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E INSTITUTI Sector	FOR CARBON LAW & POLICY	Owner	Commitment	CDR Methods		Commitment Link	

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## Carbon Removal Corporate Action Tracker Institute for Carbon Removal Law and Policy American University

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A	INSTITUTE FOR CARBON REMOVAL LAW & POLICY Updated October 3, 202		of carb		al-with-carbon-removal pledges.	$\square$	P	Ø
	Sector	22 Pledge Date	Year	Owner	Commitment	CDR Methods	Commitment Link	Media Coverage
#REF!	Agriculture	03/30/2020	#REF!	Archer Daniels Midland Co	ADM announced a new plan to reduce its absolute gre		Archer Daniels Midland Pledge	ě
#REF! #REF!	Agriculture Architecture and Design	08/02/2021	Loading #REF!	Olam Group Deczen	Race to Zero: Net Zero 2050 - Commit to achieve net Deezen is committing to becoming a net-zero busines:	Olam has cited CCS-based removals such as Deezen is currently investigating all of the sources	Olam Pledge Deezen Pledge	
#REF!	Automotive	09/07/2021	#REF!	Audi	By 2025, the Volkswagen Group wants to reduce the	Audi has paid Climeworks to capture and remove	Audi Pledge	New York Times Coverage
#REF!	Aviation	09/13/2021	#REF!	Asia Pacific Airlines	The Association of Asia Pacific Airlines (AAPA)	ICAO Carbon Offsetting and Reduction Scheme	AAPA Pledge	
#REF! #REF!	Aviation Aviation	04/21/2021 12/10/2020	#REF! Loading	Alaska Airlines United Airlines	Alaska Airlines today announced its commitment and United is pledging to become 100% green by	Due to aviation being one of the most difficult United intends to make a multimillion-dollar	Alaska Airlines Pledge United Pledge	
#REF!	Aviation	02/17/2020	Loading	Delta Airlines	Delta Air Lines has committed \$1bn over the next	The airline will continue to focus on the removal	Delta Pledge	Forbes Magazine
#REF!	Aviation	01/15/2020	#REF!	Etihad Airways	Etihad committed to a minimum target of zero net	"The global focus on the environment and the	Etihad Pledge	Business Travel News
#REF! #REF!	Aviation Aviation	01/06/2020 11/19/2019	Loading	JetBlue Easy Jet	JetBlue will offset carbon dioxide emissions from jet Easy Jet committed to net-zero carbon flights by	JetBlue will partner with Carbonfund.org and Easy Jet will offset the carbon from the fuel used	JetBlue Pledge Easy Jet Pledge	BusinessWire CNN Business
#REF!	Aviation	11/11/2019	#REF!	Qantas Airways	The Qantas Group will reach net-zero carbon	Existing projects benefiting from the offsets	Qantas Pledge	Reuters
#REF! #REF!	Aviation	10/01/2019 03/15/2021	Loading	British Airways Air Canada	British Airways has announced plans to offset the	The carrier says it will invest in verified carbon	British Airways Pledge	Atlanta Business Chronicle
#REF!	Aviation Aviation	03/13/2021 07/27/2021	Loading	Loading	Air Canada has a goal to have all global operations	Air Canada plans to shift to sustainable air fuel,	Air Canada Pledge BAE Systems Pledge	Energy Live News
#REF!	Construction	04/22/2021	Loading	BNBuilders	BNBuilders announced clean construction targets for	They will advocate for alternative methods of	BNBuilders Pledge	
