

September 2019

Deeds Not Words

The Growth Of Climate Action
In The Corporate World

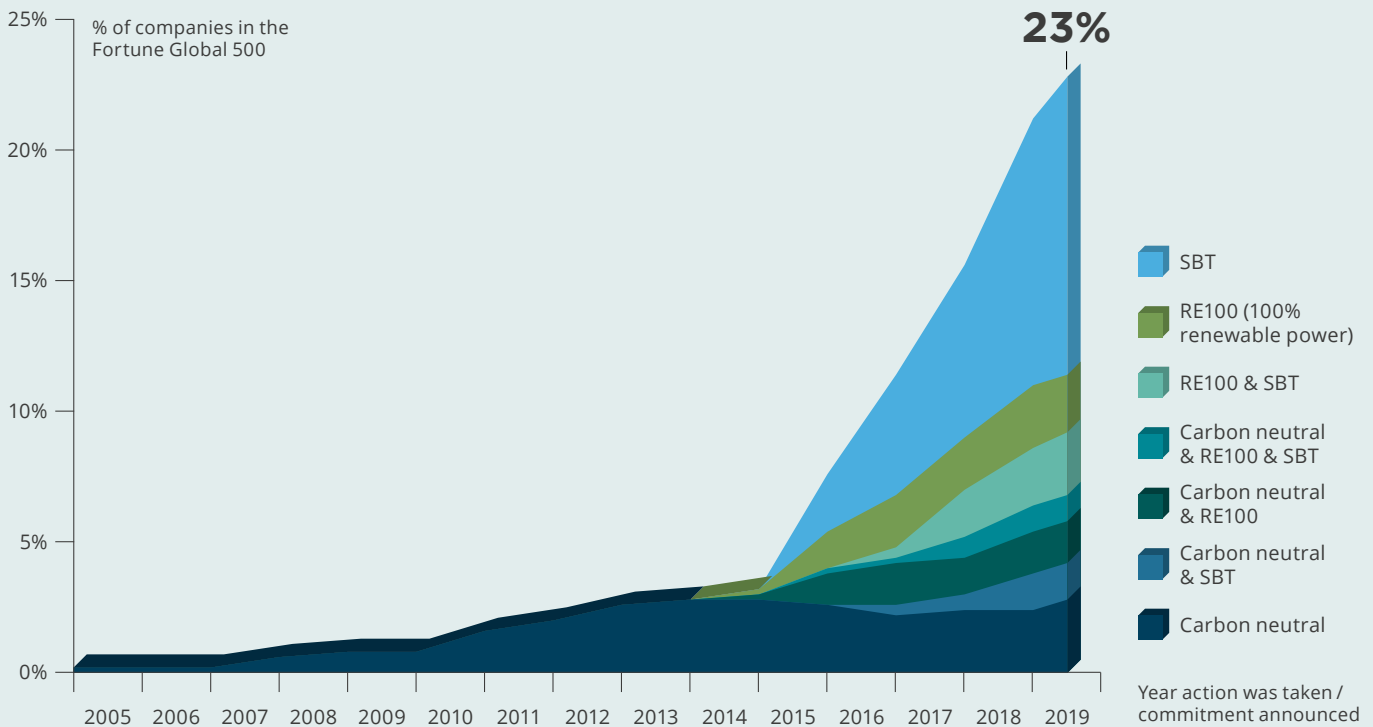


Fortune Global 500 companies are increasing climate action

1/4 of Fortune Global 500 companies have made a public commitment that they are, or will be by 2030, carbon neutral, using 100% renewable power, or meeting a Science-Based emission reduction target (SBT).

4x increase in the number of companies with actions or public commitments since the Paris Agreement in 2015 (from 31 companies to 114)

Fortune Global 500 companies that have made a public commitment that they are, or will be by 2030: carbon neutral, using 100% renewable power, or meeting an SBT



We looked at which Fortune Global 500 companies have made a public commitment that they are, or will be by 2030, carbon neutral, using 100% renewable power, or meeting an SBT. We found that:

\$8 trillion combined revenues of Fortune Global 500 companies taking action or publicly committed

18 million combined employees of Fortune Global 500 companies taking action / publicly committed

42% of European-headquartered companies are taking action or publicly committed

25% of US-headquartered companies are taking action or publicly committed

17/19 sectors have a Fortune Global 500 company taking action or publicly committed

79% of Fortune Global 500 companies could be carbon neutral, be using 100% renewable power or have met an SBT by 2030, if current trends continue

4x Companies that are carbon neutral or have a public commitment are four times more likely to have an SBT than companies not taking action or publicly committed

6x Companies that are carbon neutral or have a public commitment are six times more likely to be an RE100 signatory than companies not taking action or publicly committed

Fortune Global 500 companies are increasing climate action

The call for action on climate is getting louder from community protests, scientists, students and the media, but who is stepping up and doing something about it?

Our research shows that one quarter of the Fortune Global 500 – representing the world's largest companies – are taking action while governments continue to waver, with a rapid increase in commitments following the signing of the Paris Agreement in November 2015.

We chose the Fortune Global 500, which have combined revenues of \$32 trillion and employ 70 million people around the world, not only because of the climate impact of their own operations, but also because of their significant influence on their suppliers, customers and the wider world of business and government. That does not of course diminish the value of many other businesses – small, medium and large – throughout the world, that have also realised the urgency of our climate situation and are reducing their carbon emissions.

We studied the commitments that companies in the Fortune Global 500 have made towards carbon neutrality¹, 100% renewable power² and Science Based Targets³ (SBTs), and whether they are already meeting those commitments or are publicly committed to achieve them by 2030: the IPCC's key deadline for getting on the path that limits the global average temperature rise to 1.5 degrees Celsius.

114 companies in the Fortune Global 500 have made a public commitment to one, or a combination, of these initiatives. Of those, 21 companies are meeting their commitments now, 17 have committed to reaching their target(s) by 2020, and 76 by 2030. Since the signing of the Paris Agreement, the number of companies that have met or made commitments has quadrupled, with increases in commitments to 100% renewable power through RE100 and SBTs being particularly high since those initiatives only began in 2014 and 2015 respectively.

Our analysis suggests that if the growth continues in a similar way, by 2030 79% of the Fortune Global 500 could be carbon neutral, be using 100% renewable power or have met a science-based target for internal emissions reductions.

¹ Carbon neutrality is achieved by calculating a carbon footprint and reducing it to zero through a combination of in-house efficiency measures and supporting external emission reduction projects. See Appendix for more details on how we defined carbon neutrality.

² We defined 100% renewable electricity in line with the RE100, a programme set up by The Climate Group and CDP.

³ The Science-Based Target Initiative is an initiative set up by the UN Global Compact, World Resources Institute (WRI), CDP and WWF to establish a robust, measurable approach for companies to establish internal reduction targets in line with the need to keep global temperature rise to below 2 or 1.5 degrees Celsius.

The majority of commitments are made by companies headquartered in Europe and North America (76%). But companies across the world are making progress, with commitments from at least one company headquartered in each continent with a Fortune Global 500-headquartered company. A further 6 (1% of) companies have made public commitments to carbon neutrality, RE100 or SBTs by 2050.

Our research found that commitments to carbon neutrality frequently complement SBTs and 100% renewable power goals. Companies with a carbon neutral commitment are four times more likely to have an SBT and six times more likely to be an RE100 signatory than companies without a carbon neutral commitment. It also showed progress in most sectors: only Business Services and Chemicals sectors are without a Fortune Global 500 company taking action or with a commitment.

These findings and the predicted trend for increased action amongst these influential businesses may come as no surprise.

Recent events have helped increase the focus on corporate climate action from many different stakeholders: measuring and reporting climate risk through initiatives such as the Task Force on Climate-related Financial Disclosures (TCFD) and shareholder resolutions; civil society mobilisation and increasing public awareness about climate change means that increasing numbers are changing their consumption and employment choices to favour the climate; as well as the wavering of national commitments from governments throughout the world.

