

TRANSPARENCY TO TRANSFORMATION: A CHAIN REACTION CDP Global Supply Chain Report 2020

FEBRUARY 2021



CONTENTS



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Foreword	03
Executive summary	04
About this report	06
Risks in the supply chain	09
Climate: Encouraging trends, insufficient action	12
Forests: Supply chains without chainsaws	17
Water: Trickling improvements but a wave of change is needed	22
Looking ahead	25
Appendix	27
Breakdown of risks by sector and geography	

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FOREWORD



Climate change is a constant threat to the global economy and humanity more broadly. Business must do our part to address the problem in our own operations and in the way we work with our supply chains. That is the focus we need to create a better future.

Ruth Porat Chief Financial Officer **Alphabet**

2020 brought us the unprecedented global crisis of the COVID-19 pandemic. The tragedy and challenge of COVID has been layered on top of the crisis that we recognize as climate change. Both threaten the global economy and lives worldwide, both demand strong action from the business community. We have seen the leadership role businesses have taken in the pandemic response. Business has increasingly come to focus on the actions needed to address climate change, both through individual corporate operations and those in their supply chains.

At Alphabet, we take our climate obligations seriously, and have long

made climate a focus of everything we do: how we run our data centers, build our offices and products and how we work with our supply chain. We have been carbon neutral since 2007, and in 2019 we matched 100% of our electricity consumption with renewable energy for the third year in a row.

However, we know that minimizing our own footprint is insufficient to address a problem of this magnitude. Our supply chain is part of our strategy for comprehensive climate action. As just two examples of our supply chain work; last year all of the new Pixel and Nest products were designed with recycled material, and today shipping of Google hardware to and from our direct customers is carbon neutral.

Although we are still learning and adapting, we believe lessons from past crises, most recently the pandemic, can provide direction as we take fast action on climate change. Specifically, data-driven solutions, collective action, and stakeholder engagement will be critical.

First, we should build consensus around solutions grounded in data. Drilling down on data is one of our best tools, and enables us to accurately gauge the magnitude of the problem. CDP Supply Chain is a core part of our efforts at Alphabet to build data-driven solutions to understand our total carbon footprint. With CDP, we can measure and influence how our suppliers integrate climate change into their operations. In 2020, 96% of our surveyed suppliers reported their carbon footprint, and 75% shared their targets to reduce it. This visibility allows us to better select, support, and partner with our suppliers on their climate-related targets.

Second, COVID has proven that collective action is critical to solving urgent, global challenges. No group

can go it alone -- government, communities, business and individuals all must do their part. For example, Renewable Energy Buyers Alliance (REBA) and the RE100 initiative help us work with hundreds of other businesses and non-profit organizations to advocate for renewable power. These efforts align with our efforts toward greening energy grids worldwide, such as our commitment to add 5GW of clean energy in key manufacturing regions through renewable energy investments.

Finally, we must have a clear understanding of how we can influence our partners and stakeholders to push their climate work further. At Alphabet we are committed to driving change through our work with suppliers, and need our suppliers' ambition to match our own. To nudge that along, we have recently announced a plan to develop an opensource collaborative platform to drive down the cost of renewable energy, making it accessible to more suppliers and companies.

We are committed to going even further. Looking forward, we aim to operate on 24/7 carbon-free energy by 2030, and help one billion people live more sustainably through our products. We will also continue rolling out technology to industry partners to drive climate action at scale.

There is so much more to be done, of course. We must look outside the edges of our own businesses. We need our supply chain partners, and of course, they need us, and our climate priorities can and should be part of their climate priorities. The world is out of time on this topic, and this simple focus and prioritization is essential. We must act now if we are going to avert the worst consequences of climate change.

EXECUTIVE SUMMARY

Response rate of suppliers:



52%

Climate



57%

Forests



59%

Water

To understand the environmental impact of a company's economic activity, it is not enough to look at its direct emissions and risks. The entire value chain must be engaged to evaluate and improve its performance.

This report explores the state of environmental risks in supply chains and what approaches businesses are taking to mitigate them.

Data is drawn from over **8,000** companies at all stages of the value chain who disclosed through CDP in 2020. These companies responded to requests for transparency from **154** major buyers who are members of the CDP Supply Chain program. Together these buyers spend **US \$4.3 trillion** in procurement annually and ask suppliers to provide data via CDP's disclosure platform to help them understand and address the environmental impacts and risks of their value chain. Companies must engage their supply chains and address environmental risk to remain competitive and resilient

Total financial impact reported by suppliers due to environmental risks (climate change, deforestation and water insecurity) expected in the next five years.

(\$)

US\$120 bn

A subset of the environmental risks will lead to direct costs of US\$120 billion within five years which are likely to be passed up the chain to buyers.



Suppliers are cutting their own emissions, but must improve engagement in their own supply chains.

619 million

In aggregate, suppliers undertook activities reducing GHG emissions by **619 million** metric tons and saved **US\$33.7 billion** in the process.

The scale of impact in the supply chain is increasingly being recognized by suppliers

11.4x higher 1,000+

Supply chain emissions are on average **11.4** times higher than operational emissions, more than double previous estimate, due to more comprehensive emissions accounting.

7%

of the companies who completed the CDP climate questionnaire made it onto the CDP Supplier Engagement Rating Leaderboard.

Setting targets to reduce emissions

is becoming a new business norm.

This is only achievable with strong

supply chain engagement. **1,000+** companies have set or committed

to set <u>science-based targets</u>, which usually require Scope 3 targets.

throughout the value chain (Scope 3)