#REF! #REF!	Consulting Education	09/01/2020 05/01/2021	Loading #REF!	Boston Consulting Group Australian National University	BCG committed to net-zero climate impact by 2030; ANU has announced the Below Zero Initiative,	BCG will remove its remaining emissions by Carbon sequestration: Developing and	BCG Pledge ANU Pledge	Forbes Magazine
#REF!	Energy	04/19/2021	Loading	San Diego Gas & Electric	Building on the sustainability strategy it released last	The company plans to employ carbon capture and	San Diego Gas & Electric Pled	
#REF!	Energy	03/04/2021	#REF!	Chevron	Chevron Corporation, Schlumberger New Energy,	The BECCS plant will convert agricultural waste	Chevron Pledge	BioMass Magazine
#REF! #REF!	Energy	10/13/2020 11/02/2020	#REF! Loading	Jera Equinor	Jera pledged to achieve zero carbon emissions by	Jera aims to eliminate its carbon emissions and	Jera Pledge Equinor's Pledge	Bloomberg Quint
#REF!	Energy Energy	05/27/2020	Loading	Southern Company	Equinor climate ambitions: Southern Company moved to a long-term	Net-zero emissions requires a well-functioning The company will continue to reduce GHG	Southern Company's Pledge	GreenBiz
#REF!	Energy	05/05/2020	#REF!	Total S.A.	Total has a new climate ambition to become net-zero	Total is committed to reducing its carbon	Total Pledge	World Oil Magazine
#REF! #REF!	Energy Energy	04/16/2020 02/24/2020	#REF! Loading	Royal Dutch Shell Consumers Energy	Royal Dutch Shell has committed to being net-zero Consumers Energy announced a goal to achieve net-	Shell plans to offset its own emissions by trapping "Strategies such as carbon capture and	Royal Dutch Shell Pledge Consumers Energy Pledge	Carbon Brief Cision PR Newswire
#REF!	Energy	02/24/2020	#REF!	BP	BP has pledged to reach net-zero across BP's	BP plans to achieve their pledge through CCUS	BP Pledge	Cision PK Newswite
#REF!	Energy	12/01/2019	Loading	Repsol	Repsol announced a commitment to net-zero	Repsol said it would pursue a number of measures	Repsol Pledge	
#REF! #REF!	Energy Energy	09/24/2019 09/17/2019	Loading Loading	NRG Energy Duke Energy	NRG Energy has pledged to have net-zero emissions	NRG Energy has stated that CCS (carbon capture	NRG Energy Pledge Duke Energy Pledge	
#REF!	Energy	05/20/2019	Loading	Xcel Energy	Duke Energy announced an updated climate strategy Xcel Energy has committed to having net-zero	"Getting to net-zero carbon emissions, while Xcel is still in the process of determining how it	Xcel Energy	
#REF!	Energy	03/23/2021	#REF!	Southern California Gas Compar	SoCalGas has a carbon neutrality goal for 2045 in	By 2045, SoCalGas plans to have net-zero energy	SoCalGas Pledge	CalMatters on SoCalGas C
#REF! #REF!	Energy	01/13/2021 08/12/2021	#REF!	Occidental Petroleum ExxonMobil	To implement a Net Zero Energy Cycle which	This cycle starts with capturing CO2 from the	https://www.oxy.com/OurBusi	
#REF!	Energy Energy	05/27/2021	Loading #REF!	Eni UK	ExxonMobil has launched the Low Carbon Solutions Decarbonisation is structurally embedded in Eni's	It was the first company to capture more than 120 Under the agreement, Eni will develop and	ExxonMobil Pledge Eni Pledge	Forbes Magazine Article Reuters Magazine Article
#REF!	Energy	08/15/2019	#REF!	France's Total	Total aspires to become a major player in CCUS	Its membership reflects the center's growing	Total's Pledge	Reuters Magazine Article
