity, they select any of:  Onboarding & compliance Incentivizing for improved water management and stewardship Innovation & collaboration Other  |

#### **APPENDIX II: KEY INDICATORS BY SECTOR**

| Sector KPIs  | Apparel   | Biotech,<br>Health Care<br>& Pharma | Food, Beverage<br>& Agriculture | Fossil<br>Fuels |
|--|-----------|-------------------------------------|---------------------------------|-----------------|
| Disclosure   |           |                                     |                                 |                 |
| CDP Investor Program   |           |                                     |                                 |                 |
| Total companies responding to investor request for water information   | 13        | 64                                  | 94                              | 43              |
| Total companies requested for water information by investors   | 26        | 104                                 | 163                             | 138             |
| Response rate  | 50%       | 62%                                 | 58%                             | 31%             |
| Public responses   | 7         | 51                                  | 66                              | 29              |
| Private responses  | 6         | 13                                  | 28                              | 14              |
| CDP Supply Chain Program   |           |                                     |                                 |                 |
| Total companies responding to customer request for water information   | 2         | 18                                  | 42                              | 11              |
| Total companies requested for water information by customers   | 2         | 21                                  | 50                              | 23              |
| Water dependence   |           |                                     |                                 |                 |
| Respondents reporting that sufficient amounts of good quality freshwater available for use is 'vital' or 'important' for their direct operations   | 62%       | 95%                                 | 97%                             | 71%             |
| Respondents reporting that sufficient amounts of good quality freshwater available for use is 'vital' or 'important' for their indirect operations | 69%       | 84%                                 | 93%                             | 43%             |
| Water accounting   |           |                                     |                                 |                 |
| Respondents that monitor total water withdrawal volumes at more than 75% of facilities   | 54%       | 84%                                 | 96%                             | 79%             |
| Respondents that monitor total water consumption volumes at more than 75% of facilities  | 31%       | 76%                                 | 88%                             | 74%             |
| Respondents that monitor total water discharge volumes at more than 75% of facilities  | 46%       | 79%                                 | 89%                             | 71%             |
| Respondents that monitor water recycling/reuse at more than 75% of facilities  | 8%        | 37%                                 | 44%                             | 52%             |
| Respondents reporting withdrawals from water-stressed areas  | 23%       | 60%                                 | 74%                             | 50%             |
| Value chain engagement   |           |                                     |                                 |                 |
| Respondents engaging their value chain on water-related issues   | 55%       | 47%                                 | 53%                             | 21%             |
| Business impacts   |           |                                     |                                 |                 |
| Respondents that have experienced detrimental water-related business impacts in the reporting year   | 23%       | 19%                                 | 39%                             | 31%             |
| Total financial value of impacts (USD)   | \$300,020 | \$3,523,488,748                     | \$99,687,163                    | \$344,040,635   |
| Respondents subject to penalties, fines and/or enforcement orders  | 0%        | 8%                                  | 29%                             | 24%             |
| Total value of reported penalties, fines and/or enforcement orders   | \$-       | \$8,389                             | \$3,850,238                     | \$6,881,301     |
| Water risk assessment  |           |                                     |                                 |                 |
| Respondents that undertake a water-related risk assessment   | 85%       | 90%                                 | 89%                             | 86%             |
| Respondents that undertake a water risk assessment with a specified frequency  | 77%       | 84%                                 | 81%                             | 74%             |
| Respondents that factor water availability at a basin/catchment level into water risk assessments  | 100%      | 89%                                 | 96%                             | 94%             |
| Respondents that factor water quality at a basin/catchment level into water risk assessments   | 90%       | 83%                                 | 91%                             | 91%             |
| Respondents that factor stakeholder conflicts concerning water resources at a basin/catchment level into water risk assessments                    | 70%       | 69%                                 | 89%                             | 88%             |
| Respondents that factor implications of water on key commodities/raw materials into water risk assessments   | 90%       | 80%                                 | 84%                             | 70%             |
| Respondents that factor water-related regulatory frameworks into water risk assessments  | 100%      | 94%                                 | 92%                             | 100%            |
| Respondents that factor status of ecosystems and habitats into water risk assessments  | 60%       | 72%                                 | 75%                             | 94%             |
| Respondents that factor access to fully-functioning, safely managed WASH services for all employees into water risk assessments                    | 90%       | 85%                                 | 72%                             | 76%             |
| Respondents that factor customers into water risk assessments  | 70%       | 85%                                 | 80%                             | 67%             |
| Respondents that factor employees into water risk assessments  | 90%       | 91%                                 | 82%                             | 88%             |

| Hospitality  | Infrastructure  | Manufacturing   | Materials     | Mineral<br>Extraction | Power<br>Generation | Retail        | Services      | Transportation<br>Services | 1 Total          |
|--------------|-----------------|-----------------|---------------|-----------------------|---------------------|---------------|---------------|----------------------------|------------------|
|              |                 |                 |               |                       |                     |               |               |                            |                  |
| 17           | 44              | 304             | 60            | 32                    | 29                  | 28            | 47            | 8                          | 783              |
| 34           | 107             | 503             | 123           | 65                    | 70                  | 117           | 69            | 16                         | 1535             |
| 50%          | 41%             | 60%             | 49%           | 49%                   | 41%                 | 24%           | 68%           | 50%                        | 51%              |
| 12           | 30              | 229             | 45            | 28                    | 26                  | 19            | 34            | 6                          | 582              |
| 5            | 14              | 75              | 15            | 4                     | 3                   | 9             | 13            | 2                          | 201              |
|              |                 |                 |               |                       |                     |               |               |                            |                  |
| 5            | 18              | 221             | 29            | 3                     | 8                   | 2             | 28            | 2                          | 389              |
| 7            | 23              | 268             | 43            | 3                     | 10                  | 5             | 25            | 2                          | 482              |
|              |                 |                 |               |                       |                     |               |               |                            |                  |
| 94%          | 86%             | 83%             | 93%           | 75%                   | 100%                | 57%           | 65%           | 75%                        | 84%              |
| 88%          | 60%             | 70%             | 79%           | 53%                   | 50%                 | 64%           | 59%           | 63%                        | 70%              |
| 0070         | 00%             | 7070            | 7 3 70        | 0070                  | 00%                 | 0 170         | 03/0          | 0070                       | 7070             |
| 88%          | 83%             | 89%             | 97%           | 100%                  | 100%                | 50%           | 61%           | 75%                        | 86%              |
| 63%          | 71%             | 75%             | 90%           | 97%                   | 100%                | 36%           | 46%           | 88%                        | 75%              |
| 63%          | 74%             | 75%             | 91%           | 97%                   | 96%                 | 46%           | 50%           | 63%                        | 76%              |
| 25%          | 39%             | 48%             | 57%           | 88%                   | 64%                 | 18%           | 22%           | 25%                        | 45%              |
| 50%          | 38%             | 62%             | 59%           | 63%                   | 39%                 | 46%           | 39%           | 38%                        | 57%              |
|              |                 |                 |               |                       |                     |               |               |                            |                  |
| 50%          | 29%             | 39%             | 42%           | 23%                   | 41%                 | 54%           | 38%           | 0%                         | 40%              |
|              |                 |                 |               |                       |                     |               |               |                            |                  |
| 56%          | 33%             | 19%             | 26%           | 44%                   | 25%                 | 39%           | 24%           | 25%                        | 26%              |
| \$26,929,117 | \$1,650,458,236 | \$1,636,791,310 | \$294,880,413 | \$20,582,925,447      | \$9,857,418,888     | \$291,369,678 | \$218,658,883 | \$7,060,000                | \$38,534,008,539 |
| 13%          | 29%             | 12%             | 21%           | 22%                   | 25%                 | 14%           | 0%            | 25%                        | 16%              |
| \$6,720      | \$6,985,941     | \$2,508,932     | \$1,084,165   | \$6,331,176           | \$38,892            | \$138,976     | \$-           | \$80,144,200               | \$107,978,932    |
| 000          | 000             | 0.00            | 070           | 1000                  | 000                 | C 40.         | 0.00          | 750                        | 0.00             |
| 88%          | 93%             | 90%             | 97%           | 100%                  | 93%                 | 64%           | 80%           | 75%                        | 89%              |
| 63%          | 83%             | 83%             | 90%           | 94%                   | 93%                 | 50%           | 76%           | 75%                        | 82%              |
| 100%         | 97%             | 94%             | 96%           | 100%                  | 96%                 | 94%           | 86%           | 100%                       | 94%              |
| 100%         | 92%             | 89%             | 95%           | 94%                   | 100%                | 82%           | 83%           | 100%                       | 90%              |
| 46%          | 86%             | 77%             | 89%           | 94%                   | 96%                 | 65%           | 83%           | 83%                        | 81%              |
| 69%          | 72%             | 73%             | 86%           | 74%                   | 84%                 | 76%           | 81%           | 67%                        | 77%              |
| 77%          | 94%             | 92%             | 100%          | 94%                   | 100%                | 88%           | 94%           | 100%                       | 94%              |
| 62%          | 94%             | 76%             | 84%           | 100%                  | 100%                | 65%           | 75%           | 100%                       | 80%              |
| 69%          | 81%             | 86%             | 89%           | 90%                   | 76%                 | 65%           | 94%           | 83%                        | 83%              |
| 92%          | 89%             | 84%             | 82%           | 39%                   | 92%                 | 82%           | 81%           | 100%                       | 81%              |
| 92%          | 91%             | 90%             | 93%           | 97%                   | 96%                 | 76%           | 94%           | 83%                        | 90%              |

#### **APPENDIX II: KEY INDICATORS BY SECTOR**

| Sector KPIs   | Apparel | Biotech,<br>Health Care<br>& Pharma | Food, Beverage<br>& Agriculture | Fossil<br>Fuels |
|---|---------|-------------------------------------|---------------------------------|-----------------|
| Respondents that factor investors into water risk assessments   | 80%     | 87%                                 | 86%                             | 91%             |
| Respondents that factor local communities into water risk assessments                                     | 100%    | 94%                                 | 86%                             | 100%            |
| Respondents that factor NGO's into water risk assessments   | 70%     | 72%                                 | 76%                             | 82%             |
| Respondents that factor other water users at a basin/catchment level into water risk assessments          | 80%     | 69%                                 | 81%                             | 91%             |
| Respondents that factor regulators into water risk assessments  | 90%     | 93%                                 | 91%                             | 100%            |
| Respondents that factor river basin management authorities into water risk assessments                    | 90%     | 70%                                 | 77%                             | 88%             |
| Respondents that factor statutory special interest groups at a local level into water risk assessments    | 60%     | 57%                                 | 65%                             | 82%             |
| Respondents that factor suppliers into water risk assessments   | 80%     | 83%                                 | 81%                             | 79%             |
| Respondents that factor water utilities at a local level into water risk assessments                      | 90%     | 78%                                 | 78%                             | 79%             |
| Water risks   |         |                                     |                                 |                 |
| Respondents exposed to substantive water risk either direct operations or along the value chain           | 54%     | 56%                                 | 81%                             | 69%             |
| Respondents exposed to substantive water risk in direct operations only                                   | 15%     | 21%                                 | 30%                             | 45%             |
| Respondents exposed to substantive water risk in the value chain only                                     | 15%     | 0%                                  | 3%                              | 2%              |
| Percentage of risks that are physical   | 82%     | 76%                                 | 86%                             | 69%             |
| Percentage of risks that are regulatory   | 18%     | 16%                                 | 9%                              | 25%             |
| Percentage of risks that are reputational   | 0%      | 7%                                  | 5%                              | 6%              |
| Percentage of risks that are technological  | 0%      | 1%                                  | 0%                              | 0%              |
| Respondents reporting >50% of facilities at risk  | 8%      | 18%                                 | 11%                             | 26%             |
| Water opportunities   |         |                                     |                                 |                 |
| Respondents that identify and are realizing water-related opportunities                                   | 69%     | 71%                                 | 76%                             | 69%             |
| Percentage of water opportunities relating to water efficiency  | 39%     | 47%                                 | 44%                             | 53%             |
| Percentage of water opportunities relating to resilience  | 26%     | 23%                                 | 19%                             | 8%              |
| Percentage of water opportunities relating to products and services                                       | 22%     | 18%                                 | 12%                             | 9%              |
| Percentage of water opportunities relating to markets   | 9%      | 8%                                  | 16%                             | 19%             |
| Governance & strategy   |         |                                     |                                 |                 |
| Respondents with a documented water policy that is publicly available                                     | 62%     | 71%                                 | 69%                             | 55%             |
| Respondents with board-level oversight of water issues  | 85%     | 76%                                 | 91%                             | 90%             |
| Respondents that integrate water-related issues into long-term business objectives                        | 62%     | 66%                                 | 72%                             | 67%             |
| Respondents that integrate water-related issues into their strategy for achieving long-term objectives    | 62%     | 66%                                 | 71%                             | 64%             |
| Respondents that integrate water-related issues into financial planning                                   | 46%     | 52%                                 | 62%                             | 62%             |
| Respondents whose water-related CAPEX increased in the reporting year                                     | 27%     | 27%                                 | 33%                             | 24%             |
| Respondents whose water-related OPEX increased in the reporting year                                      | 36%     | 34%                                 | 34%                             | 21%             |
| Respondents using climate-related scenario analysis to inform business strategy                           | 45%     | 37%                                 | 45%                             | 61%             |
| Respondents identifying water-related outcomes from climate scenario analysis                             | 27%     | 15%                                 | 38%                             | 29%             |
| Respondents using an internal price on water  | 9%      | 12%                                 | 15%                             | 29%             |
| Targets & goals   |         |                                     |                                 |                 |
| Respondents with targets and goals that are monitored at the corporate level                              | 54%     | 52%                                 | 56%                             | 45%             |
| Respondents setting water intensity reduction targets   | 36%     | 4%                                  | 27%                             | 16%             |
| Respondents setting supplier engagement targets   | 0%      | 2%                                  | 1%                              | 0%              |
| Respondents setting Water, Sanitation & Hygiene (WASH) targets  | 0%      | 0%                                  | 8%                              | 0%              |
| Linkages & trade-offs   |         |                                     |                                 |                 |
| Respondents that have identified any linkages or trade-offs between water and other environmental impacts | 82%     | 75%                                 | 87%                             | 79%             |

| Hospitality | Infrastructure | Manufacturing | Materials | Mineral<br>Extraction | Power<br>Generation | Retail | Services | Transportation<br>Services | Total |
|-------------|----------------|---------------|-----------|-----------------------|---------------------|--------|----------|----------------------------|-------|
| 85%         | 83%            | 75%           | 89%       | 97%                   | 96%                 | 88%    | 78%      | 83%                        | 82%   |
| 69%         | 94%            | 89%           | 91%       | 100%                  | 100%                | 82%    | 89%      | 100%                       | 91%   |
| 77%         | 86%            | 68%           | 80%       | 90%                   | 92%                 | 65%    | 72%      | 100%                       | 75%   |
| 69%         | 74%            | 69%           | 82%       | 94%                   | 84%                 | 65%    | 69%      | 83%                        | 75%   |
| 77%         | 94%            | 91%           | 98%       | 100%                  | 100%                | 94%    | 83%      | 100%                       | 93%   |
| 38%         | 86%            | 75%           | 88%       | 81%                   | 76%                 | 53%    | 61%      | 83%                        | 76%   |
| 46%         | 71%            | 59%           | 75%       | 87%                   | 80%                 | 35%    | 44%      | 67%                        | 63%   |
| 77%         | 77%            | 76%           | 80%       | 52%                   | 72%                 | 82%    | 75%      | 67%                        | 77%   |
| 69%         | 77%            | 83%           | 73%       | 81%                   | 92%                 | 65%    | 72%      | 83%                        | 80%   |
|             |                |               |           |                       |                     |        |          |                            |       |
| 56%         | 73%            | 61%           | 76%       | 91%                   | 86%                 | 57%    | 50%      | 50%                        | 66%   |
| 13%         | 36%            | 26%           | 26%       | 53%                   | 43%                 | 11%    | 28%      | 13%                        | 28%   |
| 6%          | 2%             | 2%            | 0%        | 0%                    | 0%                  | 21%    | 0%       | 0%                         | 3%    |
| 97%         | 72%            | 77%           | 73%       | 78%                   | 64%                 | 79%    | 67%      | 56%                        | 76%   |
| 3%          | 20%            | 18%           | 22%       | 14%                   | 30%                 | 14%    | 13%      | 22%                        | 17%   |
| 0%          | 8%             | 5%            | 5%        | 8%                    | 5%                  | 7%     | 18%      | 22%                        | 6%    |
| 0%          | 0%             | 0%            | 1%        | 0%                    | 0%                  | 0%     | 1%       | 0%                         | 0%    |
| 19%         | 19%            | 11%           | 22%       | 66%                   | 32%                 | 18%    | 24%      | 38%                        | 18%   |
|             |                |               |           |                       |                     |        |          |                            |       |
| 63%         | 81%            | 69%           | 78%       | 78%                   | 89%                 | 61%    | 74%      | 75%                        | 72%   |
| 39%         | 25%            | 35%           | 44%       | 46%                   | 45%                 | 38%    | 23%      | 41%                        | 39%   |
| 17%         | 12%            | 8%            | 9%        | 11%                   | 4%                  | 18%    | 12%      | 18%                        | 12%   |
| 9%          | 32%            | 38%           | 23%       | 4%                    | 18%                 | 20%    | 43%      | 18%                        | 25%   |
| 26%         | 18%            | 14%           | 16%       | 32%                   | 20%                 | 23%    | 20%      | 24%                        | 17%   |
|             |                |               |           |                       |                     |        |          |                            |       |
| 63%         | 76%            | 69%           | 67%       | 50%                   | 68%                 | 36%    | 67%      | 88%                        | 66%   |
| 94%         | 88%            | 84%           | 86%       | 97%                   | 100%                | 71%    | 80%      | 88%                        | 86%   |
| 56%         | 76%            | 58%           | 84%       | 94%                   | 86%                 | 50%    | 50%      | 63%                        | 66%   |
| 56%         | 74%            | 59%           | 84%       | 84%                   | 86%                 | 50%    | 50%      | 50%                        | 65%   |
| 44%         | 64%            | 48%           | 69%       | 88%                   | 82%                 | 50%    | 54%      | 50%                        | 57%   |
| 29%         | 24%            | 30%           | 42%       | 29%                   | 26%                 | 21%    | 26%      | 38%                        | 30%   |
| 50%         | 21%            | 33%           | 42%       | 35%                   | 19%                 | 25%    | 38%      | 50%                        | 33%   |
| 29%         | 63%            | 40%           | 54%       | 39%                   | 74%                 | 29%    | 43%      | 50%                        | 45%   |
| 21%         | 47%            | 25%           | 37%       | 35%                   | 37%                 | 17%    | 31%      | 13%                        | 29%   |
| 0%          | 8%             | 13%           | 14%       | 6%                    | 11%                 | 4%     | 5%       | 13%                        | 13%   |
|             |                |               |           |                       |                     |        |          |                            |       |
| 50%         | 45%            | 46%           | 53%       | 47%                   | 68%                 | 43%    | 46%      | 50%                        | 49%   |
| 9%          | 4%             | 12%           | 13%       | 5%                    | 17%                 | 13%    | 3%       | 14%                        | 13%   |
| 0%          | 4%             | 1%            | 0%        | 0%                    | 4%                  | 7%     | 0%       | 0%                         | 1%    |
| 0%          | 0%             | 2%            | 2%        | 0%                    | 4%                  | 0%     | 3%       | 0%                         | 2%    |
| 86%         | 87%            | 70%           | 75%       | 90%                   | 93%                 | 67%    | 62%      | 50%                        | 76%   |