If society and business stands expectant on governments, recent form suggests we're as good as sunk in the rising tides and extreme weather that will surely follow. Business can't stand still and point the finger at politicians or they risk being left behind in their industry and missing out on the opportunity to serve their customers' wishes. Within a matter of years not decades, climate action will become the minimum floor of acceptability for companies.

We have an opportunity now to harness the power of business in creating the more sustainable world that is required.

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About the Fortune Global 500

We chose the Fortune Global 500 because it serves as a large and representative sample of the private sector as a whole. Fortune Global 500 companies have combined revenues of \$32 trillion and employ 70 million people around the world. (For reference, the total GDP of the U.S. is \$20 trillion)⁴.

In addition to the importance of climate action within their own operations, these companies have significant influence on their suppliers, customers and the wider world of business and government.

That does not of course diminish the value of many other businesses – small, medium and large – throughout the world, that have also realised the urgency of our climate situation and are reducing their carbon emissions.

\$32 trillion

combined revenues of Fortune Global 500 companies

70 million

combined employees of Fortune Global 500 companies

About the research

The research looked at the following three meaningful publicly-available climate action measures of the Fortune Global 500 companies.

Table 1: Definitions of climate actions

	Definition	More about this definition	Example	How we sourced the data
Carbon neutral	“Calculating a carbon footprint and reducing it to zero through a combination of in-house efficiency measures and external emission reduction projects.”	From carbonneutral.com, the home of The CarbonNeutral Protocol, the leading global framework for carbon neutrality for businesses, created and managed by Natural Capital Partners. A similar definition is available from Climate Neutral Now, an initiative of United Nations Framework Convention on Climate Change (UNFCCC).	Microsoft In 2012 the technology giant became carbon neutral, using a carbon fee to fund external emissions reductions projects and renewable energy projects around the world.	Desk-based research into companies based on Natural Capital Partners’ criteria (see Appendix for more)
RE100	“100% renewable power”	RE100 was created in 2014 by The Climate Group and CDP	H&M In 2014 the Swedish apparel company set a goal to achieve 100% renewable power by 2030. By 2016 it had reached 96%.	Used the publicly-available data from RE100
Science-Based Target	“Provide companies with a clearly defined pathway to future-proof growth by specifying how much and how quickly they need to reduce their greenhouse gas emissions”	Science-Based Targets Initiative (SBTi) was created in 2015 by CDP, UN Global Compact, World Resources Institute (WRI), WWF	HP In 2017 the information technology company committed to reduce its Scope 1 and 2 emissions 25% by 2025, Scope 3 emissions intensity from its products 25% by 2020 and Scope 3 emissions intensity from first-tier suppliers 10% by 2025.	Used the publicly-available data from SBTi. We considered companies with “Targets Set” the same as companies that are “Committed” to set a target

We also looked at other climate actions including B Corp, SBTi’s *Our Only Future*/1.5 degree target. We recorded these other actions in Table 9 in the Appendix.

Fortune Global 500 companies are increasing climate action

One quarter of Fortune Global 500 companies have made a public commitment that they are, or will be by 2030, carbon neutral, using 100% renewable power, or meeting an SBT. There has been a rapid increase in commitments following the signing of the Paris Agreement in November 2015, with commitments increasing four-fold (from 31 companies to 114).

We studied what companies are already doing and are publicly committed to deliver by 2030: the IPCC’s key deadline for getting on the path that limits the global average temperature rise to 1.5 degrees Celsius.

Companies are preparing for a carbon-constrained world and the likelihood of increased regulation, meeting increasing demand from customers, shareholders and employees for demonstrable action on their climate impact, reducing risk in their supply chains, and improving the efficiency of their company’s operations.

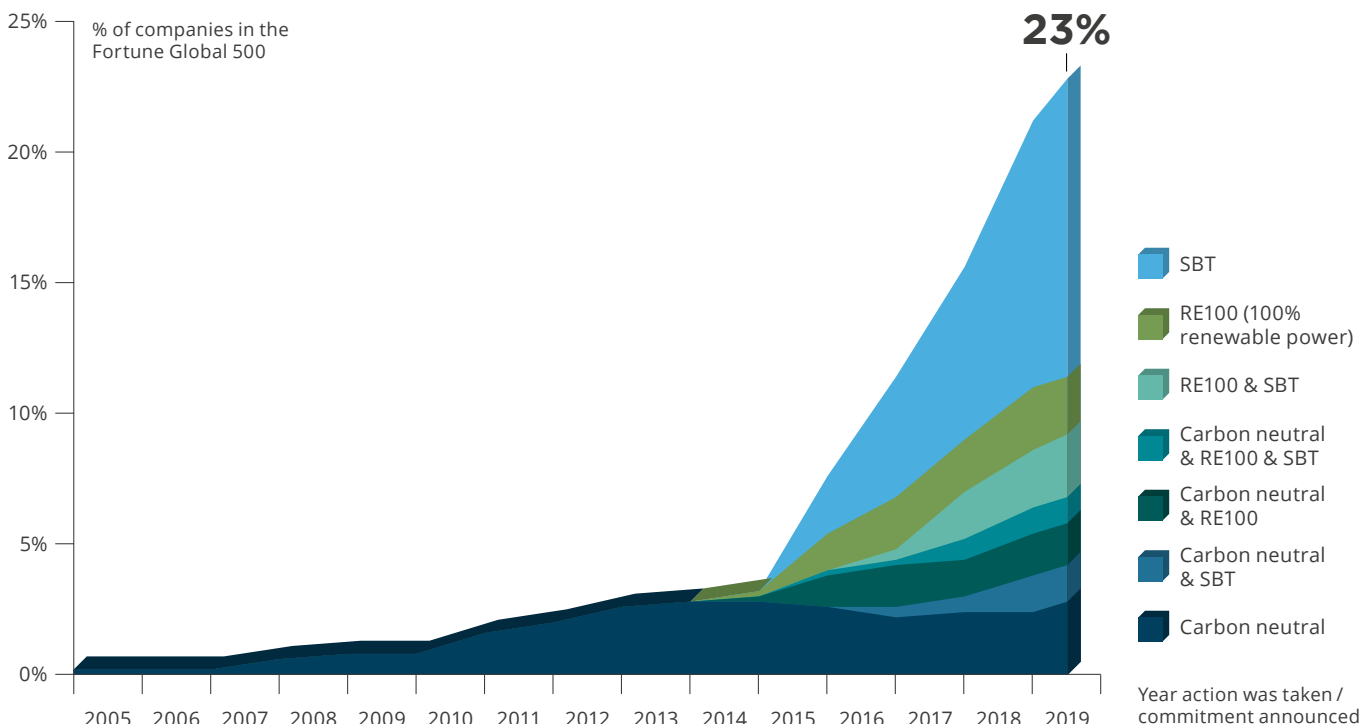
114 of the 500 companies have made a public commitment to one, or a combination, of these initiatives. Of those, 21 companies are meeting their commitments now, 17 have committed to reaching their target(s) by 2020, and 76 by 2030.

This has quadrupled since the signing of the Paris Agreement, with increases in commitments to RE100 and SBTs being particularly high since those initiatives only began in 2014 and 2015 respectively.

1/4
of Fortune Global 500 companies are taking action or publicly committed

4x
increase in actions and public commitments since the Paris Agreement

Figure 1: Percentage of Fortune Global 500 companies that have made a public commitment that they are, or will be by 2030: carbon neutral, using 100% renewable power, or meeting an SBT.



Major companies are carbon neutral today or using a near-term goal to drive rapid transformation

Carbon neutrality is achieved by calculating a carbon footprint and reducing it to zero through a combination of in-house efficiency measures and supporting external emission reduction projects.

By achieving carbon neutrality now companies are delivering immediate, measured and verified emission reductions while driving longer term operational changes within their business.

Carbon neutrality sets a clear, simple target to drive focus: As one corporate sustainability leader told us, "There's no point to try for an 80% reduction, since everyone in the business thinks they are in the 20%.⁵". It enables companies to put a price on carbon into the business, which can be used to incentivise greater operational efficiencies on expensive high-carbon behaviours, and meet internal reduction targets set through an SBT.