#REF! #REF!	Energy	11/11/2020 08/26/2021	#REF! #REF!	ADNOC (UAE) China National Petroleum Corpo	ADNOC and Total will jointly explore opportunities	In the area of CCUS, the companies will further	ADNOC Pledge CNPC Pledge	CNBC News CSIS Analysis of Chinese
#REF!	Energy Energy	08/20/2021	#REF!	Linde	CNPC publishes only its Scope 1 and 2 greenhouse Amidst an international focus on achieving net zero	CNPC focuses on carbon capture, utilization, and Initiatives include developing industry-leading	Linde Pledge	Gas World Article
#REF!	Energy	11/16/2020	Loading	Aker Solutions	Aker Solutions aims to generate about half of its	Lower the carbon emissions from their	Aker Solutions Pledge	OE Digital News
#REF! #REF!	Energy Energy	21(updated 6/4 06/17/2021	#REF! Loading	Drax Global TC Energy	The UK needs negative emissions technologies to TC Energy has set ambitious greenhouse gas (GHG)	With an effective negative emissions policy and For Canada to achieve its enhanced climate	Drax Pledge TC Energy GHG Emissions Re	Energy Monitor AI Covera
#REF!	Energy	00/17/2021	Loading	PetroChina	Pledged to strive to peak its carbon emissions by	Implementing CCUS technology, carbon	PetraChina Pledge	
#REF!	Finance	08/30/2021	#REF!	Accelerate Financial Technologie	Accelerate Financial Technologies Inc. plans to	Carbon sequestration via planting of trees;	Accelerate Pledge	
#REF! #REF!	Finance Finance	05/27/2021 May 7th, 2021	Loading	Crypto.com Manulife	Crypto.com announced an ambitious goal of Manulife is proud to share they are net zero in	The second phase will identify the most effective Hancock Natural Resource Group (HNRG), a	Crypto.com Pledge Manulife Pledge	The 3 Areas Manulife Will
#REF!	Finance	05/12/2021	Loading	TIAA	TIAA, a leading provider of secure retirements and	Nature-based solutions including afforestation,	TIAA Pledge	
#REF!	Finance	04/21/2021	Loading	Visa	Visa is looking broader and longer-term by	Their carbon offsets portfolio includes projects	Visa Pledge	
#REF! #REF!	Finance Finance	10/09/2020 09/21/2020	Loading	HSBC Morgan Stanley	HSBC pledged to be net-zero in their own operations Morgan Stanley committed to reaching net-zero	HSBC is still in the process of determining how it Morgan Stanley is still in the process fo	HSBC Pledge Morgan Stanley Pledge	
#REF!	Finance	04/21/2020	Loading	Harvard	Harvard's Endowment will become greenhouse-gas	This commitment is not the same as fossil-fuel	Harvard Pledge	
#REF! #REF!	Finance	01/01/2020 03/01/2021	Loading	Barclays Citibank	Barclays has a plan to be net-zero by 2030 in Scope 1	Barclays' strategy is to align with the goals of the. Within their portfolio, Citi plans to incorporate	Barclays Pledge	Citi's Environmental and S
#REF!	Finance Finance	03/01/2021 02/11/2021	Loading	Bank of America	Citibank plans to have net-zero greenhouse gas Bank of America intends to be net-zero by 2050 for	Bank of America supports advancement and	Citi Pledge Bank of America's Pledge	Environmental and Social
#REF!	Finance	03/08/2021	Loading	Wells Fargo	Wells Fargo will transition to net-zero emissions for	Wells Fargo has created three "Scope" levels for	Wells Fargo Pledge	Wells Fargo Newsroom