#### **APPENDIX III: KEY INDICATORS BY GEOGRAPHY**

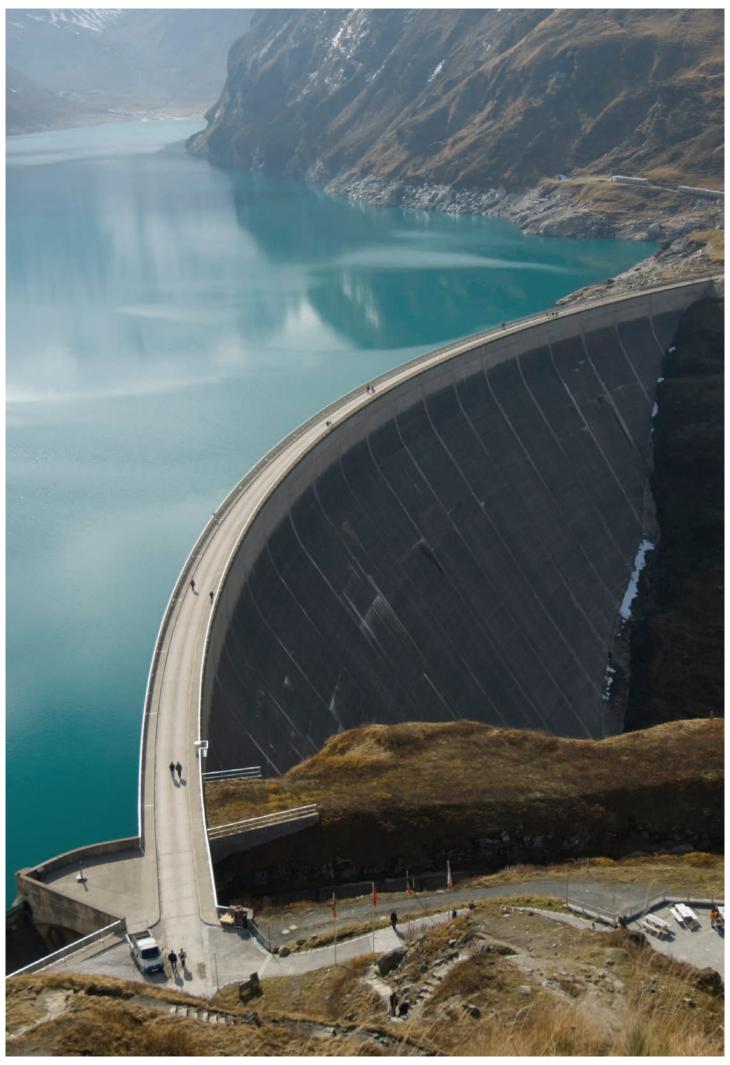
| Total companies responding to investor request for water information by investors 48 27 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1  | Geographic KPIs  | Australia   | Brazil           |
|--|--|-------------|------------------|
| Total companies responding to investor request for water information by investors 48 27 Responder are 48 27 Responder are 48 27 Responder are 48 27 Responder are 48 28 27 Responder are 48 28 27 Responder are 48 28 28 28 28 28 28 28 28 28 28 28 28 28  | Disclosure   |             |                  |
| Total companies requested for water information by investors 49 77 Response rate 38 76 8 77 8 Pepublic responses 15 9 9 Private responses 3 10 15 9 9 Private responses 3 10 15 9 9 Private responses 3 10 10 8 9 Private responses 5 15 158 8 9 Private responses 5 15 158 9 Private responses 5 158 9 Private responses 5 158 9 Private responses 5 158 9 Private responses 6 Private Program 5 Private Private Program 5 Private P   | CDP Investor Program   |             |                  |
| Responder rate 988, 70% Public responses 15 99 Private responses 3 15 99 Private responses 3 16 15 99 Private responses 3 16 15 99 Private responses 9 15 15 99 Private responses 9 15 15 80 158 Private responses 9 15 158 Private response protein that sufficient amounts of good quality freshwater available for use is 'vital' or 'important for their direct operations 9 89% 89% 89% 89% 89% 89% 89% 89% 89% 8   | Total companies responding to investor request for water information   | 18          | 19               |
| Problem responses 15 9 15 9 17 10 15 15 15 15 15 15 15 15 15 15 15 15 15   | Total companies requested for water information by investors   | 48          | 27               |
| Private responses 3 10 10 10 10 10 10 10 10 10 10 10 10 10   | Response rate  | 38%         | 70%              |
| Total companies responding to customer request for water information 5 158 Month of the product of pending the customer request for water information 5 158 Month of the product of pending that sufficient amounts of good quality freshwater available for use is 'vital' or 'mportant for their direct operations (Perspondents reporting that sufficient amounts of good quality freshwater available for use is 'vital' or 'mportant for their indirect operations (Perspondents their indirect operations) (Perspondents their indirect operations) (Perspondents their indirect operations) (Perspondents their monitor total water withfrawal volumes at more than 75% of facilities (Perspondents that monitor total water consumption volumes at more than 75% of facilities (Perspondents that monitor total water discharge volumes at more than 75% of facilities (Perspondents that monitor volat water discharge volumes at more than 75% of facilities (Perspondents that monitor vater recycling/reuse at more than 75% of facilities (Perspondents that monitor water recycling/reuse at more than 75% of facilities (Perspondents that monitor water recycling/reuse at more than 75% of facilities (Perspondents engaging their value chain on water-related issues (Perspondents that have experienced detrimental water-related respondents (Perspondents that have experienced detrimental water-related related (Perspondents that have experienced detrimental water-related related (Perspondents that have experienced detrimental water-related related (Perspondents that factor water evailability at a basin/catchment level into water risk assessments (Perspondents that factor water evailability at a basin/catchment level into water risk assessments (Perspondents that factor water evailability at a basin/catchment level into water risk assessments (Perspondents that factor w   | Public responses   | 15          | 9                |
| Total companies responding to customer request for water information 5 158 et  Water dependence Respondents reporting that sufficient amounts of good quality freshwater available for use is 'vital' or  important' for their direct operations Respondents reporting that sufficient amounts of good quality freshwater available for use is 'vital' or  important' for their indirect operations Respondents perporting that sufficient amounts of good quality freshwater available for use is 'vital' or  important' for their indirect operations Water accounting Respondents that monitor total water withdrawal volumes at more than 75% of facilities 94% 89% 89% 89% 89% 89% 89% 89% 89% 89% 89   | Private responses  | 3           | 10               |
| Respondents reporting that sufficient amounts of good quality freshwater available for use is 'vital' or 'important' for their direct operations Respondents reporting that sufficient amounts of good quality freshwater available for use is 'vital' or 'important' for their indirect operations Respondents reporting that sufficient amounts of good quality freshwater available for use is 'vital' or 'important' for their indirect operations  Water accounting Respondents that monitor total water withdrawal volumes at more than 75% of facilities Respondents that monitor total water consumption volumes at more than 75% of facilities Respondents that monitor total water discharge volumes at more than 75% of facilities Respondents that monitor total water discharge volumes at more than 75% of facilities Respondents that monitor total water discharge volumes at more than 75% of facilities Respondents that monitor total water affects are well and 75% of facilities Respondents that monitor vater recycling/reuse at more than 75% of facilities Respondents that monitor vater recycling/reuse at more than 75% of facilities Respondents that monitor water recycling/reuse at more than 75% of facilities Respondents that promiting water as a second of 15% of 75% Respondents that the reporting water related issues  188 27% Respondents engaging their value chain on water-related issues  189 28% Respondents that have experienced detrimental water-related business impacts in the reporting year  189 28% Respondents subject to penalties, fines and/or enforcement orders  189 28% 1804 1804 1804 1804 1804 1804 1804 1804   | CDP Supply Chain Program   |             |                  |
| Respondents reporting that sufficient amounts of good quality freshwater available for use is 'vital' or 'mportant' for their direct operations (Respondents reporting that sufficient amounts of good quality freshwater available for use is 'vital' or 'mportant' for their indirect operations  **Respondents that poor they have a first indirect operations  **Respondents that monitor total water withdrawal volumes at more than 75% of facilities (Park 1944) (Park  | Total companies responding to customer request for water information   | 5           | 158              |
| important for their direct operations Respondents reporting that sufficient amounts of good quality freshwater available for use is 'vital' or 'mimportant' for their indirect operations  Water accounting Respondents that monitor total water withdrawal volumes at more than 75% of facilities  Respondents that monitor total water consumption volumes at more than 75% of facilities  83% 72% Respondents that monitor total water discharge volumes at more than 75% of facilities  83% 78% Respondents that monitor total water discharge volumes at more than 75% of facilities  85% 67% Respondents that monitor votal water discharge volumes at more than 75% of facilities  85% 67% Respondents that monitor votal water discharge volumes at more than 75% of facilities  86% 67% Respondents that monitor votal water discharge volumes at more than 75% of facilities  86% 67% Respondents that monitor votal water discharge volumes at more than 75% of facilities  86% 67% Respondents that monitor votal water discharge volumes at more than 75% of facilities  87% 80% Respondents reporting withdrawals from water-stressed areas  87% 80% Respondents reporting withdrawals from water-stressed areas  88% 27%  88usiness impacts  88% 27%  88usiness impacts  88% 39%  88% 39%  88% 39%  88% 39% 30%  88% 39% 30% 30%  88% 39% 30% 30%  88% 39% 30% 30%  88% 39% 30% 30%  88% 39% 30% 30%  88% 39% 30% 30%  88% 39% 30% 30%  88% 39% 30% 30%  88% 39% 30% 30%  88% 39% 30% 30%  88% 39% 30% 30%  88% 39% 30%  88% 39% 30%  88% 39% 30%  88% 39% 30%  88% 39% 30%  88% 39% 30%  88% 39% 30%  88% 39% 30%  88% 39% 30%  88% 39% 30%  88% 39% 30%  88% 39% 30%  88% 39% 30%  88% 39% 30%  88% 39% 30%  88% 39% 30%  88% 30%  88% 30% 30%  88% 30%  88   | Water dependence   |             |                  |
| Timportant for their indirect operations 72% 85% Water accounting  Respondents that monitor total water withdrawal volumes at more than 75% of facilities 87% 72% Respondents that monitor total water discharge volumes at more than 75% of facilities 83% 72% Respondents that monitor total water discharge volumes at more than 75% of facilities 83% 78% 78% Respondents that monitor water recycling/reuse at more than 75% of facilities 56% 67% 88 Respondents that monitor water recycling/reuse at more than 75% of facilities 56% 67% 88 Respondents reporting withdrawals from water-stressed areas 61% 67% 70% 70% 70% 70% 70% 70% 70% 70% 70% 7  | Respondents reporting that sufficient amounts of good quality freshwater available for use is 'vital' or 'important' for their direct operations   | 89%         | 89%              |
| Respondents that monitor total water withdrawal volumes at more than 75% of facilities 83% 72% 82% 82% 82% 82% 82% 82% 82% 82% 82% 8   | Respondents reporting that sufficient amounts of good quality freshwater available for use is 'vital' or 'important' for their indirect operations | 72%         | 83%              |
| Respondents that monitor total water consumption volumes at more than 75% of facilities 83% 72% 78% 78% 78% 78% 78% 78% 78% 78% 78% 78   | Water accounting   |             |                  |
| Respondents that monitor total water discharge volumes at more than 75% of facilities 56% 67% 67% Respondents that monitor water recycling/reuse at more than 75% of facilities 56% 67% 67% Respondents reporting withdrawals from water-stressed areas 61% 67% 67% 67% 67% 67% 67% 67% 67% 67% 67   | Respondents that monitor total water withdrawal volumes at more than 75% of facilities   | 94%         | 89%              |
| Respondents that monitor water recycling/reuse at more than 75% of facilities 56% 67% 67% Respondents reporting withdrawals from water-stressed areas 61% 67% 70% 70% 70% 70% 70% 70% 70% 70% 70% 7  | Respondents that monitor total water consumption volumes at more than 75% of facilities  | 83%         | 72%              |
| Respondents reporting withdrawals from water-stressed areas 61% 67% Value chain engagement Respondents engaging their value chain on water-related issues 18 18% 27% Business Impacts  Respondents that have experienced detrimental water-related business impacts in the reporting year 28% 39% Total financial value of impacts (USD) \$7,202,372 \$20,261,242,173 \$20,261,24 | Respondents that monitor total water discharge volumes at more than 75% of facilities  | 83%         | 78%              |
| Value chain engagement Respondents engaging their value chain on water-related issues  Business impacts Respondents that have experienced detrimental water-related business impacts in the reporting year  Total financial value of impacts (USD)  Total financial value of impacts (USD)  Total value of impacts (USD)  Respondents subject to penalties, fines and/or enforcement orders  Total value of reported penalties, fines and/or enforcement orders  Total value of reported penalties, fines and/or enforcement orders  Total value of reported penalties, fines and/or enforcement orders  Respondents that undertake a water-related risk assessment  Respondents that undertake a water-related risk assessment  Respondents that undertake a water risk assessment with a specified frequency  Respondents that factor water availability at a basin/catchment level into water risk assessments  Respondents that factor water availability at a basin/catchment level into water risk assessments  Respondents that factor water quality at a basin/catchment level into water risk assessments  Respondents that factor water quality at a basin/catchment level into water risk assessments  Respondents that factor stakeholder conflicts concerning water resources at a basin/catchment level into water risk assessments  Respondents that factor stakeholder conflicts concerning water resources at a basin/catchment level into water risk assessments  Respondents that factor water-related regulatory frameworks into water risk assessments  Respondents that factor water-related regulatory frameworks into water risk assessments  Respondents that factor access to fully-functioning, safely managed WASH services for all employees into water access to fully-functioning, safely managed WASH services for all employees into water factor employees into water risk assessments  Respondents that factor customers into water risk assessments  Respondents that factor employees into water risk assessments  Respondents that factor employees into water risk assessments  | Respondents that monitor water recycling/reuse at more than 75% of facilities  | 56%         | 67%              |
| Respondents engaging their value chain on water-related issues  Business impacts  Respondents that have experienced detrimental water-related business impacts in the reporting year  Respondents that have experienced detrimental water-related business impacts in the reporting year  Respondents that have experienced detrimental water-related business impacts in the reporting year  Respondents that have experienced detrimental water-related business impacts in the reporting year  Respondents subject to penalties, fines and/or enforcement orders  Respondents subject to penalties, fines and/or enforcement orders  Respondents that under applications, fines and/or enforcement orders  Respondents that undertake a water-related risk assessment  Respondents that undertake a water risk assessment with a specified frequency  Respondents that factor water availability at a basin/catchment level into water risk assessments  Respondents that factor water quality at a basin/catchment level into water risk assessments  100%  Respondents that factor stakeholder conflicts concerning water resources at a basin/catchment level into water risk assessments  Respondents that factor implications of water on your key commodities/raw materials into water risk assessments  Respondents that factor water-related regulatory frameworks into water risk assessments  Respondents that factor status of ecosystems and habitats into water risk assessments  Respondents that factor access to fully-functioning, safely managed WASH services for all employees into water fisk assessments  Respondents that factor customers into water risk assessments  Respondents that factor employees into water risk assessments   | Respondents reporting withdrawals from water-stressed areas  | 61%         | 67%              |
| Respondents that have experienced detrimental water-related business impacts in the reporting year 28% 39% Total financial value of impacts (USD) \$7,202,372 \$20,261,242,173 Respondents subject to penalties, fines and/or enforcement orders 28% 39% Total value of reported penalties, fines and/or enforcement orders 8830,657 \$4,865,391 Water risk assessment Respondents that undertake a water-related risk assessment 89% 83% Respondents that undertake a water risk assessment with a specified frequency 82% 100% Respondents that undertake a water risk assessment level into water risk assessments 100% 100% Respondents that factor water availability at a basin/catchment level into water risk assessments 100% 100% Respondents that factor stakeholder conflicts concerning water resources at a basin/catchment level into water risk assessments Respondents that factor implications of water on your key commodities/raw materials into water risk assessments Respondents that factor water-related regulatory frameworks into water risk assessments 100% 100% Respondents that factor status of ecosystems and habitats into water risk assessments 80% 92% Respondents that factor access to fully-functioning, safely managed WASH services for all employees into water risk assessments Respondents that factor access to fully-functioning, safely managed WASH services for all employees into water risk assessments Respondents that factor customers into water risk assessments 67% 92% Respondents that factor employees into water risk assessments  | Value chain engagement   |             |                  |
| Respondents that have experienced detrimental water-related business impacts in the reporting year 28% 39%  Total financial value of impacts (USD) \$7,202,372 \$20,261,242,173  Respondents subject to penalties, fines and/or enforcement orders 28% 39%  Total value of reported penalties, fines and/or enforcement orders \$830,657 \$4,865,391  Water risk assessment  Respondents that undertake a water-related risk assessment 89% 83%  Respondents that undertake a water risk assessment with a specified frequency 82% 100%  Respondents that factor water availability at a basin/catchment level into water risk assessments 100% 100%  Respondents that factor water quality at a basin/catchment level into water risk assessments 100% 100%  Respondents that factor stakeholder conflicts concerning water resources at a basin/catchment level into water risk assessments  Respondents that factor implications of water on your key commodities/raw materials into water risk assessments  Respondents that factor water-related regulatory frameworks into water risk assessments 100% 100%  Respondents that factor status of ecosystems and habitats into water risk assessments 80% 92%  Respondents that factor access to fully-functioning, safely managed WASH services for all employees into water risk assessments  Respondents that factor customers into water risk assessments 67% 92%  Respondents that factor employees into water risk assessments  Respondents that factor employees into water risk assessments   | Respondents engaging their value chain on water-related issues   | 18%         | 27%              |
| Total financial value of impacts (USD)  Respondents subject to penalties, fines and/or enforcement orders  28% 39% Total value of reported penalties, fines and/or enforcement orders  8830,657 \$4,865,391  Water risk assessment  Respondents that undertake a water-related risk assessment  Respondents that undertake a water risk assessment with a specified frequency  82% 100% Respondents that factor water availability at a basin/catchment level into water risk assessments  100% 100% Respondents that factor water quality at a basin/catchment level into water risk assessments 100% 100% Respondents that factor stakeholder conflicts concerning water resources at a basin/catchment level into water risk assessments  Respondents that factor implications of water on your key commodities/raw materials into water risk assessments  Respondents that factor water-related regulatory frameworks into water risk assessments  100% 100% Respondents that factor status of ecosystems and habitats into water risk assessments 100% 100% Respondents that factor status of ecosystems and habitats into water risk assessments 100% 100% Respondents that factor customers into water risk assessments 100% 100% 100% 100% 100% 100% 100% 100  | Business impacts   |             |                  |
| Respondents subject to penalties, fines and/or enforcement orders \$830,657 \$4,865,391  Water risk assessment Respondents that undertake a water-related risk assessment with a specified frequency 82% 100% Respondents that factor water availability at a basin/catchment level into water risk assessments 100% 100% Respondents that factor water quality at a basin/catchment level into water risk assessments 100% 100% Respondents that factor stakeholder conflicts concerning water resources at a basin/catchment level into water risk assessments 100% 100% Respondents that factor implications of water on your key commodities/raw materials into water risk assessments 93% 85% Respondents that factor water-related regulatory frameworks into water risk assessments 100% 100% Respondents that factor status of ecosystems and habitats into water risk assessments 80% 92% Respondents that factor access to fully-functioning, safely managed WASH services for all employees into water risk assessments Respondents that factor customers into water risk assessments 93% 92% Respondents that factor customers into water risk assessments 93% 92% Respondents that factor employees into water risk assessments 93% 92%   | Respondents that have experienced detrimental water-related business impacts in the reporting year   | 28%         | 39%              |
| Total value of reported penalties, fines and/or enforcement orders  Water risk assessment  Respondents that undertake a water-related risk assessment  Respondents that undertake a water risk assessment with a specified frequency  Respondents that factor water availability at a basin/catchment level into water risk assessments  100%  Respondents that factor water quality at a basin/catchment level into water risk assessments  100%  Respondents that factor stakeholder conflicts concerning water resources at a basin/catchment level into water risk assessments  Respondents that factor implications of water on your key commodities/raw materials into water risk assessments  Respondents that factor water-related regulatory frameworks into water risk assessments  100%  Respondents that factor water-related regulatory frameworks into water risk assessments  100%  Respondents that factor access to fully-functioning, safely managed WASH services for all employees into water risk assessments  Respondents that factor customers into water risk assessments  67%  92%  Respondents that factor employees into water risk assessments  93%  92%   | Total financial value of impacts (USD)   | \$7,202,372 | \$20,261,242,173 |
| Respondents that undertake a water risk assessment with a specified frequency Respondents that undertake a water risk assessment with a specified frequency Respondents that factor water availability at a basin/catchment level into water risk assessments  100% Respondents that factor water quality at a basin/catchment level into water risk assessments  100% Respondents that factor stakeholder conflicts concerning water resources at a basin/catchment level into water risk assessments  Respondents that factor implications of water on your key commodities/raw materials into water risk assessments  Respondents that factor water-related regulatory frameworks into water risk assessments  100%  Respondents that factor status of ecosystems and habitats into water risk assessments  100%  Respondents that factor access to fully-functioning, safely managed WASH services for all employees into water risk assessments  Respondents that factor customers into water risk assessments  67%  92%  Respondents that factor employees into water risk assessments  93%  92%   | Respondents subject to penalties, fines and/or enforcement orders  | 28%         | 39%              |
| Respondents that undertake a water-related risk assessment Respondents that undertake a water risk assessment with a specified frequency Respondents that factor water availability at a basin/catchment level into water risk assessments  100% 100% Respondents that factor water quality at a basin/catchment level into water risk assessments 100% 100% Respondents that factor stakeholder conflicts concerning water resources at a basin/catchment level into water risk assessments  Respondents that factor implications of water on your key commodities/raw materials into water risk assessments  Respondents that factor water-related regulatory frameworks into water risk assessments  100% 100% Respondents that factor status of ecosystems and habitats into water risk assessments 100% 100% Respondents that factor access to fully-functioning, safely managed WASH services for all employees into water risk assessments  Respondents that factor customers into water risk assessments  80% 92% Respondents that factor employees into water risk assessments 93% 92% Respondents that factor employees into water risk assessments 93% 92%  | Total value of reported penalties, fines and/or enforcement orders   | \$830,657   | \$4,865,391      |
| Respondents that undertake a water risk assessment with a specified frequency  Respondents that factor water availability at a basin/catchment level into water risk assessments  100%  Respondents that factor water quality at a basin/catchment level into water risk assessments  100%  Respondents that factor stakeholder conflicts concerning water resources at a basin/catchment level into water risk assessments  Respondents that factor implications of water on your key commodities/raw materials into water risk assessments  Respondents that factor water-related regulatory frameworks into water risk assessments  100%  100   | Water risk assessment  |             |                  |
| Respondents that factor water availability at a basin/catchment level into water risk assessments  100%  Respondents that factor water quality at a basin/catchment level into water risk assessments  100%  Respondents that factor stakeholder conflicts concerning water resources at a basin/catchment level into water risk assessments  Respondents that factor implications of water on your key commodities/raw materials into water risk assessments  Respondents that factor water-related regulatory frameworks into water risk assessments  100%  100%  Respondents that factor status of ecosystems and habitats into water risk assessments  100%  1   | Respondents that undertake a water-related risk assessment   | 89%         | 83%              |
| Respondents that factor water quality at a basin/catchment level into water risk assessments  Respondents that factor stakeholder conflicts concerning water resources at a basin/catchment level into water risk assessments  Respondents that factor implications of water on your key commodities/raw materials into water risk assessments  Respondents that factor water-related regulatory frameworks into water risk assessments  100%  Respondents that factor status of ecosystems and habitats into water risk assessments  80%  92%  Respondents that factor access to fully-functioning, safely managed WASH services for all employees into water risk assessments  Respondents that factor customers into water risk assessments  67%  92%  Respondents that factor employees into water risk assessments  93%  92%  | Respondents that undertake a water risk assessment with a specified frequency  | 82%         | 100%             |
| Respondents that factor stakeholder conflicts concerning water resources at a basin/catchment level into water risk assessments  Respondents that factor implications of water on your key commodities/raw materials into water risk assessments  Respondents that factor water-related regulatory frameworks into water risk assessments  Respondents that factor status of ecosystems and habitats into water risk assessments  Respondents that factor access to fully-functioning, safely managed WASH services for all employees into water risk assessments  Respondents that factor customers into water risk assessments  Respondents that factor employees into water risk assessments  87%  100%   | Respondents that factor water availability at a basin/catchment level into water risk assessments  | 100%        | 100%             |
| Respondents that factor implications of water on your key commodities/raw materials into water risk assessments  Respondents that factor water-related regulatory frameworks into water risk assessments  Respondents that factor status of ecosystems and habitats into water risk assessments  Respondents that factor access to fully-functioning, safely managed WASH services for all employees into water risk assessments  Respondents that factor customers into water risk assessments  Respondents that factor customers into water risk assessments  Respondents that factor employees into water risk assessments  93%  92%  Respondents that factor employees into water risk assessments  93%  92%   | Respondents that factor water quality at a basin/catchment level into water risk assessments   | 100%        | 100%             |
| Respondents that factor water-related regulatory frameworks into water risk assessments  100%  Respondents that factor status of ecosystems and habitats into water risk assessments  80%  92%  Respondents that factor access to fully-functioning, safely managed WASH services for all employees into water risk assessments  Respondents that factor customers into water risk assessments  67%  92%  Respondents that factor employees into water risk assessments  93%  92%  | Respondents that factor stakeholder conflicts concerning water resources at a basin/catchment level into water risk assessments                    | 87%         | 100%             |
| Respondents that factor status of ecosystems and habitats into water risk assessments  Respondents that factor access to fully-functioning, safely managed WASH services for all employees into water risk assessments  Respondents that factor customers into water risk assessments  67%  92%  Respondents that factor employees into water risk assessments  93%  92%   | Respondents that factor implications of water on your key commodities/raw materials into water risk assessments                                    | 93%         | 85%              |
| Respondents that factor access to fully-functioning, safely managed WASH services for all employees into water risk assessments  Respondents that factor customers into water risk assessments  Respondents that factor employees into water risk assessments  93%  92%  92%  92%  92%   | Respondents that factor water-related regulatory frameworks into water risk assessments  | 100%        | 100%             |
| water risk assessments  Respondents that factor customers into water risk assessments  Respondents that factor employees into water risk assessments  93% 92% 92% 92% 92%  | Respondents that factor status of ecosystems and habitats into water risk assessments  | 80%         | 92%              |
| Respondents that factor employees into water risk assessments  93% 92%   | Respondents that factor access to fully-functioning, safely managed WASH services for all employees into water risk assessments                    | 93%         | 92%              |
|  | Respondents that factor customers into water risk assessments  | 67%         | 92%              |
| Respondents that factor investors into water risk assessments 80% 92%  | Respondents that factor employees into water risk assessments  | 93%         | 92%              |
|  | Respondents that factor investors into water risk assessments  | 80%         | 92%              |

| Canada       | France          | Germany     | Japan            | South Africa  | Turkey       | United Kingdom | <b>United States</b> |
|--------------|-----------------|-------------|------------------|---------------|--------------|----------------|----------------------|
|              |                 |             |                  |               |              |                |                      |
| 0.4          | 00              | 00          | 100              | 40            | 06           | 40             | 107                  |
| 24<br>55     | 23<br>38        | 29<br>40    | 198<br>328       | 43<br>60      | 26<br>62     | 42<br>68       | 187<br>332           |
| 44%          | 61%             | 73%         | 60%              | 72%           | 42%          | 62%            | 56%                  |
| 15           | 18              | 20          | 138              | 40            | 19           | 36             | 142                  |
| 9            | 5               | 6           | 60               | 3             | 7            | 6              | 45                   |
| 9            | <u> </u>        | 0           | 00               | 3             | 1            | 0              | 45                   |
| 26           | 41              | 104         | 295              | 9             | 4            | 55             | 360                  |
|              |                 | -           |                  |               |              |                |                      |
| 78%          | 74%             | 73%         | 84%              | 90%           | 88%          | 81%            | 85%                  |
| 52%          | 65%             | 62%         | 77%              | 86%           | 65%          | 62%            | 72%                  |
|              |                 |             |                  |               |              |                |                      |
| 83%          | 78%             | 92%         | 86%              | 86%           | 96%          | 83%            | 82%                  |
| 65%          | 74%             | 85%         | 77%              | 74%           | 88%          | 64%            | 68%                  |
| 74%          | 78%             | 85%         | 75%              | 74%           | 88%          | 69%            | 70%                  |
| 65%          | 48%             | 46%         | 45%              | 43%           | 46%          | 31%            | 36%                  |
| 57%          | 48%             | 62%         | 63%              | 52%           | 77%          | 50%            | 55%                  |
|              |                 |             |                  |               |              |                |                      |
| 18%          | 55%             | 52%         | 35%              | 33%           | 46%          | 46%            | 49%                  |
|              |                 |             |                  |               |              |                |                      |
| 26%          | 35%             | 12%         | 17%              | 69%           | 31%          | 31%            | 30%                  |
| \$51,116,497 | \$3,459,185,525 | \$2,159,631 | \$10,815,836,814 | \$140,531,478 | \$25,786,802 | \$525,652,906  | \$2,451,955,328      |
| 26%          | 35%             | 12%         | 17%              | 69%           | 31%          | 31%            | 30%                  |
| \$6,271,811  | \$2,558,849     | \$763,008   | \$67,684         | \$206,749     | \$881,325    | \$374,835      | \$82,775,939         |
|              |                 |             |                  |               |              |                |                      |
| 91%          | 91%             | 96%         | 84%              | 98%           | 96%          | 88%            | 88%                  |
| 82%          | 86%             | 92%         | 79%              | 103%          | 96%          | 87%            | 82%                  |
| 95%          | 100%            | 96%         | 92%              | 95%           | 100%         | 94%            | 92%                  |
| 95%          | 90%             | 92%         | 88%              | 90%           | 96%          | 97%            | 85%                  |
| 75%          | 90%             | 79%         | 78%              | 82%           | 84%          | 80%            | 79%                  |
| 55%          | 95%             | 71%         | 80%              | 79%           | 60%          | 86%            | 74%                  |
| 90%          | 95%             | 96%         | 93%              | 85%           | 100%         | 94%            | 94%                  |
| 90%          | 90%             | 88%         | 79%              | 69%           | 80%          | 83%            | 76%                  |
| 75%          | 70%             | 75%         | 87%              | 90%           | 96%          | 83%            | 81%                  |
| 50%          | 90%             | 83%         | 86%              | 67%           | 84%          | 71%            | 83%                  |
| 85%          | 95%             | 92%         | 90%              | 85%           | 96%          | 97%            | 90%                  |
| 85%          | 85%             | 83%         | 78%              | 92%           | 92%          | 85%            | 81%                  |
|              |                 |             |                  |               |              |                |                      |

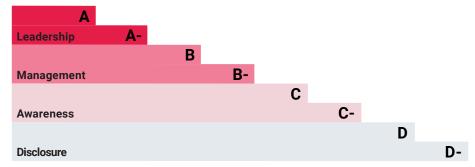
#### **APPENDIX III: KEY INDICATORS BY GEOGRAPHY**

| Geographic KPIs   | Australia | Brazil |
|---|-----------|--------|
| Respondents that factor local communities into water risk assessments                                     | 100%      | 100%   |
| Respondents that factor NGO's into water risk assessments   | 73%       | 92%    |
| Respondents that factor other water users at a basin/catchment level into water risk assessments          | 87%       | 92%    |
| Respondents that factor regulators into water risk assessments  | 93%       | 92%    |
| Respondents that factor river basin management authorities into water risk assessments                    | 60%       | 100%   |
| Respondents that factor statutory special interest groups at a local level into water risk assessments    | 80%       | 85%    |
| Respondents that factor suppliers into water risk assessments   | 73%       | 85%    |
| Respondents that factor water utilities at a local level into water risk assessments                      | 87%       | 85%    |
| Water risks   |           |        |
| Respondents exposed to substantive water risk either direct operations or along the value chain           | 50%       | 89%    |
| Respondents exposed to substantive water risk in direct operations only                                   | 33%       | 22%    |
| Respondents exposed to substantive water risk in the value chain only                                     | 6%        | 6%     |
| Percentage of risks that are physical   | 83%       | 72%    |
| Percentage of risks that are regulatory   | 11%       | 22%    |
| Percentage of risks that are reputational   | 6%        | 5%     |
| Percentage of risks that are technological  | 0%        | 1%     |
| Respondents reporting >50% of facilities at risk  | 28%       | 17%    |
| Water opportunities   |           |        |
| Respondents that identify and are realizing water-related opportunities                                   | 39%       | 78%    |
| Percentage of water opportunities relating to water efficiency  | 29%       | 39%    |
| Percentage of water opportunities relating to resilience  | 0%        | 18%    |
| Percentage of water opportunities relating to products and services                                       | 29%       | 15%    |
| Percentage of water opportunities relating to markets   | 29%       | 15%    |
| Governance & strategy   |           |        |
| Respondents with a documented water policy that is publicly available                                     | 50%       | 50%    |
| Respondents with board-level oversight of water issues  | 94%       | 78%    |
| Respondents that integrate water-related issues into long-term business objectives                        | 56%       | 72%    |
| Respondents that integrate water-related issues into their strategy for achieving long-term objectives    | 44%       | 72%    |
| Respondents that integrate water-related issues into financial planning                                   | 50%       | 67%    |
| Respondents whose water-related CAPEX increased in the reporting year                                     | 12%       | 40%    |
| Respondents whose water-related OPEX increased in the reporting year                                      | 18%       | 40%    |
| Respondents using climate-related scenario analysis to inform business strategy                           | 24%       | 53%    |
| Respondents identifying water-related outcomes from climate scenario analysis                             | 6%        | 33%    |
| Respondents using an internal price on water  | 6%        | 27%    |
| Targets & goals   |           |        |
| Respondents with targets and goals that are monitored at the corporate level                              | 17%       | 50%    |
| Respondents setting water intensity reduction targets   | 27%       | 7%     |
| Respondents setting supplier engagement targets   | 0%        | 0%     |
| Respondents setting Water, Sanitation & Hygiene (WASH) targets  | 0%        | 0%     |
| Linkages & trade-offs   |           |        |
|   | 650       | 670    |
| Respondents that have identified any linkages or trade-offs between water and other environmental impacts | 65%       | 67%    |

| Canada | France | Germany | Japan | South Africa | Turkey | United Kingdom | United States |
|--------|--------|---------|-------|--------------|--------|----------------|---------------|
| 95%    | 85%    | 100%    | 92%   | 85%          | 92%    | 88%            | 89%           |
| 80%    | 85%    | 83%     | 65%   | 69%          | 80%    | 74%            | 76%           |
| 100%   | 90%    | 67%     | 82%   | 69%          | 76%    | 74%            | 68%           |
| 100%   | 95%    | 92%     | 94%   | 92%          | 88%    | 94%            | 90%           |
| 85%    | 85%    | 92%     | 81%   | 72%          | 60%    | 74%            | 67%           |
| 75%    | 75%    | 83%     | 55%   | 59%          | 40%    | 62%            | 63%           |
| 45%    | 90%    | 88%     | 81%   | 69%          | 64%    | 74%            | 77%           |
| 70%    | 80%    | 75%     | 82%   | 82%          | 68%    | 82%            | 83%           |
|        |        |         |       |              |        |                |               |
| 61%    | 70%    | 46%     | 66%   | 90%          | 88%    | 62%            | 58%           |
| 39%    | 22%    | 19%     | 28%   | 45%          | 42%    | 21%            | 24%           |
| 4%     | 9%     | 8%      | 2%    | 0%           | 0%     | 0%             | 3%            |
| 58%    | 89%    | 100%    | 81%   | 76%          | 77%    | 64%            | 68%           |
| 33%    | 5%     | 0%      | 12%   | 16%          | 14%    | 27%            | 28%           |
| 8%     | 5%     | 0%      | 7%    | 8%           | 9%     | 9%             | 4%            |
| 0%     | 0%     | 0%      | 0%    | 0%           | 0%     | 0%             | 0%            |
| 35%    | 0%     | 4%      | 13%   | 45%          | 62%    | 17%            | 9%            |
|        |        |         |       |              |        |                |               |
| 65%    | 74%    | 65%     | 67%   | 90%          | 92%    | 76%            | 73%           |
| 51%    | 34%    | 26%     | 29%   | 49%          | 41%    | 40%            | 40%           |
| 5%     | 6%     | 12%     | 4%    | 17%          | 11%    | 25%            | 14%           |
| 8%     | 38%    | 44%     | 48%   | 12%          | 17%    | 19%            | 20%           |
| 30%    | 17%    | 15%     | 16%   | 18%          | 31%    | 11%            | 12%           |
|        |        |         |       |              |        |                |               |
| 35%    | 61%    | 58%     | 73%   | 48%          | 77%    | 57%            | 68%           |
| 96%    | 91%    | 96%     | 81%   | 98%          | 96%    | 90%            | 80%           |
| 78%    | 74%    | 65%     | 53%   | 86%          | 81%    | 57%            | 66%           |
| 70%    | 78%    | 69%     | 52%   | 83%          | 85%    | 64%            | 65%           |
| 70%    | 65%    | 62%     | 41%   | 86%          | 73%    | 55%            | 56%           |
| 14%    | 32%    | 12%     | 25%   | 64%          | 38%    | 31%            | 23%           |
| 9%     | 41%    | 28%     | 33%   | 49%          | 42%    | 23%            | 30%           |
| 45%    | 59%    | 56%     | 40%   | 26%          | 73%    | 44%            | 42%           |
| 23%    | 41%    | 20%     | 29%   | 26%          | 69%    | 31%            | 22%           |
| 23%    | 14%    | 16%     | 10%   | 10%          | 12%    | 3%             | 9%            |
|        |        |         |       |              |        |                |               |
| 35%    | 57%    | 62%     | 43%   | 43%          | 77%    | 52%            | 48%           |
| 6%     | 16%    | 3%      | 4%    | 7%           | 21%    | 8%             | 8%            |
| 0%     | 3%     | 10%     | 0%    | 0%           | 0%     | 0%             | 2%            |
| 0%     | 0%     | 0%      | 0%    | 0%           | 2%     | 4%             | 2%            |
|        |        |         |       |              |        |                |               |
| 64%    | 82%    | 80%     | 69%   | 90%          | 88%    | 82%            | 70%           |



CDP's scoring methodology builds on four levels, from Disclosure to Leadership. A threshold of 80% in a lower level has to be passed before a company is scored for the next level. For more information, please see our <u>Introduction to Scoring</u>.