Percentage of suppliers driving upstream change in their own supply chain



37%

Climate

26%

~~~~~~

18%

Water



### **ABOUT THIS REPORT**



This report has been written by CDP, using CDP's Supply Chain program data submissions to evaluate the activities of reporting organizations as a group, and to identify meaningful insights about the supply chain impacts on setting sciencebased targets, zero-deforestation and water security targets.

The CDP Supply Chain program, representing **154** member organizations with **US\$4.3 trillion** in annual procurement spend, requested that suppliers report to members on their current and future risks and opportunities related to these environmental issues.

Suppliers responded to standardized questionnaires on climate change, forests and water security: a full version and a simplified version made available for organizations with an annual turnover of less than US\$250 million or €250 million, which can also be used by larger organizations disclosing for the first time. In total **15,637** companies were invited to participate, with over **8,098** unique responses received.

Most respondents provided information on climate change, with 8,033 disclosing suppliers. A smaller number of businesses were asked to respond on forests and water issues, as these are newer additions to the CDP Supply Chain program. The Water questionnaire, introduced in 2013, was sent to 4,108 companies with 2,449 completing the questionnaire. The Forest guestionnaire, introduced in 2017, was sent to 788 companies with **448** completing the questionnaire. The analysis in this report is representative of the CDP Supply Chain program data only.

During analysis responses have been assessed and a small number of outlier data points have been manually excluded to avoid reporting misleading statistics.

#### Premium members Lead members **Microsoft Corporation** The LEGO Group Alphabet, Inc. Stanley Black & Decker, Inc. Bank of America LinkedIn Walmart, Inc. Barclays ĽOréal Bayer AG NRG Energy Inc Cementir Holding S.p.A. Ørsted Dell Inc. Philip Morris International Inc. Electrolux Signify NV J Sainsbury Plc **Target Corporation** The Coca-Cola Company JT International SA Juniper Networks, Inc Virgin Money UK Plc Climate change member Wells Fargo & Company Forests member Kellogg Company Water member Koninklijke Philips NV

### CDP Supply Chain members<sup>1</sup>

1 Not all members are publicly listed here

### CDP Supply Chain members<sup>1</sup> (continued)

| (continued)                        | Acer Inc.                 | Fatan Corporation                          |
|------------------------------------|---------------------------|--------------------------------------------|
| (continued)                        |                           | Eaton Corporation                          |
|                                    | Aguas Andinas SA          | Empresas CMPC S.A.                         |
|                                    | Airbus SE                 | Fiat Chrysler Automobiles NV               |
|                                    | Ajinomoto Co. Inc.        | FIRMENICH SA                               |
|                                    | Altria Group, Inc.        | Flowers Foods                              |
|                                    | Amdocs Ltd                | Ford Motor Company                         |
|                                    | Anheuser Busch InBev      | Fujian Sunner Group                        |
|                                    | Arcos Dorados             | Fujitsu Limited                            |
|                                    | ARKEMA                    | General Motors Company                     |
|                                    | AT&T Inc.                 | Givaudan SA                                |
|                                    | Avianca Holdings S.A.     | Grupo BIG                                  |
|                                    | Banco Bradesco S/A        | Grupo Bimbo, S.A.B. de C.V.                |
|                                    | Banco do Brasil S/A       | Grupo CCR                                  |
|                                    | BMW                       | Grupo Santander Brasil                     |
|                                    | Braskem S/A               | GSMA                                       |
|                                    | Bristol-Myers Squibb      | Hewlett Packard Enterprise                 |
|                                    | British American Tobacco  |                                            |
|                                    | BT Group                  | Honda Motor Co., Ltd.                      |
|                                    | Caesars Entertainment     | Honda North America, Inc.                  |
|                                    | Caixa Econômica Federal   | HP Inc                                     |
|                                    | CANPACK Group             | HSBC Holdings Plc                          |
|                                    | CBRE Group, Inc.          | Husqvarna AB                               |
| Lead members joining for 2021      | Cellnex Telecom SA        | Imperial Brands                            |
| Ahold Delhaize                     | Chunghwa Telecom          | Intel Corporation                          |
| Estee Lauder Companies Inc         | CIA ULTRAGAZ S/A          | International Flavors<br>& Fragrances Inc. |
|                                    | Cisco Systems, Inc.       | lochpe-Maxion S.A.                         |
| Corporate members joining for 2021 | Clorox Company            | Itaú Unibanco Holding S.A.                 |
| Advance Auto Parts, Inc.           | CNH Industrial NV         | Jaguar Land Rover Ltd                      |
| Capital One Financial              | Colgate Palmolive Company | Johnson & Johnson                          |
| Keurig Dr Pepper                   | Croda International       | KAO Corporation                            |
| Moody's Corporation                | CVS Health                |                                            |
| Senior PLC                         | Daimler AG                | Los Angeles Department                     |
| Trimble Inc.                       | Deutsche Telekom AG       | of Water and Power                         |

Corporate members

Accenture

Diageo Plc

### CDP Supply Chain members<sup>1</sup> (continued)

### Corporate members (continued)

| MasterCard Incorporated         | Sam   |
|---------------------------------|-------|
| McDonald's Corporation          | Sant  |
| MetLife, Inc.                   | Seki  |
| Metro AG                        | Sky p |
| Metropolitan Transportation     | Snar  |
| Michelin                        | SSE   |
| Ministry of the Environment,    | Stéa  |
| Government of Japan             | Swis  |
| Movida Participacoes Sa         | Sym   |
| MRV Engenharia                  | TD B  |
| e Participações                 | Telst |
| National Grid PLC               | The   |
| Naturgy Energy Group SA         | Тоуо  |
| NEC Corporation                 | U.S.  |
| NHS England and                 | Adm   |
| NHS Improvement                 | Vale  |
| Nissan Motor Co., Ltd.          | Varia |
| Nokia Group                     | Velu  |
| Nordstrom, Inc.                 | Virgi |
| One Jeanswear Group             | Visa  |
| PepsiCo, Inc.                   | VMw   |
| Pirelli                         | Voda  |
| Prudential Financial, Inc.      | Volk  |
| Prysmian SpA                    | Volve |
| Restaurant Brands International | Wal I |
| Royal Bank of Canada            | West  |
| S Group                         | Yoko  |
| S.C. Johnson & Son, Inc.        | Zuric |
|                                 |       |

| Samsung Electronics                     |  |
|-----------------------------------------|--|
| Santa Catarina                          |  |
| Sekisui Chemical Co.,Ltd.               |  |
| Sky plc                                 |  |
| Snam S.p.A                              |  |
| SSE                                     |  |
| Stéarinerie Dubois                      |  |
| Swisscom AG                             |  |
| Symrise AG                              |  |
| TD Bank Group                           |  |
| Telstra Corporation                     |  |
| The Allstate Corporation                |  |
| Toyota Motor Corporation                |  |
| U.S. General Services<br>Administration |  |
| Vale SA                                 |  |
| Varian Medical Systems, Inc             |  |
| Velux A/S                               |  |
| Virgin Management Limited               |  |
| Visa                                    |  |
| VMware, Inc.                            |  |
| Vodafone Group                          |  |
| Volkswagen AG                           |  |
| Volvo Car Group                         |  |
| Wal Mart de Mexico                      |  |
| Western Digital                         |  |
| Yokohama Rubber                         |  |

# **TACKLING RISK, BUILDING RESILIENCE:** Unlocking the power of your supply chain



# US\$1.26 tn

of revenue at risk reported by suppliers within five years

### **∠** US\$120 bn

in increased costs in the next five years due to environmental supply chain risks could be faced by corporate buyers **Environmental risks are material for business.** Addressing these through supply chain engagement is vital for companies to be competitive and resilient in the changing market and to build back better from COVID-19.

In 2020, over **8,000** suppliers disclosing through CDP reported that **US\$1.26 trillion** of revenue is likely to be at risk over the next five years due to climate change, deforestation and water insecurity. The anticipated financial risk covers potential loss of revenue due to changing consumer preferences, loss of access to capital, and increased operational costs. The increased costs alone amount to as much as **US\$120 billion**, and are caused by physical environmental impacts as well as addressing regulation and market changes.

Financial risks have a domino effect throughout the chain and corporate buyers will pay the price. Most supply chains run on very tight margins with suppliers often passing cost increases on to their customers.

Major buyers could see a hike of **US\$120 billion** in costs in the next five years, due to these environmental risks in their supply chains.

And that is only a current snapshot.

# Environmental risks are set to increase as the planet, society and economy changes.

Intensifying climate change and environmental degradation will increase the physical risks. Society will adapt in response, raising awareness, spurring action and increasing reputational and regulatory risks. So companies that fail to manage the environmental risks in their supply chain will also face greater reputational and regulatory risks.

Managing the direct environmental impact of your operations is no longer enough. Businesses must put the spotlight on - and engage - their supply chains.

Laggards that fail to take responsibility for supply chain impacts and risks will fall behind, while **leaders who manage and reduce environmental risk through supply chain collaboration will not only be more competitive today, but will be more resilient for the economic shifts of tomorrow.** 

### These leading companies include CDP's Supply Chain members.

The CDP Supply Chain program brings together a diverse group of more than **150** major purchasing organizations from around the world, with an enormous **US\$4.3 trillion** in combined procurement spend. These companies work with their suppliers to encourage disclosure, transparency, and continuous environmental improvements, thus building resilient supply chains.

### 66

These members are committed to driving action by integrating data into their purchasing processes. In 2019 **73%** of CDP Supply Chain program members when surveyed said they expect to deselect suppliers based on inadequate environmental performance.<sup>2</sup>

### +++

Additionally, **65%** of surveyed members in 2019 reported using environmental metrics, including CDP data, in their supplier relationship management processes, with a further **30%** saying they plan to reach that point in the next two years.<sup>3</sup>

### Ø

Companies are increasingly asking their suppliers to match their ambition, reduce their greenhouse gas emissions, safeguard water resources and protect forests, through setting and achieving ambitious targets.

#### လာ လာ

94% of companies with <u>science-based</u> <u>targets</u> include scope 3 emissions.



We want to do the right thing for the world around us and in 2020 we were the first Australian company to join CDP Supply Chain. This partnership helped us deliver training, tools and support to our strategic suppliers as they considered and disclosed their environmental impacts. We're now using this information to understand the volume of emissions being released from the products and services we purchase from our suppliers and to develop ambitious strategies together to further reduce them. We're buoyed by the enthusiasm and commitment of our suppliers and, while we've got a long way to go, we will reduce our impact on the environment.

Alexandru Butiri, Chief Procurement Officer, **Telstra Corporation Ltd** 



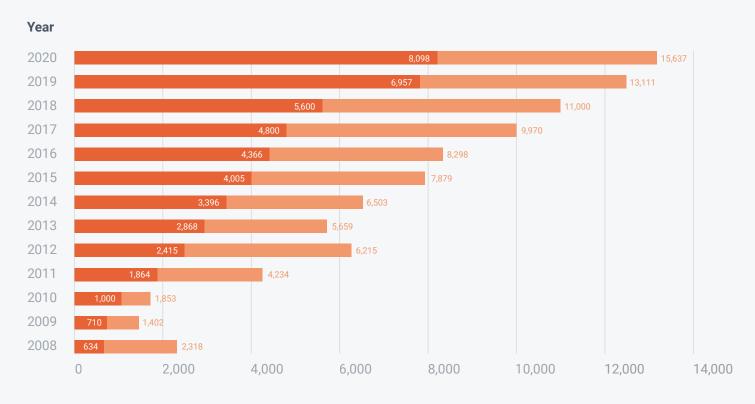
The BMW Group has set a clear target to reduce  $CO_2$  emissions by 20% for its supply chain by 2030, compared to 2019. **Our supplier network plays an integral part in meeting these goals.** We have been a member of CDP Supply Chain since 2014 in order to create transparency around the  $CO_2$  emissions of our key suppliers and engage with them to tackle climate risks and cut emissions. The BMW Group itself has reported through CDP for years and is proud to achieve a place on the 'A List' in 2020. We also use CDP company scores for our suppliers as an engagement tool.

Wolfgang Obermaier, SVP Indirect Goods and Services, Raw Material, Production Partners, **BMW** 



# **A GROWING MOVEMENT**

### Growth in CDP Supply Chain disclosures, 2008 – 2020



- Total suppliers who disclosed through CDP
- Total suppliers asked to disclose



## **CLIMATE:** Encouraging trends, insufficient action



Sekisui Chemical Group aims to achieve net-zero GHG emissions from its business operations by 2050, and we have set a science-based target which includes a 27% reduction of our scope 3 emissions by 2030. Sekisui Chemical Group engages in reducing GHG emissions throughout the supply chain by monitoring emissions at every stage, from raw material procurement to development, production, transportation and use of products.

The amount of emissions caused by purchased goods and services account for the largest proportion of our GHG emissions in Scope 3, at 50% or more. To reduce these indirect emissions, we will review the selection criteria when adopting new materials. In addition, we are engaging with our suppliers by utilizing the CDP supply chain program, in order to identify the emissions reductions of our suppliers at the stage of raw materials production.

Sekisui Chemical Group

### Decarbonizing supply chains is the key to meeting ambitious climate goals

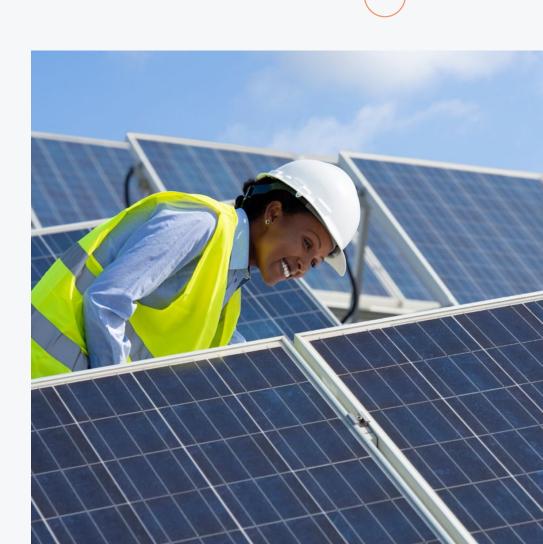
Despite the profound global disruption of COVID-19, CDP Supply Chain members continued to drive climate transparency and action in supply chains.

The number of requests for supplier disclosure from CDP Supply Chain members grew by **19%** to more than **15,000** in 2020 - a result of new members but also of existing members deepening their engagement with their supplier bases. Over half of requested suppliers responded. The information received showed progress in cutting emissions, and thereby costs, but also revealed the size of the challenge as suppliers looked more closely at their own supply chains.

6,892 suppliers in 2019 disclosed on climate. 8,033 suppliers in 2020 disclosed on climate, which

was a 52%

response rate.



