

Response Required: Data Appendix



The following tables show all of the data on which the findings in [Response Required](#) rely.

After the tables we present some 'near miss' commitments we didn't count as well as the data for carbon negative and advocacy findings.

Our definitions

Carbon neutrality is achieved when the greenhouse gas (GHG) emissions associated with an entity, product or activity are reduced and offset to zero for a defined duration. For this research, we defined carbon neutrality as those companies that self-identified as 'carbon neutral', 'climate neutral', 'offset 100%' or 'greenhouse gas neutral' across either: All GHG Scopes (1, 2 and 3), all Scope 1 and Scope 2 emissions; 'company'; or 'operations'.

Data was taken from desk-based research conducted in August 2020 into Fortune Global 500 companies. Data was mostly taken from English language sustainability reports and webpages. For the approx. 50 companies publishing sustainability information in languages other than English, it is possible that commitments may have been under reported.

RE100 targets are for companies to supply 100% renewable power. RE100 is a corporate leadership initiative led by The Climate Group and CDP, launched in September 2014. Data taken from RE100, 2019, *RE100 Progress and Insights Annual Report, 2019: Annex: RE100 commitments and achievements*, [link](#), with updates provided by RE100 on 3rd September 2020.

Science-Based Targets are from The Science-Based Target Initiative (SBTi), 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 reduction targets in line with the need to keep global temperature rise to below 2 or 1.5 degrees Celsius. If we don't specify otherwise, we included all 'Target Qualifications' (1.5C, Well-below 2C, 2C) and 'Statuses' (both 'Targets Set' and 'Committed' to set a target). Data taken from Science-Based Target Initiative, 2020, *Current Companies Taking Action*, [link](#), accessed on 11th August 2020.

Net zero definitions still vary. The Paris Agreement sets a target of net zero by 2050, defined as a balance between anthropogenic emissions by sources and removals by sinks of greenhouse gases across the entire global economy. For this research, we defined net zero as those companies that self-identified as "net zero", "zero net" or "zero". Data was taken from desk-based research conducted in August 2020 into Fortune Global 500 companies.

If you have any questions or would like to make us aware of announcements made subsequently to our research, please email marketing@naturalcapitalpartners.com

Company			Carbon neutral					RE100			SBT			Net zero				
Name	Rank in Fortune Global 500	Headquarters	Company (C) or Product (P) or unspecified (U)	The scope of their commitment in their words	From	Announced	Source	RE100 goal	From	Announced	Target set (T) or committed (C)	From	Announced	Company (C) or Product (P) or unspecified (U)	The scope of their commitment in their words	From	Announced	Source
3M	389	USA						Yes	2050	2019								
ABB	340	Switzerland									C		2018					
Accenture	279	Ireland						Yes	2023	2019	T	2025	2018					
Achmea	461	Netherlands	C	operations	2011	2011	Link											
Adecco Group	484	Switzerland	C	as an organisation	2030	2019	Link											
Adidas	480	Germany	C	operations	2050	2020	Link				C		2020					
Aegon	124	Netherlands	C	operations	2016	2016	Link											
AEON	115	Japan	C	our stores... [and] business operations.	2050	2018	Link	Yes	2030	2018	T	2027	2019					
Allianz	46	Germany	C	operations	2012	2012	Link	Yes	2023	2018	C		2018					
Alphabet	29	USA	C	operational carbon emissions	2007	2007	Link	Yes	2017	2015				C+P	Scopes 1, 2 and 3	2030	2020	Link
Amazon.com	9	USA									C		2020	C	business [and not all products' emissions]	2040	2019	Link
América Móvil	209	Mexico	U	[do not specify]	2050	2019	Link				C		2019	C+P	in line with... Science Based Targets initiative	2050	2019	Link
American Express	251	USA	C	scope 1, 2 and 3 (employee business travel and waste)	2018	2018	Link											
Anglo American	419	South Africa	C	Scopes 1 and 2	2040	2019	Link											
Anheuser-Busch InBev	205	Belgium						Yes	2025	2017	T	2025	2018					
Anthem	68	USA						Yes	2025	2019	C		2018					
Apple	12	USA	C/C+P	operations... commuting [and] business travel	2020*	2020	Link	Yes	2020*	2016				C+P	entire business, manufacturing supply chain, and product life cycle	2030	2020	Link
AT&T	22	USA									T	2028	2020					
Auchan Holding	196	France									C		2020					
Aviva	88	UK	C	operational emissions	2006	2006	Link	Yes	2025	2015								