Research found that companies that use verified external emission reduction projects, many of which are carbon neutral, are 50% more likely to have an absolute target for emissions reductions, and four times more likely to have set an internal price on carbon⁶.

50 of the Fortune Global 500 have carbon neutral commitments.

1/3 Roughly a third are carbon neutral today, a third are committed to carbon neutrality by 2030, and a third by 2050.

Table 2: List of Fortune Global 500 companies that have made a public commitment that they are, or will be, carbon neutral.

Today	Future	
	2020-2030	2035-2050
<p>now</p> <ul style="list-style-type: none"> Achmea Allianz Alphabet Australia & New Zealand Banking Group BNP Paribas Capital One Financial Credit Suisse Group Deutsche Bank Goldman Sachs Group ING Group La Poste MetLife Microsoft Munich Re Group National Australia Bank Swiss Re Tokio Marine Holdings Toronto-Dominion Bank Zurich Insurance Group 	<p>2020</p> <ul style="list-style-type: none"> Bank of America Corp. Bosch Group L'Oréal <p>2022-2025</p> <ul style="list-style-type: none"> Coop Group Morgan Stanley Novartis SAP <p>2030</p> <ul style="list-style-type: none"> E.ON ENI LG Electronics Schneider Electric Siemens State Bank of India Unilever 	<p>2035-2045</p> <ul style="list-style-type: none"> BT Group Daimler Verizon Communications <p>2035-2045</p> <ul style="list-style-type: none"> Centrica Danone Deutsche Post DHL Group Electricité de France Enel Fujitsu GlaxoSmithKline Iberdrola Maersk Group Panasonic Sony Tesco Toyota Motor Volkswagen

2030 is a key milestone according to the IPCC's SR15 report

Carbon neutrality is a key pillar of Fortune Global 500 climate action

The research found that commitments to carbon neutrality frequently complement SBTs and 100% renewable power goals. Companies with a carbon neutral commitment are four times more likely to have an SBT and six times more likely to be an RE100 signatory than companies without a carbon neutral commitment.

Carbon neutrality provides a framework for companies to achieve zero emissions immediately while deeper operational changes are made, working as the capstone to their other climate programmes.

Figure 2: Correlation between Fortune Global 500 companies' public commitments that they are, or will be, carbon neutral, using 100% renewable power, or meeting an SBT.

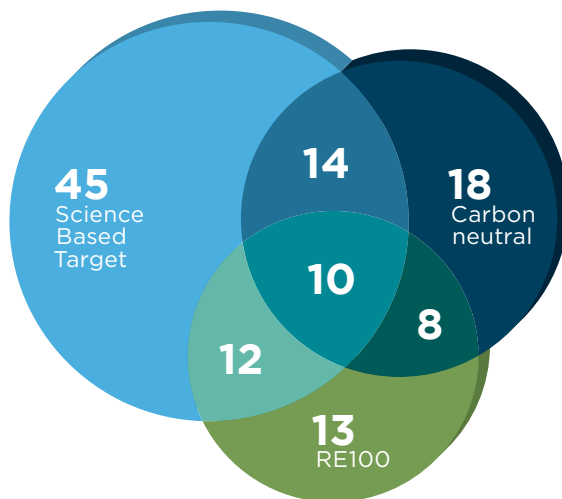
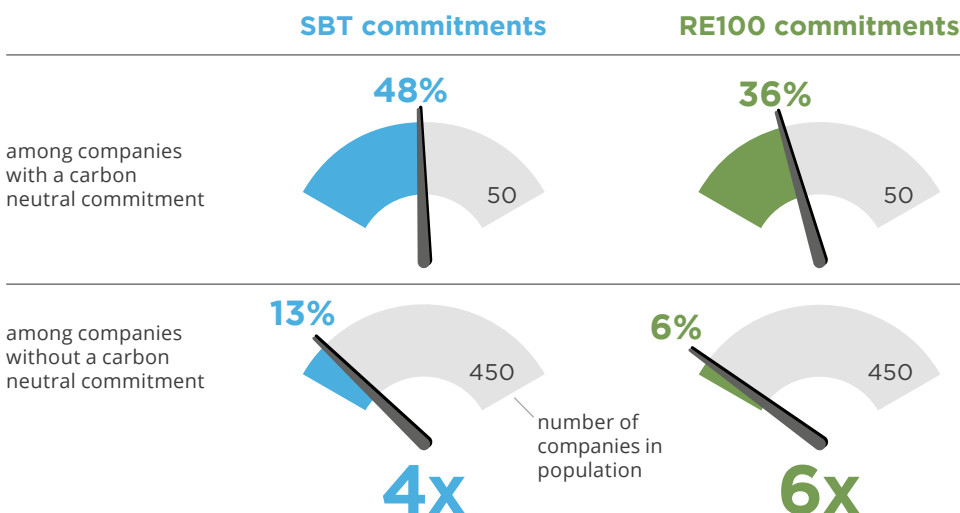


Figure 3: Comparison of SBT and RE100 commitments between Fortune Global 500 companies with and without a carbon neutral commitment



4x

Companies with a carbon neutral commitment are four times more likely to have an SBT than companies without a carbon neutral commitment

6x

Companies with a carbon neutral commitment are six times more likely to be an RE100 signatory than companies without a carbon neutral commitment.

"Targets adopted by companies to reduce emissions are considered "science-based" if they are in line with what the latest climate science says is necessary to meet the goals of the Paris Agreement – to limit global warming to well-below 2°C above pre-industrial levels and pursue efforts to limit warming to 1.5°C." Science-Based Target Initiative

"To give you an idea of the scale: the electricity demand of RE100 companies equates to more than half of that of California, which is significant." Sam Kimmins, Head of RE100 at The Climate Group, November 2018

Businesses around the world are taking climate action

The majority of commitments are made by companies headquartered in Europe and North America (76%). But overall companies across the world are making progress, with 2030 commitments from at least one company in all continents that are in the Fortune Global 500.

31% (83) of the (270) Fortune Global 500 companies headquartered in the G7 countries are taking action or are publicly committed to action by 2030. This compares to 5% (7) of the (152) Fortune Global 500 companies headquartered in the G77 + China⁷, the coalition of developing nations.

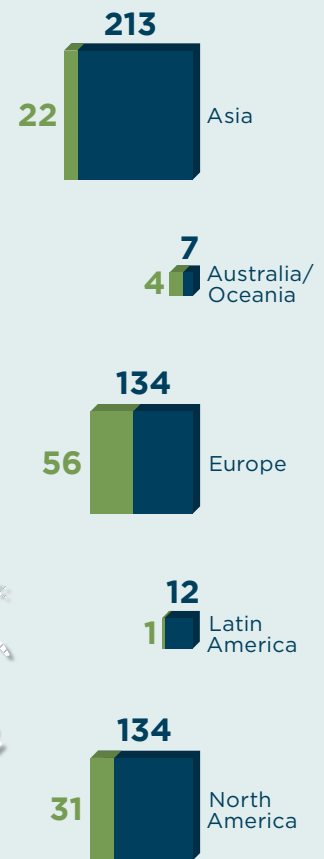
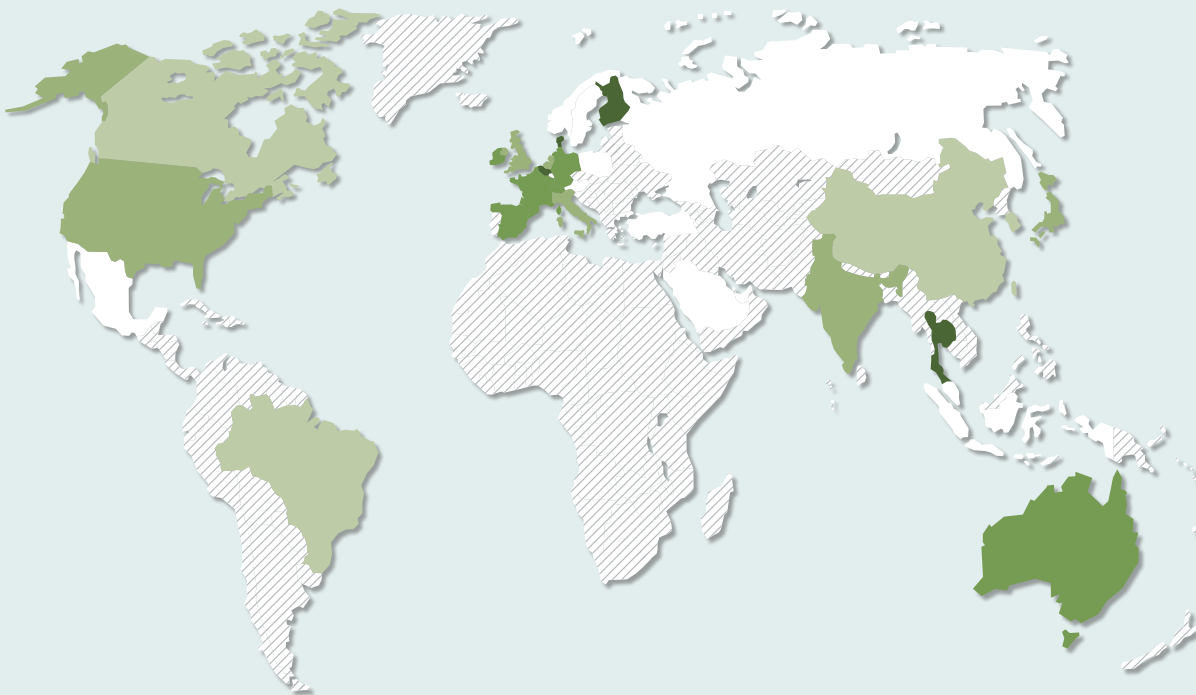
35%