Climate action is improving, with suppliers demonstrating increased emissions reductions



Suppliers represent combined 2018 greenhouse gas emissions of the US and Canada



of emissions were reduced by suppliers from 2019-2020...



### 159

...equivalent to the annual emissions of 159 coal power plants



## US\$33.7 bn

of savings from suppliers' emissions reductions Suppliers reported combined savings of **US\$33.7 billion** in 2020 through actively cutting emissions. This is a **67%** increase in cost savings compared to 2019.

Suppliers undertook activities that cut emissions by 619 million metric tons of  $CO_2e$  in the last year.

The total direct emissions by suppliers was **6,714 metric tons (MtCO**<sub>2</sub>**e)**, roughly equal to the combined 2018 greenhouse gas emissions of the United States and Canada.

The ability to cut costs by reducing emissions would be a strong argument for action, even if the risks associated with failure to act were not as pressing as they are. Suppliers are treating the issue as a priority, with **72%** of responding companies reporting that issues around climate change receive board-level oversight.

This is easily justified by the scale of the problem. In 2020, suppliers reported that they were exposed to some **US\$1.21 trillion** in potential financial impact related to climate change.

Toyota Motor Corporation became a CDP supply chain member in 2016 to support continuous environmental initiatives conducted with our suppliers. The program enables us to determine our supplier's risks, opportunities and their initiatives on climate change. According to the spirit of mutual benefit based on mutual trust, we regularly create opportunities for environmental communication by holding briefing sessions and response guidance, where we share information on social trends and Tovota's initiatives and provide feedback on response results. These activities would encourage our suppliers to continue improving their environmental performance and disclosure. Through such close collaboration with our suppliers, we received a 96% response rate for CDP climate change 2020, which accounts for approximately 84% of our total purchasing value in Japan. Through our continuous efforts, we were pleased to report that approximately two-thirds of our suppliers reduced their CO<sub>2</sub> emission intensity (total emissions/net revenues) in 2020 compared to the previous year.

Achieving the SDGs, including environmental sustainability, is a huge challenge for us all. To contribute to this shared goal, every Toyota person all over the world will be resolute in "Producing Happiness for All". We also wish to take a strong step forward with our suppliers.

**Toyota Motor Company** 

| Risk type           | # of reported<br>risks | Risk US\$          |
|---------------------|------------------------|--------------------|
| Acute physical      | 1,981                  | 319,334,077,747.44 |
| Market              | 1,553                  | 741,870,472,483.50 |
| Emerging regulation | 1,549                  | 151,696,170,484.16 |

### Suppliers are turning the spotlight on their own supply chains.

In 2020, suppliers reported upstream emissions that were, on average, **11.4 times** greater than those produced through their direct operations.

This is a big jump from 2019, when the reported upstream emissions were five and a half times greater than operational emissions. This is not an indication of an increase in supply chain emissions. Rather, this statistic promisingly shows that more suppliers are measuring emissions in their supply chain (known as scope 3 emissions), and accounting for those emissions over the full lifecycle of their products or services in line with the <u>GHG protocol</u>. These figures underline that real climate leadership cannot be achieved without tackling scope 3 impacts.

# Supplier engagement continues to remain the exception rather than the norm.

Measuring scope 3 emissions is only a first step, however. Despite the quantification of risk exposure and upstream emissions, only **37%** of suppliers are taking action and engaging with their own suppliers, down from **39%** in 2019.

# 11.4x higher

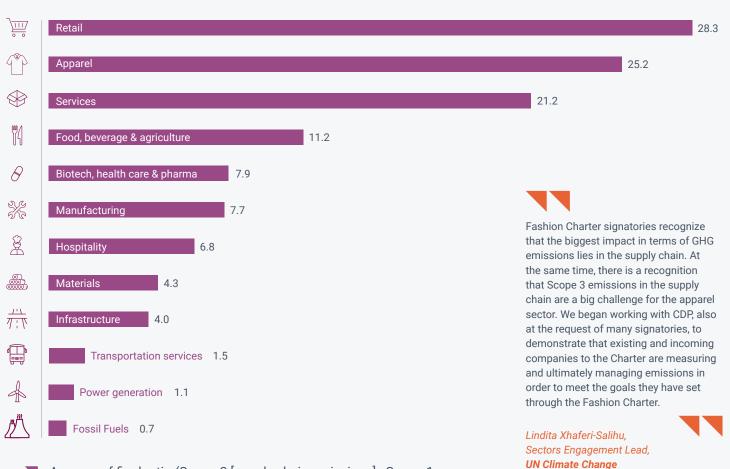
Supply chain emissions are 11.4 times higher than operational emissions



37%

of suppliers are taking supply chain action themselves, down from 39% in 2019

#### Upstream emissions: scope 3 emissions are on average 11.4 times higher than operational emissions



 Average of final ratio (Scope 3 [supply chain emissions] : Scope 1 +2 [operational emissions and direct emissions])



As a responsible business, reducing greenhouse gas emissions in our supply chain supports our ambition of reaching net-zero by 2050 to deliver a clean energy future for our customers. As a CDP supply chain member, National Grid uses CDP scores to maintain transparency and accountability in meeting customer and shareholder expectations to address climate change. We're proud to be on the "A List" and are committed to keeping this good work going.

Vivienne Bracken, Chief Procurement Officer, National Grid



The climate crisis means we must accelerate change. This means taking action across our value chain as we pursue bold purpose and sustainability ambitions – like our ambition to become Climate Positive before 2050 and our science-based targets.

Achieving this requires collaboration not just within Givaudan, but with our suppliers, customers, stakeholders, colleagues and partners. That's why engagements like our CDP supply chain membership are so important.

As businesses re-examine their role in society, we must be resilient and prepared for the risks of a constantly-changing world. Now more than ever, businesses must come together and lead the way as a force for good.

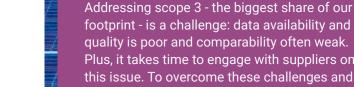
Willem Mutsaerts, Head of Global Procurement and Sustainability, **Givaudan** 

For more than 10 years, The Estée Lauder Companies has reinforced its commitment to environmental stewardship by disclosing through CDP to ensure consistent, transparent reporting around its environmental impact. Now, in this critical decade for the planet, the company is taking even more decisive action on climate change.

As we take on the broader scope of addressing carbon impact beyond the company's direct operations, we're excited to deepen our collaboration with CDP by becoming a Supply Chain member. With ambitious science-based targets for Scope 3 emissions at the forefront of our climate agenda, the CDP Supply Chain program will support the implementation of integrated solutions for emissions reduction across the company's supply chain, and foster joint value creation with supply chain partners and third-party manufacturers.

Building on the successes and learnings of achieving net-zero carbon emissions and 100% renewable electricity across our direct operations, the road ahead could not be more clear: resilient, low carbon supply chains are critical to ensuring a healthy, beautiful planet for generations to come.

Gregory F. Polcer, Executive Vice President, Global Supply Chain, The Estée Lauder Companies



footprint - is a challenge: data availability and quality is poor and comparability often weak. Plus, it takes time to engage with suppliers on this issue. To overcome these challenges and create impact at a larger scale, we became a member of CDP supply chain and we collaborate with initiatives such as Together for Sustainability (TfS) and the Pharmaceutical Supply Chain Initiative (PSCI).

Bayer is committed to reach net-zero value chain

emissions, by 2050 at the latest. To achieve that,

scope 1 and 2 emissions by 42% by 2030 - which

we've set science-based targets: we'll reduce

is in line with 1.5°C, the more ambitious goal

of the Paris Agreement. Likewise, we'll reduce

our main scope 3 emissions by 12.3%. Overall,

switching fully to renewable energy is key.

Thomas Udesen, Executive Vice President and Chief Procurement Officer, Bayer

As a CDP Supply Chain member, we at Samsung Electronics hope to see more of our suppliers undertake actions to reduce emissions year on year. In 2020 we asked our key suppliers to disclose through CDP and received responses from 163 suppliers, with a response rate at 71%. We also provide incentives to suppliers to participate in CDP disclosure and set carbon reduction targets. In addition, Samsung Electronics operates joint educational seminars regularly with CDP, which share experiences to help suppliers reduce electricity, gas and carbon emissions. We will continue our efforts to engage with more supply chain partners by making it easy to participate in carbon emission reduction activities.

Partner Collaboration Center, Samsung Electronics Co., Ltd

## FORESTS: Supply chains without chainsaws



Ten years ago, we started our first steps on our journey to protect forests, at our production site in the heart of a protected French Natural Park.

The path has been rich in challenges, but with the feedback of our most engaged customers and suppliers we have been able to progress towards zero-deforestation.

Since our RSPO SCCS certification, through our 'No Deforestation, No Peat, No Exploitation: Driving positive impact for local communities and Inclusion of smallholders' policy, we have continuously improved our level of requirements all along the supply chain.

There is no doubt that we need to accelerate action against deforestation, due to the urgency of addressing global climate change. We also believe that deforestation is linked with acts of corruption and violation of human rights which have to be collectively tackled all along the supply chain in accordance with the Principles of the United Nations Global Compact. This is a shared responsibility between the consuming and producing countries.

Consequently, we are engaged in collective initiatives allowing us to increase traceability and transparency of forest risk commodities. For us, these are the key conditions to reach zero-deforestation. Sharing experiences and data through CDP Supply Chain with our suppliers is a unique opportunity and the way to succeed in the transformation of the agricultural commodities supply chain.

As the world still needs to be fed, sustainable agricultural practices must be mainstreamed among small local farmers, with knowledge-sharing of best practices.

Ghislaine Auméras Broch, Head of Sustainability, **Stéarinerie Dubois** 

### Deforestation: a growing risk in a post-pandemic world

In response to the global pandemic, economic recession, climate change and the biodiversity crisis, the need to transition to a sustainable and resilient deforestation-free future has never been greater. The precise pathway of COVID-19 is not yet established, but deforestation is almost certainly an important part of the journey.<sup>4</sup>

Protecting and restoring forests was already high on the global agenda, as a critical tool for meeting the goals of the Paris Agreement and achieving the UN Sustainable Development Goals. Continued loss of these carbon sinks, along with the habitat and biodiversity they contain, will only exacerbate both climate change and its impact.

Companies must act rapidly to ensure they identify and eliminate unsustainable deforestation practices within their supply chain, as well as identifying and managing inevitable forest risk based on commodity consumption.

### 448

suppliers disclosing on forests at the request of their buyers



## US\$5bn

in reported deforestationrelated risks

236

suppliers reported sourcing commodities from forest risk countries

### .....

### **5**x

more suppliers (448 out of 788) responded when asked to disclose on forests, compared to the pilot year in 2017

4 <u>See also: Bats, Coronaviruses, and</u> <u>Deforestation: Toward the Emergence of</u> <u>Novel Infectious Diseases?</u> *Aneta Afelt, Roger Frutos, and Christian Devaux* 

### Commodities driving deforestation: Cascading awareness

The CDP Supply Chain program began covering forests in 2017. Since then, the number of members has more than doubled from **8 to 19**, as awareness of the urgency of the issue has grown. These members are engaging with suppliers involved in the production and use of forest risk commodities linked to deforestation (including timber, palm oil, cattle products, soy and rubber).

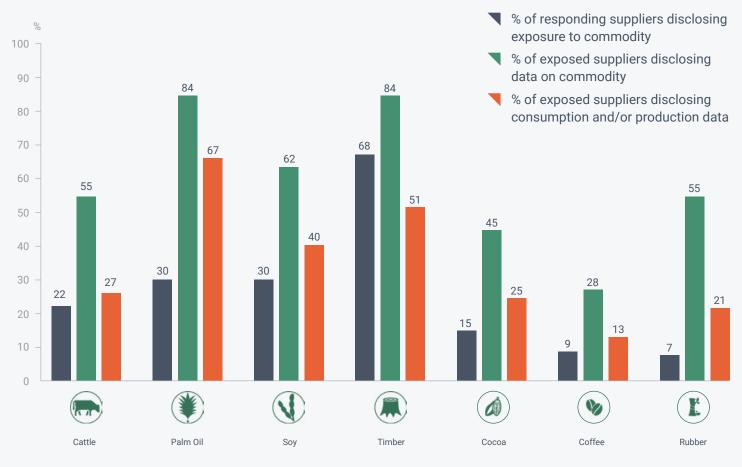
Between 2001 and 2015, **27%**<sup>5</sup> of global forest loss can be attributed to deforestation through permanent land use change for commodity production, including beef, soy, palm oil, and wood fiber.

Members requested disclosures on forests from **788** suppliers, receiving **448** responses - a fivefold increase since the pilot year in 2017. **236** suppliers reported sourcing commodities from forest risk countries. By increasing their engagement with suppliers from high-risk regions, companies can expand capacity building efforts, increase transparency, disseminate best practices and reduce their deforestation risks.

Suppliers were asked to report on the forest risk commodities that they produce or consume. The responses show a huge knowledge gap between the various forest risk commodity sectors. **84%** of timber products suppliers disclosed data, while just **28%** of coffee suppliers disclosed. These numbers drop further when suppliers were asked to drill down to consumption and production data. This demonstrates the pressing need for companies to continue to request this information from their suppliers, an essential first step in understanding and minimizing their risk exposure.

Deeper knowledge is even more lacking, with just **26%** of suppliers able to trace even part of their forest risk commodities back to the forest, plantation or farm where they originated. Furthermore, many found it difficult to measure and report their risk exposure. Although **73%** of suppliers said they had undertaken a forest related risk assessment, the internal skills and capabilities to address those risks remain limited.

Despite this incomplete picture, **49%** of suppliers still reported a total potential financial impact of **US\$5 billion** associated with risks linked to the production, consumption and trade of forest risk commodities.



Forest risk commodity

**5** Curtis, P.G. et al. (2018). Classifying drivers of global forest loss. Science 361:1108-1111. DOI: 10.1126/science.aau3445

#### Strengthening supplier engagement

The coordinated action of the CDP Supply Chain program is clearly having an impact. In 2020, its 19 forests members had **130** suppliers (17% of total sample) in common, despite covering diverse sectors. Supplier companies that received disclosure requests from multiple members had a much higher response rate of 75%, compared with those that only received requests from a single member at 57%. Changing supplier behavior is best achieved with clear and consistent expectations from customers. By integrating data and insights into procurement decisions, CDP Supply Chain members are accelerating the pace at which this change will happen.



84%

of timber products suppliers disclosed data, while just **28%** of coffee suppliers disclosed



26%

Only 26% of suppliers are able to trace even part of their forest risk commodities back to the forest, plantation or farm where they originated

#### **Promoting collective action**

Hundreds of companies had made pledges to eliminate deforestation from the production of agricultural commodities by 2020, as part of a collective commitment made by the Consumer Goods Forum and through the New York Declaration on Forests. While this ambitious industry goal was missed, many companies have reiterated their commitment to eliminate deforestation and contribute towards restoring the world's forests.

Public commitments are a critical first step, but these statements must be followed by concrete actions by companies and their value chain partners. This is still far from the norm, with comparatively few companies making it onto the <u>CDP A List for</u> <u>forests.</u> Encouragingly, however, this number is steadily rising, doubling in 2020 from **8 to 16**. The complexity and nature of this environmental challenge also requires unprecedented collaboration. Many CDP Supply Chain members have joined the <u>Consumer Goods Forum's</u> <u>Forest Positive Coalition of Action</u> to continue promoting and driving positive changes.