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AXA	34	France						Yes	2025	2017	C		2015					
Banco Bilbao Vizcaya Argentaria	254	Spain	C	CO2 emissions	2020	2020	Link	Yes	2030	2018	C		2018					
Banco Bradesco	268	Brazil	C	operations	2019	2020	Link											
Banco do Brasil	288	Brazil	C	Scopes 1 and 2	2019	2019	Link											
Banco Santander	93	Spain	C	operations	2020	2019	Link											
Bank of America	58	USA	C	Scope 1 and 2	2020*	2020	Link	Yes	2020*	2016								
Bank of Montreal	430	Canada	C	enterprise-wide	2010	2010	Link											
Barclays	327	UK						Yes	2030	2019				C+P	Scopes 1, 2 and 3	2050	2020	Link
Bayer	214	Germany	C	Scope 1 and Scope 2	2030	2019	Link				C		2019					
Best Buy	275	USA	C	operations	2050	2018	Link				T	2030	2019					
BMW Group	56	Germany						Yes	2050	2015								
BNP Paribas	99	France	C	direct greenhouse gas emissions and indirect emissions linked to the purchase of energy and to business travels	2017	2017	Link				C		2016					
Bosch Group	95	Germany	C	scope 1 and 2	2020	2019	Link											
British American Tobacco	379	UK	C	Direct operations	2030	2020	Link				T	2028	2019					
BT Group	432	UK						Yes	2020	2014	T	2030	2017	C+P	Business	2045	2020	Link
Caixa Econômica Federal	326	Brazil	C+P	Scopes 1, 2 and 3 ("Other indirect emissions... Products and services consumed")	2018	2018	Link											
Capital One Financial	372	USA	C	Scopes 1 and 2... [and] Scope 3 business travel	2018	2018	Link	Yes	2019	2018								
Carrefour	98	France									T	2030	2020					
Cisco Systems	211	USA									T	2022	2018					
Citigroup	70	USA						Yes	2020	2017								

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CMA CGM	415	France	U	[do not specify]	2050	2020	Link				C		2018					
Coca-Cola	335	USA									T	2030	2019					
Commonwealth Bank of Australia	416	Australia						Yes	2030	2018								
Compass Group	395	UK									C		2019					
Continental	230	Germany	C	production processes (2040)... value chain (2050)	2040	2019	Link	Yes	2030	2020								
Coop Group	425	Switzerland	C	company	2023	2008	Link											
Crédit Agricole	67	France						Yes	No target date	2016	C		2016					
Credit Suisse Group	357	Switzerland	C	Scopes 1, 2 and [some] Scope 3 (purchased goods and services: paper and water consumption, energy upstream emissions, waste generated, business travel)	2010	2010	Link	Yes	2025	2020								
CRH	397	Ireland	C+P	value chain	2050	2020	Link				C		2018					
CVS Health	13	USA									T	2028	2018					
Dai-ichi Life Holdings	165	Japan						Yes	2050	2019								
Daimler	20	Germany	C+P	CO ₂ -neutral in driving operation in... Europe, Japan and NAFTA	2039	2019	Link											
Daiwa House Industry	311	Japan						Yes	2040	2018	T	2030	2018					
Danone	453	France	C+P	full value chain	2050	2015	Link	Yes	2030	2018	T	2030	2017	C+P	full scope	2050	2015	Link
Dell Technologies	81	USA						Yes	2040	2019	T	2020	2015					
Delta Air Lines	252	USA	C+P	global business	2020*	2020	Link											
Deutsche Bahn	232	Germany	C+P	all our transport services	2050	2018	Link				T	2030	2020					
Deutsche Bank	291	Germany	C	Scopes 1 and 2 and business travel	2013	2013	Link											
Deutsche Post DHL Group	142	Germany									C		2017	P	70% of our first and last mile services	2050	2020	Link