F: Failure to provide sufficient information to CDP to be evaluated for this purpose

| Company                                   | Response Status | Ticker   | Country HQ   | CDP Water<br>Security Scor |
|---|-----------------|----------|--|----------------------------|
| Apparel                                   |                 |          |  |                            |
| adidas AG                                 | Submitted       | ADS GR   | Germany  | B-                         |
| Asics Corporation                         | Submitted       | 7936 JP  | Japan  | Not scored                 |
| Burberry Group                            | Submitted       | BRBY LN  | United Kingdom of Great Britain and Northern Ireland | В                          |
| Christian Dior                            | Not submitted   | CDI FP   | France   | F                          |
| Citizen Watch Co.,Ltd.                    | Submitted       | 7762 JP  | Japan  | B-                         |
| Compagnie Financière Richemont SA         | Not submitted   | CFR SW   | Switzerland  | F                          |
| Eclat Textile Co Ltd                      | Submitted       | 1476 TT  | Taiwan ROC   | D                          |
| Feng Tay Enterprises Co Ltd               | Not submitted   | 9910 TT  | Taiwan ROC   | F                          |
| Gildan Activewear Inc.                    | Not submitted   | GIL CN   | Canada   | F                          |
| Hanesbrands Inc.                          | Submitted       | HBI US   | United States of America                             | B-                         |
| Hermes International                      | Not submitted   | RMS FP   | France   | F                          |
| Kering                                    | Submitted       | KER FP   | France   | В                          |
| LVMH                                      | Not submitted   | MC FP    | France   | F                          |
| NIKE Inc.                                 | Submitted       | NKE US   | United States of America                             | Not scored                 |
| Pou Chen Corp.                            | Not submitted   | 9904 TT  | Taiwan ROC   | F                          |
| PVH Corp                                  | Submitted       | PVH US   | United States of America                             | В                          |
| Shenzhou International Group Holdings Ltd | Not submitted   | 2313 HK  | China  | F                          |
| Swatch Group                              | Not submitted   | UHRN SW  | Switzerland  | F                          |
| Toyobo Co., Ltd.                          | Submitted       | 3101 JP  | Japan  | Not available              |
| Under Armour Inc                          | Submitted       | UA US    | United States of America                             | Not scored                 |
| VF Corporation                            | Submitted       | VFC US   | United States of America                             | B-                         |
| Yue Yuen Industrial                       | Not submitted   | 551 HK   | China, Hong Kong Special<br>Administrative Region    | F                          |
| YÜNSA YÜNLÜ SANAYİ VE TİCARET A.Ş.        | Submitted       | YUNSA TI | Turkey   | B-                         |
| Biotech, Health Care & Pharma             |                 |          |  |                            |
| Abbott Laboratories                       | Submitted       | ABT US   | United States of America                             | B-                         |
| AbbVie Inc                                | Submitted       | ABBV US  | United States of America                             | В                          |
| Alexion Pharmaceuticals                   | Not submitted   | ALXN US  | United States of America                             | F                          |
| Allergan plc                              | Submitted       | AGN UN   | United States of America                             | С                          |
| Amgen, Inc.                               | Submitted       | AMGN US  | United States of America                             | С                          |
| Anthem Inc                                | Submitted       | ANTM US  | United States of America                             | С                          |
| Aspen Pharmacare Holdings                 | Submitted       | APN SJ   | South Africa   | B-                         |
| Astellas Pharma Inc.                      | Submitted       | 4503 JP  | Japan  | B-                         |

| Company   | Response Status         | Ticker    | Country HQ   | CDP Water<br>Security Score                           |
|---|-------------------------|-----------|--|---|
| AstraZeneca   | Submitted               | AZN LN    | United Kingdom of Great Britain and Northern Ireland                           | А   |
| Baxter International Inc.   | Submitted               | BAXUS     | United States of America   | В   |
| Bayer AG  | Submitted               | BAYN GR   | Germany  | А   |
| Becton, Dickinson and Co.   | Submitted               | BDX US    | United States of America   | В   |
| Biogen Inc.   | Submitted               | BIIB US   | United States of America   | В   |
| Bristol-Myers Squibb  | Submitted               | BMY US    | United States of America   | B-  |
| Celgene Corporation   | Submitted               | CELG US   | United States of America   | С   |
| Chugai Pharmaceutical Co., Ltd.   | Submitted               | 4519 JP   | Japan  | С   |
| CSL   | Submitted               | CSL AU    | Australia  | B-  |
| CVS Health  | Submitted               | CVS US    | United States of America   | В   |
| Daiichi Sankyo Co., Ltd.  | Submitted               | 4568 JP   | Japan  | B-  |
| Dr. Reddy's Laboratories  | Submitted               | DRRD IN   | India  | B-  |
| Edwards Lifesciences Corp   | Submitted               | EW US     | United States of America   | С   |
| EİS ECZACIBAŞI İLAÇ, SINAİ VE FİNANSAL<br>YATIRIMLAR SANAYİ VE TİCARET A.Ş. | Not submitted           | ECILC TI  | Turkey   | F   |
| Eisai Co., Ltd.   | Not submitted           | 4523 JP   | Japan  | F   |
| Eli Lilly & Co.   | Submitted               | LLY US    | United States of America   | В   |
| Endo International plc  | Not submitted           | ENDP US   | United States of America   | F   |
| Essilor International   | Submitted               | EL FP     | France   | A-  |
| Express Scripts Holding Company   | Submitted               | ESRX US   | United States of America   | Not available   |
| Fresenius Medical Care AG & Co. KGaA  | Submitted               | FME GR    | Germany  | С   |
| Fresenius SE & Co. KGaA   | Submitted               | FRE GR    | Germany  | C   |
| Genmab A/S  | Not submitted           | GEN DC    | Denmark  | F   |
| Gilead Sciences, Inc.   | Not submitted           | GILD US   | United States of America   |   |
| GlaxoSmithKline   | Submitted               | GSK LN    | United States of America  United Kingdom of Great Britain and Northern Ireland | В   |
| GRIFOLS   | Not submitted           | GRF SM    | Spain  | F   |
| Hamamatsu Photonics K.K.  | Submitted               | 6965 JP   | Japan  | C   |
| Hikma Pharmaceuticals   | Not submitted           | HIK LN    | United Kingdom of Great Britain and Northern Ireland                           | F   |
| Hisamitsu Pharmaceutical Co., Inc.  | Not submitted           | 4530 JP   | Japan  | F   |
| Hoya Corporation  | Not submitted           | 7741 JP   | Japan  | F   |
| Hypera SA   | Not submitted           | HYPE3 BZ  | Brazil   |   |
| Ipsen   | Submitted               | IPN FP    | France   | В   |
| Johnson & Johnson   | Submitted               | JNJ US    | United States of America   | A-  |
| Kaken Pharmaceutical Co., Ltd.  | Not submitted           | 4521 JP   | Japan  | F   |
| Kissei Pharmaceutical Co., Ltd.   | Not submitted           | 4547 JP   | Japan  |   |
| Koninklijke Philips NV  | Submitted               | PHIA NA   | Netherlands  | В   |
| KYORIN Holdings, Inc.   | Not submitted           | 4569 JP   | Japan  | F   |
| Kyowa Hakko Kirin Co., Ltd.   | Submitted (see another) | 4151 JP   | Japan  | Kirin Holdings<br>Co Ltd (A)                          |
| Life Healthcare Group Holdings Ltd  | Submitted               | LHC SJ    | South Africa   | C   |
| Mallinckrodt plc  | Not submitted           | MNK US    | United States of America   |   |
| Mediclinic International  | Submitted               | MDC LN    | South Africa   | В   |
| Medtronic PLC   | Submitted               | MDT UN    | United States of America   | В-  |
| Merck & Co., Inc.   | Submitted               | MRK US    | United States of America   | B-  |
| Mitsubishi Tanabe Pharma Corporation  | Submitted (see another) | 4508 JP   | Japan  | Mitsubishi<br>Chemical<br>Holdings<br>Corporation (A- |
| Mochida Pharmaceutical Co., Ltd.  | Not submitted           | 4534 JP   | Japan  | F   |
| Monsanto Company  | Not submitted           | MONUS     | United States of America   | <br>  |
| oourico corriparty  | 1101 000111111100       | 1710/1100 | United States of America   | Not available   |

| Company                                     | Response Status          | Ticker           | Country HQ   | CDP Water<br>Security Sco       |
|---|--------------------------|------------------|--|---------------------------------|
| Netcare Limited                             | Submitted                | NTC SJ           | South Africa   | В                               |
| Nihon Kohden Corporation                    | Submitted                | 6849 JP          | Japan  | С                               |
| Nippon Shinyaku Co., Ltd.                   | Not submitted            | 4516 JP          | Japan  | F                               |
| Nipro Corporation                           | Not submitted            | 8086 JP          | Japan  | F                               |
| Novartis                                    | Submitted                | NOVN SW          | Switzerland  | В                               |
| Novo Nordisk A/S                            | Submitted                | NOVOB DC         | Denmark  | Not available                   |
| Olympus Corporation                         | Submitted                | 7733 JP          | Japan  | B-                              |
| Ono Pharmaceutical Co., Ltd.                | Submitted                | 4528 JP          | Japan  | В                               |
| Orion Oyj                                   | Submitted                | ORNBV FH         | Finland  | Not scored                      |
| Otsuka Holdings Co., Ltd.                   | Submitted                | 4578 JP          | Japan  | С                               |
| PerkinElmer, Inc.                           | Submitted                | PKI US           | United States of America                             | D                               |
| Perrigo Co.                                 | Not submitted            | PRGO US          | United States of America                             | <br>F                           |
| Pfizer Inc.                                 | Submitted                | PFE US           | United States of America                             | В                               |
| Ramsay Health Care                          | Not submitted            | RHC AU           | Australia  | F                               |
| Regeneron Pharmaceuticals, Inc.             | Submitted                | REGN US          | United States of America                             | B-                              |
| Richter Gedeon Nyrt.                        | Not submitted            | RICHT HB         | Hungary  | F                               |
| Roche Holding AG                            | Submitted                | ROG SW           | Switzerland  | В                               |
| Rohto Pharmaceutical Co., Ltd.              | Not submitted            | 4527 JP          |  | <u>Б</u><br>F                   |
|   | Not submitted            | ROP US           | Japan United States of America                       | F                               |
| Roper Industries Inc                        |                          |                  |  |                                 |
| SANOFI                                      | Submitted                | SAN FP           | France   | В                               |
| Santen Pharmaceutical Co., Ltd.             | Submitted                | 4536 JP          | Japan  | С                               |
| Sawai Pharmaceutical Co., Ltd.              | Submitted                | 4555 JP          | Japan  | С                               |
| SHANDONG TOPSCIENCE BIOTECH                 | Submitted                | ADFWNZ CH        | China  | Not scored                      |
| Shimadzu Corporation                        | Submitted                | 7701 JP          | Japan  | C                               |
| Shionogi & Co., Ltd.                        | Submitted                | 4507 JP          | Japan  | Not scored                      |
| Shire<br>Smith & Nephew                     | Submitted Submitted      | SHP LN<br>SN/ LN | United Kingdom of Great Britain and Northern Ireland | С                               |
| Sumitomo Dainippon Pharma Co., Ltd.         | Submitted                | 4506 JP          | Japan  | С                               |
| Sun Pharmaceutical Industries               | Not submitted            | SUNP IN          | India  | F                               |
|   |                          |                  |  |                                 |
| Sysmex Corporation                          | Submitted  Not submitted | 6869 JP          | Japan  | C<br>F                          |
| Taisho Pharmaceutical Co., Ltd.             |                          | 4581 JP          | Japan  |                                 |
| Takeda Pharmaceutical Company Limited       | Submitted                | 4502 JP          | Japan  | В                               |
| Terumo Corporation                          | Submitted                | 4543 JP          | Japan  | C                               |
| Teva Pharmaceutical Industries Ltd          | Not submitted            | TEVA UN          | Israel   | F                               |
| Thermo Fisher Scientific Inc.               | Submitted                | TMO US           | United States of America                             | С                               |
| Tsumura & Co.                               | Submitted                | 4540 JP          | Japan  | С                               |
| UCB SA                                      | Submitted                | UCB BB           | Belgium  | Not scored                      |
| Varian Medical Systems Inc                  | Submitted                | VAR US           | United States of America                             | В                               |
| Vertex Pharmaceuticals Inc                  | Not submitted            | VRTX US          | United States of America                             | F                               |
| Vifor Pharma AG                             | Not submitted            | VIFN SW          | Switzerland  | F                               |
| Zimmer Biomet Holdings, Inc.                | Not submitted            | ZBH US           | United States of America                             | F                               |
| Zoetis Inc                                  | Not submitted            | ZTS US           | United States of America                             | F                               |
| Food, Beverage & Agriculture                |                          |                  |  |                                 |
| Ajinomoto Co.Inc.                           | Submitted                | 2802 JP          | Japan  | A-                              |
| Alfa SAB de CV                              | Not submitted            | ALFAA MM         | Mexico   | F                               |
| Altria Group, Inc.                          | Submitted                | MO US            | United States of America                             | А                               |
| Ambev S.A                                   | Submitted (see another)  | ABEV3 BZ         | Brazil   | Anheuser<br>Busch InBev<br>(A-) |
| ANADOLU EFES BİRACILIK VE MALT SANAYİİ A.Ş. | Not submitted            | AEFES TI         | Turkey   | F                               |
| Anheuser Busch InBev                        | Submitted                | ABI BB           | Belgium  | A-                              |

| Company   | Response Status | Ticker      |  | CDP Water<br>Security Scor |
|---|-----------------|-------------|--|----------------------------|
| Arca Continental, SAB de CV                     | Submitted       | AC* MM      | Mexico   | В                          |
| Archer Daniels Midland                          | Submitted       | ADM US      | United States of America                             | B-                         |
| Ariake Japan                                    | Not submitted   | 2815 JP     | Japan  | F                          |
| Aryzta AG                                       | Submitted       | ARYN SW     | Switzerland  | Not scored                 |
| Asahi Group Holdings, Ltd.                      | Submitted       | 2502 JP     | Japan  | А                          |
| Avi Ltd   | Not submitted   | AVISJ       | South Africa   | F                          |
| Bajaj Hindusthan Ltd.                           | Not submitted   | BJH IN      | India  | F                          |
| Barry Callebaut AG                              | Submitted       | BARN SW     | Switzerland  | B-                         |
| Bid Corporation Ltd                             | Not submitted   | BID SJ      | South Africa   | F                          |
| BRF S.A   | Submitted       | BRFS3 BZ    | Brazil   | С                          |
| British American Tobacco                        | Submitted       | BATS LN     | United Kingdom of Great Britain and Northern Ireland | B-                         |
| Brown-Forman Corporation                        | Submitted       | BF/B US     | United States of America                             | D                          |
| Bunge   | Submitted       | BG US       | United States of America                             | B-                         |
| Calbee, Inc.                                    | Not submitted   | 2229 JP     | Japan  | F                          |
| Campbell Soup Company                           | Submitted       | CPB US      | United States of America                             | B-                         |
| Carlsberg Breweries A/S                         | Submitted       | CARLB DC    | Denmark  | С                          |
| Chaoda Modern Agriculture                       | Not submitted   | 682 HK      | China, Hong Kong Special<br>Administrative Region    | F                          |
| Charoen Pokphand Foods PCL                      | Submitted       | CPF TB      | Thailand   | B-                         |
| Charoen Pokphand Indonesia                      | Not submitted   | CPIN IJ     | Indonesia  | F                          |
| China Huishan Dairy Holdings Company Ltd        | Not submitted   | 6863 HK     | China  | F                          |
| China Mengniu Dairy Company Limited             | Not submitted   | 2319 HK     | China, Hong Kong Special<br>Administrative Region    | F                          |
| China Resources Beer (Holdings) Company Limited | Not submitted   | 291 HK      | China  | F                          |
| Chocoladefabriken Lindt & Sprüngli AG           | Submitted       | LISN SW     | Switzerland  | С                          |
| Chr. Hansen Holding A/S                         | Not submitted   | CHR DC      | Denmark  | F                          |
| Coca-Cola Amatil                                | Submitted       | CCL AU      | Australia  | Not available              |
| Coca-Cola Bottlers Japan Holdings Inc.          | Not submitted   | 2579 JP     | Japan  | F                          |
| Coca-Cola East Japan Co., Ltd.                  | Not submitted   | 2580 JP     | Japan  | F                          |
| Coca-Cola European Partners                     | Submitted       | CCEP US     | United Kingdom of Great Britain and Northern Ireland | А                          |
| Coca-Cola Femsa Sab-Ser I                       | Submitted       | KOFL MM     | Mexico   | В                          |
| Coca-Cola HBC AG                                | Submitted       | CCH LN      | Switzerland  | В                          |
| COCA-COLA İÇECEK A.Ş.                           | Submitted       | CCOLA TI    | Turkey   | B-                         |
| Conagra Brands Inc                              | Submitted       | CAG US      | United States of America                             | В                          |
| Constellation Brands, Inc.                      | Submitted       | STZ US      | United States of America                             | B-                         |
| DAESANG CORPORATION                             | Not submitted   | 001680 KS   | Republic of Korea                                    | F                          |
| Dali Foods Group Company Ltd                    | Not submitted   | 3799 HK     | China  | F                          |
| Danone  | Submitted       | BN FP       | France   | В                          |
| Dean Foods Company                              | Not submitted   | DF US       | United States of America                             | F                          |
| Diageo Plc                                      | Submitted       | DGE LN      | United Kingdom of Great Britain and Northern Ireland | А                          |
| Distell Group Holdings                          | Submitted       | DGH SJ      | South Africa   | B-                         |
| Dongsuh   | Not submitted   | 026960 KS   | Republic of Korea                                    | F                          |
| Embotelladora Andina                            | Submitted       | ANDINAA CI  | Chile  | Not scored                 |
| Eurocash S.A.                                   | Not submitted   | EUR PW      | Poland   | F                          |
| Ezaki Glico Co., Ltd.                           | Not submitted   | 2206 JP     | Japan  | F                          |
| Famous Brands Limited                           | Not submitted   | FBR SJ      | South Africa   | F                          |
| Flowers Foods Inc                               | Submitted       | FLO US      | United States of America                             | С                          |
| Foshan Haitian Flavouring and Food              | Not submitted   | 603288 CH   | China  | F                          |
| Fresh Del Monte Produce Inc                     | Submitted       | FDP US      | United States of America                             | C                          |
| Fresherized Foods                               | Submitted       | 3761956Z US | United States of America                             | C                          |

| Company   | Response Status         | Ticker     | Country HQ   | CDP Water<br>Security Score |
|---|-------------------------|------------|--|-----------------------------|
| General Mills Inc.                                    | Submitted               | GIS US     | United States of America                             | А                           |
| Golden Agri-Resources                                 | Submitted               | GGR SP     | Singapore  | С                           |
| Gruma SAB   | Not submitted           | GRUMAB MM  | Mexico   | F                           |
| Grupo Bimbo, S.A.B. de C.V.                           | Submitted               | BIMBOA MM  | Mexico   | B-                          |
| Grupo Herdez  | Submitted               | HERDEZ* MM | Mexico   | Not scored                  |
| Grupo Lala  | Not submitted           | LALAB MM   | Mexico   | F                           |
| Gudang Garam  | Not submitted           | GGRM IJ    | Indonesia  | F                           |
| Heineken Holding NV                                   | Submitted (see another) | HEIO NA    | Netherlands  | Heineken NV<br>(B)          |
| Heineken NV   | Submitted               | HEIA NA    | Netherlands  | В                           |
| Henan Shuanghui Investment & Development (A)          | Not submitted           | 000895 CH  | China  | F                           |
| Hitejinro   | Not submitted           | 000080 KS  | Republic of Korea                                    | F                           |
| Hormel Foods  | Submitted               | HRL US     | United States of America                             | B-                          |
| HOUSE FOODS GROUP INC.                                | Not submitted           | 2810 JP    | Japan  | F                           |
| Imperial Brands                                       | Submitted               | IMB LN     | United Kingdom of Great Britain and Northern Ireland | B-                          |
| Indofood Sukses Mak Tbk Pt                            | Not submitted           | INDF IJ    | Indonesia  | F                           |
| Ingredion Incorporated                                | Submitted               | INGR US    | United States of America                             | В                           |
| IOI Corporation Berhad                                | Submitted               | IOI MK     | Malaysia   | B-                          |
| ITC Limited   | Not submitted           | ITC IN     | India  | F                           |
| Ito En, Ltd.  | Not submitted           | 2593 JP    | Japan  | F                           |
| Itoham Yonekyu Holdings                               | Not submitted           | 2296 JP    | Japan  | F                           |
| Japan Tobacco Inc.                                    | Submitted               | 2914 JP    | Japan  | В                           |
| JBS S.A   | Submitted               | JBSS3 BZ   | Brazil   | Not available               |
| JG Summit Holdings Inc.                               | Not submitted           | JGS PM     | Philippines  | F                           |
| Kagome Co., Ltd.                                      | Submitted               | 2811 JP    | Japan  | Not available               |
| Kellogg Company                                       | Submitted               | KUS        | United States of America                             | В                           |
| Kerry Group PLC                                       | Submitted               | KYG ID     | Ireland  | B-                          |
| Keurig Dr Pepper                                      | Submitted               | KDP US     | United States of America                             | Not available               |
| Kewpie Corporation                                    | Submitted               | 2809 JP    | Japan  | С                           |
| Kikkoman Corporation                                  | Submitted               | 2801 JP    | Japan  | A-                          |
| Kirin Holdings Co Ltd                                 | Submitted               | 2503 JP    | Japan  | A                           |
| KT&G  | Not submitted           | 033780 KS  | Republic of Korea                                    | F                           |
| Kuala Lumpur Kepong                                   | Not submitted           | KLK MK     | Malaysia   | F                           |
| Kweichow Moutai                                       | Not submitted           | 600519 CH  | China  | F                           |
| Lotte Chilsung  | Not submitted           | 005300 KS  | Republic of Korea                                    | F                           |
| Lotte Corp  | Not submitted           | 004990 KS  | Republic of Korea                                    | F                           |
| Marfrig Global Foods S/A                              | Submitted               | MRFG3 BZ   | Brazil   | В                           |
| Marico  | Submitted               | MRCO IN    | India  | Not available               |
| Mars  | Submitted               | 4614Z US   | United States of America                             | В                           |
| Marubeni Corporation                                  | Submitted               | 8002 JP    | Japan  | В                           |
| McCormick & Company, Incorporated                     | Submitted               | MKC US     | United States of America                             | C                           |
| Mead Johnson Nutrition Company                        | Not submitted           | MJN US     | United States of America                             |                             |
| MEGMILK SNOW BRAND Co.,Ltd.                           | Submitted               | 2270 JP    | Japan Japan  | D                           |
| Meiji Holdings Co Ltd                                 | Submitted               | 2269 JP    | •  | D                           |
| Metro AG  | Submitted               | B4B GR     | Japan<br>Germany                                     | Not available               |
| MHP SE  | Not submitted           | MHPC:LI    | United Kingdom of Great Britain and Northern Ireland | F                           |
| Mitsuhishi Corporation                                | Submitted               | 8058 JP    |  | D                           |
| Mitsubishi Corporation  Mitsubishi Shokuhin Co., Ltd. | Submitted (see          | 7451 JP    | Japan<br>Japan                                       | Mitsubishi                  |
|   | another)                |            |  | Corporation (D)             |
| Molson Coors Brewing Company                          | Not submitted           | TAP US     | United States of America                             | F                           |
| Mondelez International Inc                            | Submitted               | MDLZ US    | United States of America                             | D                           |

| Company   | Response Status         | Ticker      | Country HQ   | CDP Water<br>Security Score      |
|---|-------------------------|-------------|--|----------------------------------|
| Monster Beverage Corporation                            | Not submitted           | MNST US     | United States of America                             | F                                |
| Mowi ASA  | Not submitted           | MOWI NO     | Norway   | F                                |
| Nestlé  | Submitted               | NESN SW     | Switzerland  | С                                |
| NH Foods Ltd.   | Submitted               | 2282 JP     | Japan  | С                                |
| Nichirei Corporation                                    | Submitted               | 2871 JP     | Japan  | B-                               |
| Nisshin Seifun Group Inc.                               | Not submitted           | 2002 JP     | Japan  | F                                |
| Nissin Foods Holdings Co., Ltd.                         | Not submitted           | 2897 JP     | Japan  | F                                |
| Nordzucker  | Not submitted           | 3112Z GR    | Germany  | F                                |
| Nutreco Holding   | Not submitted           | NUO NA      | Netherlands  | F                                |
| Oceana  | Submitted               | OCE SJ      | South Africa   | B-                               |
| Olam International                                      | Submitted               | OLAM SP     | Singapore  | B-                               |
| Oriental Brewery Company                                | Not submitted           | OBCLZ KS    | Republic of Korea                                    | F                                |
| Orion   | Not submitted           | 001800 KS   | Republic of Korea                                    | F                                |
| Orkla ASA   | Submitted               | ORK NO      | Norway   | B-                               |
| Ottogi  | Not submitted           | 007310 KS   | Republic of Korea                                    | F                                |
| PepsiCo, Inc.   | Submitted               | PEP US      | United States of America                             | В                                |
| Pernod Ricard   | Not submitted           | RLFP        | France   | F                                |
| Philip Morris International                             | Submitted               | PM US       | United States of America                             | В                                |
| Pilgrims Pride  | Not submitted           | PPC US      | United States of America                             | F                                |
| PINAR ENTEGRE ET VE UN SANAYİ A.Ş.                      | Submitted               | PETUN TI    | Turkey   | B-                               |
| PINAR SÜT MAMULLERİ SANAYİİ A.Ş.                        | Submitted               | PNSUT TI    | Turkey   | В                                |
| Pinnacle Foods Group                                    | Submitted               | PF US       | United States of America                             | C                                |
| Pioneer Foods   | Submitted               | PFG SJ      | South Africa   | С                                |
| PPB Group Berhad  | Not submitted           | PEP MK      | Malaysia   | F                                |
| PT Musim Mas  | Submitted               | 0676250D SP | Indonesia  | Not available                    |
| Pulmuone Co., Ltd.                                      | Submitted               | 017810 KS   | Republic of Korea                                    | A-                               |
| RCL Foods Ltd   | Submitted               | RCL SJ      | South Africa   | С                                |
| Remy Cointreau  | Submitted               | RCO FP      | France   | С                                |
| Reynolds American Inc.                                  | Submitted (see another) | RAIUS       | United States of America                             | British Americai<br>Tobacco (B-) |
| Sapporo Holdings Limited                                | Submitted               | 2501 JP     | Japan  | Not available                    |
| Saputo Inc.   | Submitted               | SAP CN      | Canada   | Not available                    |
| Sumitomo Forestry Co., Ltd.                             | Submitted               | 1911 JP     | Japan  | С                                |
| Suntory Beverage & Food                                 | Submitted               | 2587 JP     | Japan  | A                                |
| Swedish Match   | Not submitted           | SWMA SS     | Sweden   | F                                |
| Sysco Corporation                                       | Submitted               | SYY US      | United States of America                             | B-                               |
| Takara Holdings Inc.                                    | Not submitted           | 2531 JP     | Japan  | F                                |
| Tate & Lyle   | Submitted               | TATE LN     | United Kingdom of Great Britain and Northern Ireland | D                                |
| The Coca-Cola Company                                   | Submitted               | KO US       | United States of America                             | A-                               |
| The Hain Celestial Group, Inc.                          | Submitted               | HAIN US     | United States of America                             | D                                |
| The Hershey Company                                     | Submitted               | HSY US      | United States of America                             | C                                |
| The J.M. Smucker Company                                | Submitted               | SJM US      | United States of America                             | С                                |
| The Kraft Heinz Company                                 | Submitted               | KHC US      | United States of America                             | C                                |
| Tiger Brands  | Submitted               | TBS SJ      | South Africa   | B-                               |
| Tingyi (Cayman Islands) Holdings                        | Not submitted           | 322 HK      | China, Hong Kong Special<br>Administrative Region    | F                                |
| Tongaat Hulett Ltd                                      | Submitted               | TON SJ      | South Africa   | B-                               |
| Toyo Suisan Kaisha, Ltd.                                | Not submitted           | 2875 JP     | Japan  | F                                |
| Treasury Wine Estates                                   | Not submitted           | TWE AU      | Australia  | F                                |
| •   | Not submitted           | TBORG TI    | Turkey   | F                                |
| THRK THRORG BIRA VE MALL SANAVII A S                    |                         |             | TUTING   | i                                |
| TÜRK TUBORG BİRA VE MALT SANAYİİ A.Ş. Tyson Foods, Inc. | Submitted               | TSN US      | United States of America                             | B-                               |