All supply chain actors must adopt this level of ambition and commitment to collaborative action. Only then will we be on the right path to a resilient, zero-deforestation, net-zero economy.





The Chinese white feather poultry enterprise Sunner has adopted a cradle-to-gate and circular economy approach to its breeding, cultivation and deep processing activities, including waste-to-fertilizer and waste-to-energy.

Corporate sustainability is vital for Sunner to achieve our business goals. Sunner has insisted on increasing our core competence by benchmarking with international good practices whilst expanding our corporate sustainability work.

Sunner mainly uses soybean, palm oil, and cattle products during the feeding, incubating, and processing period of our white feather chicken and beef products. These high forestrisk commodities are sourced through vendors in China. Sunner can trace the country of origin of these commodities to countries with high deforestation risk, such as Malaysia, Indonesia, Brazil, and Argentina. Disclosing information about forest conservation through CDP enables us to act on deforestation risks and incorporate 'zero deforestation' into our overall sustainable business strategy.

This goes beyond disclosure and transparency - we want to fundamentally reduce and manage deforestation risk and climate change impacts. Thus, we chose to join CDP as a supply chain member. In 2020, we invited strategic suppliers, including suppliers for animal feed, grain oil and herbal medicine, to disclose forest-related information to us via CDP. We also work with CDP to provide capacity-building activities for our suppliers to enhance their awareness and management capacity for deforestation risks. In the coming year we will continue to help our suppliers increase their transparency and take further actions on deforestation and sustainability.

Fujian Sunner Group

CMPC encourages small timberland and sawmill owners to use sustainable forest management and/or chain of custody certifications or to operate under our "CMPC non certificate supplier procedure". Through the years, with the support of our compliance department and a dedicated committee, CMPC developed a continuous improvement process to identify and address potential weaknesses. The aim is to maximize the area under certification, which in turn reduces inherent risks such as the procurement of timber coming from high-risk sources. As a result, CMPC is able to ensure that 97% of the total fiber input for its pulp, wood and paper production is certified or has undergone a rigorous due diligence process. In Chile, the company supports the certification (FSC and PEFC) of small and medium-sized timberland owners through a sustainable forest management group. In doing so, CMPC provides technical consulting services to group members, in an effort to support and give priority to local and small business-owners. CMPC currently offers four support programs to small forest-holders, which were launched after Chile's large wildfires in 2017. These include technical workshops for suppliers; incentive plan for implementation of due diligence systems; wood log procurement program from SMEs; and the creation and promotion of sustainable forest management certification groups.

Nicolás Gordon, Director of Corporate Sustainability , **CMPC** 



Arcos Dorados is aware of the impact its supply chain has on the sustainability of its business, and this is a priority for us. As a company, we are fully committed to the environment and are doing everything possible to reduce the impact of our operation by means of our Recipe for the Future platform. For this reason, we actively work to identify, reduce and mitigate the social and environmental impacts, together with our suppliers, encouraging best practices in each stage of the supply chain. Environmental and social management must permeate the entire supply chain, which is why Arcos Dorados works with our suppliers, ensuring they comply with best practices, endorsed or recognized under international standards.

The company participated in the CDP Supply Chain Program as a member in 2020 for the fourth consecutive year. Arcos Dorados plays a leading role among the members of CDP Latin America, achieving the highest response rates from our suppliers in disclosing their environmental impacts through the CDP questionnaires. In 2020, Arcos Dorados achieved a 99% response rate from our requested suppliers in three questionnaires: climate change, forests and water security. In 2019, their suppliers have had a total emission reduction in the last year of close to 9 million tCO<sub>2</sub>e, which is equivalent to taking 640,000 cars off the road for one year.

As the largest franchisee, Arcos Dorados is following McDonald's corporate commitment to reduce GHG emissions from 2015 levels by 36% in the restaurants and offices by 2030. Also, the company is committed to reducing GHG emissions from 2015 levels by 31% in supply chain processes by 2030.

Leonardo Correa De Souza Lima, Corporate Sustainable Development & Social Commitment Director, **Arcos Dorados** 

# **WATER:** Trickling improvements but a wave of change is needed

#### Preserving water as a resource

Water is vital to sustain life on Earth, and it is also a critical component of the global economy. Currently, businesses risk draining our finite freshwater resources and polluting what remains.

To prevent the worst impacts of water pollution, scarcity, flooding, and disruption to people, planet and business, companies need to undertake a paradigm shift in their water stewardship and management. This means looking not only at their own practices but those in their supply chain.

#### A rise in reported reputational risks

In 2020, suppliers identified **US\$248 billion** associated with all waterrelated risks. In previous years the value of reported risks was dominated by physical impacts (e.g. floods, droughts, storms) whereas this year we see a major increase in the financial value of reported reputational and market risks, which is now almost equal to physical risks.

These reputational risks will not only affect the companies that report them. Companies are coming under more and more scrutiny regarding water stewardship practices in their supply chain. Those companies that want to minimize and mitigate these environmental and financial risks urgently need to engage their suppliers on water security.



2,449 Responders

### (§) US\$248 bn

Risk associated

(\$)

### 14%

of disclosing companies reported that **more than half of their facilities are exposed to water risks** with the potential to have a substantive financial impact on their business.

## **18%**

of suppliers are engaging with their own suppliers on water stewardship

#### Increasing clarity on water use

As companies begin considering their water-related risks, the first step is to understand their withdrawal, consumption, and discharge rates. More and more suppliers are disclosing information in each of these categories in response to requests from CDP Supply Chain water member companies. This improvement needs to continue so that all companies can better manage their water-related risks and usage.

### Furthermore, each supplier must engage with its own value chain to fully understand its own water risk.

The size of the financial risk identified by suppliers from water issues shows how urgent this need is. These companies need to step up and better understand the risks and opportunities in their supply chain.

|                   |             | 2019 suppliers<br>reporting this<br>data | 2020 suppliers<br>reporting this<br>data | % responding<br>suppliers<br>reporting data<br>2020 |
|-------------------|-------------|------------------------------------------|------------------------------------------|-----------------------------------------------------|
| Ę                 | Withdrawal  | 1,208                                    | 1,504                                    | 61%                                                 |
| $\langle \rangle$ | Consumption | 1,134                                    | 1,444                                    | 59%                                                 |
|                   | Discharge   | 1,091                                    | 1,377                                    | 56%                                                 |



#### Leadership and cascading action

CDP Supply Chain members have illustrated their commitment to water stewardship and supply chain management. Their suppliers have responded by increasingly disclosing their water-related risks and the potential financial impacts they face.

However, this increase in disclosure has not yet been followed by improvements in water-related metrics associated with leadership. Suppliers are still lacking strong governance structures, targets and public commitments. This illustrates a dearth in the corporate leadership needed to achieve water security. Only **32%** of disclosing suppliers had a public water policy, and just **5%** had a company-wide target for reducing their water pollution. This is significantly lower than the performance of the purchasing organizations requesting information from their suppliers. Amongst these Supply Chain members, **76%** reported having a public water policy and **15%** had a company-wide target for reducing their water pollution.

Although three times as many Supply Chain member companies have water pollution targets as their suppliers (**15**% vs. **5**%), this is still far too low.

There is room for improvement at all levels of the supply chain - just **18%** of suppliers report engaging with their own suppliers on water security.

Support from the highest levels of a company is imperative to effect real change. This year **62**% of suppliers reported board-level oversight on water, making 2020 the second year in a row with a **3**% of higher increase. This pace of improvement is steady, but unimpressive. For climate change, for example, **72**% of suppliers report board-level oversight. This growth continues to illustrate the slow but steady pace at which companies are improving their water management oversight.

We need to see a wave of change in water leadership and governance, to mitigate business risks throughout the value chain and to build a safe, water-secure future.



At Walmart Mexico & Central America we are acutely aware of the challenges of water security for Mexico. Water management in our supply chain is key to achieving our commitment of becoming a regenerative company by 2040 and protecting 50 million acres of land and 1 million miles of ocean. This will depend on the collective action and transparency that we can encourage for our operations and suppliers. The use of water is essential to the production of our products, so we identify suppliers that have strong levels of sustainable water management to ensure the supply of these products into the future. During 2020, 48% of our suppliers reporting through CDP were national to Mexico, while 52% represented suppliers from 15 other countries. This year, 66% of our suppliers already include water security within their long-term business objectives, aligning with our shared vision and adopting good practices. An indicator of the importance of managing water resources is that 13% of these suppliers already identified some negative impacts due to water risks during the 2020 reporting period. Therefore, collaboration with suppliers is key to act in advance of these challenges, and improve risk awareness in the supply chain - 48% of our suppliers reported that they also run water risk assessments with their own suppliers. This is cascading transparency and awareness down the chain. Our goal is to take advantage of common opportunities and shared long-term strategies to mitigate water risks with our suppliers, as we seek to generate shared value through our value chain.

Claudia de la Vega Martínez, Director of Corporate Affairs, **Walmart Mexico** 

### **ENGAGING THE VALUE CHAIN:** How to build back better

Despite the devastations, uncertainty and economic turmoil of 2020, corporate commitment to transparency and improvement on environmental performance has intensified.

The number of CDP Supply Chain members asking for environmental transparency is up by a fifth, to more than 150, while 14% more suppliers (8,098) responded to their demand than in 2019. Sustainability is no longer a nice-to-have; it is now core to running any business.

The reasons are clear: at US \$1.26 trillion, the environmental risks reported in value chains are substantial. With major corporate buyers facing US\$120 billion in increased costs in the next 5 years from a subset of those environmental risks, companies must now take ambitious action. In our global COVID-19 recovery efforts, we have an obligation to build back better. To mitigate and adapt against the shocks of irreversible climate change and environmental devastation, companies should start by building resiliency into business-asusual. Engaging with the entire value chain to reduce emissions, mitigate deforestation and manage water resources better must be high on any board's agenda.

Since the average company has found emissions in its supply chain more than ten times as high as its direct emissions, a cascade of supply chain action will have enormous impact globally - helping build a thriving, sustainable economy. **Supply chain engagement works.** The companies who are working with their customers and reporting through CDP have already undertaken activities reducing GHG emissions by 619 million metric tons and saved US\$33.7 billion in the process. That's equivalent to shutting down <u>159 coal power</u> plants for a year.

But there is still a long way to go. Despite the risks of inaction, companies are slow to drive change along the whole of the value chain. Only 37% of suppliers are engaging their own suppliers on climate change. We need to see a cascade of action.



## **HOW TO ENGAGE YOUR SUPPLIERS**



### Where to start:

For companies beginning their journey on supplier engagement:

### Ask questions

Start asking your suppliers to assess and report their environmental data to you through CDP's disclosure system. You cannot manage what you haven't measured. If your suppliers are regularly disclosing, you can pinpoint risks, identify opportunities and start collaborating to build resiliency.

### **Collaborate with others**

Supplier companies are more likely to act when requested to do so by multiple customers. For example, 57% of suppliers disclosed on forests if requested by one member and 75% disclosed when asked by multiple members. Therefore, seek out opportunities to collaborate with peers, investors and other stakeholders that influence your suppliers' behaviours.

### Ŷ

### What next:

For companies who are already engaging with their suppliers on environmental issues:

### 3

### Set public targets for the supply chain

Setting targets publicly gives buyers and suppliers clarity on their climate, deforestation and water security goals, and a clear shared pathway towards achieving them.

### A chain reaction

Ask your suppliers to engage with their own suppliers. Risks and opportunities don't stop at tier one. By driving disclosure requests, targetsetting and collaboration across your suppliers' values, you are futureproofing your own business.

With US\$120 billion at stake, addressing environmental risks through **supply chain engagement is vital for companies to be competitive and resilient in the changing market.** Leading companies that manage and reduce environmental risks in their supply chains will benefit from lower costs and better reputations giving them a more competitive edge today and being more resilient for the economy of tomorrow. Meanwhile, **laggard companies risk being left behind.** As the climate and ecological crisis worsens and the economy shifts, it's essential for both business and society that we have a Green Recovery from COVID-19 and build back better. **Smart business procurement is key to that transition.** 