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Deutsche Telekom	86	Germany	C+P	direct and indirect CO2 emissions	2050	2020	Link	Yes	2021	2019	T	2030	2019					
Dow	283	USA	C+P	Scopes 1, 2 and 3	2050	2020	Link											
E.ON	255	Germany	C/C+P	Scope 1 and 2	2040	2020	Link											
Electricité de France	110	France	C	Direct CO2 emissions	2050	2020	Link				C		2020					
Enel	87	Italy	C	direct emissions due exclusively to energy generation	2050	2009	Link				T	2030	2019					
Engie	159	France									T	2030	2020					
ENI	113	Italy	C	Scope 1 and 2 emissions from upstream operations	2030	2020	Link											
Equinor	169	Norway	C	operations	2030	2020	Link											
Facebook	144	USA						Yes	2020	2016								
Ford Motor	31	USA	C+P	vehicle use, suppliers and factories	2050	2020	Link											
Fubon Financial Holding	403	Taiwan, Province of China									C		2016					
Fujitsu	356	Japan						Yes	2050	2018	T	2030	2017	U	[does not specify]	2050	2017	Link
General Motors	40	USA						Yes	2050	2016								
GlaxoSmithKline	282	UK	C+P	Scopes 1, 2 and 3	2050	2017	Link				T	2027	2019					
Goldman Sachs Group	202	USA	C	direct Scope 1, indirect (market-based) Scope 2, and Scope 3 business travel emissions	2015	2015	Link	Yes	2020	2015								
Heineken Holding	474	Netherlands									C		2019					
Hewlett Packard Enterprise	431	USA						Yes	No target date	2016	T	2025	2019					
Hitachi	106	Japan									C		2018					
HP	184	USA						Yes	2035	2016	T	2025	2017					
HSBC Holdings	73	UK						Yes	2030	2017	C		2016					

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Hyundai Motor	84	South Korea	C	operation system	2050	2020	Link											
Iberdrola	303	Spain	C	the company	2050	2017	Link				T	2030	2019					
Inditex	398	Spain									C		2016					
ING Group	342	Netherlands	C	operations and buildings, IT systems and business travel	2007	2007	Link	Yes	2020*	2015	C		2015					
Intel	138	USA	C+P	computing... own global manufacturing footprint [and]... product energy use	2030	2020	Link											
J. Sainsbury	344	UK									C		2020	C	across our own operations	2040	2020	Link
Johnson & Johnson	104	USA						Yes	2050	2015								
Johnson Controls International	439	Ireland									C		2018					
JPMorgan Chase	38	USA						Yes	2020	2017								
La Poste	433	France	C+P	mail, parcel, express and digital solutions... [and] all of its operating activities	2012	2012	Link	Yes	2020*	2015	T	2025	2019					
LafargeHolcim	476	Switzerland									T	2030	2019					
Lenovo Group	224	China									T	2030	2020					
LG Electronics	207	South Korea	C	operations	2030	2019	Link							C	operations	2030	2019	Link
Linde	444	UK									C		2020					
L'Oréal	375	France	C	industrial and logistics activities	2020	2019	Link				T	2027	2018	C+P	Scope 1,2 and 3	2050	2019	Link
Lowe's	137	USA						Yes	2025	2018								
Maersk Group	320	Denmark									C		2019	C	operations	2050	2018	Link
Mapfre Group	464	Spain	C	facilities	2030	2019	Link											
MetLife	149	USA	C	operations	2016	2016	Link				C		2016					
Metro	294	Germany									T	2030	2019					