| Company  | Response Status              | Ticker         | Country HQ  | CDP Water<br>Security Score |
|--|------------------------------|----------------|---|-----------------------------|
| Uni-president Enterprises  | Not submitted                | 1216 TT        | Taiwan ROC  | F                           |
| Universal Robina   | Not submitted                | URC PM         | Philippines   | F                           |
| Vina Concha y Toro S A   | Submitted                    | CONCHA CC      | Chile   | B-                          |
| Want Want China Holdings Ltd.                                    | Not submitted                | 151 HK         | China   | F                           |
| WH Group Ltd   | Not submitted                | 288 HK         | China   | F                           |
| Wilmar International Limited                                     | Submitted                    | WIL SP         | Singapore   | С                           |
| Yakult Honsha Co Ltd.  | Not submitted                | 2267 JP        | Japan   | F                           |
| Yamazaki Baking Co., Ltd.  | Not submitted                | 2212 JP        | Japan   | F                           |
| Fossil Fuels   |                              |                |   |                             |
| Adaro Energy PT  | Not submitted                | ADRO IJ        | Indonesia   | F                           |
| Anadarko Petroleum Corporation                                   | Submitted                    | APC US         | United States of America                                    | С                           |
| Andeavor   | Not submitted                | ANDV US        | United States of America                                    | F                           |
| Antero Resources Corp  | Not submitted                | AR US          | United States of America                                    | F                           |
| APA Group  | Not submitted                | APA AU         | Australia   | F                           |
| Apache Corporation   | Not submitted                | APA US         | United States of America                                    | F                           |
| ARC Resources Ltd.   | Submitted                    | ARX CN         | Canada  | В                           |
|  | Not submitted                | AYGAZ TI       |   | F                           |
| AYGAZ A.Ş.   |                              | BHGE UN        | Turkey United States of America                             | F                           |
| Baker Hughes, a GE Company                                       | Not submitted                |                |   |                             |
| Banpu Public Co Ltd  | Submitted                    | BANPU TB       | Thailand  | С                           |
| Bharat Petroleum Corporation BP                                  | Not submitted  Not submitted | BPCL IN BP/ LN | India  United Kingdom of Great Britain and Northern Ireland | F                           |
| Cabot Oil & Gas Corporation                                      | Not submitted                | COGUS          | United States of America                                    | F                           |
| Cairn India  | Not submitted                | CAIR IN        | India   | F                           |
| Caltex Australia   | Not submitted                | CTX AU         | Australia   | F                           |
| Canadian Natural Resources Limited                               | Submitted                    | CNQ CN         | Canada  | F                           |
| Chesapeake Energy Corporation                                    | Not submitted                | CHK US         | United States of America                                    | F                           |
| Chevron Corporation  | Not submitted                | CVX US         | United States of America                                    | F                           |
| China Coal Energy  | Not submitted                | 601898 CH      | China   | F                           |
| China Oilfield Services  | Not submitted                | 2883 HK        | China   | F                           |
|  |                              | 386 HK         | China   | F                           |
| China Petroleum & Chemical Corporation China Shenhua Energy      | Not submitted  Not submitted | 1088 HK        | China   | F                           |
| Cimarex Energy Co.   | Not submitted                | XEC US         | United States of America                                    | F                           |
| CNOOC  |                              | 883 HK         | China   | F                           |
| CNX Resources  | Not submitted  Not submitted | CNX US         | United States of America                                    | F                           |
| Coal India   | Not submitted                | COAL IN        | India   | F                           |
|  |                              |                |   | <u>г</u><br>В-              |
| Compañía Española de Petróleos, S.A.U. (CEPSA)  Concho Resources | Submitted                    | CEP SM         | Spain United States of America                              | F                           |
|  | Not submitted                | CXO US         |   | F                           |
| ConocoPhillips   | Not submitted                | COPUS          | United States of America                                    | •                           |
| CONSOL Energy Inc  | Submitted                    | CEIX           | United States of America                                    | Not available               |
| Continental Resources Inc  | Not submitted                | CLR US         | United States of America                                    | F                           |
| Core Laboratories N.V.   | Submitted                    | CLB US         | Netherlands   | С                           |
| COSAN S.A. Indústria e Comércio                                  | Not submitted                | CSAN3 BZ       | Brazil  | F                           |
| Cosmo Energy Holdings Co., Ltd.                                  | Submitted                    | 5021 JP        | Japan   | С                           |
| Crescent Point Energy Corporation                                | Submitted                    | CPG CN         | Canada  | С                           |
| DCC PLC  | Not submitted                | DCC LN         | Ireland   | F                           |
| Devon Energy Corporation   | Submitted                    | DVN US         | United States of America                                    | C                           |
| Dialog Group Bhd   | Not submitted                | DLG MK         | Malaysia  | F                           |
| DMCI Holdings Inc  | Not submitted                | DMC PM         | Philippines   | F                           |
| Empresas COPEC S.A.  | Not submitted                | COPEC CI       | Chile   | F                           |
| ENAGAS   | Submitted                    | ENG SM         | Spain   | С                           |

| Company   | Response Status              | Ticker               | Country HQ               | CDP Water<br>Security Score |
|---|------------------------------|----------------------|--------------------------|-----------------------------|
| Enbridge Inc.   | Submitted                    | ENB CN               | Canada                   | С                           |
| Encana Corporation  | Submitted                    | ECA CN               | Canada                   | D                           |
| Enerplus Corporation  | Submitted                    | ERF CN               | Canada                   | B-                          |
| Eni SpA   | Submitted                    | ENI IM               | Italy                    | B-                          |
| EOG Resources, Inc.   | Submitted                    | EOG US               | United States of America | D                           |
| EQT Corporation   | Not submitted                | EQT US               | United States of America | F                           |
| Equinor   | Not submitted                | EQNR NO              | Norway                   | F                           |
| Exxaro Resources Ltd  | Submitted                    | EXXSJ                | South Africa             | B-                          |
| Exxon Mobil Corporation   | Not submitted                | XOM US               | United States of America | F                           |
| Formosa Petrochemical   | Submitted                    | 6505 TT              | Taiwan ROC               | В                           |
| Galp Energia SA   | Submitted                    | GALP PL              | Portugal                 | А                           |
| Glencore plc  | Submitted                    | GLEN LN              | Switzerland              | В                           |
| Grupa Lotos S.A.  | Not submitted                | LTS PW               | Poland                   | F                           |
| Halliburton Company   | Submitted                    | HALUS                | United States of America | C                           |
| Helmerich & Payne   | Not submitted                | HP US                | United States of America | F                           |
| Hess Corporation  | Not submitted                | HES US               | United States of America | F                           |
| HollyFrontier Corp.   | Not submitted                | HFC US               | United States of America | <br>F                       |
| Husky Energy Inc.   | Submitted                    | HSE CN               | Canada                   | <br>B-                      |
| Idemitsu Kosan Co., Ltd.  | Submitted                    | 5019 JP              | Japan                    | Not available               |
| Imperial Oil  | Not submitted                | IMO CN               | Canada                   | F                           |
|   |                              |                      |                          | <u>г</u><br>F               |
| Inpex Corporation   | Not submitted                | 1605 JP              | Japan<br>Thailand        | <u>г</u><br>F               |
| IRPC Pcl  | Not submitted                | IRPC TB              |                          |                             |
| Japan Petroleum Exploration Co., Ltd.                                 | Not submitted                | 1662 JP              | Japan                    | F                           |
| JXTG Holdings, Inc.   | Submitted                    | 5020 JP              | Japan o:                 | C-                          |
| Keppel Corp   | Not submitted                | KEP SP               | Singapore                | F                           |
| Keyera Corp.  | Not submitted                | KEY CN               | Canada                   | F                           |
| Kinder Morgan Inc.  | Not submitted                | KMI US               | United States of America | F                           |
| KOÇ HOLDİNG A.Ş.<br>KOZA ANADOLU METAL MADENCİLİK<br>İŞLETMELERİ A.Ş. | Not submitted  Not submitted | KCHOL TI<br>KOZAA TI | Turkey<br>Turkey         | F<br>F                      |
| Lubelski Węgiel BOGDANKA S.A.   | Not submitted                | LWB PW               | Poland                   | F                           |
| Lukoil 0A0  | Not submitted                | LKOH RM              | Russian Federation       | F                           |
| Lundin Petroleum  |                              | LUPE SS              | Sweden                   | F                           |
|   | Not submitted                | LYC AU               |                          |                             |
| Lynas Corporation   | Not submitted                |                      | Australia                | F                           |
| Marathon Oil Corporation  | Not submitted                | MRO US               | United States of America | F                           |
| Marathon Petroleum  | Not submitted                | MPC US               | United States of America | F                           |
| MOL Nyrt.   | Submitted                    | MOL HB               | Hungary                  | <u>C</u>                    |
| Murphy Oil Corporation  | Not submitted                | MUR US               | United States of America | F                           |
| National Oilwell Varco, Inc.  | Not submitted                | NOV US               | United States of America | F                           |
| Naturgy Energy Group SA   | Submitted                    | NTGY SM              | Spain                    | С                           |
| Neste Oyj   | Submitted                    | NESTE FH             | Finland                  | B-                          |
| New Hope  | Not submitted                | NHC AU               | Australia                | F                           |
| Newfield Exploration Co   | Not submitted                | NFX US               | United States of America | F                           |
| Nexa Resources SA   | Submitted                    | NEXA CN              | Brazil                   | Not scored                  |
| Noble Energy, Inc.  | Not submitted                | NBL US               | United States of America | F                           |
| Noble Group   | Not submitted                | NOBL SP              | Singapore                | F                           |
| Novatek OAO   | Not submitted                | NVTK RM              | Russian Federation       | F                           |
| Occidental Petroleum Corporation                                      | Submitted                    | OXY US               | United States of America | С                           |
| Oil & Natural Gas   | Not submitted                | ONGC IN              | India                    | F                           |
| Oil Search  | Submitted                    | OSH AU               | Australia                | С                           |
| OMV AG  | Submitted                    | OMV AV               | Austria                  | Not scored                  |
| Oneok Inc.  | Not submitted                | OKE US               | United States of America | F                           |

| Company  | Response Status              | Ticker           | Country HQ   | CDP Water<br>Security Score |
|--|------------------------------|------------------|--|-----------------------------|
| PETROCHINA Company Limited                             | Not submitted                | 857 HK           | China  | F                           |
| Petrofac   | Not submitted                | PFC LN           | United Kingdom of Great Britain and Northern Ireland | F                           |
| Petróleo Brasileiro SA - Petrobras                     | Submitted                    | PETR3 BZ         | Brazil   | A-                          |
| Petronas Dagangan Berhad                               | Not submitted                | PETD MK          | Malaysia   | F                           |
| Peyto Exploration & Development Corp.                  | Not submitted                | PEY CN           | Canada   | F                           |
| Phillips 66  | Not submitted                | PSX US           | United States of America                             | F                           |
| Pioneer Natural Resources                              | Not submitted                | PXD US           | United States of America                             | F                           |
| Polski Koncern Naftowy ORLEN                           | Not submitted                | PKN PW           | Poland   | F                           |
| Polskie Górnictwo Naftowe i Gazownictwo SA             | Not submitted                | PGN PW           | Poland   | F                           |
| PTT  | Submitted                    | PTT TB           | Thailand   | B-                          |
| PTT Exploration & Production Public Company<br>Limited | Submitted                    | PTTEP TB         | Thailand   | В                           |
| Range Resources Corp.                                  | Not submitted                | RRC US           | United States of America                             | F                           |
| Reliance Industries                                    | Not submitted                | RIL IN           | India  | F                           |
| Repsol   | Not submitted                | REP SM           | Spain  | F                           |
| Rosneft Oil Company                                    | Submitted                    | ROSN RM          | Russian Federation                                   | Not scored                  |
| Royal Dutch Shell                                      | Not submitted                | RDSA LN          | Netherlands  | F                           |
| Saipem   | Not submitted                | SPM IM           | Italy  | F                           |
| Santos   | Not submitted                | STO AU           | Australia  | <br>F                       |
| Schlumberger Limited                                   | Not submitted                | SLB US           | United States of America                             | <br>F                       |
| Seven Generations Energy                               | Not submitted                | VII CN           | Canada   | <br>F                       |
| Showa Shell Sekiyu K. K.                               | Submitted                    | 5002 JP          | Japan  | C                           |
| SK Innovation Co Ltd                                   | Not submitted                | 096770 KS        | Republic of Korea                                    | <br>F                       |
| S-Oil Corp   | Not submitted                | 010950 KS        | Republic of Korea                                    | <br>F                       |
| Snam S.P.A   | Submitted                    | SRG IM           | Italy  | C                           |
| Southwestern Energy                                    | Not submitted                | SWN US           | United States of America                             | F                           |
| Spectra Energy Corp                                    | Submitted (see another)      | SE US            | United States of America                             | Enbridge Inc.<br>(C)        |
| Suncor Energy Inc.                                     | Submitted                    | SUCN             | Canada   | B-                          |
| Surgutneftegas OAO                                     | Not submitted                | SNGSP RM         | Russian Federation                                   | F                           |
| Tatneft OAO  | Not submitted                | TATN RM          | Russian Federation                                   | <br>F                       |
| TechnipFMC   | Submitted                    | FTIFP            | France   | C                           |
| Thai Oil Public Company Limited                        | Not submitted                | TOP TB           | Thailand   | F                           |
| Tonen General Sekiyu K.K.                              | Not submitted                | 5012 JP          | Japan  | F                           |
| Total  | Submitted                    | FP FP            | France   | A-                          |
| Tourmaline Oil Corp                                    | Submitted                    | TOU CN           | Canada   | Not scored                  |
| TransCanada Corporation                                | Not submitted                | TRP CN           | Canada   | F                           |
| Transneft OAO  | Not submitted                | TRNFP RM         | Russian Federation                                   | F                           |
| Transocean Ltd.  | Not submitted                | RIGN SW          | Switzerland  | F                           |
| TÜPRAŞ-TÜRKİYE PETROL RAFİNERİLERİ A.Ş.                | Not submitted                | TUPRS TI         | Turkey   | <br>F                       |
|  |                              |                  |  | F                           |
| Valero Energy Corporation  Vermilion Energy Inc.       | Not submitted  Not submitted | VLO US<br>VET CN | United States of America Canada                      | F                           |
|  |                              |                  |  |                             |
| Vopak  | Submitted                    | VPK NA           | Netherlands  | Not scored                  |
| Whitehaven Coal  | Not submitted                | WHC AU           | Australia  | F                           |
| Williams Companies, Inc.                               | Not submitted                | WMB US           | United States of America                             | F                           |
| Woodside Petroleum                                     | Not submitted                | WPL AU           | Australia  | F                           |
| Yanzhou Coal Mining  Hospitality                       | Not submitted                | 1171 HK          | China  | F                           |
|  |                              |                  |  | _                           |
| AccorHotels  | Not submitted                | AC FP            | France   | F                           |
| ARAMARK CORPORATION                                    | Not submitted                | ARMK US          | United States of America                             | F                           |
| Arcos Dorados  | Submitted                    | ARCO US          | Brazil   | Not scored                  |

| Company   | Response Status         | Ticker      | Country HQ   | CDP Water<br>Security Score   |
|---|-------------------------|-------------|--|-------------------------------|
| Caesars Entertainment                               | Submitted               | CZR US      | United States of America                             | В                             |
| Chipotle Mexican Grill                              | Not submitted           | CMG US      | United States of America                             | F                             |
| Compass   | Submitted               | CPG LN      | United Kingdom of Great Britain and Northern Ireland | B-                            |
| Darden Restaurants, Inc.                            | Not submitted           | DRIUS       | United States of America                             | F                             |
| DO & CO AG  | Not submitted           | DOC AV      | Austria  | F                             |
| Domino's Pizza Enterprises                          | Not submitted           | DMP AU      | Australia  | F                             |
| Hilton Worldwide, Inc.                              | Submitted               | HLT US      | United States of America                             | В                             |
| Hosken Consolidated Investments                     | Submitted               | HCISJ       | South Africa   | В                             |
| Intercontinental Hotels Group                       | Submitted               | IHG LN      | United Kingdom of Great Britain and Northern Ireland | С                             |
| Jollibee Foods                                      | Not submitted           | JFC PM      | Philippines  | F                             |
| Las Vegas Sands Corporation                         | Submitted               | LVS US      | United States of America                             | А                             |
| Marriott International, Inc.                        | Submitted               | MAR US      | United States of America                             | С                             |
| McDonald's Holdings Company (Japan), Ltd.           | Submitted (see another) | 2702 JP     | Japan  | McDonald's<br>Corporation (C) |
| McDonald's Corporation                              | Submitted               | MCD US      | United States of America                             | С                             |
| NET HOLDING A.Ş.                                    | Not submitted           | NTHOL TI    | Turkey   | F                             |
| Oriental Land Co Ltd.                               | Not submitted           | 4661 JP     | Japan  | F                             |
| Resorttrust Inc                                     | Not submitted           | 4681 JP     | Japan  | F                             |
| Restaurant Brands International                     | Not submitted           | QSR CN      | Canada   | F                             |
| Seibu Holdings Inc.                                 | Not submitted           | 9024 JP     | Japan  | F                             |
| Shangri-La Asia                                     | Submitted               | 69 HK       | China, Hong Kong Special<br>Administrative Region    | D                             |
| Skylark Co., Ltd.                                   | Not submitted           | 3197 JP     | Japan  | F                             |
| Sodexo  | Submitted               | SW FP       | France   | С                             |
| Starbucks Corporation                               | Submitted               | SBUX US     | United States of America                             | С                             |
| Sun International Ltd                               | Submitted               | SUISJ       | South Africa   | B-                            |
| Tabcorp Holdings                                    | Submitted               | TAH AU      | Australia  | С                             |
| Virgin Active South Africa (Pty) Ltd                | Submitted               | 0332966D SJ | South Africa   | Not scored                    |
| Whitbread Plc                                       | Not submitted           | WTB LN      | United Kingdom of Great Britain and Northern Ireland | F                             |
| Wyndham Destinations, Inc.                          | Not submitted           | WYND US     | United States of America                             | F                             |
| Yum China Holdings Inc                              | Not submitted           | YUMC US     | China  | F                             |
| Yum! Brands, Inc.                                   | Submitted               | YUM US      | United States of America                             | В                             |
| Zensho Holdings Co., Ltd.                           | Not submitted           | 7550 JP     | Japan  | F                             |
| Infrastructure                                      |                         |             |  |                               |
| Aboitiz Equity Ventures                             | Not submitted           | AEV PM      | Philippines  | F                             |
| Aboitiz Power Corporation                           | Not submitted           | AP PM       | Philippines  | F                             |
| ACCIONA S.A.  | Submitted               | ANA SM      | Spain  | Α                             |
| Aeon Mall Co., Ltd.                                 | Submitted               | 8905 JP     | Japan  | Not scored                    |
| ALARKO HOLDİNG                                      | Not submitted           | ALARK TI    | Turkey   | F                             |
| AltaGas Ltd.  | Not submitted           | ALA CN      | Canada   | F                             |
| Ameren Corporation                                  | Submitted               | AEE US      | United States of America                             | С                             |
| Arabtec Holding                                     | Not submitted           | ARTC UH     | United Arab Emirates                                 | F                             |
| ATCO Ltd.   | Not submitted           | ACO/X CN    | Canada   | F                             |
| CenterPoint Energy, Inc.                            | Not submitted           | CNP US      | United States of America                             | F                             |
| Centrais Eletricas Brasileiras S/A (ELETROBRAS)     | Submitted               | ELET3 BZ    | Brazil   | В                             |
| China Communications Construction                   | Not submitted           | 1800 HK     | China  | F                             |
| China Railway Construction                          | Not submitted           | 601186 CH   | China  | F                             |
| China State Construction International Holdings Ltd | Submitted               | 3311 HK     | China  | C                             |
| Chiyoda Corporation                                 | Not submitted           | 6366 JP     | Japan  | F                             |

| Company                                   | Response Status         | Ticker     | Country HQ   | CDP Water<br>Security Score   |
|---|-------------------------|------------|--|-------------------------------|
| Cia Paranaense de Energia - COPEL         | Not submitted           | CPLE3 BZ   | Brazil   | F                             |
| CIMIC Group                               | Submitted               | CIM AU     | Australia  | B-                            |
| Colbun SA                                 | Submitted               | COLBUN CI  | Chile  | B-                            |
| Companhia Energetica Minas Gerais - CEMIG | Submitted               | CMIG3 BZ   | Brazil   | A-                            |
| Consolidated Edison, Inc.                 | Not submitted           | ED US      | United States of America   | F                             |
| Contact Energy                            | Submitted               | CEN NZ     | New Zealand  | Not scored                    |
| CPFL Energia SA                           | Submitted               | CPFE3 BZ   | Brazil   | D                             |
| Daelim Industrial                         | Not submitted           | 000210 KS  | Republic of Korea  | F                             |
| Daiwa House Industry Co., Ltd.            | Submitted               | 1925 JP    | Japan  | A-                            |
| ENEA S.A.                                 | Not submitted           | ENA PW     | Poland   | F                             |
| Enel Americas S.A.                        | Not submitted           | ENELAM CI  | Chile  | F                             |
| ENEL SpA                                  | Submitted               | ENEL IM    | Italy  | B-                            |
| ENGIE Brasil Energia S.A.                 | Not submitted           | EGIE3 BS   | Brazil   | F                             |
| ENN Energy Holdings                       | Not submitted           | 2688 HK    | China  | F                             |
| FERROVIAL                                 | Submitted               | FER SM     | Spain  | В                             |
| FirstEnergy Corporation                   | Submitted               | FE US      | United States of America   | B-                            |
| Fluor Corporation                         | Submitted               | FLR US     | United States of America   | C-                            |
| Fortis Inc.                               | Not submitted           | FTS CN     | Canada   | F                             |
| GAIL                                      | Not submitted           | GAIL IN    | India  | F                             |
| Gamuda                                    | Not submitted           | GAM MK     | Malaysia   | F                             |
| HDC Holdings                              | Not submitted           | 012630 KS  | Republic of Korea  | F                             |
| Hewlett Packard Enterprise Company        | Submitted               | HPE US     | United States of America   | A-                            |
| Hong Kong & China Gas Company Limited     | Submitted               | 3 HK       | China, Hong Kong Special<br>Administrative Region                              | Not scored                    |
| Hyundai E&C                               | Submitted               | 000720 KS  | Republic of Korea  | С                             |
| lida Group Holdings                       | Not submitted           | 3291 JP    | Japan  | F                             |
| IJM Corp Bhd                              | Not submitted           | IJM MK     | Malaysia   | F                             |
| Kajima Corporation                        | Submitted               | 1812 JP    | Japan  | C                             |
| Korea Electric Power Corp                 | Not submitted           | 015760 KS  | Republic of Korea  |                               |
| Korea Gas Corp                            | Not submitted           | 036460 KS  | Republic of Korea  | F                             |
| Korea Hydro & Nuclear Power Co., Ltd      | Not submitted           | 015760 KS  | Republic of Korea  | F                             |
| Korea Midland Power                       | Not submitted           | KOMIPO KS  | Republic of Korea  | F                             |
| Korea South-East Power                    | Not submitted           | KOSEPCO KS | Republic of Korea  | -<br>F                        |
| Korea Southern Power                      | Not submitted           | KOSPO KS   | Republic of Korea  | F                             |
| Korea Western Power                       | Not submitted           | KOWEPO KS  | Republic of Korea  |                               |
| Kunlun Energy Company Limited             | Not submitted           | 135 HK     | China, Hong Kong Special Administrative Region                                 | F                             |
| KYUDENKO                                  | Not submitted           | 1959 JP    | Japan  | F                             |
| Larsen & Toubro                           | Not submitted           | LT IN      | India  | F                             |
| Lennar Corporation                        | Not submitted           | LEN US     | United States of America   |                               |
| Morgan Sindall Group plc                  | Submitted               | MGNS LN    | United States of America  United Kingdom of Great Britain and Northern Ireland | Not scored                    |
| MRV Engenharia e Participações            | Submitted               | MRVE3 BZ   | Brazil   | Not scored                    |
| Murray & Roberts Holdings Limited         | Submitted               | MUR SJ     | South Africa   | В                             |
| National Grid PLC                         | Submitted               | NG. LN     | United Kingdom of Great Britain and Northern Ireland                           | B-                            |
| NiSource Inc.                             | Submitted               | NIUS       | United States of America   | С                             |
| Obrascon Huarte Lain (OHL)                | Submitted               | OHL SM     | Spain  | B-                            |
| Panasonic Homes Co., Ltd.                 | Submitted (see another) | 1924 JP    | Japan  | Panasonic<br>Corporation (B-) |
| Pennon Group                              | Submitted               | PNN LN     | United Kingdom of Great Britain and Northern Ireland                           | C                             |
| PG&E Corporation                          | Submitted               | PCG US     | United States of America   | С                             |

| Company                              | Response Status | Ticker    | Country HQ   | CDP Water<br>Security Score |
|--------------------------------------|-----------------|-----------|--|-----------------------------|
| PJSC Gazprom                         | Submitted       | GAZP RM   | Russian Federation                                   | С                           |
| Posco Energy                         | Not submitted   | PSCPWZ KS | Republic of Korea                                    | F                           |
| PPL Corporation                      | Not submitted   | PPL US    | United States of America                             | F                           |
| Prairiesky Royalty Ltd               | Not submitted   | PSK CN    | Canada   | F                           |
| Public Service Enterprise Group Inc. | Not submitted   | PEG US    | United States of America                             | F                           |
| Qatar Electricity & Water Company    | Not submitted   | QEWS QD   | Qatar  | F                           |
| Republic Services, Inc.              | Not submitted   | RSG US    | United States of America                             | F                           |
| Samsung C&T                          | Not submitted   | 028260 KS | Republic of Korea                                    | F                           |
| Sekisui Chemical Co., Ltd.           | Submitted       | 4204 JP   | Japan  | A-                          |
| Sekisui House, Ltd.                  | Submitted       | 1928 JP   | Japan  | B-                          |
| Sempra Energy                        | Submitted       | SRE US    | United States of America                             | B-                          |
| Shanghai Industrial Holding Ltd      | Not submitted   | 363 HK    | China, Hong Kong Special<br>Administrative Region    | F                           |
| Sims Metal Management                | Submitted       | SGM AU    | Australia  | С                           |
| Sinopec Engineering Group Co Ltd     | Not submitted   | 2386 HK   | China, Hong Kong Special<br>Administrative Region    | F                           |
| SK E&S                               | Not submitted   | SKECLZ KS | Republic of Korea                                    | F                           |
| Skanska AB                           | Submitted       | SKAB SS   | Sweden   | B-                          |
| SNC-Lavalin Group Inc.               | Submitted       | SNC CN    | Canada   | С                           |
| Stericycle Inc.                      | Not submitted   | SRCL US   | United States of America                             | F                           |
| Suez                                 | Not submitted   | SEV FP    | France   | F                           |
| TAURON Polska Energia S.A.           | Not submitted   | TPE PW    | Poland   | F                           |
| Taylor Wimpey Plc                    | Submitted       | TW. LN    | United Kingdom of Great Britain and Northern Ireland | В                           |
| TEKFEN HOLDİNG A.Ş.                  | Submitted       | TKFEN TI  | Turkey   | В                           |
| The AES Corporation                  | Submitted       | AES US    | United States of America                             | В                           |
| Toho Gas Co., Ltd.                   | Not submitted   | 9533 JP   | Japan  | F                           |
| Tokyo Gas Co., Ltd.                  | Submitted       | 9531 JP   | Japan  | Not available               |
| UGI Corporation                      | Not submitted   | UGIUS     | United States of America                             | F                           |
| Umicore                              | Submitted       | UMI BB    | Belgium  | D                           |
| Uniper SE                            | Not submitted   | UN01 GR   | Germany  | F                           |
| Veolia Environnement SA              | Submitted       | VIE FP    | France   | С                           |
| VERBUND AG                           | Not submitted   | VER AV    | Austria  | F                           |
| Vinci                                | Submitted       | DG FP     | France   | С                           |
| Waste Management, Inc.               | Submitted       | WM US     | United States of America                             | В                           |
| Manufacturing                        |                 |           |  |                             |
| 3M Company                           | Submitted       | MMM US    | United States of America                             | С                           |
| ABB                                  | Submitted       | ABBN SW   | Switzerland  | Not scored                  |
| Acer Inc.                            | Not submitted   | 2353 TT   | Taiwan ROC   | F                           |
| Acuity Brands Inc                    | Not submitted   | AYIUS     | United States of America                             | F                           |
| Advanced Micro Devices, Inc          | Submitted       | AMD US    | United States of America                             | С                           |
| Advantest Corporation                | Submitted       | 6857 JP   | Japan  | С                           |
| AECI Ltd Ord                         | Submitted       | AFE SJ    | South Africa   | В                           |
| Agrium Inc.                          | Submitted       | AGU CN    | Canada   | Not available               |
| Aica Kogyo Co Ltd                    | Submitted       | 4206 JP   | Japan  | C-                          |
| Air Liquide                          | Submitted       | AI FP     | France   | D                           |
| Air Products & Chemicals, Inc.       | Submitted       | APD US    | United States of America                             | С                           |
| Air Water Inc.                       | Not submitted   | 4088 JP   | Japan  | F                           |
| Aisin Seiki Co., Ltd.                | Submitted       | 7259 JP   | Japan  | С                           |
| AKSA AKRILIK KIMYA SANAYII A.Ş.      | Submitted       | AKSA TI   | Turkey   | B-                          |
| AkzoNobel                            | Submitted       | AKZA NA   | Netherlands  | C                           |
| Albemarle Corp.                      | Not submitted   | ALB US    | United States of America                             | F                           |