Sonya Bhonsle Global Head of Value Chains, **CDP** 



Being a CDP supply chain member helps you to engage your suppliers, pinpoint risks and identify opportunities. Our 150+ members worldwide are using the program to set and achieve their <u>science-based</u> <u>targets</u>, zero-deforestation and water security targets.

### Learn more and join us

### Sector breakdown

|                | Total risks         | Risks related to<br>increased costs |
|----------------|---------------------|-------------------------------------|
| Climate Change | \$1,003,427,676,927 | \$112,282,169,838                   |
| Forests        | \$5,076,208,799     | \$716,132,859                       |
| Water          | \$248,973,772,326   | \$7,640,152,719                     |
| Total          | \$1,257,477,658,052 | \$120,638,455,416                   |

| Sector                        | USD                 |
|-------------------------------|---------------------|
| Manufacturing                 | \$64,019,282,974.87 |
| Food, beverage & agriculture  | \$16,908,243,359.86 |
| Power generation              | \$11,313,350,387.57 |
| Infrastructure                | \$10,588,539,092.69 |
| Materials                     | \$5,031,488,854.52  |
| Services                      | \$4,480,199,065.61  |
| Fossil Fuels                  | \$3,226,890,209.79  |
| Retail                        | \$2,348,839,536.01  |
| Transportation services       | \$2,118,205,471.18  |
| Biotech, health care & pharma | \$459,942,056.63    |
| Apparel                       | \$76,523,757.45     |
| Hospitality                   | \$66,950,649.28     |

### Geographical breakdown

| Sector                                                  | USD              |
|---------------------------------------------------------|------------------|
| Japan                                                   | \$28,552,004,721 |
| United States of America                                | \$24,512,764,942 |
| Taiwan, Greater China                                   | \$20,386,578,109 |
| Mexico                                                  | \$14,327,200,919 |
| Republic of Korea                                       | \$6,687,838,352  |
| France                                                  | \$6,205,904,066  |
| Ireland                                                 | \$3,656,704,436  |
| India                                                   | \$3,207,286,489  |
| Switzerland                                             | \$2,305,700,411  |
| United Kingdom of Great Britain and<br>Northern Ireland | \$2,178,150,959  |
| China                                                   | \$1,997,570,663  |
| Brazil                                                  | \$1,653,346,235  |
| Germany                                                 | \$864,964,628    |
| Spain                                                   | \$563,037,925    |
| Italy                                                   | \$562,198,461    |
| Colombia                                                | \$543,810,676    |
| Netherlands                                             | \$458,026,519    |
| Canada                                                  | \$243,117,297    |
| Finland                                                 | \$195,797,579    |
| Portugal                                                | \$194,854,824    |

### **APPENDIX**

#### **Supplier Engagement Leaderboard**

### **Recognizing Leaders**

Each year CDP evaluates how corporate respondents are encouraging sustainability throughout their value chain resulting in their Supplier Engagement Rating. This analyzes data from all companies that disclose through CDP on climate change, relating to supplier engagement, governance, scope 3 emissions accounting, targets, and overall CDP climate change score. Inclusion on this list demonstrates that a company is proactively working with their suppliers to ensure that sustainability is present in every part of their value chain.

| COMPANY NAME                           | COUNTRY                                              | PRIMARY ACTIVITY GROUP            |
|----------------------------------------|------------------------------------------------------|-----------------------------------|
| AGRICULTURAL COMMODITIES               |                                                      |                                   |
| Grieg Seafood                          | Norway                                               | Fish & Animal Farming             |
| Mowi ASA                               | Norway                                               | Fish & Animal Farming             |
| CAPITAL GOODS                          |                                                      |                                   |
| Anritsu Corporation                    | Japan                                                | Electrical & electronic equipment |
| Fuji Electric Co., Ltd.                | Japan                                                | Electrical & electronic equipment |
| Furukawa Electric Co., Ltd.            | Japan                                                | Electrical & electronic equipment |
| Hitachi, Ltd.                          | Japan                                                | Electrical & electronic equipment |
| Kone Oyj                               | Finland                                              | Electrical & electronic equipment |
| Mitsubishi Electric Corporation        | Japan                                                | Electrical & electronic equipment |
| Nabtesco Corporation                   | Japan                                                | Electrical & electronic equipment |
| Schneider Electric                     | France                                               | Electrical & electronic equipment |
| Siemens AG                             | Germany                                              | Electrical & electronic equipment |
| TDK Corporation                        | Japan                                                | Electrical & electronic equipment |
| Trane Technologies                     | United States of America                             | Electrical & electronic equipment |
| Cargotec Corporation                   | Finland                                              | Powered machinery                 |
| CNH Industrial NV                      | United Kingdom of Great Britain and Northern Ireland | Powered machinery                 |
| Danieli & C Officine Meccaniche S.p.A. | Italy                                                | Powered machinery                 |
| Komatsu Ltd.                           | Japan                                                | Powered machinery                 |
| Metso                                  | Finland                                              | Powered machinery                 |
| Tennant Company                        | United States of America                             | Powered machinery                 |
| Valmet                                 | Finland                                              | Powered machinery                 |
| Yokogawa Electric Corporation          | Japan                                                | Powered machinery                 |
| Siemens Gamesa Renewable Energy SA     | Spain                                                | Renewable energy equipment        |

| COMPANY NAME                            | COUNTRY                                              | PRIMARY ACTIVITY GROUP |
|-----------------------------------------|------------------------------------------------------|------------------------|
| CEMENT                                  |                                                      |                        |
| ACC                                     | India                                                | Cement & concrete      |
| CEMEX                                   | Mexico                                               | Cement & concrete      |
| LafargeHolcim Ltd                       | Switzerland                                          | Cement & concrete      |
| Taiwan Cement                           | Taiwan, Greater China                                | Cement & concrete      |
| CHEMICALS                               |                                                      |                        |
| Borregaard ASA                          | Norway                                               | Chemicals              |
| Braskem S/A                             | Brazil                                               | Chemicals              |
| Evonik Industries AG                    | Germany                                              | Chemicals              |
| FIRMENICH SA                            | Switzerland                                          | Chemicals              |
| Givaudan SA                             | Switzerland                                          | Chemicals              |
| Hitachi Chemical Company, Ltd.          | Japan                                                | Chemicals              |
| ICL                                     | Israel                                               | Chemicals              |
| International Flavors & Fragrances Inc. | United States of America                             | Chemicals              |
| Koninklijke DSM                         | Netherlands                                          | Chemicals              |
| LANXESS AG                              | Germany                                              | Chemicals              |
| Lenzing AG                              | Austria                                              | Chemicals              |
| Sumitomo Chemical Co., Ltd.             | Japan                                                | Chemicals              |
| Symrise AG                              | Germany                                              | Chemicals              |
| Wacker Chemie AG                        | Germany                                              | Chemicals              |
| CONSTRUCTION                            |                                                      |                        |
| Barratt Developments plc                | United Kingdom of Great Britain and Northern Ireland | Construction           |
| Bonava                                  | Sweden                                               | Construction           |
| Daelim Industrial                       | Republic of Korea                                    | Construction           |
| Daiwa House Industry Co., Ltd.          | Japan                                                | Construction           |
| Kajima Corporation                      | Japan                                                | Construction           |
| Morgan Sindall Group plc                | United Kingdom of Great Britain and Northern Ireland | Construction           |
| Obayashi Corporation                    | Japan                                                | Construction           |
| Samsung C&T                             | Republic of Korea                                    | Construction           |
| SEKISUI CHEMICAL CO.,LTD                | Japan                                                | Construction           |
| Sekisui House, Ltd.                     | Japan                                                | Construction           |
| Severfield                              | United Kingdom of Great Britain and Northern Ireland | Construction           |
| Shimizu Corporation                     | Japan                                                | Construction           |
| Skanska AB                              | Sweden                                               | Construction           |
| Taisei Corporation                      | Japan                                                | Construction           |
| TAKENAKA CORPORATION                    | Japan                                                | Construction           |
| Toda Corporation                        | Japan                                                | Construction           |

| COMPANY NAME                                                                               | COUNTRY                                              | PRIMARY ACTIVITY GROUP                                   |
|--------------------------------------------------------------------------------------------|------------------------------------------------------|----------------------------------------------------------|
| ELECTRIC UTILITIES                                                                         |                                                      |                                                          |
| A2A                                                                                        | Italy                                                | Energy utility networks                                  |
| CPFL Energia SA                                                                            | Brazil                                               | Energy utility networks                                  |
| Iren SpA                                                                                   | Italy                                                | Energy utility networks                                  |
| Korea Electric Power Corp                                                                  | Republic of Korea                                    | Energy utility networks                                  |
| National Grid PLC                                                                          | United Kingdom of Great Britain and Northern Ireland | Energy utility networks                                  |
| Orsted                                                                                     | Denmark                                              | Energy utility networks                                  |
| EDF                                                                                        | France                                               | Nuclear power generation                                 |
| Centrais Eletricas Brasileiras S/A (ELETROBRAS)                                            | Brazil                                               | Renewable power generation                               |
| E.ON SE                                                                                    | Germany                                              | Renewable power generation                               |
| Endesa                                                                                     | Spain                                                | Renewable power generation                               |
| SSE                                                                                        | United Kingdom of Great Britain and Northern Ireland | Renewable power generation                               |
| ENGIE                                                                                      | France                                               | Thermal power generation                                 |
| Iberdrola SA                                                                               | Spain                                                | Thermal power generation                                 |
| Los Angeles Department of Water and Power                                                  | United States of America                             | Thermal power generation                                 |