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Michelin	472	France									T	2030	2020					
Microsoft	47	USA	C	operational carbon emissions	2012	2012	Link	Yes	2017	2015	T	2030	2019	C+P	Microsoft and its supply chain emissions	2030	2020	Link
Migros Group	448	Switzerland									C		2020					
Mitsubishi Electric	300	Japan									T	2030	2020					
Mondelez International	495	USA									T	2025	2020					
Morgan Stanley	203	USA	C	operations	2022	2017	Link	Yes	2022	2017								
Munich Re Group	135	Germany	C	Operational activities	2015	2015	Link	Yes	No target date	2014								
Naturgy Energy Group	492	Spain									C		2015					
NEC	450	Japan	C	Scopes 1 and 2	2050	2017	Link				T	2030	2018					
Nestlé	82	Switzerland									T	2020	2017	C+P	value chain	2050	2019	Link
Nike	322	USA						Yes	2025	2015	T	2030	2019					
Nissan Motor	83	Japan	C+P	new vehicles and corporate activities	2050	2015	Link				C		2015					
Nokia	488	Finland									T	2030	2017					
Novartis	225	Switzerland	C	Scope 1 and 2	2025	2018	Link				T	2030	2019					
Orange	249	France									C		2018	C+P	direct or induced environmental footprint	2040	2019	Link
Panasonic	153	Japan						Yes	2050	2019	T	2030	2017	C	our business activities	2050	2017	Link
PepsiCo	160	USA									T	2030	2016					
Pfizer	215	USA									T	2020	2015					
Philip Morris International	421	USA	C+P	Scopes 1, 2, and 3	2050	2019	Link				T	2030	2017					

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Phoenix Group Holdings	338	UK	U	[do not specify]	2030	2020	Link											
Procter & Gamble	156	USA	C	operations	2030	2020	Link	Yes	2030	2015	T	2030	2018					
PTT	140	Thailand									C		2016					
Renault	175	France									T	2030	2019					
Royal Bank of Canada	223	Canada	C	operations	2017	2017	Link											
Saint-Gobain	244	France									T	2025	2019	U	[does not specify]	2050	2019	Link
Sanofi	289	France									T	2030	2020					
SAP	404	Germany	C	Operations	2025	2017	Link	Yes	2014	2015	T	2025	2019					
Schlumberger	382	USA									C		2019					
Schneider Electric	413	France	C	plants and sites	2025	2018	Link Link	Yes	2030	2017	T	2030	2019	C+P	operational emissions... [and] supply chain	2050	2019	Link
Siemens	74	France	C	Scope 1, 2	2030	2015	Link											
Société Générale	192	France									C		2016					
Sompo Holdings	363	Japan									C		2018					
Sony	122	Japan						Yes	2040	2018	T	2020	2015	C+P	throughout product life cycles	2050	2010	Link
Starbucks	478	USA						Yes	2020	2015	C		2020					
State Bank of India	221	India	C	domestic operations	2030	2018	Link											
Sumitomo Electric Industries	445	Japan	C+P	Scopes 1, 2, and 3	2050	2020	Link				C		2020					
Swiss Re	233	Switzerland	C	Scopes 1 and 2... [and] major source of Scope 3 emissions (business travel... use of copy paper, waste generation, water consumption and technical gases)	2003	2003	Link	Yes	2020	2014	C		2019	C	operations	2030	2020	Link
Takeda Pharmaceutical	414	Japan	C+P	Scopes 1, 2 and 3	2019	2020	Link				T	2025	2020					