| Company                                     | Response Status         | Ticker             | Country HQ   | CDP Water<br>Security Score |
|---|-------------------------|--------------------|--|-----------------------------|
| Alfa Laval Corporate AB                     | Not submitted           | ALFA SS            | Sweden   | F                           |
| Allegion Plc                                | Submitted               | ALLE US            | Ireland  | B-                          |
| Alps Electric Co., Ltd.                     | Submitted               | 6770 JP            | Japan  | С                           |
| Alstom                                      | Not submitted           | ALO FP             | France   | F                           |
| Amada Holdings, Ltd.                        | Not submitted           | 6113 JP            | Japan  | F                           |
| Amcor                                       | Submitted               | AMC AU             | Australia  | С                           |
| Ametek, Inc.                                | Not submitted           | AME US             | United States of America                             | F                           |
| AmorePacific Corporation                    | Not submitted           | 090430 KS          | Republic of Korea                                    | F                           |
| AmorePacific Group                          | Not submitted           | 002790 KS          | Republic of Korea                                    | F                           |
| Amphenol Corporation                        | Submitted               | APH US             | United States of America                             | D                           |
| Analog Devices, Inc.                        | Submitted               | ADI US             | United States of America                             | С                           |
| ANDRITZ AG                                  | Not submitted           | ANDR AV            | Austria  | F                           |
| Apple Inc.                                  | Not submitted           | AAPL US            | United States of America                             | F                           |
| Applied Materials Inc.                      | Submitted               | AMAT US            | United States of America                             | C                           |
| Aptiv                                       | Submitted               | APTV US            | United States of America                             | B-                          |
| ARÇELİK A.Ş.                                | Submitted               | ARCLK TI           | Turkey   | В                           |
| Arconic Arconic                             | Submitted               | ARNC US            | United States of America                             | Not scored                  |
| ARKEMA                                      | Submitted               | AKE FP             | France   | B-                          |
| ARREIVIA                                    | Submitted               | ANETE              | United Kingdom of Great Britain                      |                             |
| ARM Holdings                                | Submitted               | ARM LN             | and Northern Ireland                                 | С                           |
| Asahi Kasei Corporation                     | Submitted               | 3407 JP            | Japan  | В                           |
| ASELSAN ELEKTRONİK SANAYİ VE TİCARET A.Ş.   | Not submitted           | ASELS TI           | Turkey   | F                           |
| Ashland Global Holdings Inc                 | Submitted               | ASH US             | United States of America                             | Not scored                  |
| Asia Pulp & Paper                           | Not submitted           | Private<br>company | Indonesia  | F                           |
| ASM International                           | Not submitted           | ASM NA             | Netherlands  | F                           |
| ASML Holding                                | Submitted               | ASML NA            | Netherlands  | С                           |
| Assa Abloy                                  | Submitted               | ASSAB SS           | Sweden   | Not available               |
| ASUSTeK Computer Inc                        | Submitted               | 2357 TT            | Taiwan ROC   | Not scored                  |
| AT&S Austria Technologie & Systemtechnik AG | Submitted               | ATS AV             | Austria  | B-                          |
| Atlas Copco                                 | Submitted               | ATCOA SS           | Sweden   | B-                          |
| AU Optronics                                | Submitted               | 2409 TT            | Taiwan ROC   | B-                          |
| Audi AG                                     | Submitted (see another) | NSU GR             | Germany  | Volkswagen<br>AG (A-)       |
| Autoneum Management AG                      | Submitted               | AUTN SW            | Switzerland  | С                           |
| Avery Dennison Corporation                  | Submitted               | AVY US             | United States of America                             | D                           |
| Azbil Corporation                           | Submitted               | 6845 JP            | Japan  | B-                          |
| BAE Systems                                 | Not submitted           | BA/ LN             | United Kingdom of Great Britain and Northern Ireland | F                           |
| Bajaj Auto                                  | Not submitted           | BJAUT IN           | India  | F                           |
| Ball Corporation                            | Submitted               | BLL US             | United States of America                             | С                           |
| BASF SE                                     | Submitted               | BAS GR             | Germany  | A-                          |
| Beiersdorf AG                               | Submitted               | BEI GR             | Germany  | C                           |
| Bel Fuse Inc.                               | Not submitted           | BELFA US           | United States of America                             | F                           |
| Bemis Company                               | Submitted               | BMS US             | United States of America                             | B-                          |
| BillerudKorsnäs                             | Submitted               | BILL SS            | Sweden   | С                           |
| Birla Carbon                                | Submitted               | LIBCBCZ CH         | United States of America                             | C                           |
| BMW AG                                      |                         | BMW GR             |  | В                           |
|   | Submitted               |                    | Germany United States of America                     |                             |
| BorgWarner S/A                              | Submitted               | BWA US             |  | C                           |
| Braskem S/A                                 | Submitted               | BRKM3 BZ           | Brazil   | A                           |
| Brembo SpA                                  | Submitted               | BRE IM             | Italy  | A                           |
| Brilliance China Automotive Holdings Ltd    | Not submitted           | 1114 HK            | China, Hong Kong Special<br>Administrative Region    | F                           |

| Company                                      | Response Status | Ticker    | Country HQ   | CDP Water<br>Security Score |
|--|-----------------|-----------|--|-----------------------------|
| Broadcom Limited                             | Not submitted   | AVGO US   | United States of America   | F                           |
| Brother Industries, Ltd.                     | Submitted       | 6448 JP   | Japan  | B-                          |
| BYD  | Submitted       | 1211 HK   | China  | D-                          |
| Calsonic Kansei Corporation                  | Submitted       | 7248 JP   | Japan  | В                           |
| Canon Inc.                                   | Submitted       | 7751 JP   | Japan  | B-                          |
| Casio Computer Co., Ltd.                     | Submitted       | 6952 JP   | Japan  | С                           |
| Caterpillar Inc.                             | Not submitted   | CAT US    | United States of America   | F                           |
| Celanese Corporation                         | Not submitted   | CE US     | United States of America   | F                           |
| CF Industries Holdings, Inc.                 | Not submitted   | CF US     | United States of America   | F                           |
| Chongqing Changan Automobile Company Limited | Not submitted   | 200625 CH | China  | F                           |
| Church & Dwight Co., Inc                     | Not submitted   | CHD US    | United States of America   | F                           |
| Cisco Systems, Inc.                          | Submitted       | CSCO US   | United States of America   | С                           |
| Clariant AG                                  | Submitted       | CLN SW    | Switzerland  | B-                          |
| Clorox Company                               | Submitted       | CLXUS     | United States of America   | B-                          |
| CNH Industrial NV                            | Submitted       | CNHI US   | United Kingdom of Great Britain and Northern Ireland                           | А                           |
| Cobham                                       | Not submitted   | COB LN    | United Kingdom of Great Britain and Northern Ireland                           | F                           |
| Colgate Palmolive Company                    | Submitted       | CL US     | United States of America   | A-                          |
| Corning Incorporated                         | Submitted       | GLW US    | United States of America   | Not scored                  |
| Coromandel International                     | Not submitted   | CRIN IN   | India  | F                           |
| Coty Inc                                     | Not submitted   | COTYUS    | United States of America   | F                           |
| Covestro AG                                  | Not submitted   | 1COV GY   | Germany  | F                           |
| Croda International                          | Submitted       | CRDA LN   | United Kingdom of Great Britain and Northern Ireland                           | B-                          |
| Crown Holdings                               | Not submitted   | CCK US    | United States of America   | F                           |
| Cummins Inc.                                 | Submitted       | CMIUS     | United States of America   | B-                          |
| Dabur India                                  | Not submitted   | DABUR IN  | India  | F                           |
| Daicel Corporation                           | Submitted       | 4202 JP   | Japan  | С                           |
| Daifuku Co., Ltd.                            | Not submitted   | 6383 JP   | Japan  | F                           |
| Daihatsu Motor Co., Ltd.                     | Submitted       | 7262 JP   | Japan  | B-                          |
| Daikin Industries, Ltd.                      | Submitted       | 6367 JP   | Japan  | B-                          |
| Daimler AG                                   | Not submitted   | DAI GR    | Germany  | F                           |
| Darfon Electronics Corp                      | Submitted       | 8163 TT   | Taiwan ROC   | B-                          |
| Deere & Company                              | Submitted       | DE US     | United States of America   | С                           |
| Delta Electronics                            | Submitted       | 2308 TT   | Taiwan ROC   | В                           |
| Denka Company Limited                        | Not submitted   | 4061 JP   | Japan  | F                           |
| Denso Corporation                            | Submitted       | 6902 JP   | Japan  | B-                          |
| DIC Corporation                              | Submitted       | 4631 JP   | Japan  | B-                          |
| DISCO Corporation                            | Submitted       | 6146 JP   | Japan  | D                           |
| DMG Mori Seiki Co., Ltd.                     | Not submitted   | 6141 JP   | Japan  |                             |
| Dongfeng Motor Group                         | Not submitted   | 489 HK    | China  | <br>F                       |
| Doosan Heavy Industries & Construction       | Not submitted   | 034020 KS | Republic of Korea  | F                           |
| Dover Corporation                            | Submitted       | DOV US    | United States of America   | Not available               |
| DowDuPont DowDuPont                          | Submitted       | DWDP US   | United States of America   | Not scored                  |
| DS Smith Plc                                 | Submitted       | SMDS LN   | United States of America  United Kingdom of Great Britain and Northern Ireland | B                           |
| E.I. du Pont de Nemours and Company          | Submitted       | DD US     | United States of America   | С                           |
|  | Submitted       | EMN US    | United States of America   | C                           |
| Eastman Chemical Company                     |                 |           |  |                             |
| Eaton Corporation                            | Submitted       | ETN US    | United States of America   | D                           |
| Ebara Corporation                            | Submitted       | 6361 JP   | Japan  | D                           |
| Edgewell Personal Care                       | Not submitted   | EPC US    | United States of America   | F                           |
| Electrolux                                   | Submitted       | ELUXB SS  | Sweden   | Not available               |

| Company                                 | Response Status              | Ticker             | Country HQ   | CDP Water<br>Security Score |
|---|------------------------------|--------------------|--|-----------------------------|
| Emerson Electric Co.                    | Submitted                    | EMR US             | United States of America                             | D                           |
| Ems-Chemie Holding AG                   | Not submitted                | EMSN SW            | Switzerland  | F                           |
| Ericsson                                | Not submitted                | ERICB SS           | Sweden   | F                           |
| Estee Lauder Companies Inc.             | Not submitted                | EL US              | United States of America                             | F                           |
| EUROPAC Papeles Y Cartones de Europa SA | Not submitted                | PAC SM             | Spain  | F                           |
| Evonik Industries AG                    | Submitted                    | EVKIF US           | Germany  | D                           |
| EXEDY Corporation                       | Submitted                    | 7278 JP            | Japan  | B-                          |
| F5 Networks, Inc.                       | Not submitted                | FFIV US            | United States of America                             | F                           |
| Fanuc Corporation                       | Submitted                    | 6954 JP            | Japan  | D                           |
| Faurecia                                | Submitted                    | EO FP              | France   | C-                          |
| Ferrari                                 | Not submitted                | RACE IM            | Italy  | F                           |
| Fiat Chrysler Automobiles NV            | Submitted                    | FCAU US            | Italy  | В                           |
| FIRMENICH SA                            | Submitted                    | 4282549Z SM        | Switzerland  | A                           |
| First Solar Inc                         | Submitted                    | FSLR US            | United States of America                             | В                           |
| FLIR Systems                            | Not submitted                | FLIR US            | United States of America                             | F                           |
| Flowserve Corporation                   | Not submitted                | FLS US             | United States of America                             | F                           |
| FMC Corp                                | Submitted                    | FMC US             | United States of America                             | С                           |
| Ford Motor Company                      | Submitted                    | FUS                | United States of America                             | A                           |
| FORD OTOMOTIV SANAYI A.Ş.               | Submitted                    | FROTO TI           | Turkey   | C                           |
| Formosa Chemicals & Fibre Corporation   | Submitted                    | 1326 TT            | Taiwan ROC   | В                           |
| Formosa Plastics Corp                   | Not submitted                | 1301 TT            | Taiwan ROC   | F                           |
| Fortive                                 | Not submitted                | FTV UN             | United States of America                             | F                           |
| FP Corporation                          | Not submitted                | 7947 JP            |  | F                           |
| FUCHS PETROLUB SE                       |                              |                    | Japan  |                             |
|   | Submitted                    | FPE GR             | Germany  | Not scored                  |
| Fuji Electric Co., Ltd.                 | Submitted Submitted          | 6504 JP<br>4901 JP | Japan  | B-                          |
| FUJIFILM Holdings Corporation           |                              |                    | Japan  |                             |
| Fujikura Ltd.                           | Submitted                    | 5803 JP            | Japan  | B-                          |
| Fujitsu General Limited                 | Not submitted                | 6755 JP            | Japan  | F                           |
| Furukawa Electric Co., Ltd.             | Submitted                    | 5801 JP            | Japan  | B-                          |
| Garmin Ltd                              | Not submitted                | GRMN US            | United States of America                             | F                           |
| GEA Group AG  Geely Automobile Holdings | Not submitted  Not submitted | G1A GR<br>175 HK   | Germany China, Hong Kong Special                     | F                           |
|   |                              |                    | Administrative Region                                |                             |
| General Dynamics Corporation            | Not submitted                | GD US              | United States of America                             | F                           |
| General Electric Company                | Not submitted                | GE US              | United States of America                             | F                           |
| General Motors Company                  | Submitted                    | GM US              | United States of America                             | A-                          |
| Gestamp                                 | Not submitted                | 495294Z SM         | Spain  | F                           |
| Givaudan SA                             | Submitted                    | GIVN SW            | Switzerland  | A-                          |
| GKN                                     | Not submitted                | GKN LN             | United Kingdom of Great Britain and Northern Ireland | F                           |
| Glory Ltd.                              | Submitted                    | 6457 JP            | Japan  | С                           |
| Godrej Consumer Products                | Not submitted                | GCPL IN            | India  | F                           |
| GOLD CIRCUIT ELECTRONICS LTD            | Submitted                    | 2368 TT            | Taiwan ROC   | B-                          |
| Graphic Packaging                       | Submitted                    | GPK US             | United States of America                             | B-                          |
| Great Wall Motor Company (H)            | Not submitted                | 2333 HK            | China  | F                           |
| Groupe PSA                              | Not submitted                | UG FP              | France   | F                           |
| Grupa Azoty S.A.                        | Not submitted                | ATT PW             | Poland   | F                           |
| GS Yuasa Corporation                    | Submitted                    | 6674 JP            | Japan  | С                           |
| Guangzhou Automobile Group Co. Ltd      | Not submitted                | 2238 HK            | China  | F                           |
| GÜBRE FABRİKALARI T.A.Ş.                | Not submitted                | GUBRF TI           | Turkey   | F                           |
| Hanwha Chemical Corp                    | Not submitted                | 009830 KS          | Republic of Korea                                    | F                           |
| ·                                       |                              | HOG US             | United States of America                             | F                           |

| Company   | Response Status | Ticker    |   | CDP Water<br>Security Score |
|---|-----------------|-----------|---|-----------------------------|
| Harman International Industries Inc                         | Not submitted   | HAR US    | United States of America  | F                           |
| Harris Corporation  | Submitted       | HRS US    | United States of America  | B-                          |
| Hasbro, Inc.  | Submitted       | HAS US    | United States of America  | Not available               |
| Heiwa Corporation   | Not submitted   | 6412 JP   | Japan   | F                           |
| Hengan Intl Group   | Not submitted   | 1044 HK   | China   | F                           |
| Henkel AG & Co. KGaA  | Submitted       | HEN3 GR   | Germany   | B-                          |
| Hero Motocorp Ltd   | Not submitted   | HMCL IN   | India   | F                           |
| Hexagon AB  | Not submitted   | HEXAB SS  | Sweden  | F                           |
| Hindustan Unilever  | Not submitted   | HUVR IN   | India   | F                           |
| Hino Motors, Ltd.   | Submitted       | 7205 JP   | Japan   | B-                          |
| Hirose Electric Co., Ltd.                                   | Not submitted   | 6806 JP   | Japan   | F                           |
| Hitachi Chemical Company, Ltd.                              | Submitted       | 4217 JP   | Japan   | С                           |
| Hitachi Construction Machinery Co., Ltd.                    | Submitted       | 6305 JP   | Japan   | B-                          |
| Hitachi High-Technologies Corporation                       | Not submitted   | 8036 JP   | Japan   | F                           |
| Hitachi Kokusai Electric Inc                                | Submitted       | 6756 JP   | Japan   | С                           |
| Hitachi, Ltd.   | Submitted       | 6501 JP   | Japan   | В                           |
| Hon Hai Precision Industry                                  | Submitted       | 2317 TT   | Taiwan ROC  | D                           |
| Honda Motor Co., Ltd.                                       | Submitted       | 7267 JP   | Japan   | B-                          |
| Honeywell International Inc.                                | Not submitted   | HON US    | United States of America  | F                           |
| HORIBA, Ltd.  | Submitted       | 6856 JP   | Japan   | C                           |
| Hoshizaki Electric Co., Ltd.                                | Not submitted   | 6465 JP   | Japan   | F                           |
| HP Inc  | Submitted       | HPQ US    | United States of America  | В                           |
| Husqvarna AB  | Submitted       | HUSQB SS  | Sweden  | Not available               |
| Hyosung Corporation   | Not submitted   | 004800 KS | Republic of Korea   | F                           |
| Hyundai Heavy Industries Co Ltd                             | Not submitted   | 009540 KS | Republic of Korea   | F                           |
| Hyundai Mobis Co Ltd  | Not submitted   | 012330 KS | Republic of Korea   | F                           |
| Hyundai Motor Co  | Not submitted   | 005380 KS | Republic of Korea   | F                           |
| Ibiden Co., Ltd.  | Submitted       | 4062 JP   | Japan   | C                           |
| IHI Corporation   | Not submitted   | 7013 JP   | Japan   | F                           |
| Illinois Tool Works Inc.                                    | Submitted       | ITW US    | United States of America  | C                           |
| IMI plc   | Not submitted   | IMI LN    | United States of America<br>United Kingdom of Great Britain<br>and Northern Ireland | F                           |
| Incitec Pivot   | Submitted       | IPL AU    | Australia   | С                           |
| Infineon  | Submitted       | IFX GR    | Germany   | С                           |
| Ingenico  | Submitted       | ING FP    | France  | Not scored                  |
| Ingersoll-Rand Co. Ltd.                                     | Submitted       | IR US     | United States of America  | С                           |
| Inner Mongolia Junzheng Energy & Chemical Group<br>Co., Ltd | Not submitted   | 601216 CH | China   | F                           |
| Innolux Corporation   | Submitted       | 3481 TT   | Taiwan ROC  | В                           |
| Integrated Device Technology, Inc.                          | Submitted       | IDTI US   | United States of America  | D                           |
| Intel Corporation   | Submitted       | INTC US   | United States of America  | B-                          |
| International Flavors & Fragrances Inc.                     | Submitted       | IFF US    | United States of America  | A                           |
| International Paper Company                                 | Submitted       | IP US     | United States of America  | Not available               |
| Isuzu Motors Limited  | Submitted       | 7202 JP   | Japan   | B-                          |
| Japan Aviation Electronics Industry, Limited                | Not submitted   | 6807 JP   | Japan   | F                           |
| Japan Display Inc.  | Submitted       | 6740 JP   | Japan   | С                           |
| Johnson Controls International PLC                          | Submitted       | JCIUS     | United States of America  | B-                          |
| Johnson Matthey   | Submitted       | JMAT LN   | United States of America<br>United Kingdom of Great Britain<br>and Northern Ireland | B-                          |
| JSR Corporation   | Submitted       | 4185 JP   | Japan   | В                           |
|   | Submitted       | 6473 JP   | Japan   | B-                          |
| JTEKT Corporation   |                 |           |   | _                           |
| JTEKT Corporation  Juniper Networks, Inc.                   | Submitted       | JNPR US   | United States of America  | B-                          |

| Company                                 | Response Status         | Ticker     | Country HQ  | CDP Water<br>Security Score |
|---|-------------------------|------------|---|-----------------------------|
| Kansai Paint Co., Ltd.                  | Not submitted           | 4613 JP    | Japan   | F                           |
| KAO Corporation                         | Submitted               | 4452 JP    | Japan   | А                           |
| Kawasaki Heavy Industries, Ltd.         | Not submitted           | 7012 JP    | Japan   | F                           |
| Keyence Corporation                     | Not submitted           | 6861 JP    | Japan   | F                           |
| Kia Motors Corp                         | Not submitted           | 000270 KS  | Republic of Korea                                 | F                           |
| Kimberly-Clark Corporation              | Submitted               | KMB US     | United States of America                          | B-                          |
| Kimberly-Clark de México S.A.B. de C.V. | Not submitted           | KIMBERA MM | Mexico  | F                           |
| KLA                                     | Submitted               | KLAC US    | United States of America                          | D                           |
| Kobayashi Pharmaceutical Co., Ltd.      | Not submitted           | 4967 JP    | Japan   | F                           |
| Koito Manufacturing Co., Ltd.           | Submitted               | 7276 JP    | Japan   | С                           |
| Komatsu Ltd.                            | Submitted               | 6301 JP    | Japan   | A-                          |
| Kone Oyj                                | Not submitted           | KNEBV FH   | Finland   | F                           |
| Konica Minolta, Inc.                    | Submitted               | 4902 JP    | Japan   | С                           |
| Koninklijke DSM                         | Submitted               | DSM NA     | Netherlands                                       | B-                          |
| KOSE Corporation                        | Submitted               | 4922 JP    | Japan   | Not scored                  |
| Kubota Corporation                      | Submitted               | 6326 JP    | Japan   | A-                          |
| Kuraray Co., Ltd.                       | Not submitted           | 3405 JP    | Japan   | F                           |
| Kurita Water Industries Ltd.            | Submitted               | 6370 JP    | Japan   | С                           |
| Kyocera Corporation                     | Submitted               | 6971 JP    | Japan   | В                           |
| L3 Technologies, Inc.                   | Not submitted           | LLL US     | United States of America                          | F                           |
| Lam Research Corp.                      | Submitted               | LRCX US    | United States of America                          | B-                          |
| LANXESS AG                              | Not submitted           | LXS GR     | Germany   | F                           |
| Lear                                    | Submitted               | LEA US     | United States of America                          | С                           |
| Lee & Man Paper Manufacturing           | Not submitted           | 2314 HK    | China, Hong Kong Special<br>Administrative Region | F                           |
| Leggett & Platt, Inc.                   | Not submitted           | LEG US     | United States of America                          | F                           |
| LEGRAND                                 | Not submitted           | LR FP      | France  | F                           |
| Lenovo Group                            | Submitted               | 992 HK     | United States of America                          | С                           |
| Leonardo                                | Not submitted           | LDO IM     | Italy   | F                           |
| Lexmark International, Inc.             | Submitted               | LXK US     | United States of America                          | С                           |
| LG Chem Ltd                             | Submitted               | 051910 KS  | Republic of Korea                                 | В                           |
| LG Display                              | Submitted               | 034220 KS  | Republic of Korea                                 | А                           |
| LG Electronics                          | Submitted               | 066570 KS  | Republic of Korea                                 | B-                          |
| LG Household & Health Care              | Submitted               | 051900 KS  | Republic of Korea                                 | B-                          |
| LG Innotek                              | Submitted               | 011070 KS  | Republic of Korea                                 | А                           |
| Linde PLC                               | Submitted               | LIN GR     | Germany   | B-                          |
| Linear Technology Corp.                 | Submitted (see another) | LLTC US    | United States of America                          | Analog Devices,<br>Inc. (C) |
| Lintec Corporation                      | Submitted               | 7966 JP    | Japan   | С                           |
| Lion Corporation                        | Not submitted           | 4912 JP    | Japan   | F                           |
| Lite-On Technology Corporation          | Not submitted           | 2301 TT    | Taiwan ROC  | F                           |
| Lockheed Martin Corporation             | Submitted               | LMT US     | United States of America                          | В                           |
| L'Oréal                                 | Submitted               | OR FP      | France  | А                           |
| Lotte Chemical Corp                     | Not submitted           | 011170 KS  | Republic of Korea                                 | F                           |
| LyondellBasell Industries N.V.          | Not submitted           | LYB US     | Netherlands                                       | F                           |
| Mabuchi Motor Co., Ltd.                 | Not submitted           | 6592 JP    | Japan   | F                           |
| Magna International Inc.                | Submitted               | MG CN      | Canada  | С                           |
| Mahindra & Mahindra                     | Submitted               | MM IN      | India   | A-                          |
| Makita Corporation                      | Not submitted           | 6586 JP    | Japan   | F                           |
| MAN SE                                  | Submitted (see another) | MAN GR     | Germany   | Volkswagen<br>AG (A-)       |
| Maruti Suzuki India                     | Not submitted           | MSIL IN    | India   | F                           |
| Masco Corporation                       | Submitted               | MASUS      | United States of America                          | С                           |

| Company                                  | Response Status | Ticker         | Country HQ   | CDP Water<br>Security Score |
|--|-----------------|----------------|--|-----------------------------|
| Maxim Integrated Products, Inc.          | Submitted       | MXIM US        | United States of America                             | D                           |
| Mazda Motor Corporation                  | Submitted       | 7261 JP        | Japan  | B-                          |
| Meggitt                                  | Submitted       | MGGT LN        | United Kingdom of Great Britain and Northern Ireland | D                           |
| Meidensha Corporation                    | Submitted       | 6508 JP        | Japan  | С                           |
| Merck KGaA                               | Submitted       | MRK GR         | Germany  | B-                          |
| Methanex Corporation                     | Not submitted   | MX CN          | Canada   | F                           |
| Metsä Board Corporation                  | Submitted       | METSB FH       | Finland  | А                           |
| Metso                                    | Submitted       | METSO FH       | Finland  | Not scored                  |
| Mexichem SAB de CV                       | Not submitted   | MEXCHEM*<br>MM | Mexico   | F                           |
| Microchip Technology                     | Not submitted   | MCHP US        | United States of America                             | F                           |
| Micron Technology, Inc.                  | Submitted       | MU US          | United States of America                             | B-                          |
| MinebeaMitsumi Inc.                      | Submitted       | 6479 JP        | Japan  | В                           |
| Mitsubishi Chemical Holdings Corporation | Submitted       | 4188 JP        | Japan  | Α-                          |
| Mitsubishi Electric Corporation          | Submitted       | 6503 JP        | Japan  | А                           |
| Mitsubishi Gas Chemical Company, Inc.    | Submitted       | 4182 JP        | Japan  | С                           |
| Mitsubishi Heavy Industries, Ltd.        | Submitted       | 7011 JP        | Japan  | F                           |
| Mitsubishi Motors Corporation            | Submitted       | 7211 JP        | Japan  | B-                          |
| Mitsui Chemicals, Inc.                   | Submitted       | 4183 JP        | Japan  | B-                          |
| Mitsui Engineering & Shipbuilding Co Ltd | Not submitted   | 7003 JP        | Japan  | F                           |
| Miura Co., Ltd.                          | Not submitted   | 6005 JP        | Japan  | F                           |
| Molex, LLC                               | Submitted       | 0133220D US    | United States of America                             | C-                          |
| Mondi Limited                            | Not submitted   | MND SJ         | South Africa   | F                           |
| Mondi PLC                                | Submitted       | MNDI LN        | United Kingdom of Great Britain and Northern Ireland | В                           |
| Monsanto India Ltd                       | Not submitted   | MCHM IN        | India  | F                           |
| Motorola Solutions                       | Submitted       | MSI US         | United States of America                             | С                           |
| Murata Mfg. Co.                          | Submitted       | 6981 JP        | Japan  | В                           |
| Nabtesco Corporation                     | Submitted       | 6268 JP        | Japan  | А                           |
| Nampak Ltd                               | Submitted       | NPK SJ         | South Africa   | С                           |
| Nan Ya Plastics                          | Submitted       | 1303 TT        | Taiwan ROC   | В                           |
| Natura Cosmeticos SA                     | Not submitted   | NATU3 BZ       | Brazil   | F                           |
| NetApp Inc.                              | Submitted       | NTAP US        | United States of America                             | С                           |
| Newell Rubbermaid Inc.                   | Submitted       | NWL US         | United States of America                             | D                           |
| NGK Insulators, Ltd.                     | Submitted       | 5333 JP        | Japan  | B-                          |
| NGK Spark Plug Co., Ltd.                 | Submitted       | 5334 JP        | Japan  | D                           |
| NHK Spring Co., Ltd.                     | Not submitted   | 5991 JP        | Japan  | F                           |
| Nidec Corporation                        | Submitted       | 6594 JP        | Japan  | D                           |
| Nifco Inc.                               | Not submitted   | 7988 JP        | Japan  | F                           |
| Nikon Corporation                        | Submitted       | 7731 JP        | Japan  | В                           |
| Nine Dragons Paper Holdings              | Not submitted   | 2689 HK        | China, Hong Kong Special<br>Administrative Region    | F                           |
| Nippon Electric Glass Co., Ltd.          | Not submitted   | 5214 JP        | Japan  | F                           |
| Nippon Kayaku Co., Ltd.                  | Submitted       | 4272 JP        | Japan  | С                           |
| Nippon Paint Holdings Co., Ltd.          | Not submitted   | 4612 JP        | Japan  | F                           |
| Nippon Shokubai Co., Ltd.                | Submitted       | 4114 JP        | Japan  | D                           |
| Nissan Chemical Industries, Ltd.         | Submitted       | 4021 JP        | Japan  | В                           |
| Nissan Motor Co., Ltd.                   | Submitted       | 7201 JP        | Japan  | В                           |
| Nissan Shatai Co., Ltd.                  | Not submitted   | 7222 JP        | Japan  | F                           |
| Nisshinbo Holdings Inc.                  | Submitted       | 3105 JP        | Japan  | D                           |
| Nitto Denko Corporation                  | Submitted       | 6988 JP        | Japan  | B-                          |
| NOK Corporation                          | Submitted       | 7240 JP        | Japan  | С                           |