(87) of (255) Europe and U.S. headquartered Fortune Global 500 companies have made a public commitment that they are, or will be by 2030, carbon neutral, using 100% renewable power, or meeting an SBT.

10%

(24) of (238) Asia, Latin America and Canada-headquartered Fortune Global 500 companies - are taking action or have a public commitment

Figure 4: The percentage of Fortune Global 500 companies in different countries and continents that are already or are publicly committed to delivering carbon neutrality, 100% renewable power or a Science Based Target by 2030.



Percentages of climate actions:

- No Fortune Global 500 company
- 0%
- 1-20%
- 21-40%
- 41-60%
- 61-80%
- 81-100%

AREA = Number of Fortune Global 500 companies
 Number of Fortune Global 500 companies that are taking action or have a public commitment to deliver by 2030

Businesses are taking action in all but a few sectors

Only Business Services and Chemicals sectors are without a Fortune Global 500 company taking action or with a 2030 public commitment

The findings show that most companies in sectors with long-lived, high-carbon capital assets do not see easy routes to net zero. Less than 10% of companies in Chemicals, Energy, Engineering & Construction and Materials sectors have 2030 climate commitments.

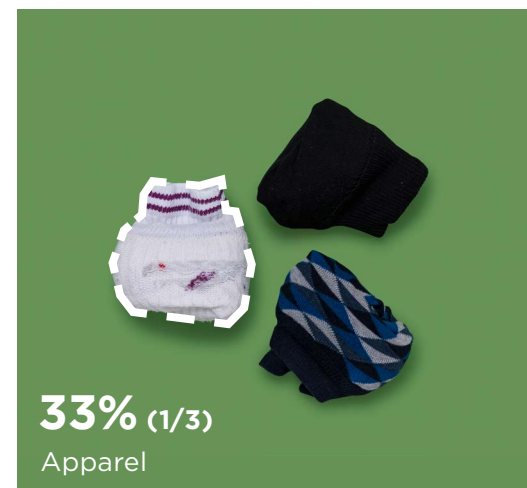
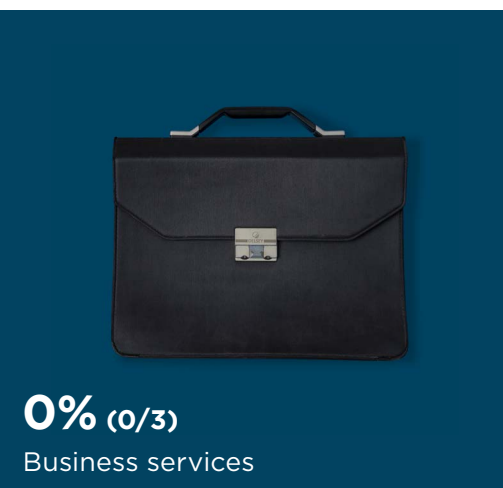
However, as initiatives such as Mission Possible from the Energy Transitions Commission show, even in these harder-to-abate sectors, there are pathways to make progress that are consistent with limiting average global temperature rises to 1.5 degrees⁸.

For the Business Services sector, whilst there are no Fortune Global 500 companies with climate commitments, there are many large global companies taking action. For example, Bain & Company, Boston Consulting Group and Freshfields Bruckhaus Deringer are all carbon neutral today.

17/19

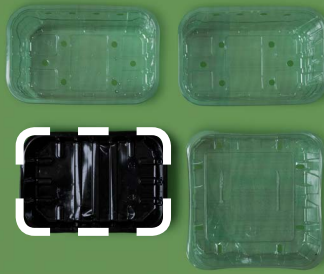
sectors have a Fortune Global 500 company taking action or with a 2030 commitment

Figure 5: The percentage of Fortune Global 500 companies in different sectors that are already or are publicly committed to delivering carbon neutrality, 100% renewable power or an SBT by 2030.





28% (33/118)
Financials



28% (5/18)
Food & drug stores



44% (8/18)
Food, beverages & tobacco



22% (4/18)
Industrials



27% (7/26)
Health care



100% (3/3)
Household products



8% (2/24)
Materials



26% (9/34)
Motor vehicles & parts



28% (5/18)
Retailing



22% (4/18)
Telecommunications & media



51% (19/37)
Technology



25% (5/20)
Transportation

We expect climate action to become the minimum floor of acceptability for companies before 2030

The analysis suggests that if the growth continues in a similar way, by 2030 79% of the Fortune Global 500 could be carbon neutral, be using 100% renewable power or have met an SBT.

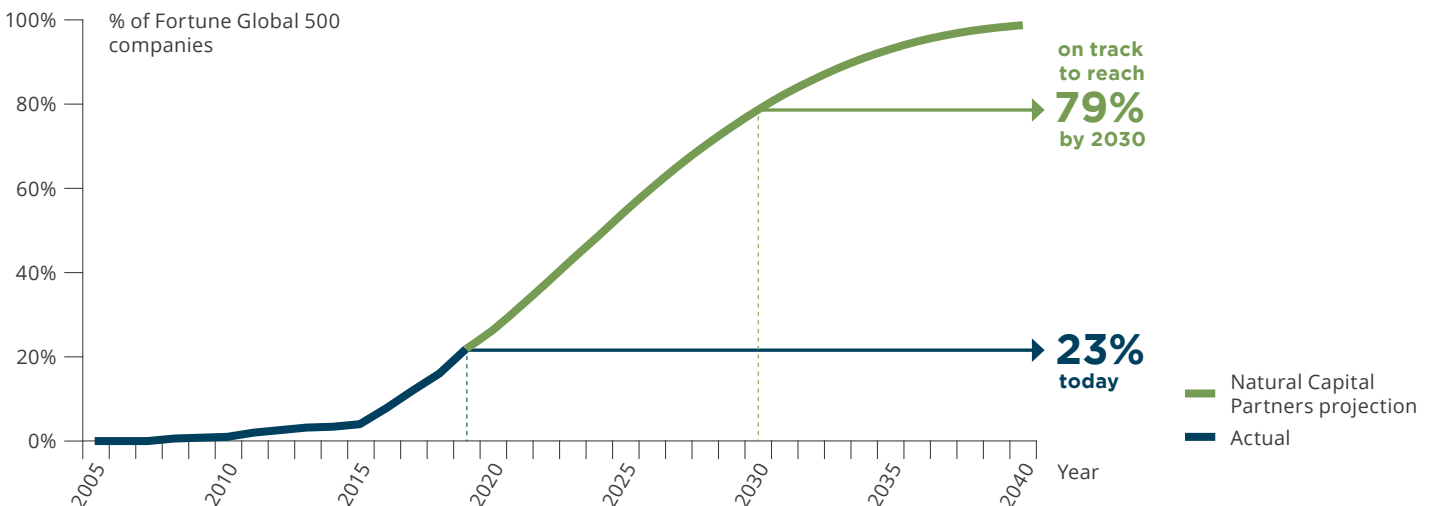
These findings and the predicted trend for increased action amongst these influential businesses may come as no surprise. Recent events have helped increase the focus on corporate climate action from many different stakeholders: measuring and reporting climate risk through initiatives such as the Task Force on Climate-related Financial Disclosures (TCFD) and shareholder resolutions; civil society mobilisation and increasing public awareness about climate change which means that increasing numbers are changing their consumption and employment choices to favour the climate; as well as the wavering of national commitments from governments throughout the world.