| Origin Energy                                                                              | Australia                                            | Thermal power generation                                 |
| The Tokyo Electric Power Company Holdings, Inc (TEPCO)                                     | Japan                                                | Thermal power generation                                 |
| Vattenfall Group                                                                           | Sweden                                               | Thermal power generation                                 |
| FINANCIAL SERVICES                                                                         |                                                      |                                                          |
| Bank of America                                                                            | United States of America                             | Financial services                                       |
| Comerica Incorporated                                                                      | United States of America                             | Financial services                                       |
| Commerzbank AG                                                                             | Germany                                              | Financial services                                       |
| DGB Financial Group                                                                        | Republic of Korea                                    | Financial services                                       |
| DNB ASA                                                                                    | Norway                                               | Financial services                                       |
| Fubon Financial Holdings                                                                   | Taiwan, Greater China                                | Financial services                                       |
| Goldman Sachs Group Inc.                                                                   | United States of America                             | Financial services                                       |
| Grupo Cooperativo Cajamar                                                                  | Spain                                                | Financial services                                       |
| ING Group                                                                                  | Netherlands                                          | Financial services                                       |
| KBC Group                                                                                  | Belgium                                              | Financial services                                       |
| KeyCorp                                                                                    | United States of America                             | Financial services                                       |
|                                                                                            | United States of America                             | Financial services                                       |
| MetLife, Inc.                                                                              | United States of America                             |                                                          |
| MetLife, Inc.<br>Power Corporation of Canada                                               | Canada                                               | Financial services                                       |
|                                                                                            |                                                      |                                                          |
| Power Corporation of Canada                                                                | Canada                                               | Financial services                                       |
| Power Corporation of Canada<br>Raiffeisen Bank International AG                            | Canada<br>Austria                                    | Financial services Financial services                    |
| Power Corporation of Canada<br>Raiffeisen Bank International AG<br>Shinhan Financial Group | Canada<br>Austria<br>Republic of Korea               | Financial services Financial services Financial services |

| COMPANY NAME                 | COUNTRY                                              | PRIMARY ACTIVITY GROUP            |
|------------------------------|------------------------------------------------------|-----------------------------------|
| FINANCIAL SERVICES           |                                                      |                                   |
| U.S. Bancorp                 | United States of America                             | Financial services                |
| UBS                          | Switzerland                                          | Financial services                |
| Lockton Companies LLP        | United Kingdom of Great Britain and Northern Ireland | Specialized professional services |
| FOOD, BEVERAGE & TOBACCO     |                                                      |                                   |
| Anheuser Busch InBev         | Belgium                                              | Food & beverage processing        |
| Asahi Group Holdings, Ltd.   | Japan                                                | Food & beverage processing        |
| Barilla Holding SpA          | Italy                                                | Food & beverage processing        |
| Barry Callebaut AG           | Switzerland                                          | Food & beverage processing        |
| Britvic                      | United Kingdom of Great Britain and Northern Ireland | Food & beverage processing        |
| Carlsberg Breweries A/S      | Denmark                                              | Food & beverage processing        |
| Coca-Cola European Partners  | United Kingdom of Great Britain and Northern Ireland | Food & beverage processing        |
| Coca-Cola Femsa Sab-Ser I    | Mexico                                               | Food & beverage processing        |
| Coca-Cola HBC AG             | Switzerland                                          | Food & beverage processing        |
| Corbion                      | Netherlands                                          | Food & beverage processing        |
| Danone                       | France                                               | Food & beverage processing        |
| Diageo Plc                   | United Kingdom of Great Britain and Northern Ireland | Food & beverage processing        |
| Farmer Brothers              | United States of America                             | Food & beverage processing        |
| Fonterra Co-operative Group  | New Zealand                                          | Food & beverage processing        |
| FUJI OIL HOLDINGS INC.       | Japan                                                | Food & beverage processing        |
| General Mills Inc.           | United States of America                             | Food & beverage processing        |
| Ingredion Incorporated       | United States of America                             | Food & beverage processing        |
| Kellogg Company              | United States of America                             | Food & beverage processing        |
| Keurig Dr Pepper             | United States of America                             | Food & beverage processing        |
| Kirin Holdings Co Ltd        | Japan                                                | Food & beverage processing        |
| Mars                         | United States of America                             | Food & beverage processing        |
| Molson Coors Brewing Company | United States of America                             | Food & beverage processing        |
| Nestle                       | Switzerland                                          | Food & beverage processing        |
| Orkla ASA                    | Norway                                               | Food & beverage processing        |
| PepsiCo, Inc.                | United States of America                             | Food & beverage processing        |
| Suntory Beverage & Food      | Japan                                                | Food & beverage processing        |
| The Coca-Cola Company        | United States of America                             | Food & beverage processing        |
| Vina Concha y Toro S A       | Chile                                                | Food & beverage processing        |
| British American Tobacco     | United Kingdom of Great Britain and Northern Ireland | Торассо                           |
| CONTRAF-NICOTEX-TOBACCO GmbH | Germany                                              | Торассо                           |
| Imperial Brands              | United Kingdom of Great Britain and Northern Ireland | Тоbассо                           |
| Japan Tobacco Inc.           | Japan                                                | Тоbассо                           |
| Philip Morris International  | United States of America                             | Тоbассо                           |

| COMPANY NAME                      | COUNTRY                                              | PRIMARY ACTIVITY GROUP         |
|-----------------------------------|------------------------------------------------------|--------------------------------|
| GENERAL                           |                                                      |                                |
| Kering                            | France                                               | Apparel design                 |
| VF Corporation                    | United States of America                             | Apparel design                 |
| Salvatore Ferragamo SpA           | Italy                                                | Apparel design                 |
| Sodexo                            | France                                               | Bars, hotels & restaurants     |
| AbbVie Inc                        | United States of America                             | Biotech & pharma               |
| Amgen, Inc.                       | United States of America                             | Biotech & pharma               |
| AstraZeneca                       | United Kingdom of Great Britain and Northern Ireland | Biotech & pharma               |
| Daiichi Sankyo Co., Ltd.          | Japan                                                | Biotech & pharma               |
| Dr. Reddy's Laboratories          | India                                                | Biotech & pharma               |
| GlaxoSmithKline                   | United Kingdom of Great Britain and Northern Ireland | Biotech & pharma               |
| Johnson & Johnson                 | United States of America                             | Biotech & pharma               |
| Lundbeck A/S                      | Denmark                                              | Biotech & pharma               |
| Novartis                          | Switzerland                                          | Biotech & pharma               |
| Novo Nordisk A/S                  | Denmark                                              | Biotech & pharma               |
| Ono Pharmaceutical Co., Ltd.      | Japan                                                | Biotech & pharma               |
| Pfizer Inc.                       | United States of America                             | Biotech & pharma               |
| Shionogi & Co., Ltd.              | Japan                                                | Biotech & pharma               |
| Beiersdorf AG                     | Germany                                              | Chemicals                      |
| Colgate Palmolive Company         | United States of America                             | Chemicals                      |
| Fancl Corporation                 | Japan                                                | Chemicals                      |
| KAO Corporation                   | Japan                                                | Chemicals                      |
| KOSE Corporation                  | Japan                                                | Chemicals                      |
| Lion Corporation                  | Japan                                                | Chemicals                      |
| ĽOréal                            | France                                               | Chemicals                      |
| Natura Cosmeticos SA              | Brazil                                               | Chemicals                      |
| Shiseido Co., Ltd.                | Japan                                                | Chemicals                      |
| Unilever plc                      | United Kingdom of Great Britain and Northern Ireland | Chemicals                      |
| CMS CAMERON MCKENNA               | United Kingdom of Great Britain and Northern Ireland | Commercial & consumer services |
| Ecolab Inc.                       | United States of America                             | Commercial & consumer services |
| Secom Co., Ltd.                   | Japan                                                | Commercial & consumer services |
| ACCIONA S.A.                      | Spain                                                | Construction                   |
| JENEX Co., LTD.                   | Japan                                                | Construction                   |
| Mainstream Renewable Power        | Ireland                                              | Construction                   |
| Scatec Solar                      | Norway                                               | Construction                   |
| Aeon Co., Ltd.                    | Japan                                                | Convenience retail             |
| FamilyMart UNY Holdings Co., Ltd. | Japan                                                | Convenience retail             |
| J Sainsbury Plc                   | United Kingdom of Great Britain and Northern Ireland | Convenience retail             |

Innolux Corporation

Juniper Networks, Inc.

Konica Minolta, Inc.

Kyocera Corporation

Lenovo Group

Intel Corporation

| COMPANY NAME              | COUNTRY                                              | PRIMARY ACTIVITY GROUP            |
|---------------------------|------------------------------------------------------|-----------------------------------|
| GENERAL                   |                                                      |                                   |
| Kesko Corporation         | Finland                                              | Convenience retail                |
| etro AG                   | Germany                                              | Convenience retail                |
| sco                       | United Kingdom of Great Britain and Northern Ireland | Convenience retail                |
| manni                     | Finland                                              | Convenience retail                |
| mart, Inc.                | United States of America                             | Convenience retail                |
| plworths Limited          | Australia                                            | Convenience retail                |
| t Buy Co., Inc.           | United States of America                             | Discretionary retail              |
| ; Inc.                    | United States of America                             | Discretionary retail              |
| t Retailing Co., Ltd.     | Japan                                                | Discretionary retail              |