| Company                                | Response Status         | Ticker   | Country HQ   | CDP Water<br>Security Score |
|--|-------------------------|----------|--|-----------------------------|
| Nokia Group                            | Not submitted           | NOKIA FH | Finland  | F                           |
| Nordic Semiconductor ASA               | Submitted               | NOD NO   | Norway   | С                           |
| Northrop Grumman Corp                  | Not submitted           | NOC US   | United States of America                             | F                           |
| Novatek Microelectronics Ltd           | Not submitted           | 3034 TT  | Taiwan ROC   | F                           |
| Novozymes A/S                          | Submitted               | NZYMB DC | Denmark  | B-                          |
| NSK Ltd.                               | Submitted               | 6471 JP  | Japan  | С                           |
| NTN Corporation                        | Submitted               | 6472 JP  | Japan  | B-                          |
| NVIDIA Corporation                     | Submitted               | NVDA US  | United States of America                             | B-                          |
| NXP Semiconductors                     | Submitted               | NXPI US  | Netherlands  | Not scored                  |
| OCI N.V.                               | Not submitted           | OCI NA   | Netherlands  | F                           |
| Oji Holdings Corporation               | Submitted               | 3861 JP  | Japan  | B-                          |
| Okuma Corporation                      | Not submitted           | 6103 JP  | Japan  | F                           |
| OMNIA HOLDINGS LTD                     | Submitted               | OMN SJ   | South Africa   | В                           |
| OMRON Corporation                      | Submitted               | 6645 JP  | Japan  | В                           |
| Orica                                  | Not submitted           | ORI AU   | Australia  | F                           |
| Orora                                  | Submitted               | ORA AU   | Australia  | С                           |
| OSG Corporation                        | Not submitted           | 6136 JP  | Japan  | F                           |
| OSRAM Licht AG                         | Submitted               | OSR GR   | Germany  | С                           |
| OTOKAR OTOMOTİV VE SAVUNMA SANAYİ A.Ş. | Not submitted           | OTKAR TI | Turkey   | F                           |
| PACCAR Inc                             | Not submitted           | PCAR US  | United States of America                             | F                           |
| Packaging Corporation Of America       | Not submitted           | PKG US   | United States of America                             | F                           |
| Pall Corporation                       | Submitted               | PLL US   | United States of America                             | Not available               |
| Panasonic Corporation                  | Submitted               | 6752 JP  | Japan  | B-                          |
| Parker-Hannifin Corporation            | Submitted               | PH US    | United States of America                             | D                           |
| Pentair plc                            | Not submitted           | PNR US   | United States of America                             | F                           |
| PETKİM PETROKİMYA HOLDİNG A.Ş.         | Not submitted           | PETKM TI | Turkey   | F                           |
| PhosAgro OAO                           | Not submitted           | PHOR RM  | Russian Federation                                   | F                           |
| Piaggio & C SpA                        | Submitted               | PIA IM   | Italy  | B-                          |
| Pigeon Corp                            | Not submitted           | 7956 JP  | Japan  | F                           |
| Pola Orbis Holdings Inc.               | Not submitted           | 4927 JP  | Japan  | F                           |
| Polaris Industries Inc.                | Not submitted           | PII US   | United States of America                             | F                           |
| POLÍSAN HOLDÍNG A.Ş.                   | Submitted               | POLHO TI | Turkey   | С                           |
| Porsche AG                             | Submitted (see another) | PAH3 GY  | Germany  | Volkswagen<br>AG (A-)       |
| Powertech Technology Inc               | Submitted               | 6239 TT  | Taiwan ROC   | B-                          |
| PPG Industries, Inc.                   | Submitted               | PPG US   | United States of America                             | D                           |
| Praxair, Inc.                          | Submitted               | PX US    | United States of America                             | B-                          |
| Procter & Gamble Company               | Submitted               | PG US    | United States of America                             | B-                          |
| Prysmian SpA                           | Submitted               | PRY IM   | Italy  | С                           |
| PTT Global Chemical                    | Submitted               | PTTGC TB | Thailand   | B-                          |
| Qorvo                                  | Submitted               | QRVO US  | United States of America                             | Not scored                  |
| QUALCOMM Inc.                          | Submitted               | QCOM US  | United States of America                             | В                           |
| Quanta Computer                        | Submitted               | 2382 TT  | Taiwan ROC   | С                           |
| Raytheon Company                       | Submitted               | RTN US   | United States of America                             | B-                          |
| Reckitt Benckiser                      | Submitted               | RB. LN   | United Kingdom of Great Britain and Northern Ireland | В                           |
| Renault                                | Submitted               | RNO FP   | France   | B-                          |
| Renesas Electronics Corporation        | Not submitted           | 6723 JP  | Japan  | F                           |
| Rengo Co., Ltd.                        | Submitted               | 3941 JP  | Japan  | С                           |
| Ricoh Co., Ltd.                        | Submitted               | 7752 JP  | Japan  | В                           |
| Rinnai Corporation                     | Not submitted           | 5947 JP  | Japan  | F                           |
| Rockwell Automation                    | Submitted               | ROK US   | United States of America                             | D                           |

| Company  | Response Status | Ticker     | Country HQ   | CDP Water<br>Security Score |
|--|-----------------|------------|--|-----------------------------|
| Rockwell Collins, Inc.                         | Not submitted   | COL US     | United States of America                             | F                           |
| RODATA SRL                                     | Submitted       | 338686Z RO | Romania  | B-                          |
| Rohm Co., Ltd.                                 | Submitted       | 6963 JP    | Japan  | B-                          |
| Rolls-Royce                                    | Not submitted   | RR. LN     | United Kingdom of Great Britain and Northern Ireland | F                           |
| Rotork PLC                                     | Submitted       | ROR LN     | United Kingdom of Great Britain and Northern Ireland | С                           |
| Safran   | Not submitted   | SAF FP     | France   | F                           |
| Samsung Electro-Mechanics Co., Ltd.            | Submitted       | 009150 KS  | Republic of Korea                                    | С                           |
| Samsung Electronics                            | Submitted       | 005930 KS  | Republic of Korea                                    | A-                          |
| Samsung SDI                                    | Not submitted   | 006400 KS  | Republic of Korea                                    | F                           |
| Sandvik AB                                     | Not submitted   | SAND SS    | Sweden   | F                           |
| Sankyo Co., Ltd.                               | Not submitted   | 6417 JP    | Japan  | F                           |
| Sanwa Holdings Corporation                     | Not submitted   | 5929 JP    | Japan  | F                           |
| SCA  | Not submitted   | SCAB SS    | Sweden   | F                           |
| Schaeffler                                     | Submitted       | SHA GY     | Germany  | D                           |
| Schindler Holding AG                           | Not submitted   | SCHP SW    | Switzerland  | F                           |
| Schneider Electric                             | Submitted       | SU FP      | France   | B-                          |
| SCREEN Holdings CO., Ltd.                      | Submitted       | 7735 JP    | Japan  | B-                          |
| Seagate Technology LLC                         | Submitted       | STX US     | United States of America                             | В                           |
| Sealed Air Corp.                               | Not submitted   | SEE US     | United States of America                             | F                           |
| Seiko Epson Corporation                        | Submitted       | 6724 JP    | Japan  | В                           |
| Semiconductor Manufacturing International Corp | Not submitted   | 981 HK     | China, Hong Kong Special<br>Administrative Region    | F                           |
| Sensata Technologies Holding NV                | Submitted       | ST US      | Netherlands  | С                           |
| Sharp Corporation                              | Submitted       | 6753 JP    | Japan  | С                           |
| Sherwin-Williams Company                       | Submitted       | SHW US     | United States of America                             | С                           |
| Shin-Etsu Chemical Co., Ltd.                   | Submitted       | 4063 JP    | Japan  | D                           |
| Shiseido Co., Ltd.                             | Submitted       | 4911 JP    | Japan  | С                           |
| Showa Denko K.K.                               | Submitted       | 4004 JP    | Japan  | Not available               |
| Siam Cement                                    | Not submitted   | SCC TB     | Thailand   | F                           |
| Siemens AG                                     | Submitted       | SIE GR     | Germany  | B-                          |
| Sika Group AG                                  | Submitted       | SIKA SW    | Switzerland  | С                           |
| Siliconware Precision Industries Co.           | Not submitted   | 2325 TT    | Taiwan ROC   | F                           |
| Siltronic AG                                   | Submitted       | WAF GR     | Germany  | Not available               |
| SK Hynix                                       | Submitted       | 000660 KS  | Republic of Korea                                    | В                           |
| SKF  | Not submitted   | SKFA SS    | Sweden   | F                           |
| Skyworks Solutions, Inc.                       | Submitted       | SWKSUS     | United States of America                             | Not scored                  |
| SMC Corporation                                | Submitted       | 6273 JP    | Japan  | Not scored                  |
| Smiths Group                                   | Submitted       | SMIN LN    | United Kingdom of Great Britain and Northern Ireland | Not scored                  |
| Smurfit Kappa Group PLC                        | Submitted       | SKG ID     | Ireland  | B-                          |
| Snap-On Inc                                    | Not submitted   | SNA US     | United States of America                             | F                           |
| Sociedad Quimica y Minera de Chile SA          | Not submitted   | SQM/B CI   | Chile  | F                           |
| SODA SANAYİ A.Ş.                               | Not submitted   | SODA TI    | Turkey   | F                           |
| Solvay S.A.                                    | Submitted       | SOLB BB    | Belgium  | С                           |
| Sony Corporation                               | Submitted       | 6758 JP    | Japan  | В                           |
| Stanley Black & Decker, Inc.                   | Submitted       | SWK US     | United States of America                             | А                           |
| Stanley Electric Co., Ltd.                     | Not submitted   | 6923 JP    | Japan  | F                           |
| STMicroelectronics International NV            | Submitted       | STM IM     | Switzerland  | В                           |
| SUBARU CORPORATION                             | Not submitted   | 7270 JP    | Japan  | F                           |
| Sumco Corporation                              | Not submitted   | 3436 JP    | Japan  | F                           |
| Sumitomo Chemical Co., Ltd.                    | Submitted       | 4005 JP    | Japan  | В                           |

| Company                                | Response Status         | Ticker          | Country HQ   | CDP Water<br>Security Score                            |
|--|-------------------------|-----------------|--|--|
| Sumitomo Electric Industries, Ltd.     | Submitted               | 5802 JP         | Japan  | С  |
| Sumitomo Heavy Industries. Ltd.        | Submitted               | 6302 JP         | Japan  | B-   |
| SUNNYLITE TRADING CO., LTD             | Submitted               | Private company | Taiwan ROC   | Not scored   |
| Suzuki Motor Corporation               | Submitted               | 7269 JP         | Japan  | С  |
| Symrise AG                             | Submitted               | SY1 GR          | Germany  | В  |
| Syngenta AG                            | Submitted               | SYNN SW         | Switzerland  | С  |
| Synthomer plc                          | Submitted               | SYNT LN         | United Kingdom of Great Britain and Northern Ireland | С  |
| Synthos S.A.                           | Not submitted           | SNS PW          | Poland   | F  |
| Tadano Ltd                             | Not submitted           | 6395 JP         | Japan  | F  |
| Taiwan Semiconductor Manufacturing     | Submitted               | 2330 TT         | Taiwan ROC   | В  |
| Taiyo Nippon Sanso Corporation         | Submitted (see another) | 4091 JP         | Japan  | Mitsubishi<br>Chemical<br>Holdings<br>Corporation (A-) |
| Taiyo Yuden Co., Ltd.                  | Not submitted           | 6976 JP         | Japan  | F  |
| TANAX, INC.                            | Submitted               | 7781872Z JP     | Japan  | С  |
| Tata Chemicals                         | Submitted               | TTCH IN         | India  | B-   |
| Tata Motors                            | Not submitted           | TTMT IN         | India  | F  |
| TBM,. LTD                              | Submitted               | 1556417D JP     | Japan  | B-   |
| TDK Corporation                        | Submitted               | 6762 JP         | Japan  | D  |
| TE Connectivity                        | Submitted               | TEL US          | United States of America                             | С  |
| Techtronic Industries                  | Not submitted           | 669 HK          | China, Hong Kong Special<br>Administrative Region    | F  |
| Teijin Ltd.                            | Submitted               | 3401 JP         | Japan  | D  |
| Tesla Motors, Inc.                     | Not submitted           | TSLA US         | United States of America                             | F  |
| Texas Instruments Incorporated         | Submitted               | TXN US          | United States of America                             | С  |
| Textron Inc.                           | Not submitted           | TXT US          | United States of America                             | F  |
| Thales                                 | Not submitted           | H0 FP           | France   | F  |
| The Dow Chemical Company               | Submitted               | DOW US          | United States of America                             | D  |
| The Japan Steel Works, Ltd.            | Not submitted           | 5631 JP         | Japan  | F  |
| The Mosaic Company                     | Submitted               | MOSUS           | United States of America                             | В  |
| THK Co., Ltd.                          | Submitted               | 6481 JP         | Japan  | С  |
| TOFAŞ TÜRK OTOMOBİL FABRİKASI A.Ş.     | Submitted               | TOASO TI        | Turkey   | B-   |
| Tokai Rika Co., Ltd.                   | Submitted               | 6995 JP         | Japan  | С  |
| Tokyo Electron Ltd.                    | Submitted               | 8035 JP         | Japan  | B-   |
| Topcon Corp                            | Not submitted           | 7732 JP         | Japan  | F  |
| Toray Industries, Inc.                 | Submitted               | 3402 JP         | Japan  | В  |
| Toshiba Corporation                    | Submitted               | 6502 JP         | Japan  | Not available  |
| Tosoh Corporation                      | Not submitted           | 4042 JP         | Japan  | F  |
| Toto Ltd.                              | Submitted               | 5332 JP         | Japan  | B-   |
| Toyo Seikan Group Holdings, Ltd.       | Submitted               | 5901 JP         | Japan  | С  |
| Toyoda Gosei                           | Submitted               | 7282 JP         | Japan  | В  |
| Toyota Boshoku Corporation             | Submitted               | 3116 JP         | Japan  | В  |
| Toyota Industries Corporation          | Submitted               | 6201 JP         | Japan  | A  |
| Toyota Motor Corporation               | Submitted               | 7203 JP         | Japan  | Not available  |
| Transdigm Group Incorporated           | Not submitted           | TDG US          | United States of America                             | F  |
| TS Tech Co.,Ltd.                       | Submitted               | 7313 JP         | Japan  | C  |
| TÜMOSAN MOTOR VE TRAKTÖR SANAYİ A.Ş.   | Not submitted           | TMSN TI         | Turkey   | F  |
| TÜRK TRAKTÖR VE ZİRAAT MAKİNELERİ A.Ş. | Not submitted           | TTRAK TI        | Turkey   | <u>'</u>   |
| Ube Industries, Ltd.                   | Submitted               | 4208 JP         | Japan  | Not available  |
|  |                         |                 |  |  |

| Company                                  | Response Status         | Ticker      | Country HQ   | CDP Water<br>Security Score |
|--|-------------------------|-------------|--|-----------------------------|
| Uni-Charm Corporation                    | Submitted               | 8113 JP     | Japan  | С                           |
| Unilever Indonesia                       | Submitted (see another) | UNVR IJ     | Indonesia  | Unilever plc (B)            |
| Unilever Nv Cva                          | Not submitted           | UNA NA      | Netherlands  | F                           |
| Unilever plc                             | Submitted               | ULVR LN     | United Kingdom of Great Britain and Northern Ireland | В                           |
| United Microelectronics                  | Submitted               | 2303 TT     | Taiwan ROC   | В                           |
| United Technologies Corporation          | Submitted               | UTX US      | United States of America                             | B-                          |
| Ushio Inc.                               | Not submitted           | 6925 JP     | Japan  | F                           |
| Valeo Sa                                 | Submitted               | FR FP       | France   | Not available               |
| Valspar Corporation                      | Not submitted           | VAL US      | United States of America                             | F                           |
| Vestas Wind Systems A/S                  | Submitted               | VWS DC      | Denmark  | С                           |
| VESTEL BEYAZ EŞYA SANAYİ VE TİCARET A.Ş. | Submitted               | VESBE TI    | Turkey   | B-                          |
| VESTEL ELEKTRONİK SANAYİ VE TİCARET A.Ş. | Not submitted           | VESTL TI    | Turkey   | F                           |
| Volkswagen AG                            | Submitted               | VOW3 GR     | Germany  | A-                          |
| Volvo                                    | Not submitted           | VOLVB SS    | Sweden   | F                           |
| W.R. Grace & Co.                         | Not submitted           | GRA US      | United States of America                             | F                           |
| Wacker Chemie AG                         | Submitted               | WCH GR      | Germany  | Not available               |
| Wanhua Chemical Group                    | Not submitted           | 600309 CH   | China  | F                           |
| Wärtsilä Corporation                     | Not submitted           | WRT1V FH    | Finland  | F                           |
| WECKERLE                                 | Submitted               | 6302495Z GR | Germany  | Not scored                  |
| Weichai Power Co,.Ltd.                   | Not submitted           | 2338 HK     | China  | F                           |
| Weir Group                               | Not submitted           | WEIR LN     | United Kingdom of Great Britain and Northern Ireland | F                           |
| Western Digital Corp                     | Submitted               | WDC US      | United States of America                             | B-                          |
| WestRock Company                         | Submitted               | WRK US      | United States of America                             | С                           |
| Whirlpool Corporation                    | Submitted               | WHR US      | United States of America                             | Not scored                  |
| Xilinx Inc                               | Submitted               | XLNX US     | United States of America                             | Not available               |
| Xylem Inc                                | Submitted               | XYL US      | United States of America                             | В                           |
| Yamaha Corporation                       | Submitted               | 7951 JP     | Japan  | B-                          |
| Yamaha Motor Co., Ltd.                   | Submitted               | 7272 JP     | Japan  | Not available               |
| Yara International ASA                   | Submitted               | YAR NO      | Norway   | B-                          |
| Yaskawa Electric Corporation             | Not submitted           | 6506 JP     | Japan  | F                           |
| YAZICILAR HOLDİNG A.Ş.                   | Not submitted           | YAZIC TI    | Turkey   | F                           |
| Yokogawa Electric Corporation            | Submitted               | 6841 JP     | Japan  | В                           |
| Zeon Corporation                         | Submitted               | 4205 JP     | Japan  | С                           |
| Zodiac                                   | Not submitted           | ZC FP       | France   | F                           |
| Materials                                |                         |             |  |                             |
| Adelaide Brighton                        | Not submitted           | ABC AU      | Australia  | F                           |
| AFYON ÇİMENTO SANAYİ T.A.Ş.              | Not submitted           | AFYON TI    | Turkey   | F                           |
| AGC Inc.                                 | Submitted               | 5201 JP     | Japan  | В                           |
| AKÇANSA ÇİMENTO SANAYİ VE TİCARET A.Ş.   | Submitted               | AKCNS TI    | Turkey   | С                           |
| Alcoa Corp.                              | Submitted               | AA US       | United States of America                             | B-                          |
| Altri SGPS SA                            | Not submitted           | ALTR PL     | Portugal   | F                           |
| Alumina                                  | Submitted               | AWC AU      | Australia  | D                           |
| Aluminium Bahrain BSC                    | Not submitted           | ALBH BI     | Bahrain  | F                           |
| Ambuja Cements                           | Submitted               | ACEM IN     | India  | B-                          |
| ANADOLU CAM SANAYİ A.Ş.                  | Not submitted           | ANACM TI    | Turkey   | F                           |
| Anhui Conch Cement                       | Not submitted           | 914 HK      | China  | F                           |
| Ansell                                   | Submitted               | ANN AU      | Australia  | С                           |
| Arcelor Mittal South Africa Ltd          | Submitted (see another) | ACL SJ      | South Africa   | ArcelorMittal (B-)          |

| Company  | Response Status          | Ticker              | Country HQ               | CDP Water<br>Security Score |
|--|--------------------------|---------------------|--------------------------|-----------------------------|
| ArcelorMittal                                      | Submitted                | MT NA               | Luxembourg               | B-                          |
| Bengang Steel Plates Co. Ltd.                      | Not submitted            | 000761 CH           | China                    | F                           |
| Bharat Forge                                       | Not submitted            | BHFC IN             | India                    | F                           |
| BlueScope Steel                                    | Not submitted            | BSL AU              | Australia                | F                           |
| Boliden Group                                      | Not submitted            | BOLSS               | Sweden                   | F                           |
| Boral  | Not submitted            | BLD AU              | Australia                | F                           |
| BORUSAN MANNESMANN BORU SANAYİ VE<br>TİCARET A.Ş.  | Not submitted            | BRSAN TI            | Turkey                   | F                           |
| Bridgestone Corporation                            | Submitted                | 5108 JP             | Japan                    | В                           |
| BRİSA BRIDGESTONE SABANCI LASTİK SAN.VE<br>TİC.A.Ş | Submitted                | BRISA TI            | Turkey                   | В                           |
| Buzzi Unicem                                       | Not submitted            | BZU IM              | Italy                    | F                           |
| Cameco Corporation                                 | Not submitted            | CCO CN              | Canada                   | F                           |
| Cementir Holding SpA                               | Not submitted            | CEM IM              | Italy                    | F                           |
| Cementos Argos SA                                  | Submitted                | CEMARGOS CB         | Colombia                 | B-                          |
| CEMEX  | Not submitted            | CEMEXCPO<br>MM      | Mexico                   | F                           |
| Cheng Shin Rubber Industry Company Ltd             | Not submitted            | 2105 TT             | Taiwan ROC               | F                           |
| China National Building Materials Company Limited  | Not submitted            | 3323 HK             | China                    | F                           |
| China Steel Corporation                            | Submitted                | 2002 TT             | Taiwan ROC               | В                           |
| Cia. Siderurgica Nacional - CSN                    | Submitted                | CSNA3 BZ            | Brazil                   | D                           |
| ÇİMSA ÇİMENTO SANAYİ VE TİCARET A.Ş.               | Submitted                | CIMSA TI            | Turkey                   | B-                          |
| Continental AG                                     | Submitted                | CON GR              | Germany                  | B-                          |
| CRH Plc  | Not submitted            | CRH ID              | Ireland                  |                             |
| Daido Steel Co., Ltd.                              | Not submitted            | 5471 JP             | Japan                    | <br>F                       |
| Domtar Corporation                                 | Not submitted            | UFS US              | Canada                   | <br>F                       |
| Dowa Holdings Co., Ltd.                            | Not submitted            | 5714 JP             | Japan                    | <br>F                       |
| Duratex S/A  | Submitted                | DTEX3 BZ            | Brazil                   | A-                          |
| Empresas CMPC                                      | Submitted                | CMPC CI             | Chile                    | B-                          |
| EREĞLİ DEMİR VE ÇELİK FABRİKALARI T.A.Ş.           | Not submitted            | EREGL TI            | Turkey                   | F                           |
| Essity   | Submitted                | ESSITYB SS          | Sweden                   | В                           |
| Evraz PLC  | Not submitted            | EVR LN              | Russian Federation       | F                           |
| FIBRIA Celulose S/A                                | Submitted                | FIBR3 BZ            | Brazil                   | A-                          |
| Freeport-McMoRan Inc.                              | Submitted                | FCX US              | United States of America | C                           |
| Geberit AG   | Submitted                | GEBN SW             | Switzerland              | B-                          |
| Gerdau S/A   | Not submitted            | GGBR4 BZ            | Brazil                   |                             |
| GOODYEAR LASTIKLERI T.A.Ş.                         | Not submitted            | GOODY TI            | Turkey                   | '<br>F                      |
| Goodyear Tire & Rubber Company                     | Submitted                | GT US               | United States of America | B-                          |
| Grupo Argos  | Not submitted            | GRUPOARG CB         | Colombia                 | F                           |
| Grupo Mexico S.A.B. de CV                          | Not submitted            | GMEXICOB MM         | Mexico                   | <br>F                       |
| Hankook Tire Co Ltd                                | Submitted                | 161390 KS           | Republic of Korea        | C                           |
| HeidelbergCement AG                                | Submitted                | HEI GR              | · · ·                    | A-                          |
| Hindalco Industries                                | Not submitted            | HNDL IN             | Germany<br>India         | F                           |
| Hindustan Zinc                                     | Submitted                | HZ IN               | India                    | <br>В                       |
|  |                          |                     |                          |                             |
| Hitachi Metals, Ltd. Holmen                        | Submitted  Not submitted | 5486 JP<br>HOLMB SS | Japan<br>Sweden          | B-<br>F                     |
| Hyundai Steel Co                                   | Not submitted            | 004020 KS           | Republic of Korea        | F                           |
| Iberpapel Gestión                                  | Not submitted            | IBG SM              | Spain Spain              | F                           |
|  | Not submitted            |                     |                          | F                           |
| Imerys   |                          | NK FP               | France                   |                             |
| Italcementi Italcementi                            | Submitted (see another)  | IT IM               | Italy                    | HeidelbergCement<br>AG (A-) |
| Ivanhoe Mines                                      | Submitted                | IVN CN              | Canada                   | С                           |
| James Hardie Industries                            | Submitted                | JHX AU              | Ireland                  | D                           |

| Company  | Response Status     | Ticker             | Country HQ               | CDP Water<br>Security Score |
|--|---------------------|--------------------|--------------------------|-----------------------------|
| JFE Holdings, Inc.   | Submitted           | 5411 JP            | Japan                    | В                           |
| JSW Steel  | Not submitted       | JSTL IN            | India                    | F                           |
| KARDEMİR KARABÜK DEMİR ÇELİK SANAYİ VE<br>TİCARET A.Ş.           | Not submitted       | KRDMD TI           | Turkey                   | F                           |
| KAZ Minerals   | Submitted           | KAZLN              | Kazakhstan               | D-                          |
| KCC  | Not submitted       | 002380 KS          | Republic of Korea        | F                           |
| Klabin S/A   | Submitted           | KLBN4 BZ           | Brazil                   | А                           |
| Kobe Steel., Ltd.  | Submitted           | 5406 JP            | Japan                    | С                           |
| KONYA ÇİMENTO SANAYİİ A.Ş.                                       | Not submitted       | KONYA TI           | Turkey                   | F                           |
| KORDSA TEKNİK TEKSTİL A.Ş.                                       | Submitted           | KORDS TI           | Turkey                   | B-                          |
| Korea Zinc Co Ltd  | Not submitted       | 010130 KS          | Republic of Korea        | F                           |
| LafargeHolcim Ltd  | Not submitted       | LHN SW             | Switzerland              | F                           |
| LIXIL Group Corporation  | Submitted           | 5938 JP            | Japan                    | А                           |
| Mahindra Sanyo Special Steel Pvt. Ltd                            | Submitted           | 0821582D IN        | India                    | B-                          |
| Martin Marietta Materials, Inc.                                  | Not submitted       | MLM US             | United States of America | F                           |
| Maruichi Steel Tube Ltd.   | Not submitted       | 5463 JP            | Japan                    | F                           |
| Michelin   | Submitted           | ML FP              | France                   | В                           |
| Miguel Y Costas  | Submitted           | MCM SM             | Spain                    | В                           |
| Mohawk Industries, Inc.  | Not submitted       | MHK US             | United States of America | F                           |
| MYTILINEOS Holdings S.A.   | Submitted           | MYTIL GA           | Greece                   | B-                          |
| Nippon Paper Industries Co Ltd                                   | Submitted           | 3863 JP            | Japan                    | C                           |
| Nippon Sheet Glass Company, Ltd                                  | Submitted           | 5202 JP            | Japan                    | B-                          |
| Nippon Steel & Sumitomo Metal Corporation                        | Submitted           | 5401 JP            | Japan                    | B-                          |
| Nisshin Steel Holdings Co., Ltd.                                 | Not submitted       | 5413 JP            | Japan                    | F                           |
| Nokian Tyres   | Submitted           | NRE1V FH           | Finland                  | B-                          |
| Norsk Hydro  | Submitted           | NHY NO             | Norway                   | B-                          |
| Nucor Corporation  | Not submitted       | NUE US             | United States of America |                             |
| Owens Corning  | Submitted           | OC US              | United States of America | A-                          |
| Owens-Illinois   | Submitted           | OLUS               | United States of America | B-                          |
| PanAust  | Submitted           | PNA AU             | Australia                | C                           |
| Pirelli  | Submitted           | PC IM              | Italy                    | В                           |
| POSCO  | Submitted           | 005490 KS          | Republic of Korea        | A-                          |
| Resolute Forest Products Inc.                                    | Submitted           | RFP US             | Canada                   | B-                          |
| Saint-Gobain   | Submitted           | SGO FP             | France                   | B-                          |
| Sappi  | Not submitted       | SAP SJ             | South Africa             | F                           |
| Sasol Limited  | Submitted           | SOL SJ             | South Africa             | Not available               |
| Semapa - Sociedade de Investimento e Gestao<br>SGPS SA           | Not submitted       | SEM PL             | Portugal                 | F                           |
| SeverStal PAO  | Not submitted       | SVST LI            | Russian Federation       | F                           |
| Shree Cement   | Not submitted       | SRCM IN            | India                    | <br>F                       |
| South32  | Submitted           | S32 AU             | Australia                | B-                          |
| SSAB   | Not submitted       | SSABA SS           | Sweden                   |                             |
| Stora Enso Oyj   | Submitted           | STERV FH           | Finland                  | B-                          |
| Sumitomo Metal Mining Co., Ltd.                                  | Submitted           | 5713 JP            |                          | В-                          |
| Sumitomo Osaka Cement Co., Ltd.                                  |                     |                    | Japan                    |                             |
| Sumitomo Osaka Cement Co., Etd. Sumitomo Rubber Industries, Ltd. | Submitted Submitted | 5232 JP<br>5110 JP | Japan                    | Not scored<br>C             |
|  |                     |                    | Japan                    | F                           |
| Suzano Papel & Celulose  | Not submitted       | SUZB3 BZ           | Brazil                   |                             |
| T.ŞİŞE VE CAM FABRİKALARI A.Ş.                                   | Not submitted       | SISE TI            | Turkey                   | F                           |
| Taiheiyo Cement Corporation                                      | Submitted           | 5233 JP            | Japan<br>Taiwaa BOO      | C                           |
| Taiwan Cement  | Not submitted       | 1101 TT            | Taiwan ROC               | F                           |
| Tata Steel   | Submitted           | TATA IN            | India                    | B-                          |
| Tenaris S.A.   | Not submitted       | TEN IM             | Luxembourg               | F                           |