Of course, it is possible that the trend towards increasing action by business could slow down, stop, or even reverse, but increasing extreme weather events, and the increased interest and focus amongst civil society make this seem unlikely.

This projection is based on trend forecasting by Natural Capital Partners, with assumptions including: the growth of commitments will tail off as a small proportion of companies will lag behind and be late in adopting climate action; there is currently a slower growth rate among G77 + China-headquartered companies and; the number of G77 + China headquartered companies in the Fortune Global 500 will continue to grow.

4/5
of the Fortune Global 500 could be carbon neutral, be using 100% renewable power or have met an SBT by 2030, if current trends continue

Figure 6: Projection of Fortune Global 500 companies that could be carbon neutral, using 100% renewable power or have met an SBT by 2030 if current trends continue



Sources and Definitions

Fortune Global 500 data: Fortune Global 500, July 2019, [link](#), accessed July 2019

RE100 data: RE100, November 2018, *RE100 Progress And Insights Annual Report, Annex 1: RE100 commitments and achievements*, [link](#), accessed July 2019.

Science-Based Target data: Science-Based Target Initiative, *Current Companies Taking Action*, [link](#), accessed July 2019.

We assumed that all those companies “Committed” to set an SBT would go on to set a target to deliver before 2030, given that 100% of all SBTs to date have a target to deliver by 2030 or earlier.

Carbon neutral data: The UNFCCC’s Climate Neutral Now definition (Table 1) gives no clear definition of the scope of emissions included.

For this research, we defined carbon neutrality as those companies that self-identified as ‘carbon neutral’, ‘net zero’ or ‘carbon positive’⁹ across either:

- All Scope 1 and Scope 2 emissions
or
- ‘company’
or
- ‘operations’
or
- across Scope 3 emissions of products that make up more than a quarter of the entire Scope 3 footprint. (In some sectors, aspects of Scope 3 emissions are referred to as ‘embedded’ emissions.)

Because we undertook desk-based research to look at companies’ actions based on this criteria, we are less confident that we have captured the carbon neutral commitments of companies without English language sustainability reports. Chinese-headquartered companies constituted the majority of these companies for which we might have under-estimated commitments.

All carbon neutral data was accessed in June and July 2019.

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Table 3: Fortune Global 500 companies that are already or are publicly committed to delivering carbon neutrality, 100% renewable power or a Science Based Target by 2030

Company name	Fortune Global 500			Carbon neutrality information						RE100 information			SBT information			
	Rank in Fortune Global 500	Headquarters	Sector	Carbon Neutral commitment	Company (C) or Product (P) or both (C&P)	In their words (carbon neutral unless otherwise stated)	From	Announced	Source	RE100	100% renewable from	Announced	SBT	Target set (T) or committed (C)	From	Announced
ABB	328	Switzerland	Industrials	No	-	-	-	-	-	No	-	-	Yes	C	-	2018
Accenture	298	Ireland	Technology	No	-	-	-	-	-	No	-	-	Yes	T	2025	2018
Achmea	494	Netherlands	Financials	Yes	C	operations... climate neutral	-	2011	Link	No	-	-	No	-	-	-
AEON	118	Japan	Food & Drug Stores	No	-	-	-	-	-	Yes	2030	2018	Yes	T	2030	2019
Allianz	45	Germany	Financials	Yes	C	operational carbon emissions	-	2012	Link	No	-	-	Yes	C	-	2018
Alphabet	37	USA	Technology	Yes	C	operations (Google)	-	2007	Link	Yes	2017	2015	No	-	-	-
Anheuser-Busch InBev	192	Belgium	Food, Beverages & Tobacco	No	-	-	-	-	-	Yes	2025	2017	Yes	T	2025	2018
Anthem	79	USA	Health Care	No	-	-	-	-	-	No	-	-	Yes	C	-	2018
Apple	11	USA	Technology	No	-	-	-	-	-	Yes	No target date ¹⁰	2016	No	-	-	-
Australia & New Zealand Banking Group	457	Australia	Financials	Yes	C	business operations	-	2010	Link	No	-	-	No	-	-	-
AXA	46	France	Financials	No	-	-	-	-	-	Yes	2025	2017	Yes	C	-	2015
Banco Bilbao Vizcaya Argentaria	234	Spain	Financials	No	-	-	-	-	-	Yes	2030	2018	No	-	-	-
Banco Bradesco	221	Brazil	Financials	No	-	-	-	-	-	No	-	-	Yes	C	-	2018
Bank of America Corp.	58	USA	Financials	Yes	C	Scope 1 and 2 emissions	2020	2016	Link	Yes	2020	2016	No	-	-	-

Company name	Fortune Global 500			Carbon neutrality information						RE100 information			SBT information			
	Rank in Fortune Global 500	Headquarters	Sector	Carbon Neutral commitment	Company (C) or Product (P) or both (C&P)	In their words (carbon neutral unless otherwise stated)	From	Announced	Source	RE100	100% renewable from	Announced	SBT	Target set (T) or committed (C)	From	Announced
Best Buy	276	USA	Retailing	No	-	-	-	-	-	No	-	-	Yes	C	-	2018
BMW Group	53	Germany	Motor Vehicles & Parts	No	-	-	-	-	-	Yes	2020	2015	No	-	-	-
BNP Paribas	104	France	Financials	Yes	C	operations	-	2017	Link	No	-	-	Yes	C	-	2016
Bosch Group	77	Germany	Motor Vehicles & Parts	Yes	C	climate-neutral... Its locations and their engineering, manufacturing, and administrative facilities	2020	2019	Link	No	-	-	No	-	-	-
Bridgestone	374	Japan	Motor Vehicles & Parts	No	-	-	-	-	-	No	-	-	Yes	C	-	2017
British American Tobacco	384	Britain	Food, Beverages & Tobacco	No	-	-	-	-	-	No	-	-	Yes	T	2030	2019
BT Group	405	Britain	Telecommunications	Yes	C	Scopes 1 & 2	2045	2018	Link	Yes	2020	2014	Yes	T	2030	2017
Capital One Financial	387	USA	Financials	Yes	C	Scope 1, 2 and business travel... emissions	-	2018	Link	Yes	2017	2018	No	-	-	-
Carrefour	81	France	Food & Drug Stores	No	-	-	-	-	-	No	-	-	Yes	C	-	2015
Centrica	311	Britain	Energy	Yes	C	our own emissions	2050	2019	Link	No	-	-	No	-	-	-
Cisco Systems	225	USA	Technology	No	-	-	-	-	-	No	-	-	Yes	T	2022	2018
Citigroup	71	USA	Financials	No	-	-	-	-	-	Yes	2020	2017	No	-	-	-
Commonwealth Bank of Australia	373	Australia	Financials	No	-	-	-	-	-	Yes	2030	2018	No	-	-	-
Coop Group	415	Switzerland	Food & Drug Stores	Yes	C	CO ₂ -neutral	2023	2008	Link	No	-	-	No	-	-	-
Crédit Agricole	91	France	Financials	No	-	-	-	-	-	Yes	No target date	2016	Yes	C	-	2016