	Finance Food and Beverage	10/06/2020 01/15/2019	Loading #REF!	JP Morgan Chase Coca Cola HBC Switzerland	JP Morgan Chase intends to be achieve net-zero Coca-Cola HBC Switzerland, a vendor that makes	JP Morgan Chase is commiting to not only be Climeworks is building machines with filters that	JP Morgan Chase Press Release Coca Cola HBC Switzerland Ple	
#REF!	Heavy Industry (steel, cem		Loading	United States Steel	United States Steel Corporation (NYSE: X) ("U. S.	To achieve its net-zero goal for 2050, U. S. Steel	US Steel Pledge	
#REF!	Heavy Industry (steel, cem	09/21/2020	Loading	LafargeHolcim	On our way to becoming a net zero company, we are	Reaching net zero in cement manufacturing which		
#REF! #REF!	Heavy Industry (steel, cem Heavy Industry (steel, cem	07/01/2019 05/13/2019	Loading	ThyssenKrupp Heidelberg Cement	Germany's largest steelmaker, ThyssenKrupp, In addition to setting short-term targets for 2030, the	ThyssenKrupp will pursue several measures to HeidelbergCement will improve its energy	ThyssenKrupp Pledge Heidelberg Cement Pledge	
#REF!	Heavy Industry (steel, cem Heavy Industry (steel, cem	01/01/2016	Loading	SSAB	SSAB is taking the lead in decarbonizing the steel	SSAB will cut their CO2 emissions in Sweden by	SSAB Pledge	
#REF!	Hospitality	09/22/2021	Loading	Marriot	Marriott International, Inc announced it has	Planting more than 415,000 trees over the last	Marriot Pledge	USA Today Coverage
#REF! #REF!	Insurance Logistics	02/20/2020	Loading	Swiss Re Brambles	Swiss Re committed to achieving net-zero emissions 2025 Business Positive targets:	Their motto is "Do our best, remove the rest." According to their pledge, they will" enable the	Swiss Re Pledge Brambles Pledge	
#REF!	Retail	09/03/2020	Loading	Velux	Velux committed to becoming liftime carbon neutral	Velux has partnered with WWF to invest in forest	Velux Pledge	
#REF!	Manufacturing	09/24/2019 01/28/2021	Loading	Saint-Gobain	Saint-Gobain commits itself to reach net-zero	Saint-Gobain designs, produces and distributes	Saint-Gobain Pledge	
#REF! #REF!	Manufacturing Non-energy utilities	01/28/2021 11/12/2020	Loading	General Motors United Utilities	General Motors plans to be carbon neutral by 2040 As part of their April 2019 Public Interest	GM's carbon neutrality plans come from its 1,000 hectares of peat bog restoration will be	General Motors Pledge United Utilities Pledge	
#REF!	Pharmaceutical/Chemical	01/23/2020	Loading	AstraZeneca	Within this decade, AstraZeneca plans to remove	This carbon negative pledge will be realized	AstraZeneca Pledge	
#REF!	Pharmaceutical/Chemical	03/01/2022	Loading	Bayer AG	Race to Zero: Net Zero 2050 - Commit to achieve	Bayer has noted nature-based removals including	Bayer Pledge	
#REF! #REF!	Power and Gas Real Estate	02/10/2021	Loading #REF!	General Electric Active Super Australia	In 2020, GE set a new goal of carbon Aims to take our fight for the environment even	Over the long term, to achieve the levels Other than the pledge, little has been written	Active Super Pledge	WGBC Active Super
#REF!	Real Estate	05/04/2021	Loading	AMP Capital	AMP Capital has signed a seven-year renewable	A technological breakthrough – possibly carbon	AMP Capital Managed Portfolio	