| Company                              | Response Status         | Ticker            | Country HQ   | CDP Water<br>Security Score |
|--------------------------------------|-------------------------|-------------------|--|-----------------------------|
| Titan Cement                         | Not submitted           | TITK GA           | Greece   | F                           |
| Toyo Tire Corporation                | Submitted               | 5105 JP           | Japan  | B-                          |
| TRAKYA CAM SANAYİİ A.Ş.              | Not submitted           | TRKCM TI          | Turkey   | F                           |
| Ultratech Cement                     | Not submitted           | UTCEM IN          | India  | F                           |
| United States Steel Corporation      | Not submitted           | X US              | United States of America                             | F                           |
| UPM-Kymmene Corporation              | Submitted               | UPM FH            | Finland  | В                           |
| Vedanta Resources PLC                | Not submitted           | VED LN            | United Kingdom of Great Britain and Northern Ireland | F                           |
| Voestalpine AG                       | Submitted               | VOE AV            | Austria  | B-                          |
| Vulcan Materials Company             | Not submitted           | VMC US            | United States of America                             | F                           |
| West Fraser Timber Co. Ltd.          | Not submitted           | WFT CN            | Canada   | F                           |
| Yamato Kogyo Co., Ltd.               | Not submitted           | 5444 JP           | Japan  | F                           |
| Yokohama Rubber Company, Limited     | Submitted               | 5101 JP           | Japan  | В                           |
| Mineral Extraction                   |                         |                   |  |                             |
| Acacia Mining                        | Not submitted           | ACA LN            | United Kingdom of Great Britain and Northern Ireland | F                           |
| African Rainbow Minerals             | Submitted               | ARISJ             | South Africa   | В                           |
| Agnico-Eagle Mines Limited           | Submitted               | AEM CN            | Canada   | С                           |
| Alacer Gold                          | Not submitted           | ACIVI CIN         | Turkey   |                             |
| Alamos Gold Inc.                     |                         | AGI CN            |  | <u>г</u><br>F               |
|                                      | Not submitted           |                   | Canada Russian Federation                            |                             |
| Alrosa Company Ltd<br>Anglo American | Not submitted Submitted | ALRS RM<br>AAL LN | United Kingdom of Great Britain                      | <u>г</u><br>А-              |
|                                      | Ol i++l                 | A N 4 O O L       | and Northern Ireland                                 | ^                           |
| Anglo American Platinum              | Submitted               | AMS SJ            | South Africa   | A-                          |
| AngloGold Ashanti                    | Submitted               | ANG SJ            | South Africa   | B-                          |
| Antofagasta                          | Submitted               | ANTO LN           | United Kingdom of Great Britain and Northern Ireland | С                           |
| Assore Ltd                           | Not submitted           | ASR SJ            | South Africa   | F                           |
| Aurubis AG                           | Not submitted           | NDA GR            | Germany  | F                           |
| Beadell Resources                    | Not submitted           | BDR AU            | Australia  | F                           |
| BHP                                  | Not submitted           | BHP LN            | Australia  | F                           |
| Centamin plc                         | Submitted               | CEY LN            | United Kingdom of Great Britain and Northern Ireland | B-                          |
| Coeur d'Alene Mines Corporation      | Not submitted           | CDE US            | United States of America                             | F                           |
| Eldorado Gold Corporation            | Submitted               | ELD CN            | Canada   | С                           |
| Evolution Mining                     | Not submitted           | EVN AU            | Australia  | F                           |
| First Quantum Minerals Limited       | Submitted               | FM CN             | Canada   | B-                          |
| Fortescue Metals Group               | Not submitted           | FMG AU            | Australia  | F                           |
| Fresnillo plc                        | Submitted               | FRES LN           | Mexico   | С                           |
| Gold Fields Limited                  | Submitted               | GFISJ             | South Africa   | В                           |
| Goldcorp Inc.                        | Submitted               | G CN              | Canada   | B-                          |
| Harmony Gold Mining Co Ltd           | Submitted               | HAR SJ            | South Africa   | В                           |
| HudBay Minerals Inc.                 | Submitted               | HBM CN            | Canada   | С                           |
| IAMGOLD Corporation                  | Submitted               | IMG CN            | Canada   | С                           |
| Iluka Resources                      | Not submitted           | ILU AU            | Australia  | F                           |
| Impala Platinum Holdings             | Submitted               | IMP SJ            | South Africa   | Not available               |
| Independence Group                   | Submitted               | IGO AU            | Australia  | Not scored                  |
| K + S AG                             | Submitted               | SDF GR            | Germany  | С                           |
| KGHM Polska Miedź S.A.               | Not submitted           | KGH PW            | Poland   | F                           |
| Kingsgate Consolidated               | Not submitted           | KCN AU            | Australia  | F                           |
| Kinross Gold Corporation             | Not submitted           | KCN               | Canada   | F                           |
| KOZA ALTIN İŞLETMELERİ A.Ş.          | Not submitted           | KOZAL TI          | Turkey   | F                           |

| Company  | Response Status | Ticker     | Country HQ   | CDP Water<br>Security Score |
|--|-----------------|------------|--|-----------------------------|
| Kumba Iron Ore                                 | Submitted       | KIO SJ     | South Africa   | B-                          |
| Lonmin   | Submitted       | LMI LN     | South Africa   | A-                          |
| Medusa Mining                                  | Not submitted   | MML AU     | Australia  | F                           |
| Mitsubishi Materials Corporation               | Submitted       | 5711 JP    | Japan  | С                           |
| MMC Norilsk Nickel OSJC                        | Not submitted   | GMKN RM    | Russian Federation                                   | F                           |
| New Gold Inc.                                  | Not submitted   | NGD CN     | Canada   | F                           |
| Newcrest Mining                                | Submitted       | NCM AU     | Australia  | Not scored                  |
| Newmont Mining Corporation                     | Submitted       | NEM US     | United States of America                             | В                           |
| Northam Platinum Ltd                           | Submitted       | NHM SJ     | South Africa   | B-                          |
| Petropavlovsk Plc                              | Not submitted   | POG LN     | Russian Federation                                   | F                           |
| Polyus PJSC                                    | Not submitted   | PGIL LN    | Russian Federation                                   | F                           |
| Ramelius Resources                             | Not submitted   | RMS AU     | Australia  | F                           |
| Randgold Resources                             | Submitted       | RRS LN     | United Kingdom of Great Britain and Northern Ireland | B-                          |
| Resolute Mining                                | Not submitted   | RSG AU     | Australia  | F                           |
| Rio Tinto                                      | Not submitted   | RIO AU     | United Kingdom of Great Britain and Northern Ireland | F                           |
| Royal Bafokeng Platinum Ltd                    | Submitted       | RBP SJ     | South Africa   | В                           |
| Sandfire Resources NL                          | Submitted       | SFR AU     | Australia  | C                           |
| Saracen Mineral Holdings                       | Submitted       | SAR AU     | Australia  | C                           |
| Sibanye Stillwater                             | Not submitted   | SGL SJ     | South Africa   | F                           |
| Silver Lake Resources                          | Not submitted   | SLR AU     | Australia  | F                           |
| Southern Copper Corporation                    | Not submitted   | SCCO US    | United States of America                             | F                           |
| Teck Resources Limited                         | Submitted       | TECK/A CN  | Canada   | B-                          |
| Troy Resources                                 | Not submitted   | TRY AU     | Australia  | F                           |
| Vale   | Submitted       | VALE3 BZ   | Brazil   | C                           |
| Vedanta Ltd                                    | Not submitted   | VEDL IN    | India  | F                           |
| Zijin Mining Group Co., Ltd                    | Not submitted   | 601899 CH  | China  | F                           |
|  | 140t Submitted  | 001033 011 | Offina   | ı                           |
| Power Generation                               |                 |            |  |                             |
| A2A  | Submitted       | A2A IM     | Italy  | B-                          |
| AGL Energy                                     | Not submitted   | AGL AU     | Australia  | F                           |
| AKENERJİ ELEKTRİK ÜRETİM A.Ş.                  | Submitted       | AKENR TI   | Turkey   | B-                          |
| AKSA ENERJİ ÜRETİM A.Ş.                        | Not submitted   | AKSEN TI   | Turkey   | F                           |
| Alliant Energy Corporation                     | Not submitted   | LNT US     | United States of America                             | F                           |
| American Electric Power Company, Inc.          | Submitted       | AEP US     | United States of America                             | B-                          |
| Calpine Corporation                            | Not submitted   | CPN US     | United States of America                             | F                           |
| Centrica                                       | Submitted       | CNA LN     | United Kingdom of Great Britain and Northern Ireland | B-                          |
| CEZ  | Not submitted   | CEZ CP     | Czechia  | F                           |
| CGN Power Co H                                 | Not submitted   | 1816 HK    | China, Hong Kong Special<br>Administrative Region    | F                           |
| China Power International Development Limited  | Not submitted   | 2380 HK    | China, Hong Kong Special<br>Administrative Region    | F                           |
| China Resources Power Holdings Company Limited | Not submitted   | 836 HK     | China  | F                           |
| Chubu Electric Power Co., Inc.                 | Not submitted   | 9502 JP    | Japan  | F                           |
| CLP Holdings Limited                           | Submitted       | 2 HK       | China, Hong Kong Special<br>Administrative Region    | B-                          |
| CMS Energy Corporation                         | Submitted       | CMS US     | United States of America                             | B-                          |
| Dominion Energy                                | Submitted       | D US       | United States of America                             | В                           |
| Drax Group                                     | Not submitted   | DRX LN     | United Kingdom of Great Britain and Northern Ireland | F                           |
| DTE Energy Company                             | Submitted       | DTE US     | United States of America                             | С                           |
| Duke Energy Corporation                        | Submitted       | DUK US     | United States of America                             | B-                          |

| Company  | Response Status         | Ticker            | Country HQ  | CDP Water<br>Security Scor |
|--|-------------------------|-------------------|---|----------------------------|
| EDF  | Submitted               | EDF FP            | France  | С                          |
| Edison International                                     | Not submitted           | EIX US            | United States of America                                    | F                          |
| EDP - Energias de Portugal S.A.                          | Submitted               | EDP PL            | Portugal  | В                          |
| Electric Power Development Co.,Ltd (J-POWER)             | Not submitted           | 9513 JP           | Japan   | <br>F                      |
| EnBW Energie Baden-Württemberg AG                        | Not submitted           | EBK GR            | Germany   | <br>F                      |
| Endesa   | Submitted               | ELE SM            | Spain   | В                          |
| ENGIE  | Submitted               | ENGI FP           | France  | B-                         |
| ENKA İNŞAAT VE SANAYİ A.Ş.                               | Submitted               | ENKALTI           | Turkey  | B-                         |
| Entergy Corporation                                      | Not submitted           | ETRUS             | United States of America                                    | F                          |
| Evergy, Inc.   | Not submitted           | EVRG US           | United States of America                                    | F                          |
| Exelon Corporation                                       | Submitted               | EXC US            | United States of America                                    | A-                         |
| -  | Submitted               | FORTUM FH         | Finland   | Not scored                 |
| Fortum Oyj<br>GS EPS                                     |                         | 015740 KS         |   | F Not scored               |
|  | Not submitted           |                   | Republic of Korea  China, Hong Kong Special                 | -                          |
| HK Electric Investments                                  | Submitted               | 2638 HK           | Administrative Region                                       | Not scored                 |
| Hokkaido Electric Power Co., Inc.                        | Not submitted           | 9509 JP           | Japan   | F                          |
| Hokuriku Electric Power Company                          | Not submitted           | 9505 JP           | Japan   | F                          |
| Huadian Power International Corporation Limited          | Not submitted           | 1071 HK           | China   | F                          |
| Huaneng Power International                              | Not submitted           | 902 HK            | China   | F                          |
| lberdrola SA   | Submitted               | IBE SM            | Spain   | Not availabl               |
| Korea District Heating Corp.                             | Not submitted           | 071320 KS         | Republic of Korea   | F                          |
| Korea East-West Power                                    | Not submitted           | KEWSPO KS         | Republic of Korea   | F                          |
| Kyushu Electric Power Co Inc                             | Submitted               | 9508 JP           | Japan   | B-                         |
| NextEra Energy, Inc.                                     | Not submitted           | NEE US            | United States of America                                    | F                          |
| NRG Energy Inc   | Submitted               | NRG US            | United States of America                                    | В                          |
| NTPC Ltd   | Not submitted           | NTPC IN           | India   | F                          |
| OGE Energy Corp.   | Not submitted           | OGE US            | United States of America                                    | <br>F                      |
| Origin Energy  | Submitted               | ORG AU            | Australia   | C                          |
| Pinnacle West Capital Corporation                        | Submitted               | PNW US            | United States of America                                    | B-                         |
| Polska Grupa Energetyczna (PGE) SA                       | Not submitted           | PGE PW            | Poland  | F                          |
| RusHydro JSC   | Not submitted           | HYDR RM           | Russian Federation  | F                          |
| RWE AG   | Submitted               | RWE GR            | Germany   | С                          |
|  |                         |                   | United States of America                                    | F                          |
| SCANA Corporation  | Not submitted           | SCG US            |   |                            |
| Shikoku Electric Power Co., Inc.<br>SSE                  | Not submitted Submitted | 9507 JP<br>SSE LN | Japan  United Kingdom of Great Britain and Northern Ireland | F<br>B-                    |
| Tata Power Co  | Not submitted           | TPWR IN           | India   | F                          |
| Tenaga Nasional  | Not submitted           | TNB MK            | Malaysia  | F                          |
|  | Not submitted           |                   |   |                            |
| The Chugoku Electric Power Company                       |                         | 9504 JP           | Japan   | F                          |
| The Kansai Electric Power Co., Inc. The Southern Company | Not submitted           | 9503 JP           | Japan   | F<br>F                     |
| The Tokyo Electric Power Company Holdings, Inc           | Not submitted Submitted | 9501 JP           | United States of America  Japan                             | В                          |
| (TEPCO) Tohoku Electric Power Co., Inc.                  | Not submitted           | 9506 JP           |   | F                          |
| · · · · · · · · · · · · · · · · · · ·                    |                         |                   | Japan United States of America                              |                            |
| WEC Energy Group   | Submitted               | WEC US            | United States of America                                    | С                          |
| Westar Energy, Inc.                                      | Not submitted           | WR US             | United States of America                                    | F                          |
| Xcel Energy Inc.   | Not submitted           | XEL US            | United States of America                                    | F                          |
| YTL Corp   | Not submitted           | YTL MK            | Malaysia  | F                          |
| ZORLU DOĞAL ELEKTRİK ÜRETİMİ A.Ş.                        | Submitted               | 3328393Z TI       | Turkey  | B-                         |
| ZORLU ENERJİ ELEKTRİK ÜRETİM A.Ş.                        | Submitted               | ZOREN TI          | Turkey  | B-                         |
| Retail   |                         |                   |   |                            |
| ABC-Mart, Inc.   | Not submitted           | 2670 JP           | Japan   | F                          |

# APPENDIX IV: LIST OF COMPANY RESPONSE STATUS AND SCORES

| Company   | Response Status    | Ticker      | Country HQ   | CDP Water<br>Security Sco |
|---|--------------------|-------------|--|---------------------------|
| Adastria Co., Ltd.                                    | Not submitted      | 2685 JP     | Japan  | F                         |
| Aeon Co., Ltd.  | Submitted          | 8267 JP     | Japan  | Not scored                |
| Ahold Delhaize  | Submitted          | AD NA       | Netherlands  | C-                        |
| Ain Holdings Inc                                      | Not submitted      | 9627 JP     | Japan  | F                         |
| Alimentation Couche-Tard Inc.                         | Not submitted      | ATD/A CN    | Canada   | F                         |
| Anta Sports Products Ltd                              | Not submitted      | 2020 HK     | China, Hong Kong Special<br>Administrative Region    | F                         |
| Aoyama Trading Co., Ltd.                              | Not submitted      | 8219 JP     | Japan  | F                         |
| Associated British Foods                              | Submitted          | ABF LN      | United Kingdom of Great Britain and Northern Ireland | С                         |
| Astra International                                   | Not submitted      | ASII IJ     | Indonesia  | F                         |
| Belle International                                   | Not submitted      | 1880 HK     | China, Hong Kong Special<br>Administrative Region    | F                         |
| Best Buy Co., Inc.                                    | Submitted          | BBY US      | United States of America                             | С                         |
| BGF   | Not submitted      | 027410 KS   | Republic of Korea                                    | F                         |
| Bic Camera Inc  | Submitted          | 3048 JP     | Japan  | D                         |
| Bidvest Group Ltd                                     | Not submitted      | BVT SJ      | South Africa   | F                         |
| BİM BİRLEŞİK MAĞAZALAR A.Ş.                           | Not submitted      | BIMAS TI    | Turkey   | F                         |
| Canadian Tire Corporation, Limited                    | Not submitted      | CTC CN      | Canada   | F                         |
| Carrefour   | Not submitted      | CA FP       | France   | F                         |
| CARREFOURSA CARREFOUR SABANCI TİCARET<br>MERKEZİ A.Ş. | Not submitted      | CRFSA TI    | Turkey   | F                         |
| CCC   | Not submitted      | CCC PW      | Poland   | F                         |
| Cencosud SA   | Not submitted      | CENCOSUD CI | Chile  | F                         |
| Clicks Group Ltd                                      | Submitted          | CLS SJ      | South Africa   | В                         |
| Colruyt   | Not submitted      | COLR BB     | Belgium  | F                         |
| COSMOS Pharmaceutical Corporation                     | Not submitted      | 3349 JP     | Japan  | F                         |
| Costco Wholesale Corporation                          | Not submitted      | COST US     | United States of America                             | F                         |
| CP ALL Pol  | Not submitted      | CPALL TB    | Thailand   | F                         |
| DIA   | Not submitted      | DIA SM      | Spain  | F                         |
| Dick's Sporting Goods, Inc.                           | Not submitted      | DKS US      | United States of America                             | F                         |
| Dixons Carphone                                       | Not submitted      | DC/LN       | United Kingdom of Great Britain and Northern Ireland | F                         |
| Dollar General Corporation                            | Not submitted      | DG US       | United States of America                             | F                         |
| Pollar Tree Inc                                       | Not submitted      | DLTR US     | United States of America                             | F                         |
| Pollarama Inc   | Not submitted      | DOL CN      | Canada   | F                         |
| Oon Quijote Holdings Co., Ltd.                        | Not submitted      | 7532 JP     | Japan  | F                         |
| E-MART Co., Ltd                                       | Not submitted      | 139480 KS   | Republic of Korea                                    | F                         |
| Empire Company Limited                                | Not submitted      | EMP/A CN    | Canada   | F                         |
| FamilyMart UNY Holdings Co., Ltd.                     | Not submitted      | 8028 JP     | Japan  | F                         |
| Fast Retailing Co., Ltd.                              | Submitted          | 9983 JP     | Japan  | С                         |
| F Group (Folli Follie)                                | Not submitted      | FFGRP GA    | Greece   | F                         |
| Foot Locker Inc                                       | Not submitted      | FL US       | United States of America                             | F                         |
| Foschini Group Ltd                                    | Submitted          | TFG SJ      | South Africa   | Not scored                |
| Gap Inc.  | Submitted          | GPS US      | United States of America                             | A                         |
| Genuine Parts Company                                 | Not submitted      | GPC US      | United States of America                             | F                         |
| George Weston Limited                                 | Submitted          | WN CN       | Canada   | С                         |
| Grupo Carso S.A.                                      | Not submitted      | GCARSOA1 MM | Mexico   | F                         |
| H&M Hennes & Mauritz AB                               | Submitted          | HMB SS      | Sweden   | C                         |
| H20 Retailing Corporation                             | Not submitted      | 8242 JP     | Japan  | F                         |
| Hotel Shilla Co., Ltd.                                | Not submitted      | 008770 KS   | Republic of Korea                                    | <br>F                     |
| HUGO BOSS AG  | Not submitted      | BOSS GR     | Germany  | F                         |
|   | . 101 000111111100 | 200001      | Sommery  |                           |

| Company                             | Response Status | Ticker    | Country HQ   | CDP Water<br>Security Scor |
|-------------------------------------|-----------------|-----------|--|----------------------------|
| Inditex                             | Submitted       | ITX SM    | Spain  | В                          |
| Izumi Co., Ltd.                     | Not submitted   | 8273 JP   | Japan  | F                          |
| J Sainsbury Plc                     | Submitted       | SBRY LN   | United Kingdom of Great Britain and Northern Ireland | A-                         |
| J. Front Retailing Co., Ltd.        | Not submitted   | 3086 JP   | Japan  | F                          |
| Jardine Matheson                    | Not submitted   | JM SP     | China, Hong Kong Special<br>Administrative Region    | F                          |
| Jardine Strategic                   | Not submitted   | JS SP     | China, Hong Kong Special<br>Administrative Region    | F                          |
| Jean Coutu Group Inc                | Not submitted   | PJC/A CN  | Canada   | F                          |
| Jerónimo Martins SGPS SA            | Not submitted   | JMT PL    | Portugal   | F                          |
| Kroger                              | Submitted       | KR US     | United States of America                             | Not scored                 |
| Kusuri No Aoki Holdings             | Not submitted   | 3549 JP   | Japan  | F                          |
| L Brands, Inc.                      | Not submitted   | LB US     | United States of America                             | F                          |
| Lawson, Inc.                        | Not submitted   | 2651 JP   | Japan  | F                          |
| Loblaw Companies Limited            | Not submitted   | LCN       | Canada   | F                          |
| Lojas Renner S.A.                   | Not submitted   | LREN3 BZ  | Brazil   | F                          |
| Lotte Shopping                      | Not submitted   | 023530 KS | Republic of Korea                                    | F                          |
| Lowe's Companies, Inc.              | Submitted       | LOW US    | United States of America                             | Not available              |
| LPP S.A.                            | Not submitted   | LPP PW    | Poland   | F                          |
| Lululemon Athletica Inc.            | Not submitted   | LULU US   | Canada   | F                          |
| Magnit                              | Not submitted   | MGNT RM   | Russian Federation                                   | F                          |
| Marks and Spencer Group plc         | Not submitted   | MKSLN     | United Kingdom of Great Britain and Northern Ireland | F                          |
| Massmart Holdings Ltd               | Not submitted   | MSM SJ    | South Africa   | F                          |
| Matsumotokiyoshi Holdings Co., Ltd. | Not submitted   | 3088 JP   | Japan  | F                          |
| Metro Inc.                          | Not submitted   | MRU CN    | Canada   | F                          |
| Michael Kors Holdings Ltd           | Not submitted   | CPRI US   | United States of America                             | F                          |
| MİGROS TİCARET A.Ş.                 | Submitted       | MGROS TI  | Turkey   | В                          |
| Mr Price Group Ltd                  | Not submitted   | MRP SJ    | South Africa   | F                          |
| Next                                | Not submitted   | NXT LN    | United Kingdom of Great Britain and Northern Ireland | F                          |
| Nitori Holdings Co., Ltd.           | Not submitted   | 9843 JP   | Japan  | F                          |
| Pick 'n Pay Stores Ltd              | Submitted       | PIK SJ    | South Africa   | В                          |
| Polo Ralph Lauren Corporation       | Not submitted   | RL US     | United States of America                             | F                          |
| President Chain Store Corp          | Not submitted   | 2912 TT   | Taiwan ROC   | F                          |
| Raia Drogasil SA                    | Submitted       | RADL3 BZ  | Brazil   | D                          |
| Rite Aid Corp                       | Not submitted   | RAD US    | United States of America                             | F                          |
| Ross Stores Inc                     | Not submitted   | ROST US   | United States of America                             | F                          |
| Ryohin Keikaku Co., Ltd.            | Not submitted   | 7453 JP   | Japan  | F                          |
| Seria Co Ltd                        | Not submitted   | 2782 JP   | Japan  | F                          |
| Seven & I Holdings Co., Ltd.        | Not submitted   | 3382 JP   | Japan  | F                          |
| Shimamura Co., Ltd.                 | Not submitted   | 8227 JP   | Japan  | F                          |
| Shinsegae                           | Not submitted   | 004170 KS | Republic of Korea                                    | F                          |
| Shoprite Holdings Ltd               | Submitted       | SHP SJ    | South Africa   | Not available              |
| SM Investments                      | Submitted       | SM PM     | Philippines  | D                          |
| Staples, Inc.                       | Not submitted   | SPLS US   | United States of America                             | F                          |
| Steinhoff International Holdings    | Not submitted   | SNHSJ     | South Africa   | F                          |
| Sugi Holdings Co., Ltd.             | Not submitted   | 7649 JP   | Japan  | F                          |
| Sun Art Retail Group Ltd            | Not submitted   | 6808 HK   | China, Hong Kong Special<br>Administrative Region    | F                          |
| Sundrug Co., Ltd.                   | Not submitted   | 9989 JP   | Japan  | F                          |
| Tapestry Inc                        | Submitted       | TPR US    | United States of America                             | C                          |