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Target	117	USA						Yes	2030	2019	T	2028	2019					
Tata Motors	337	India						Yes	2030	2016								
Telefónica	201	Spain	C	Scopes 1 and 2	2030	2020	Link	Yes	2030	2017	T	2025	2019	C	Scopes 1 and 2	2050	2020	Link
Tesco	103	UK	C	operations	2050	2017	Link	Yes	2030	2017	T	2027	2017					
ThyssenKrupp	248	Germany									T	2030	2019					
Tokio Marine Holdings	226	Japan	C	business activities	2011	2011	Link				C		2018					
Toronto-Dominion Bank	267	Canada	C	operations	2010	2010	Link											
Toshiba	402	Japan									C		2020					
Toyota Motor	10	Japan									C		2016	C+P	entire vehicle life cycle	2050	2015	Link
Tyson Foods	287	USA									T	2030	2018					
Unilever	185	UK						Yes	2020*	2015	T	2030	2017	C+P	from the sourcing of the materials we use, up to the point of sale of our products in the store	2039	2020	Link
Uniper	131	Germany	C	power generation in Europe	2035	2020	Link											
Vale	333	Brazil									C		2019	C	scopes 1 and 2	2050	2020	Link
Veolia Environnement	412	France									T	2034	2019					
Verizon Communications	44	USA	C	Scope 1 and Scope 2	2035	2019	Link				C		2019					
Vinci	195	France	C	direct impacts	2050	2020	Link											
Vodafone Group	228	UK						Yes	2025	2018	C		2019	U	[does not specify]	2050	2019	Link
Volkswagen	7	Germany	C+P	cars and light-commercial vehicles across the entire value chain to CO2 neutral	2050	2018	Link											
Volvo	259	Sweden	C/C+P	manufacturing network	2025	2019	Link											
Walmart	1	USA						Yes	2025	2015	T	2027	2016					

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Wells Fargo	69	USA	C	Scope 1 and 2	2019	2020	Link	Yes	2020*	2016								
Westpac Banking	491	Australia	C	operations	2013	2013	Link	Yes	2025	2019	C		2015					
Woolworths Group	260	Australia									C		2019					
Xiamen ITG Holding Group	284	China									C		2020					
ZF Friedrichshafen	302	Germany	C+P	Scopes 1, 2 and 3	2040	2019	Link											
Zurich Insurance Group	139	Switzerland	C	operations	2014	2014	Link	Yes	2022	2019	C		2019					

* 2020 targets that have already been achieved.

Tricky cases

BASF – carbon neutral growth was not counted. [Link](#).

Proctor & Gamble – “Will Make Operations Carbon Neutral for the Decade” starting in 2020 but refers to it actions in the future tense and so hasn’t been counted as carbon neutral this year, instead they have been counted as carbon neutral in 2030. [Link](#).

Continental – CO2 neutral "in all of its production processes" [2040]... "Reduction of total CO2 emissions from value chain (Scope 1, 2, 3) by 2050". Counted the 2040 commitment. [Link](#).

Carbon negative Definitions still vary. For this research, we defined carbon negative as those companies that self-identified as “carbon negative”, “climate positive” or “net positive”. Data was taken from desk-based research conducted in August 2020 into Fortune Global 500 companies.

Companies with “carbon negative” “climate positive” or “net positive” targets:

- Microsoft “carbon negative” by 2030, [link](#)
- Sumitomo Electric Industries, “negative emissions” by 2050 [link](#)
- Telefónica, “net positive... Avoid 10 tons of CO2 in customers for each one issued” by 2025 [link](#)
- Toyota Motor “net positive” by 2050, [link](#)
- Unilever “Carbon positive” by 2030, [link](#)

Carbon negative near misses

- Alphabet “net positive impact of our products” [link](#)
- Danone “carbon positive programs” [link](#)
- Veolia Environnement “carbon positive” in the UK, [link](#), but not the group as a whole [link](#)

Advocacy statistics came from InfluenceMap is a London-based NGO which ranks the lobbying activities of 250 big companies. It introduced the concept of a corporation's Carbon Policy Footprint and Scope 4 emissions. Its Score has become a mainstream investor tool in assessing and engaging with companies, including the Climate Action 100+ process, and has been cited in over 1,000 media articles globally. Data taken from InfluenceMap, 2019, *Carbon Policy Footprint*, [link](#), accessed August 2020.

Companies with a positive score: Amazon.com, Apple, Danone, Deutsche Telekom, E.ON, Electricité de France, Enel, GlaxoSmithKline, Iberdrola, Nestlé, Unilever

If you have any questions or would like to make us aware of announcements made subsequently to our research, please email marketing@naturalcapitalpartners.com

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