Company name	Fortune Global 500			Carbon neutrality information						RE100 information			SBT information			
	Rank in Fortune Global 500	Headquarters	Sector	Carbon Neutral commitment	Company (C) or Product (P) or both (C&P)	In their words (carbon neutral unless otherwise stated)	From	Announced	Source	RE100	100% renewable from	Announced	SBT	Target set (T) or committed (C)	From	Announced
Credit Suisse Group	360	Switzerland	Financials	Yes	C	operations	-	2010	Link	No	-	-	No	-	-	-
CRH	397	Ireland	Materials	No	-	-	-	-	-	No	-	-	Yes	C	-	2018
CVS Health	19	USA	Health Care	No	-	-	-	-	-	No	-	-	Yes	T	2030	2018
Daimler	18	Germany	Motor Vehicles & Parts	Yes	C&P	new passenger car fleet	2039	2019	Link	No	-	-	Yes	C	-	2016
Daiwa House Industry	327	Japan	Engineering & Construction	No	-	-	-	-	-	Yes	2040	2018	Yes	T	2030	2018
Danone	432	France	Food, Beverages & Tobacco	Yes	C&P	full scope carbon emissions	2050	2018	Link	Yes	2030	2018	Yes	T	2030	2017
Dell Technologies	84	USA	Technology	No	-	-	-	-	-	No	-	-	Yes	T	2020	2015
Deutsche Bahn	208	Germany	Transportation	No	-	-	-	-	-	No	-	-	Yes	C	-	2017
Deutsche Bank	239	Germany	Financials	Yes	C	business operations	-	2013	Link	No	-	-	No	-	-	-
Deutsche Post DHL Group	124	Germany	Transportation	Yes	C	zero emissions... all logistics-related emissions	2050	2017	Link	No	-	-	Yes	C	-	2017
Deutsche Telekom	90	Germany	Telecommunications	No	-	-	-	-	-	No	-	-	Yes	T	2030	2019
E.ON	348	Germany	Energy	Yes	C	all of our plants and buildings will be climate-neutral	2030	2017	Link	No	-	-	No	-	-	-
Electricité de France	110	France	Energy	Yes	C	the CO ₂ discharged into the atmosphere	2050	2018	Link	No	-	-	No	-	-	-
Enel	89	Italy	Energy	Yes	C	entirely carbon-neutral company	2050	2009	Link	No	-	-	Yes	T	2020	2015
ENI	83	Italy	Energy	Yes	C	Net Zero Carbon Footprint Upstream	2030	2018	Link	No	-	-	No	-	-	-

Company name	Fortune Global 500			Carbon neutrality information						RE100 information			SBT information			
	Rank in Fortune Global 500	Headquarters	Sector	Carbon Neutral commitment	Company (C) or Product (P) or both (C&P)	In their words (carbon neutral unless otherwise stated)	From	Announced	Source	RE100	100% renewable from	Announced	SBT	Target set (T) or committed (C)	From	Announced
Facebook	184	USA	Technology	No	-	-	-	-	-	Yes	2020	2016	No	-	-	-
Fubon Financial Holding	471	Taiwan	Financials	No	-	-	-	-	-	No	-	-	Yes	C	-	2016
Fujitsu	349	Japan	Technology	Yes	C	zero CO ₂ emissions	2050	2017	Link	Yes	2050	2018	Yes	T	2030	2017
General Motors	32	USA	Motor Vehicles & Parts	No	-	-	-	-	-	Yes	2050	2016	No	-	-	-
GlaxoSmithKline	296	Britain	Health Care	Yes	C&P	value chain	2050	2011	Link	No	-	-	Yes	C	-	2015
Goldman Sachs Group	204	USA	Financials	Yes	C	Scope 1, Scope 2 and Scope 3 business travel emissions	-	2015	Link	Yes	2020	2015	No	-	-	-
Hewlett Packard Enterprise	404	USA	Technology	No	-	-	-	-	-	No	-	-	Yes	T	2025	2016
Hitachi	102	Japan	Technology	No	-	-	-	-	-	No	-	-	Yes	T	2030	2019
Honda Motor	34	Japan	Motor Vehicles & Parts	No	-	-	-	-	-	No	-	-	Yes	C	-	2015
HP	173	USA	Technology	No	-	-	-	-	-	Yes	No target date	2016	Yes	T	2025	2017
HSBC Holdings	99	Britain	Financials	No	-	-	-	-	-	Yes	2030	2017	Yes	C	-	2016
Iberdrola	292	Spain	Energy	Yes	C	the company	2050	2017	Link	No	-	-	Yes	T	2030	2019
Inditex	406	Spain	Retailing	No	-	-	-	-	-	No	-	-	Yes	C	-	2016
ING Group	310	Netherlands	Financials	Yes	C	climate neutral... carbon neutral	-	2007	Link	Yes	2020	2015	Yes	C	-	2015
Johnson & Johnson	109	USA	Health Care	No	-	-	-	-	-	Yes	2050	2015	No	-	-	-
JPMorgan Chase & Co.	41	USA	Financials	No	-	-	-	-	-	Yes	2020	2017	No	-	-	-

Company name	Fortune Global 500			Carbon neutrality information						RE100 information			SBT information			
	Rank in Fortune Global 500	Headquarters	Sector	Carbon Neutral commitment	Company (C) or Product (P) or both (C&P)	In their words (carbon neutral unless otherwise stated)	From	Announced	Source	RE100	100% renewable from	Announced	SBT	Target set (T) or committed (C)	From	Announced
Kraft Heinz	472	USA	Food, Beverages & Tobacco	No	-	-	-	-	-	No	-	-	Yes	C	-	2018
La Poste	428	France	Transportation	Yes	C&P	Our mail, express, parcel and digital services... [and] all operating activities	-	2012	Link	Yes	2020	2015	Yes	C	-	2017
Lenovo Group	212	China	Technology	No	-	-	-	-	-	No	-	-	Yes	C	-	2018
LG Electronics	185	South Korea	Technology	Yes	C	net-zero carbon emissions from... global operations	2030	2019	Link	No	-	-	No	-	-	-
L'Oréal	396	France	Household Products	Yes	C	industrial and logistics activities	2020	2018	Link	No	-	-	No	-	-	-
Maersk Group	294	Denmark	Transportation	Yes	C	net-zero CO ₂ emissions from operations	2050	2018	Link	No	-	-	Yes	C	-	2019
Merck	285	USA	Health Care	No	-	-	-	-	-	No	-	-	Yes	C	-	2017
MetLife	142	USA	Financials	Yes	C	company	-	2016	Link	No	-	-	Yes	C	-	2016
Metro	267	Germany	Retailing	No	-	-	-	-	-	No	-	-	Yes	C	-	2016
Michelin	478	France	Motor Vehicles & Parts	No	-	-	-	-	-	No	-	-	Yes	C	-	2018
Microsoft	60	USA	Technology	Yes	C	global operations	-	2012	Link	Yes	2017	2015	No	-	-	-
Mitsubishi Electric	300	Japan	Industrials	No	-	-	-	-	-	No	-	-	Yes	C	-	2018
Morgan Stanley	218	USA	Financials	Yes	C	global operations	2022	2017	Link	Yes	2022	2017	No	-	-	-
Munich Re Group	145	Germany	Financials	Yes	C	group-wide	-	2015	Link	No	-	-	No	-	-	-
National Australia Bank	479	Australia	Financials	Yes	C	operations	-	2010	Link	No	-	-	No	-	-	-