# APPENDIX IV: LIST OF COMPANY RESPONSE STATUS AND SCORES

| Company  | Response Status         | Ticker           | Country HQ   | CDP Water<br>Security Score |
|--|-------------------------|------------------|--|-----------------------------|
| Target Corporation   | Submitted               | TGT US           | United States of America                             | D                           |
| Tesco  | Not submitted           | TSCO LN          | United Kingdom of Great Britain and Northern Ireland | F                           |
| TESCO KİPA   | Not submitted           | KIPA TI          | Turkey   | F                           |
| The Spar Group Ltd   | Submitted               | SPP SJ           | South Africa   | B-                          |
| Tiffany & Co.  | Not submitted           | TIF US           | United States of America                             | F                           |
| TJX Companies, Inc.  | Not submitted           | TJX US           | United States of America                             | F                           |
| Truworths International  | Not submitted           | TRU SJ           | South Africa   | F                           |
| Tsuruha Holdings Inc.  | Submitted               | 3391 JP          | Japan  | Not scored                  |
| Urban Outfitters, Inc.   | Not submitted           | URBN US          | United States of America                             | F                           |
| Wal Mart de Mexico   | Submitted               | WALMEX* MM       | Mexico   | B-                          |
| Walgreens Boots Alliance   | Not submitted           | WBA US           | United States of America                             | F                           |
| Wal-Mart Stores, Inc.  | Submitted               | WMT US           | United States of America                             | С                           |
| Welcia Holdings Co Ltd   | Not submitted           | 3141 JP          | Japan  | F                           |
| Wesfarmers   | Not submitted           | WES AU           | Australia  | F                           |
| Whole Foods Market, Inc.   | Not submitted           | WFM US           | United States of America                             | F                           |
| WM Morrison Supermarkets Plc   | Submitted               | MRW LN           | United Kingdom of Great Britain and Northern Ireland | D                           |
| Woolworths Holdings Ltd  | Submitted               | WHL SJ           | South Africa   | B-                          |
| Woolworths Limited   | Not submitted           | WOW AU           | Australia  | F                           |
| Services   |                         |                  |  |                             |
| Akamai Technologies Inc  | Submitted               | AKAM US          | United States of America                             | C-                          |
| ALBARAKA TÜRK KATILIM BANKASI A.Ş.   | Submitted               | ALBRK TI         | Turkey   | С                           |
| Alfa Chemicals Ltd   | Submitted               | 1409858Z LN      | United Kingdom of Great Britain and Northern Ireland | Not scored                  |
| Aluminum Corporation of China  | Not submitted           | 2600 HK          | China  | F                           |
| Arrow Electronics Inc.   | Submitted               | ARW US           | United States of America                             | С                           |
| Autobacs Seven Co., Ltd.   | Not submitted           | 9832 JP          | Japan  | F                           |
| Avnet Inc.   | Submitted               | AVT US           | United States of America                             | D                           |
| Banco Santander  | Submitted               | SAN SM           | Spain  | С                           |
| BANDAI NAMCO Holdings Inc.   | Submitted               | 7832 JP          | Japan  | D                           |
| Bank of America  | Submitted               | BAC US           | United States of America                             | A-                          |
| Barloworld   | Submitted               | BAW SJ           | South Africa   | С                           |
| CA Technologies  | Not submitted           | CA US            | United States of America                             | F                           |
| Caixa Econômica Federal  | Submitted               | CEFN3 BZ         | Brazil   | D                           |
| CITIC Limited  | Not submitted           | 267 HK           | China, Hong Kong Special<br>Administrative Region    | F                           |
| Coway Co Ltd   | Submitted               | 021240 KS        | Republic of Korea                                    | B-                          |
| Dell Technologies  | Submitted               | DVMT US          | United States of America                             | С                           |
| E.Sun Financial Holding Co   | Submitted               | 2884 TT          | Taiwan ROC   | В                           |
| Ecolab Inc.  | Submitted               | ECL US           | United States of America                             | В                           |
| Far Eastern New Century Corporation  | Not submitted           | 1402 TT          | Taiwan ROC   | F                           |
| First Financial Holding Co   | Submitted               | 2892 TT          | Taiwan ROC   | В                           |
| Fletcher Building  | Submitted               | FBU NZ           | New Zealand  | С                           |
| Fujitsu Limited  | Submitted               | 6702 JP          | Japan  | В                           |
| Grupo Televisa S.A.  | Submitted               | TLEVICPO MM      | Mexico   | D                           |
| GS Holdings Corp   | Not submitted           | 078930 KS        | Republic of Korea                                    | F                           |
| Haier Electronics Group Co Ltd   | Submitted               | 1169 HK          | China  | Not scored                  |
| · · · · · · · · · · · · · · · · · · ·  | Submitted               | HYP SJ           | South Africa   | Not scored                  |
| Hyprop Investments Ltd   |                         |                  |  |                             |
| Hyprop Investments Ltd Imperial Holdings                                       |                         | IPL SJ           | South Africa   | F                           |
| Hyprop Investments Ltd Imperial Holdings International Business Machines (IBM) | Not submitted Submitted | IPL SJ<br>IBM US | South Africa United States of America                | F<br>C                      |

| Company                           | Response Status | Ticker      | Country HQ   | CDP Water<br>Security Sco |
|-----------------------------------|-----------------|-------------|--|---------------------------|
| Jacobs Engineering Group Inc.     | Not submitted   | JEC US      | United States of America                             | F                         |
| LG                                | Not submitted   | 003550 KS   | Republic of Korea                                    | F                         |
| Li & Fung Limited                 | Not submitted   | 494 HK      | China, Hong Kong Special<br>Administrative Region    | F                         |
| Microsoft Corporation             | Submitted       | MSFT US     | United States of America                             | А                         |
| Mitsui & Co., Ltd.                | Submitted       | 8031 JP     | Japan  | B-                        |
| Nagase & Co., Ltd.                | Submitted       | 8012 JP     | Japan  | С                         |
| NEC Corporation                   | Submitted       | 6701 JP     | Japan  | В                         |
| Pearson                           | Submitted       | PSON LN     | United Kingdom of Great Britain and Northern Ireland | С                         |
| Redefine Properties Ltd           | Submitted       | RDF SJ      | South Africa   | B-                        |
| RELX Group Plc                    | Submitted       | REL LN      | United Kingdom of Great Britain and Northern Ireland | Not available             |
| Reunert                           | Submitted       | RLO SJ      | South Africa   | С                         |
| Sanlam                            | Submitted       | SLM SJ      | South Africa   | С                         |
| Secom Co., Ltd.                   | Submitted       | 9735 JP     | Japan  | С                         |
| Sega Sammy Holdings Inc.          | Submitted       | 6460 JP     | Japan  | D                         |
| ŞEKERBANK T.A.Ş.                  | Submitted       | SKBNK TI    | Turkey   | B-                        |
| Seven Group Holdings              | Not submitted   | SVW AU      | Australia  | F                         |
| SK Chemicals                      | Not submitted   | 006120 KS   | Republic of Korea                                    | F                         |
| Sojitz Corporation                | Submitted       | 2768 JP     | Japan  | Not scored                |
| Standard Bank Group               | Submitted       | SBK SJ      | South Africa   | Not availabl              |
| Sumitomo Corporation              | Submitted       | 8053 JP     | Japan  | В                         |
| Symantec Corporation              | Submitted       | SYMC US     | United States of America                             | С                         |
| T.GARANTİ BANKASI A.Ş.            | Submitted       | GARAN TI    | Turkey   | B-                        |
| Tech Mahindra                     | Submitted       | TECHM IN    | India  | В                         |
| thyssenkrupp AG                   | Submitted       | TKA GR      | Germany  | С                         |
| Toppan Printing Co., Ltd.         | Submitted       | 7911 JP     | Japan  | С                         |
| Toyota Tsusho Corporation         | Submitted       | 8015 JP     | Japan  | В                         |
| Travis Perkins                    | Submitted       | TPK LN      | United Kingdom of Great Britain and Northern Ireland | С                         |
| TÜRKİYE HALK BANKASI A.Ş.         | Submitted       | HALKB TI    | Turkey   | B-                        |
| YAPI VE KREDİ BANKASI A.Ş.        | Submitted       | YKBNK TI    | Turkey   | В                         |
| Zardoya Otis                      | Not submitted   | ZOT SM      | Spain  | F                         |
| Transportation Services           |                 |             |  |                           |
| Carnival Corporation              | Submitted       | CCL LN      | United Kingdom of Great Britain and Northern Ireland | B-                        |
| CJ                                | Not submitted   | 001040 KS   | Republic of Korea                                    | F                         |
| CJ Cheiljedang                    | Submitted       | 097950 KS   | Republic of Korea                                    | B-                        |
| FGV Holdings Berhad               | Not submitted   | FGV MK      | Malaysia   | F                         |
| H.I.S.Co.,Ltd.                    | Not submitted   | 9603 JP     | Japan  | F                         |
| KAP Industrial Holdings Ltd       | Not submitted   | KAPSJ       | South Africa   | F                         |
| Keihan Electric Railway Co., Ltd. | Not submitted   | 9045 JP     | Japan  | F                         |
| KORAIL RAILROAD Corp.             | Submitted       | KORAILZ KS  | Republic of Korea                                    | D                         |
| Nankai Electric Railway Co., Ltd. | Submitted       | 9044 JP     | Japan  | A-                        |
| National Express Group Plc        | Submitted       | NEX LN      | United Kingdom of Great Britain and Northern Ireland | С                         |
| TAV HAVALİMANLARI HOLDİNG A.Ş.    | Submitted       | TAVHL TI    | Turkey   | С                         |
| Transnet                          | Submitted       | 4113058Z CI | South Africa   | С                         |
| TUI Group                         | Not submitted   | TUILN       | Germany  | F                         |
| Union Pacific Corporation         | Submitted       | UNP US      | United States of America                             | Not availabl              |

## APPENDIX V: INVESTOR SIGNATORIES AND MEMBERS

Key:

2018 Water members in blue and bold

3Sisters Sustainable Management LLC

AΒ

AberdeenStandard Investments

ABRAPP - Associação Brasileira das Entidades Fechadas de Previdência

Complementar

Achmea BV

**ACTIAM** 

Active Earth Investment Management

Addenda Capital Inc.

**Aegon** 

AGF Investment Inc.

AIG

AKBANK T.A.S

Aktia Bank

Alberta Investment Management Corporation

(AIMCo)

Alberta Teachers Retirement Fund

Alecta

Align Impact LLC

**Allianz Global Investors** 

Allianz Group

Alquity Investment Management Ltd

Altira Group

Amalgamated Bank

**AMF** 

**AMP Capital Investors** 

Amundi AM

ANBIMA – Associação Brasileira das Entidades dos Mercados Financeiro e de

Capitais

Antera Gestão de Recursos S.A.

APG Asset Management NV

Appleseed Fund

Aquila Capital

Arabesque Asset Management

Arisaig Partners Arjuna Capital

Armstrong Asset Management

ASM Administradora de Recursos S.A.

Assicurazioni Generali Spa

ATI Asset Management

Atlantic Asset Management Pty Ltd

**ATP Group** 

**Auriel Capital Limited** 

Ausbil Investment Management

Australia and New Zealand Banking Group

Australian Ethical Investment

AustralianSuper

Avaron Asset Management AS

avesco Financial Services AG

**Aviva Investors** 

Aviva plc

**AXA Group** 

**AXA Investment Managers** 

**Baillie Gifford & Co.** 

BaltCap

Banco Bradesco S/A

Banco BTG Pactual SA

Banco do Brasil S/A

Banco Popular Espanol S.A.

Banco Santander

Banesprev – Fundo Banespa de Seguridade

Social

Bank J. Safra Sarasin AG

**Bank of America** 

Bank of Montreal

Bank of Nova Scotia (Scotiabank)

Bankhaus Schelhammer & Schattera AG

Bankinter

Barclays

Barncancerfonden

BASF Sociedade de Previdência

Complementar

Basler Kantonalbank

Baumann and Partners S.A.

Bayern LB

BayernInvest Kapitalverwaltungsgesellschaft

mbH

**BBC Pension Trust Ltd** 

**BBVA** 

Becker College

Bedfordshire Pension Fund

Beetle Capital

**Bendigo and Adelaide Bank** 

Berti Investments

**BlackRock** 

Bluebay Asset Management LLP

Blumenthal Foundation

BM&FBOVESPA

BMO Global Asset Management

BNP Paribas Investment Partners

**BNY Mellon** 

BNY Mellon Service Kapitalanlage-

Gesellschaft mbH

Boardwalk Capital Management

**Boston Common Asset Management, LLC** 

Brasilprev Seguros e Previdência S/A.

Breckinridge Capital Advisors

British Airways Pensions

British Columbia Investment Management Corporation

Brown Advisory

BSW Wealth Partners

BT Financial Group

BT Investment Management

**CAAT Pension Plan** 

CAI Corporate Assets International AG

Caisse de dépôt et placement du Québec

Caisse des Dépôts

Caixa Econômica Federal

Caixa Geral de Depósitos

CaixaBank

Caja Ingenieros Gestión, SGIIC

California Public Employees' Retirement System (CalPERS)

California State Teachers' Retirement System (CalSTRS)

California State University, Northridge Foundation

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**Calvert Investment Management, Inc** 

Canada Pension Plan Investment Board (CPPIB)

Canadian Labour Congress Staff Pension Fund

Candriam Investors Group

CAPESESP

Capital Innovations, LLC

**Capricorn Investment Group** 

CareSuper

Carnegie Fonder

Cathay Financial Holding Catherine Donnelly Foundation

**Catholic Super** 

CBF Church of England Funds

CBRE Group, Inc.

**CCLA Investment Management Ltd** 

Celeste Funds Management

Central Finance Board of the Methodist

Church

Change Investment Management

China Development Financial Holdings

Christian Brothers Investment Services Inc.

Christian Super

Christopher Reynolds Foundation

Church Commissioners for England

Church Investment Group

Church of England Pensions Board

CI Mutual Funds' Signature Global Advisors

Cleantech Invest AG

**ClearBridge Investments** 

CM-CIC Asset Management

**CNP** Assurances

Colorado College

Columbia Threadneedle Investments

Comerica Incorporated

Comgest

Comite syndical national de retraite Bâtirente

Commerzbank AG

Commonwealth Superannuation Corporation

Compton Foundation, Inc.

Confluence Capital Management LLC

Connecticut Retirement Plans and Trust

Funds

Conser Invest

CPR AM

Credit Agricole

Credit Suisse

Credito Valtellinese

CTBC Financial Holding Co., Ltd

Cultura Bank
CUT POWER AG

Daegu Bank

Daesung Capital Management

Daiwa Securities Group Inc.

Dana Investment Advisors

Danske Bank A/S

de Pury Pictet Turrettini & Cie S.A.

de Volksbank N.V.

DekaBank Deutsche Girozentrale

Demeter Partners

Desjardins Group

Deutsche Asset Management Investmentgesellschaft mbH

Deutsche Bank AG

Deutsche Postbank AG

Development Bank of Japan Inc.

**DNB ASA** 

**DNR Capital** 

Domini Impact Investments LLC

DoubleDividend Management BV

**DWS Investments** 

DZ Bank

Earth Capital Partners LLP

East Capital AB

East Sussex Pension Fund

Ecofi Investissements - Groupe Credit

Cooperatif

Ecofin Limited

EdenTree Investment Management

**Edmond de Rothschild Asset Management** 

Edward W. Hazen Foundation

EGAMO

Ekobanken - Din Medlemsbank

Elan Capital Partners

ELETRA - Fundação Celg de Seguros e

Previdência

Elo Mutual Pension Insurance Company

Environment Agency Pension fund

Environmental Investment Services Asia

Episcopal Diocese of Massachusetts

**Epworth Investment Management** 

eQ Asset Management Ltd

equinet Bank AG

Essex Investment Management Company,

LLC

**Ethos Foundation** 

**Etica SGR** 

**Eurizon Capital SGR S.p.A.** 

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

Evangelical Lutheran Foundation of Eastern

Canada

Evangelisch-Luth. Kirche in Bayern

Evli Bank Plc

FACEB - Fundação de Previdência dos

Empregados da CEB

FAELCE – Fundacao Coelce de Seguridade

Social

FAPERS- Fundação Assistencial e Previdenciária da Extensão Rural do Rio

Grande do Sul

Federal Finance

FIDURA Private Equity Fonds

FIM Asset Management Ltd

FIM Services

Finance S.A.

Financiere de l'Echiquier

FIPECq - Fundação de Previdência

Complementar dos Empregados e Servidores

da FINEP, do IPEA, do CNPa

First Affirmative Financial Network

First Financial Holding Co

First State Superannuation Scheme

## APPENDIX V: INVESTOR SIGNATORIES AND MEMBERS

First Swedish National Pension Fund (AP1)

Folketrygdfondet

Folksam

Fondation de Luxembourg

Fondo Pegaso

Fondo Pensione Cometa

Fonds de Réserve pour les Retraites - FRR

Fonds de Solidarite FTQ

Formuesforvaltning Aktiv Forvaltning AS

Foundation North

Fourth Swedish National Pension Fund, (AP4)

FRANKFURT-TRUST Investment Gesellschaft

Friends Fiduciary Corporation

Fubon Financial Holdings

Fukoku Capital Management Inc

FUNCEF - Fundação dos Economiários Federais

Fundação AMPLA de Seguridade Social - Brasiletros

Fundação Corsan - dos Funcionários da Companhia Riograndense de Saneamento

#### **FUNDAÇÃO ITAUBANCO**

Fundação Itaúsa Industrial

FUNDAÇÃO SANEPAR DE PREVIDENCIA E ASSISTENCIA SOCIAL FUSAN

Fundação Vale do Rio Doce de Seguridade Social - VALIA

Fundação Viva de Previdência

FUNDIÁGUA - FUNDAÇÃO DE PREVIDENCIA COMPLEMENTAR DA CAESB

GameChange Capital LLC

GCA Investment Management

Gemway Assets

#### **Generation Investment Management**

Genus Capital Management

German Equity Trust AG

Global Forestry Capital S.a.r.l.

Globalance Bank

GLS Gemeinschaftsbank eG

**GMO LLC** 

**Goldman Sachs Asset Management** 

GOOD GROWTH INSTITUT für globale

Vermögensentwicklung mbH

Good Super

Great Lakes Advisors

Greater Manchester Pension Fund

Green Alpha Advisors

Green Cay Asset Management

Green Century Capital Management

Green Science Partners

Group La Française

GROUPAMA EMEKLİLİK A.Ş.

GROUPAMA SİGORTA A.Ş.

**GROUPE OFI AM** 

Grupo Financiero Banorte SAB de CV

Grupo Santander Brasil

Guardians of New Zealand Superannuation

Hana Financial Group

Hang Seng Bank

Hannon Armstrong Sustainable Infrastructure

Capital, Inc

Harbour Asset Management

Harrington Investments, Inc

Harvard Management Company

Hazel Capital LLP

HDFC Bank Ltd

Healthcare of Ontario Pension Plan (HOOPP)

Heart of England Baptist Association

Helaba Invest Kapitalanlagegesellschaft mbH

#### **Hermes Fund Managers**

HESTA

HIP Investor INC.

Holden & Partners

**HSBC Global Asset Management** 

(Deutschland) GmbH

HSBC Global Asset Management (UK)

#### **HSBC Holdings plc**

HSBC INKA Internationale Kapitalanlagegesellschaft mbH

Humanis

IDBI Bank Ltd

IDFC Ltd

IFM Investors

Iguana Investimentos

Ilmarinen Mutual Pension Insurance

Company

Impax Asset Management Group plc

Indusind Bank

Industrial Alliance Insurance and Financial

Services Inc.

**ING Group** 

Insight Investment Management (Global) Ltd

Instituto Sebrae De Seguridade Social -

SEBRAEPREV

Insurance Australia Group

Integral Investimentos

Integre Wealth Management of Raymond

James

Interfaith Center on Corporate Responsibility

(ICCR)

IntReal KAG

Invesco Asset Management

Investec plc

Investing for Good

Irish Life Investment Managers

Itaú Asset Management

Itaú Unibanco Holding S.A.

Jantz Management LLC

#### **Janus Henderson Investors**

Jarislowsky Fraser Limited

Jessie Smith Noyes Foundation

Jesuits in Britain

JLens Investor Network

Johnson Private Wealth Management

Joule Assets Inc.

JPMorgan Chase & Co.

Jubitz Family Foundation

Jupiter Asset Management

Kagiso Asset Management

Kames Capital

KBI Global Investors

KCPS and Company

Kendall Sustainable Infrastructure, LLC

Kepler Cheuvreux

KEVA

KeyCorp

KfW Bankengruppe

**KLP** 

**KPA** Pension

La Banque Postale Asset Management

La Financiere Responsable

Laird Norton Family Foundation

Landsorganisationen i Sverige

Länsförsäkringar

LaSalle Investment Management

LBBW Asset Management Investmentgesellschaft mbH

**Legal and General Investment Management** 

Legg Mason, Inc.

LGT Capital Management Ltd.

LGT Capital Partners

Light Green Advisors, LLC

Limestone Investment Management

Liontrust Asset Management PLC

Living Planet Fund Management Company

S.A.

Local Authority Pension Fund Forum

LocalTapiola Asset Management Ltd

LOGOS PORTFÖY YÖNETIMI A.Ş.

Lombard Odier

**London Pensions Fund Authority** 

Lothian Pension Fund

LUCRF Super Ludgate Investments Limited

Lutheran Council of Great Britain

Macquarie Group

Magellan Financial Group

MagNet Magyar Közösségi Bank Zrt.

Maine Public Employees Retirement System

MAMA Sustainable Incubation AG

Manulife Asset Management

**MAPFRE** 

Maple-Brown Abbott

Marc J. Lane Investment Management, Inc.

Martin Currie

Maryknoll Sisters

Maryland State Treasurer

Matthews International Capital Management,

LLC

Mediobanca

Meeschaert Gestion Privée

Mellon Capital Management

Mendesprev Sociedade Previdenciária

Mercer

Merck Family Fund

Mercy Investment Services, Inc.

Mergence Africa Investments (Pty) Limited

Merseyside Pension Fund

Metrus - Instituto de Seguridade Social

Metzler Asset Management GmbH

MFS Investment Management

Miller/Howard Investments

Mirabaud Asset Management

Missionary Oblates of Mary Immaculate

Mistra, The Swedish Foundation for Strategic Environmental Research

Mitsubishi UFJ Financial Group, Inc.

Mizuho Financial Group, Inc.

MN

Mobimo

Moneta Asset Management

Mongeral Aegon Seguros e Previdência S.A.

Montanaro Asset Management Limited

**Morgan Stanley** 

MP Investment Management A/S

MS&AD Insurance Group Holdings, Inc.

Nanuk Asset Management

Nathan Cummings Foundation, The

**National Australia Bank** 

National Bank of Canada

National Grid UK Pension Scheme

National Treasury Management Agency

Natixis SA

Natural Investments LLC

Nedbank Limited

Needmor Fund

NEI Investments

NEST - National Employment Savings Trust

Nest Sammelstiftung

**Neuberger Berman** 

New Alternatives Fund Inc.

New Amsterdam Partners LLC

New Resource Bank

New South Wales Treasury Corporation

(TCorp)

New York City Comptroller on behalf of the

NYC pension funds

New York State Common Retirement Fund (NYSCRF)

Newground Social Investment

Newton Investment Management Limited

NGS Super

Nikko Asset Management Co., Ltd.

Nissay Asset Management Corporation

NN Group NV

Nomura Holdings, Inc.

**Nordea Investment Management** 

Norfolk Pension Fund

Norges Bank Investment Management (NBIM)

North East Scotland Pension fund

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NorthStar Asset Management, Inc.

Nuveen

OceanRock Investments Inc.

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Öhman

ÖKOWORLD LUX S.A.

Old Mutual Group

Oliver Rothschild Corporate Advisors

OMERS Administration Corporation

Ontario Teachers' Pension Plan

OP Wealth Management

## APPENDIX V: INVESTOR SIGNATORIES AND MEMBERS

Oppenheim Fonds Trust GmbH

Opplysningsvesenets fond (The Norwegian Church Endowment)

OPSEU Pension Trust (OP Trust)

Osmosis Investment Management

#### **Overlook Investments Limited**

P+(DIP/JØP)

P1 Investment Management Ltd

Park Foundation

Parnassus Investments

Paul Hamlyn Foundation

Pax World Funds

PCJ Investment Counsel Ltd.

Pension Protection Fund

PensionDanmark

Pensionskasse Stadt Zürich

Perpetual Investments

#### **PFA Pension**

PGGM

Phillips, Hager & North Investment

Management Ltd.

**PHITRUST** 

Pictet Asset Management SA

Pioneer Investments

Piraeus Bank

PKA

Pluris Sustainable Investments SA

PNC Financial Services Group, Inc.

Polden Puckham Charitable Foundation

POSTALIS - Instituto de Seguridade Social dos Correios e Telégrafos

**Power Finance Corporation** 

Presbyterian Church (USA)

PREVHAB PREVIDÊNCIA COMPLEMENTAR

### PREVI Caixa de Previdência dos Funcionários do Banco do Brasil

PREVIG Sociedade de Previdência Complementar

Previnorte - Fundação de Previdência Complementar

Priests of the Sacred Heart, US Province

Progressive Asset Management, Inc.

**Prologis** 

Province of St. Joseph of the Capuchin Order

Provinzial Rheinland Holding

Prudential PLC

**PSP Investments** 

**QBE Insurance Group** 

OIC

Quotient Investors LLC

Rabobank Group

Raiffeisen Fund Management Hungary Ltd.

Raiffeisen Kapitalanlage-Gesellschaft m.b.H.

Railpen Investments

#### **RAM Active Investments**

#### **Rathbone Greenbank Investments**

#### **RBC Global Asset Management**

#### Real Grandeza Fundação de Previdência e Assistência Social

**REI Super** 

Reliance Capital Ltd

Resona Bank, Limited

Rhode Island General Treasurer

River Twice Capital Advisors, LLC

#### Robeco

#### RobecoSAM AG

Robert & Patricia Switzer Foundation

#### **Rockefeller Asset Management**

Rose Foundation for Communities and the Environment

Rothschild & Co

Rothschild Martin Maurel Asset Management

Royal London Asset Management

Ruffer LLP

Russell Investments

#### Sampension KP Livsforsikring A/S

Samsung Fire & Marine Insurance

Sanlam

Sanso Investment Solution

Santa Fé Portfolios Ltda

Santam Ltd

Sarasin & Partners

Saskatchewan Healthcare Employees' Pension Plan

#### **Schroders**

SEB Asset Management AG

Second Swedish National Pension Fund (AP2)

ŞEKERBANK T.A.Ş.

Seventh Swedish National Pension Fund (AP7)

Shinhan Bank

Siemens Kapitalanlagegesellschaft mbH

Sisters of St Francis of Philadelphia

Sisters of St. Dominic of Caldwell NJ

Sitawi Finanças do Bem

Sixth Swedish National Pension Fund (AP6)

Skandia

#### Skandinaviska Enskilda Banken AB (SEB AB)

Smith Pierce, LLC

SNW Asset Management

Social(k)

Sociedade de Previdência Complementar da

Dataprev - Prevdata

Societe Generale

Socrates Fund Management

#### Sompo Holdings, Inc

Sonen Capital LLC

Sopher Investment Management

South Yorkshire Pensions Authority

SouthPeak Investment Management

Sprucegrove Investment Management Ltd

Standard Chartered

Standish Mellon Asset Management

State Bank of India

State Street Global Advisors (SSgA)

StatewideSuper

Stewart Investors

Stone Harbor Investment Partners

Storebrand ASA

Strathclyde Pension Fund

Stratus Group

Sul América Investimentos Distribuidora de Títulos e Valores Mobiliários S.A.

Sumitomo Mitsui Financial Group

Sumitomo Mitsui Trust Holdings, Inc.

Sun Life Financial Inc.

SUSI Partners AG

Sustainable Capital

Sustainable Development Capital LLP

### Sustainable Insight Capital Management (SICM)

Svenska Handelsbanken

Svenska Kyrkan, Church of Sweden

Swedbank

Swift Foundation

Swiss Re

Sycomore Asset Management

T. Rowe Price Associates, Inc.

T.GARANTİ BANKASI A.Ş.

T.SINAİ KALKINMA BANKASI A.Ş.

Taishin Financial Holdings

Tata Capital Limited

TD Asset Management (TD Asset Management Inc. and TDAM USA Inc.)

Telluride Association

Tempis Capital Management Co., Ltd.

#### **Terra Alpha Investments LLC**

Terra Global Capital, LLC

TerraVerde Capital Management LLC

TfL Pension Fund

The Brainerd Foundation

The Bullitt Foundation

The Children's Investment Fund Foundation

The Church Pension Fund

The Clean Yield Group

The Collins Foundation

The Co-operators Group Limited

The Council of Lutheran Churches

The Daly Foundation

The Hartford Financial Services Group, Inc.

The Joseph Rowntree Charitable Trust

The McKnight Foundation

The New School

The Norinchukin Bank

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 Sustainability Group

The Trustees of Columbia University in the City of New York

The United Church of Canada - General Council

The University of Edinburgh Endowment Fund

The Wellcome Trust

Third Swedish National Pension Fund (AP3)

Tobam

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Toronto Atmospheric Fund

Trillium Asset Management, LLC

Triodos Bank

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Trusteam Finance

#### **UBS**

UniCredit

Union Asset Management Holding AG

Union Investment Privatfonds GmbH

Unipol Gruppo

UNISON staff pension scheme

UniSuper

Unitarian Universalist Association

United Church Funds

United Nations Foundation

Unity College

Universities Superannuation Scheme (USS)

#### **University of California**

University of Massachusetts Foundation

#### **University of Toronto**

University of Toronto Asset Management

Corporation (UTAM)

University of Washington

Van Lanschot NV

Vancity Group of Companies

Varma Mutual Pension Insurance Company

Ventas Inc

Veris Wealth Partners

#### **Veritas Pension Insurance**

VicSuper Pty Ltd

Victorian Funds Management Corporation

VIETNAM HOLDING ASSET MANAGEMENT

Vinva Investment Management

Voigt & Collegen

Vontobel Holding AG

Voya Investment Management

Waikato Community Trust

Walden Asset Management, a division of Boston Trust & Investment Management Company

Walter Scott & Partners Limited

Washington State Investment Board

Water Asset Management, LLC

Wells Fargo Social Impact Investing

Wespath Investment Management

West Midlands Pension Fund

West Yorkshire Pension Fund

Westpac Banking Corporation

WHEB Asset Management

White Owl Capital AG

#### **Whitley Asset Management**

Xoom Capital

YES BANK Limited

York University

Youville Provident Fund Inc.

Yuanta Financial Holdings

Zevin Asset Management

Zurich Cantonal Bank



#### This report was written in memory of Tessa Tennant, OBE

#### For more information please contact:

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