| GO BOSS AG                | Germany                                              | Discretionary retail              |
| ex                        | Spain                                                | Discretionary retail              |
| Holding B.V.              | Netherlands                                          | Discretionary retail              |
| ont Retailing Co., Ltd.   | Japan                                                | Discretionary retail              |
| ports Fashion             | United Kingdom of Great Britain and Northern Ireland | Discretionary retail              |
| mon Athletica Inc.        | Canada                                               | Discretionary retail              |
| Group Co., Ltd.           | Japan                                                | Discretionary retail              |
| Lauren Corporation        | United States of America                             | Discretionary retail              |
| qu                        | Finland                                              | Discretionary retail              |
| do SE                     | Germany                                              | Discretionary retail              |
| iced Micro Devices, Inc   | United States of America                             | Electrical & electronic equipment |
| e Inc.                    | United States of America                             | Electrical & electronic equipment |
| ELIK A.S.                 | Turkey                                               | Electrical & electronic equipment |
| on Inc.                   | Japan                                                | Electrical & electronic equipment |
| Technologies              | United States of America                             | Electrical & electronic equipment |
| Electronics, Inc.         | Taiwan, Greater China                                | Electrical & electronic equipment |
| maier                     | Germany                                              | Electrical & electronic equipment |
| sson                      | Sweden                                               | Electrical & electronic equipment |
| FILM Holdings Corporation | Japan                                                | Electrical & electronic equipment |
| A-BYTE TECHNOLOGY CO.,LTD | Taiwan, Greater China                                | Electrical & electronic equipment |
| upe SEB                   | France                                               | Electrical & electronic equipment |
| Inc                       | United States of America                             | Electrical & electronic equipment |

Taiwan, Greater China

Japan

Japan

United States of America United States of America

United States of America

Electrical & electronic equipment

Electrical & electronic equipment

Electrical & electronic equipment Electrical & electronic equipment

Electrical & electronic equipment

33

VMware, Inc

| COMPANY NAME                       | COUNTRY                  | PRIMARY ACTIVITY GROUP             |
|------------------------------------|--------------------------|------------------------------------|
| GENERAL                            |                          |                                    |
| Lite-On Technology Corporation     | Japan                    | Electrical & electronic equipment  |
| MURATA MACHINERY,LTD.              | Japan                    | Electrical & electronic equipment  |
| Murata Mfg. Co.                    | Japan                    | Electrical & electronic equipment  |
| Nikon Corporation                  | Finland                  | Electrical & electronic equipment  |
| Nokia Group                        | Japan                    | Electrical & electronic equipment  |
| Panasonic Corporation              | Japan                    | Electrical & electronic equipment  |
| Ricoh Co., Ltd.                    | United States of America | Electrical & electronic equipment  |
| Seagate Technology PLC             | Japan                    | Electrical & electronic equipment  |
| Seiko Epson Corporation            | Netherlands              | Electrical & electronic equipment  |
| Signify NV                         | Japan                    | Electrical & electronic equipment  |
| Sony Corporation                   | Taiwan, Greater China    | Electrical & electronic equipment  |
| Taiwan Semiconductor Manufacturing | Japan                    | Electrical & electronic equipment  |
| Toshiba Corporation                | United States of America | Electrical & electronic equipment  |
| Xerox Corporation                  | United States of America | Entertainment facilities           |
| Caesars Entertainment              | United States of America | Entertainment facilities           |
| Las Vegas Sands Corporation        | Brazil                   | Health care provision              |
| EVERGREEN LINE                     | Taiwan, Greater China    | Industrial support services        |
| ASE Technology Holding Co., Ltd.   | Ireland                  | IT & software development          |
| Accenture                          | United States of America | IT & software development          |
| Adaba laa                          | United Otates of America | IT 9 a officience deviate more and |

| Las Vegas Sands Corporation      | Brazil                   | Health care provision       |
|----------------------------------|--------------------------|-----------------------------|
| EVERGREEN LINE                   | Taiwan, Greater China    | Industrial support services |
| ASE Technology Holding Co., Ltd. | Ireland                  | IT & software development   |
| Accenture                        | United States of America | IT & software development   |
| Adobe, Inc.                      | United States of America | IT & software development   |
| Amdocs Ltd                       | Norway                   | IT & software development   |
| Atea ASA                         | France                   | IT & software development   |
| Atos SE                          | France                   | IT & software development   |
| Capgemini SE                     | United States of America | IT & software development   |
| Cisco Systems, Inc.              | Japan                    | IT & software development   |
| Fujitsu Limited                  | India                    | IT & software development   |
| Infosys Limited                  | United States of America | IT & software development   |
| Microsoft Corporation            | Japan                    | IT & software development   |
| NEC Corporation                  | Japan                    | IT & software development   |
| Nomura Research Institute, Ltd.  | United States of America | IT & software development   |
| Oracle Corporation               | United States of America | IT & software development   |
| Salesforce.com, Inc.             | Germany                  | IT & software development   |
| SAP SE                           | France                   | IT & software development   |
| Sopra Steria Group               | India                    | IT & software development   |
| Tech Mahindra                    | Norway                   | IT & software development   |
| TietoEVRY                        | United States of America | IT & software development   |
|                                  |                          |                             |

IT & software development

India

Fiskars Corporation

| COMPANY NAME                                      | COUNTRY                                              | PRIMARY ACTIVITY GROUP                           |
|---------------------------------------------------|------------------------------------------------------|--------------------------------------------------|
| GENERAL                                           |                                                      |                                                  |
| Transurban Group                                  | Australia                                            | Land & property ownership & development          |
| Citizen Watch Co.,Ltd.                            | Japan                                                | Leisure & home manufacturing                     |
| CJCHT Groups Limited                              | China, Hong Kong Special Administrative Region       | Leisure & home manufacturing                     |
| Steelcase                                         | United States of America                             | Leisure & home manufacturing                     |
| Toyoda Gosei                                      | Japan                                                | Leisure & home manufacturing                     |
| Toyota Boshoku Corporation                        | Japan                                                | Leisure & home manufacturing                     |
| Yamaha Corporation                                | Japan                                                | Leisure & home manufacturing                     |
| Ardagh Group                                      | Ireland                                              | Light manufacturing                              |
| Bridgestone Corporation                           | Japan                                                | Light manufacturing                              |
| BRISA BRIDGESTONE SABANCI LASTIK SAN. VE TIC. A.S | Turkey                                               | Light manufacturing                              |
| Constantia Flexibles                              | Austria                                              | Light manufacturing                              |
| Continental AG                                    | Germany                                              | Light manufacturing                              |
| Michelin                                          | France                                               | Light manufacturing                              |
| Nokian Tyres                                      | Finland                                              | Light manufacturing                              |
| SIG Holding AG                                    | Switzerland                                          | Light manufacturing                              |
| TETRA PAK                                         | Sweden                                               | Light manufacturing                              |
| VPK Packaging Group NV                            | Belgium                                              | Light manufacturing                              |
| AT&T Inc.                                         | United States of America                             | Media, telecommunications & data center services |
| BT Group                                          | United Kingdom of Great Britain and Northern Ireland | Media, telecommunications & data center services |
| Deutsche Telekom AG                               | Germany                                              | Media, telecommunications & data center services |
| Far EasTone Telecommunications                    | Taiwan, Greater China                                | Media, telecommunications & data center services |
| Hewlett Packard Enterprise Company                | United States of America                             | Media, telecommunications & data center services |
| KDDI Corporation                                  | Japan                                                | Media, telecommunications & data center services |
| Koninklijke KPN NV (Royal KPN)                    | Netherlands                                          | Media, telecommunications & data center services |
| LG Uplus                                          | Republic of Korea                                    | Media, telecommunications & data center services |
| Magyar Telekom Nyrt.                              | Hungary                                              | Media, telecommunications & data center services |
| QUALITY TECHNOLOGY SERVICES                       | United States of America                             | Media, telecommunications & data center services |
| Telefónica                                        | Spain                                                | Media, telecommunications & data center services |
| Telefonica Brasil S.A.                            | Brazil                                               | Media, telecommunications & data center services |
| Telstra Corporation                               | Australia                                            | Media, telecommunications & data center services |
| Vodafone Group                                    | United Kingdom of Great Britain and Northern Ireland | Media, telecommunications & data center services |
| CVS Health                                        | United States of America                             | Medical equipment & supplies                     |
| Koninklijke Philips NV                            | Netherlands                                          | Medical equipment & supplies                     |
| Shummi Enterprise Co., Ltd                        | China                                                | Medical equipment & supplies                     |
| Ball Corporation                                  | United States of America                             | Metal products manufacturing                     |
| Crown Holdings                                    | United States of America                             | Metal products manufacturing                     |
|                                                   |                                                      |                                                  |

Finland

Metal products manufacturing

| OMPANY NAME                     | COUNTRY                                              | PRIMARY ACTIVITY GROUP            |
|---------------------------------|------------------------------------------------------|-----------------------------------|
| ENERAL                          |                                                      |                                   |
| estamp                          | Spain                                                | Metal products manufacturing      |
| eif Inc                         | United States of America                             | Metal products manufacturing      |
| exans                           | France                                               | Metal products manufacturing      |
| K Ltd.                          | Japan                                                | Metal products manufacturing      |
| CIFIC INDUSTRIAL CO.,LTD.       | Japan                                                | Metal products manufacturing      |
| bert Bosch GmbH                 | Germany                                              | Metal products manufacturing      |
| anley Black & Decker, Inc.      | United States of America                             | Metal products manufacturing      |
| vium Packaging                  | Netherlands                                          | Metal products manufacturing      |
| uas Andinas SA                  | Chile                                                | Non-energy utilities              |
| nglian Water                    | United Kingdom of Great Britain and Northern Ireland | Non-energy utilities              |
| lez                             | France                                               | Non-energy utilities              |
| olia Environnement SA           | France                                               | Non-energy utilities              |
| aste Management, Inc.           | United States of America                             | Non-energy utilities              |
| igspan Group PLC                | Ireland                                              | Other materials                   |
| IL Group Corporation            | Japan                                                | Other materials                   |