Company name	Fortune Global 500			Carbon neutrality information						RE100 information			SBT information			
	Rank in Fortune Global 500	Headquarters	Sector	Carbon Neutral commitment	Company (C) or Product (P) or both (C&P)	In their words (carbon neutral unless otherwise stated)	From	Announced	Source	RE100	100% renewable from	Announced	SBT	Target set (T) or committed (C)	From	Announced
NEC	470	Japan	Technology	No	-	-	-	-	-	No	-	-	Yes	T	2030	2018
Nestlé	76	Switzerland	Food, Beverages & Tobacco	No	-	-	-	-	-	Yes	No target date	2014	Yes	T	2020	2017
Nike	341	USA	Apparel	No	-	-	-	-	-	Yes	2025	2015	Yes	C	-	2017
Nissan Motor	66	Japan	Motor Vehicles & Parts	No	-	-	-	-	-	No	-	-	Yes	C	-	2015
Nokia	466	Finland	Technology	No	-	-	-	-	-	No	-	-	Yes	T	2030	2017
Novartis	201	Switzerland	Health Care	Yes	C	operations (Scope 1 and 2)	2025	2018	Link	No	-	-	Yes	C	-	2015
Orange	228	France	Telecommunications	No	-	-	-	-	-	No	-	-	Yes	C	-	2018
Panasonic	131	Japan	Technology	Yes	C	zero emission	2050	2017	Link	No	-	-	Yes	T	2030	2017
PepsiCo	154	USA	Food, Beverages & Tobacco	No	-	-	-	-	-	No	-	-	Yes	T	2030	2016
Pfizer	198	USA	Health Care	No	-	-	-	-	-	No	-	-	Yes	T	2020	2015
Philip Morris International	422	USA	Food, Beverages & Tobacco	No	-	-	-	-	-	No	-	-	Yes	T	2030	2017
Procter & Gamble	146	USA	Household Products	No	-	-	-	-	-	Yes	2030	2015	Yes	T	2030	2018
Prudential	372	Britain	Financials	No	-	-	-	-	-	Yes	2025	2018	No	-	-	-
PTT	130	Thailand	Energy	No	-	-	-	-	-	No	-	-	Yes	C	-	2016
Saint-Gobain	226	France	Materials	No	-	-	-	-	-	No	-	-	Yes	C	-	2018
Sanofi	288	France	Health Care	No	-	-	-	-	-	No	-	-	Yes	C	-	2018
SAP	427	Germany	Technology	Yes	C	operations	2025	2017	Link	Yes	2014	2015	Yes	T	2025	2017
Schneider Electric	411	France	Industrials	Yes	C	plants and sites	2030	2018	Link	Yes	2030	2017	Yes	C	-	2016

Company name	Fortune Global 500			Carbon neutrality information						RE100 information			SBT information			
	Rank in Fortune Global 500	Headquarters	Sector	Carbon Neutral commitment	Company (C) or Product (P) or both (C&P)	In their words (carbon neutral unless otherwise stated)	From	Announced	Source	RE100	100% renewable from	Announced	SBT	Target set (T) or committed (C)	From	Announced
Siemens	70	Germany	Industrials	Yes	C	Operations... All production facilities and buildings worldwide net-zero	2030	2015	Link	No	-	-	Yes	C	-	2018
SNCF Mobilités	326	France	Transportation	No	-	-	-	-	-	No	-	-	Yes	C	-	2016
Société Générale	174	France	Financials	No	-	-	-	-	-	No	-	-	Yes	C	-	2016
Sompo Holdings	377	Japan	Financials	No	-	-	-	-	-	No	-	-	Yes	C	-	2018
Sony	116	Japan	Technology	Yes	C&P	throughout the life cycle of our products and business activities	2050	2010	Link	Yes	2040	2018	Yes	T	2020	2015
State Bank of India	236	India	Financials	Yes	C	domestic operations	2030	2018	Link	No	-	-	No	-	-	-
Sumitomo	231	Japan	Wholesalers	No	-	-	-	-	-	No	-	-	Yes	T	2030	2018
Swiss Re	332	Switzerland	Financials	Yes	C	Scope 1 and Scope 2 emissions as well as a major source of Scope 3 emissions (business travel)	-	2003	Link	Yes	2020	2014	No	-	-	-
Taiwan Semiconductor Manufacturing	363	Taiwan	Technology	No	-	-	-	-	-	No	-	-	Yes	C	-	2017
Target	122	USA	Retailing	No	-	-	-	-	-	No	-	-	Yes	T	2030	2019
Tata Motors	265	India	Motor Vehicles & Parts	No	-	-	-	-	-	Yes	2030	2016	No	-	-	-
Telefónica	176	Spain	Telecommunications	No	-	-	-	-	-	Yes	2030	2017	Yes	T	2020	2017
Tesco	103	Britain	Food & Drug Stores	Yes		operations	2050	2007	Link	Yes	2030	2017	Yes	T	2025	2017
Tokio Marine Holdings	224	Japan	Financials	Yes	C	emissions generated by its business... Scope 1 + Scope 2 + Scope 3 business travel only	-	2011	Link	No	-	-	Yes	C	-	2018

Company name	Fortune Global 500			Carbon neutrality information						RE100 information			SBT information			
	Rank in Fortune Global 500	Headquarters	Sector	Carbon Neutral commitment	Company (C) or Product (P) or both (C&P)	In their words (carbon neutral unless otherwise stated)	From	Announced	Source	RE100	100% renewable from	Announced	SBT	Target set (T) or committed (C)	From	Announced
Toronto-Dominion Bank	295	Canada	Financials	Yes	C	operational footprint	-	2010	Link	Yes	2017	2016	No	-	-	-
Toyota Motor	10	Japan	Motor Vehicles & Parts	Yes	C&P	At all vehicle plants... [and] the entire vehicle life cycle	2050	2015	Link	No	-	-	Yes	C	-	2016
Tyson Foods	306	USA	Food, Beverages & Tobacco	No	-	-	-	-	-	No	-	-	Yes	T	2030	2018
UBS Group	274	Switzerland	Financials	No	-	-	-	-	-	Yes	2020	2015	No	-	-	-
Unilever	167	Britain/ Netherlands	Household Products	Yes	C&P	carbon positive	2030	2015	Link	Yes	2020	2015	Yes	T	2030	2017
United Technologies	148	USA	Aerospace & Defence	No	-	-	-	-	-	No	-	-	Yes	C	-	2017
Veolia Environnement	407	France	Energy	No	-	-	-	-	-	No	-	-	Yes	C	-	2017
Verizon Communications	43	USA	Telecommunications	Yes	C	Scope 1 and Scope 2 emissions	2035	2019	Link	No	-	-	No	-	-	-
Volkswagen	9	Germany	Motor Vehicles & Parts	Yes	P	entire vehicle fleet... CO ₂ -neutral	2050	2018	Link	No	-	-	No	-	-	-
Walmart	1	USA	Retailing	No	-	-	-	-	-	Yes	2025	2015	Yes	T	2025	2016
Wells Fargo	69	USA	Financials	No	-	-	-	-	-	Yes	2020	2016	No	-	-	-
Woolworths Group	233	Australia	Food & Drug Stores	No	-	-	-	-	-	No	-	-	Yes	C	-	2015
Zurich Insurance Group	238	Switzerland	Financials	Yes	C	emissions from facilities and business travel	-	2014	Link	No	-	-	No	-	-	-

Table 4: Fortune Global 500 companies that had other 'carbon neutral' commitments

Company name	Fortune Global 500			Carbon neutrality information					
	Rank in Fortune Global 500	Headquarters	Sector	Carbon Neutral commitment	Entity or Product	In their words	From	Announced	Source
Amazon.com	13	USA	Retailing	No	n/a	Half of shipments	2030	2019	Link
ArcelorMittal	120	Luxembourg	Materials	No	Product	in Europe	2050	2019	Link
BASF	115	Germany	Chemicals	No	Entity	CO ₂ neutral growth	2030	2018	Link
United Parcel Service	132	USA	Transportation	No	Product	Shipments	2010		Link

The commitments of Amazon, ArcelorMittal and United Parcel Services are not counted as carbon neutral because we have no evidence that they cover either the entire operations' emissions or more than 25% of Scope 3 emissions. BASF is not counted because it only covers the growth in emissions.

Table 5: Percentage of Fortune Global 500 companies that have made a public commitment that they are, or will be by 2030, carbon neutral, using 100% renewable power, or meeting an SBT.