#REF!	Real Estate	04/20/2021	Loading	Antilooppi	Last year the company signed the Net Zero Carbon	Other than the pledge, little has been written	Antilooppi Pledge	WGBC Antilooppi Coveras
#REF! #REF!	Real Estate Real Estate	10/05/2020 06/06/2020	Loading Loading	Argent LLP Arthaland	Commits to all occupied assets operating at net zero Arthaland commits to design, own and operate new	Other than the pledge, little has been written Other than the pledge, little has been written	Argent Services Pledge on WGE Arthaland Pledge	Argent Services Press Rele BBC Coverage on Arthalar
#REF!	Real Estate	06/10/2020	#REF!	Assura	Assura pledges to advance their development process	Other than the pledge, little has been written	Assura Pledge	Assura Net Zero Carbon S
#REF!	Red Meat, Pork, Poultry &	or (on (===	#REF!	Crave Brothers Farmstead Chees	Crave Brothers Farm is producing more electricity	Our computer controlled anaerobic digestion	Crave Brothers Farm Pledge	<b>D</b>
#REF! #REF!	Red Meat, Pork, Poultry & Red Meat, Pork, Poultry &	06/09/2021 03/23/2021	Loading	Tyson JBS Foods	To achieve net-zero greenhouse gas (GHG) JBS has made a commitment to achieve net-zero	Completing initial land stewardship target of Eliminating deforestation: JBS will eliminate	Tyson Pledge JBS Pledge	Reuters
#REF!	Retail	09/14/2021	Loading	Procter & Gamble	The company plans to achieve net zero greenhouse	P&G will explore Ingredients made from		
#REF!	Retail	06/29/2021	Loading	Giant Eagle	A commitment to achieve net zero carbon emissions	Investments into negative emissions technologies	Giant Eagle Pledge	

#REF!	Retail	06/15/2021	Loading	Ralph Lauren	Net zero global greenhouse gas (GHG) emissions	For emissions that cannot be reduced through	Ralph Lauren Pledge	
	Retail	06/08/2021	Loading	HEXO Corp	Hexo is offsetting the company's operational	Ŭ	HEXO Pledge	GlobeNewswire
#REF!	Retail	05/21/2021	Loading	Whirlpool	Whirlpool Corporation made a global commitment	Leveraging carbon removal development	Whirlpool Pledge	Grand Rapids Business Jo
#REF!	Retail		Loading	Shaklee	In 2000 Shaklee became the first company in the	2021"Our commitment to the planet started	Shaklee Pledge	1 0
#REF!	Retail	04/22/2021	Loading	Ancient Nutrition	Superfoods supplement purveyor Ancient Nutrition	Become carbon Negative through regenerative	Ancient Nutrition Pledge	
#REF!	Retail	04/22/2021	Loading	Klarna	Klarna is committed to reduce its emissions by 50%	Klarna will make annual financial contributions to	Klarna Pledge	
#REF!	Shipping	03/03/2021	Loading	FedEx	FedEx Corp. (NYSE: FDX), home of the world's	This includes a pledge of \$100 million to Yale	FedEx Pledge	
#REF!	Retail	06/20/2021	#REF!	Prima	Prima is 100% carbon neutral across the entire	Beyond Carbon Neutral: As a business, we are	Prima Pledge	
#REF!	Retail	04/16/2021	Loading	Cacto	CACTO is proud to be the first Carbon Negative	Through a partnership with Swiss nonprofit	Cacto Pledge	Fashion United
#REF!	Retail	09/21/2020	Loading	Walmart	Walmart committed to zero emissions from its global	Walmart does not plan to do CDR in their zero	Walmart Pledge	
#REF!	Retail	04/06/2021	Loading	Indigo	Indigo's goal is to have net-zero emissions by 2035.	Indigo is partnering with One Tree Planted, a	Indigo Pledge	Yahoo!