| ens Corning                     | United States of America                             | Other materials                   |
| int-Gobain                      | France                                               | Other materials                   |
| nesse Holdings, Inc.            | Japan                                                | Other services                    |
| L                               | United States of America                             | Other services                    |
| yu Fudosan Holdings Corporation | Japan                                                | Other services                    |
| tarGroup                        | United States of America                             | Plastic product manufacturing     |
| RAY CANADA                      | Canada                                               | Plastic product manufacturing     |
| AUTY STAR                       | China                                                | Plastic product manufacturing     |
| eative Group of Industries      | India                                                | Plastic product manufacturing     |
| aled Air Corp.                  | United States of America                             | Plastic product manufacturing     |
| sy Plastics                     | United States of America                             | Plastic product manufacturing     |
| Nippon Printing Co., Ltd.       | Japan                                                | Print & publishing services       |
| elmann                          | Germany                                              | Print & publishing services       |
| arson                           | United Kingdom of Great Britain and Northern Ireland | Print & publishing services       |
| en                              | France                                               | Specialized professional services |
|                                 |                                                      |                                   |

| Edelmann                | Germany                                              | Print & publishing services       |
|-------------------------|------------------------------------------------------|-----------------------------------|
| Pearson                 | United Kingdom of Great Britain and Northern Ireland | Print & publishing services       |
| Alten                   | France                                               | Specialized professional services |
| Ernst & Young LLP UK    | United Kingdom of Great Britain and Northern Ireland | Specialized professional services |
| KPMG UK                 | United Kingdom of Great Britain and Northern Ireland | Specialized professional services |
| Mastercard Incorporated | United States of America                             | Specialized professional services |
| McKinsey & Company      | United Kingdom of Great Britain and Northern Ireland | Specialized professional services |
| Moody's Corporation     | United States of America                             | Specialized professional services |
| Refinitiv               | United Kingdom of Great Britain and Northern Ireland | Specialized professional services |
| S&P Global              | United States of America                             | Specialized professional services |

| COMPANY NAME             | COUNTRY                                              | PRIMARY ACTIVITY GROUP                             |
|--------------------------|------------------------------------------------------|----------------------------------------------------|
| GENERAL                  |                                                      |                                                    |
| Stantec Inc.             | Canada                                               | Specialized professional services                  |
| WICRESOFT                | China                                                | Specialized professional services                  |
| Asics Corporation        | Japan                                                | Textiles & fabric goods                            |
| Burberry Group           | United Kingdom of Great Britain and Northern Ireland | Textiles & fabric goods                            |
| Fruit of the Loom        | United States of America                             | Textiles & fabric goods                            |
| Garan Manufacturing Corp | United States of America                             | Textiles & fabric goods                            |
| PATTERN SPA              | Italy                                                | Textiles & fabric goods                            |
| PEKING HANDICRAFT INC    | United States of America                             | Textiles & fabric goods                            |
| PUMA SE                  | Germany                                              | Textiles & fabric goods                            |
| Grupo Logista            | Spain                                                | Trading, wholesale, distribution, rental & leasing |
| Rexel                    | France                                               | Trading, wholesale, distribution, rental & leasing |
| Ricoh Leasing Co., Ltd.  | Japan                                                | Trading, wholesale, distribution, rental & leasing |
| Alphabet, Inc.           | United States of America                             | Web & marketing services                           |
| APG SGA SA               | Switzerland                                          | Web & marketing services                           |
| Dentsu Inc.              | Japan                                                | Web & marketing services                           |
| METALS & MINING          |                                                      |                                                    |
| United Co RUSAL PLC      | Russian Federation                                   | Metal smelting, refining & forming                 |
| Vallourec                | France                                               | Metal smelting, refining & forming                 |
| Petra Diamonds Pty Ltd   | United Kingdom of Great Britain and Northern Ireland | Metallic mineral mining                            |
| OIL & GAS                |                                                      |                                                    |
| Eni SpA                  | Italy                                                | Oil & gas processing                               |
| Equinor                  | Norway                                               | Oil & gas processing                               |
| ENAGAS                   | Spain                                                | Oil & gas storage & transportation                 |
| PAPER & FORESTRY         |                                                      |                                                    |
| BillerudKorsnas          | Sweden                                               | Paper products & packaging                         |
| Elopak                   | Norway                                               | Paper products & packaging                         |
| Essity                   | Sweden                                               | Paper products & packaging                         |
| Metsa Board Corporation  | Finland                                              | Paper products & packaging                         |
| Mondi PLC                | United Kingdom of Great Britain and Northern Ireland | Paper products & packaging                         |
| Sofidel S.p.A.           | Italy                                                | Paper products & packaging                         |
| Uni-Charm Corporation    | Japan                                                | Paper products & packaging                         |
| Klabin S/A               | Brazil                                               | Wood & paper materials                             |
| Stora Enso Oyj           | Finland                                              | Wood & paper materials                             |
|                          |                                                      |                                                    |

| COMPANY NAME                            | COUNTRY                                              | PRIMARY ACTIVITY GROUP                  |
|-----------------------------------------|------------------------------------------------------|-----------------------------------------|
| REAL ESTATE                             |                                                      |                                         |
| NH Hotel Group                          | Spain                                                | Bars, hotels & restaurants              |
| Scandic Hotels Group                    | Sweden                                               | Bars, hotels & restaurants              |
| Whitbread Plc                           | United Kingdom of Great Britain and Northern Ireland | Bars, hotels & restaurants              |
| AvalonBay Communities                   | United States of America                             | Financial services                      |
| Befimmo SA                              | Belgium                                              | Financial services                      |
| Big Yellow Group                        | United Kingdom of Great Britain and Northern Ireland | Financial services                      |
| Cegereal                                | France                                               | Financial services                      |
| Covivio                                 | France                                               | Financial services                      |
| Daiwa House REIT Investment Corporation | Japan                                                | Financial services                      |
| Dexus                                   | Australia                                            | Financial services                      |
| Gecina                                  | France                                               | Financial services                      |
| Host Hotels & Resorts, Inc.             | United States of America                             | Financial services                      |
| Kiwi Property Group                     | New Zealand                                          | Financial services                      |
| Landsec                                 | United Kingdom of Great Britain and Northern Ireland | Financial services                      |
| Unibail-Rodamco-Westfield               | France                                               | Financial services                      |
| Workspace Group                         | United Kingdom of Great Britain and Northern Ireland | Financial services                      |
| Aeon Mall Co., Ltd.                     | Japan                                                | Land & property ownership & development |
| Castellum                               | Sweden                                               | Land & property ownership & development |
| City Developments Limited               | Singapore                                            | Land & property ownership & development |
| Mahindra Lifespace Developers Limited   | India                                                | Land & property ownership & development |
| Mitsubishi Estate Co., Ltd.             | Japan                                                | Land & property ownership & development |
| STEEL                                   |                                                      |                                         |
| Outokumpu Oyj                           | Finland                                              | Metal smelting, refining & forming      |
| Voestalpine AG                          | Austria                                              | Metal smelting, refining & forming      |
| TRANSPORT OEMS                          |                                                      |                                         |
| Cummins Inc.                            | United States of America                             | Powered machinery                       |
| Airbus SE                               | Netherlands                                          | Transportation equipment                |
| BMW AG                                  | Germany                                              | Transportation equipment                |
| Daihatsu Motor Co., Ltd.                | Japan                                                | Transportation equipment                |
| Daimler AG                              | Germany                                              | Transportation equipment                |
| Fincantieri                             | Italy                                                | Transportation equipment                |
| Ford Motor Company                      | United States of America                             | Transportation equipment                |
| Groupe PSA                              | France                                               | Transportation equipment                |
| Honda Motor Co., Ltd.                   | Japan                                                | Transportation equipment                |
| Isuzu Motors Limited                    | Japan                                                | Transportation equipment                |
| Kia Motors Corp                         | Republic of Korea                                    | Transportation equipment                |

| COMPANY NAME                      | COUNTRY                  | PRIMARY ACTIVITY GROUP           |
|-----------------------------------|--------------------------|----------------------------------|
| REAL ESTATE                       |                          |                                  |
| Mahindra & Mahindra               | India                    | Transportation equipment         |
| Renault                           | France                   | Transportation equipment         |
| SUBARU CORPORATION                | Japan                    | Transportation equipment         |
| Tata Motors                       | India                    | Transportation equipment         |
| Toyota Motor Corporation          | Japan                    | Transportation equipment         |
| Volkswagen AG                     | Germany                  | Transportation equipment         |
| TRANSPORT SERVICES                |                          |                                  |
| United Airlines Holdings          | United States of America | Air transport                    |
| La Poste                          | France                   | Intermodal transport & logistics |
| Nippon Express Co., Ltd.          | Japan                    | Intermodal transport & logistics |
| Osterreichische Post AG           | Austria                  | Intermodal transport & logistics |
| PostNL                            | Netherlands              | Intermodal transport & logistics |
| Kawasaki Kisen Kaisha, Ltd.       | Japan                    | Marine transport                 |
| Nippon Yusen Kaisha Line          | Japan                    | Marine transport                 |
| Canadian National Railway Company | Canada                   | Rail transport                   |
| CSX Corporation                   | United States of America | Rail transport                   |
| Deutsche Bahn AG                  | Germany                  | Rail transport                   |
| Union Pacific Corporation         | United States of America | Rail transport                   |
| The Martin-Brower Company, L.L.C. | United States of America | Road transport                   |

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