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	July 2019
CN	0,2%	0,2%	0,2%	0,6%	0,8%	0,8%	1,6%	2,0%	2,6%	2,8%	2,8%	2,6%	2,2%	2,4%	2,4%	2,8%
CN+RE100	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,2%	1,2%	1,6%	1,4%	1,6%	1,6%
CN+SBT	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,4%	0,6%	1,4%	1,4%
CN+SBT+RE100	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,2%	0,2%	0,8%	1,0%	1,0%
SBT+RE100	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,4%	1,8%	2,2%	2,4%
RE100	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,2%	1,4%	2,0%	2,0%	2,4%	2,2%
SBT	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	2,2%	4,6%	6,6%	10,2%	11,4%

Table 6: Number and percentage of Fortune Global 500 companies that have made a public commitment that they are, or will be, carbon neutral, using 100% renewable power, or meeting an SBT.

	carbon neutral	RE100	SBT
carbon neutral commitment	-	36% (18/50)	48% (24/50)
no carbon neutral commitment	-	5.6% (25/450)	12.7% (57/450)
RE100 commitment	41.9% (18/43)	-	51.2% (22/43)
no RE100 commitment	7% (32/457)	-	12.9% (59/457)
SBT commitment	29.6% (24/81)	27.2% (22/81)	-
no SBT commitment	6.2% (26/419)	5% (21/419)	-

Table 7: The percentage of Fortune Global 500 companies in different countries and continents that are already or are publicly committed to delivering carbon neutrality, 100% renewable power or an SBT.

Continent/ Country	Number of Fortune Global 500 companies that are taking action or have a public commitment to deliver by 2030	Number of Fortune Global 500 companies	%
Asia	22	213	10%
China	1	119	1%
India	2	7	29%
Indonesia	0	1	0%
Japan	15	52	29%
Malaysia	0	1	0%
Saudi Arabia	0	2	0%
Singapore	0	2	0%
South Korea	1	16	6%
Taiwan	2	10	20%
Thailand	1	1	100%
Turkey	0	1	0%
U.A.E.	0	1	0%
Australia/Oceania	4	7	57%
Australia	4	7	57%
Europe	56	134	42%
Austria	0	1	0%
Belgium	1	1	100%
Britain	6.5 ¹¹	16.5 ¹¹	39%
Denmark	1	1	100%
Finland	1	1	100%
France	15	31	48%
Germany	13	29	45%
Ireland	2	4	50%
Italy	2	7	29%
Luxembourg	0	1	0%
Netherlands	2.5 ¹¹	11.5 ¹¹	22%
Norway	0	1	0%
Poland	0	1	0%
Russia	0	4	0%
Spain	4	9	44%
Sweden	0	1	0%
Switzerland	8	14	57%
Latin America	1	12	8%
Brazil	1	8	13%
Mexico	0	4	0%
North America	31	134	23%
Canada	1	13	8%
United States	30	121	25%

(there are no Fortune Global 500 Companies headquartered in Africa)

Table 8: the percentage of Fortune Global 500 companies in different sectors that are already or are publicly committed to delivering carbon neutrality, 100% renewable power or an SBT.

Sector	Number of Fortune Global 500 companies that are taking action or have a public commitment to deliver by 2030	Number of Fortune Global 500 companies	%
Aerospace & defence	1	14	7%
Apparel	1	3	33%
Business services	0	3	0%
Chemicals	0	8	0%
Energy	6	85	7%
Engineering & construction	1	12	8%
Financials	33	118	28%
Food & drug stores	5	18	28%
Food, beverages & tobacco	8	18	44%
Health care	7	26	27%
Household products	3	3	100%
Industrials	4	18	22%
Materials	2	24	8%
Motor vehicles & parts	9	34	26%
Retailing	5	18	28%
Technology	19	37	50%
Telecommunications & media	4	18	22%
Transportation	5	20	25%
Wholesalers	1	23	4%

We took the sector definitions from how Fortune categorises the companies in the Fortune Global 500.

Table 9: Other climate actions we looked at

Climate action	Number of Fortune Global 500 companies	Definition	Inclusion in this research
B Corp	1	It is a reporting framework with 200 points awarded for a range of environmental, social and governance measures. Companies can only be a certified B Corp if they hit 80 points.	Not included because companies can in theory be taking no climate action but be a certified B Corp and because of small numbers in Fortune Global 500.
Carbon price	27	There are two leading approaches to pricing carbon within a company: a shadow price (most popular) which attaches a hypothetical cost of carbon to each tonne of CO ₂ e—as a tool to reveal hidden risks and opportunities of business decisions to support strategic decision-making related to future capital investments and; an internal fee where business units responsible for carbon emissions are charged for them collecting revenue which is often invested into clean technologies.	Not included because we know that there is inconsistent public reporting of companies having a carbon price. We are not confident that the source (CDP, 2017, Putting a price on carbon) was exhaustive of the number of companies that have a carbon price.
Carbon Positive / Climate Positive / Net Positive / Carbon Negative	3	There is no clear definition but some acceptance that it involves going beyond reaching net zero carbon emissions and sequestering further carbon dioxide from the atmosphere. Unilever has committed to “eliminating fossil fuels from operations and supporting surplus generation of renewable energy” with the overall goal of becoming climate positive by 2030. Danone mentions it is building ‘carbon positive’ solutions as part of a carbon neutral target. Toyota Motor says it wasn't to go “beyond zero environmental impact, to achieve a net positive impact” but doesn't define this in any way that we could measure.	Counted as “carbon neutral” for the purposes of this research
Our Only Future	10	Our Only Future is an initiative of SBT where companies commit to taking action in line with limiting average global temperature rises to 1.5 degrees.	Not included because all Fortune Global 500 companies that are Our Only Future signatories have a Science-Based Target.
Task Force on Climate-related Financial Disclosures (TCFD)	Many	Reporting framework for companies to report climate action to investors.	Not included because it is not a climate action, but a framework for reporting information.

References

- ⁴ Revenues and GDP are calculated in different ways. The comparable economies of the Fortune Global 500 companies would be the combined economies of the U.K. and India (\$5.5 trillion of GDP). This is based on an estimate \$6 trillion of value added (estimate of profit and salaries).
- ⁵ Quote from Ashley Myers, Sustainability Specialist at IKEA cited in Natural Capital Partners, 2018, *Raising Ambition: The Role of Business in Getting to Net Zero*, [link](#), Page 16
- ⁶ Forest Trends/Ecosystem Marketplace, 2016, *Buying In: Taking Stock of the Role of Offsets in Corporate Carbon Strategies*, pages 18 and 19
- ⁷ For which countries are part of G77 + China see Wikipedia, *The Group of 77 and China*, [link](#)
- ⁸ Energy Transition Commission, 2018, *Mission Possible: Reaching Net Zero Carbon Emissions From Harder-To-Abate Sectors By Mid-Century*
- ⁹ There is no clear definition for carbon positive, but some acceptance that it involves going beyond reaching net zero carbon emissions and sequestering further carbon dioxide from the atmosphere. Unilever has committed to “eliminating fossil fuels from operations and supporting surplus generation of renewable energy” with the overall goal of becoming climate positive by 2030. Danone mentions it is building ‘carbon positive’ solutions as part of a carbon neutral target without specifying more detail. Toyota Motor says it wants to go “beyond zero environmental impact, to achieve a net positive impact” but doesn’t define this in any way that we could measure. In our research we counted Unilever’s “climate positive” claim as “carbon neutral”
- ¹⁰ The RE100 report states Apple are yet to achieve 100% (97% in 2017) but in 2018 Apple announced they had achieved 100%. Source: Apple, 2018, *Apple now globally powered by 100 percent renewable energy*, [link](#)
- ¹¹ Fortune Global 500 lists Unilever as jointly headquartered in Britain and the Netherlands so it was split between these two countries in this research

About Natural Capital Partners

Natural Capital Partners is harnessing the power of business to create a more sustainable world. With more than 300 clients in 34 countries and a network of partners providing the highest quality projects, we deliver solutions to make real change possible – reducing carbon emissions, generating renewable energy, building resilience in supply chains, conserving forests and biodiversity, and improving health and livelihoods. We're on a mission to enhance the planet, not just maintain it.

We created The CarbonNeutral Protocol in 2002 to provide a clear set of guidelines for businesses to achieve carbon neutrality. Every year since then we've continued our commitment to providing a robust framework for credible carbon neutral action, updating the Protocol to reflect the latest scientific, industry and business best practice.

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