#REF!	Retail	03/30/2021	Loading	Netflix	Netflix will achieve net zero greenhouse gas	Conserving at-risk natural areas like tropical	Netflix Pledge	
#REF!	Retail	09/17/2020	Loading	Nespresso	Nespresso today commits that every cup of	Planting trees in coffee farms and the surrounding	Nespresso Pledge	
#REF!	Retail	09/03/2020	Loading	BrewDog	BrewDog has become carbon negative. "From 22	Natural removal: Purchased 2,050 acres of land in	BrewDog Plan	
#REF!	Retail	08/24/2020	Loading		Horizon Organic announced a commitment to	Horizon's carbon positive pledge will be fulfilled	Horizon Organic Pledge	
#REF!	Retail	03/03/2020	Loading	3Degrees INC	Part of pledge taken by over 500 B Corps - including	Other than the pledge, little has been written	3Degrees Pledge	
	Retail	01/30/2020	Loading	Starbucks	Starbucks has committed to being resource positive -	"Invest in innovative and regenerative agricultural	Starbucks Pledge	
	Retail	01/21/2020	Loading	Unilever	Unilever has pledged to be Net-zero emissions by	Unilever's pledge aligns with a coalition of	Unilever Pledge	
	Retail		Loading	The Body Shop	Part of pledge taken by over 500 B Corps - including	1.8,	Body Shop Pledge	
	Retail	12/11/2019	Loading	Allbirds	Part of pledge taken by over 500 B Corps - including	1 0 7	Allbirds Pledge	
	Retail	12/11/2019	Loading	Dr. Bronner's	Part of pledge taken by over 500 B Corps - including	Other than the pledge, little has been written	Dr. Bronners Pledge	
	Retail	12/11/2019	Loading	Nestle	Nestle has committed to having net-zero carbon	Produce more environmentally friendly products,	Nestle Pledge	
	Retail	09/12/2019	Loading	Amazon	Under Amazon's Climate Pledge, they committed to	Amazon is launching the Right Now Climate	Amazon Pledge	
	Retail		Loading	Ikea	2018, IKEA, the world's largest furniture retailer,	1 17 0	Ikea Pledge	
	Shipping	11/30/2018	Loading	Stena Bulk	Stena Bulk offers a roadmap with a target to become	Fuel-switching, including to hydrogen and	Stena Bulk Pledge	Climate Action News
	Tech		Loading	Expensify	Expensify commits to becoming Net Zero by 2030	To meaningfully offset its carbon footprint,	Expensify's Pledge	
	Tech	06/12/2021	Loading	Logitech	Logitech have accelerated their	Becoming carbon neutral this year is a first step	Logitech Pledge	
-	Tech	09/22/2021	Loading	Algorand	Algorand Network commits to being Carbon	"Through our carbon offset plan with	Algorand Pledge	
	Tech		Loading	LinkedIn	LinkedIn seeks to be carbon-neutral by 2030 and	LinkedIn tracks the carbon emissions from their	LinkedIn Pledge	
	Tech	04/22/2021	Loading	GlaxoSmithKline	Net zero emissions across all operations by 2030	The company be turning to responsible and high-	GSK Pledge	
	Tech	07/13/1905	Loading	Facebook	Facebook is committed to helping solve the climate		Facebook Pledge	Full net-zero commitment
	Tech	11/20/2020	Loading	Stripe	In order to have Negative Emissions, Stripe	Fund forestation initiatives, soil management	Stripe Pledge	
	Tech	09/01/2020	Loading #REF!	Apple Microsoft	Commits to be 100% carbon neutral for its supply	Natural solutions. "Carbon removal: Apple is	Apple Pledge	
-	Tech Tech	08/15/2019 07/21/2020	#REF: Loading	Intuit	Microsoft has pledgd to be carbon negative by 2030.	Reforestation, soil carbon sequestration, and new	Microsoft Pledge Intuit Pledge	
-	Tech	01/16/2020	Loading	Atlassian	Using its 2018 carbon footprint metric as a baseline,	Through a partnership with Project Drawdown's		
	Tech	09/23/2019	Loading	Shopify	As part of their commitment to combat climate In addition to being carbon neutral, Shopify has	Company states that going accomplishing net- Shopify is committed to investing at least \$1	Atlassian Pledge Shopify Pledge	
	Tech	09/23/2019	#REF!	BT Group	BT Group is committed to being a net-zero carbon	1.7	BT Pledge	
	Tech	09/23/2019 09/12/2019	#REF: Loading	Salesforce	B1 Group is committed to being a net-zero carbon Committed to being net-zero in 2017. Is now a net-	While they have committed to being a net-zero Through offsets and reforestation. "The carbon	Salesforce Pledge	
	Tech	10/01/2018	Loading	Google	Google has been carbon neutral since 2007, but is	Google purchases offsets and has a series of	Google Pledge	
-	Tech	04/17/2017	#REF!	Wipro	The energy industry is focused in three avenues for		Wipro LTD Pledge	Business Insider
-	Tobacco	09/21/2020	Loading	Philip Morris International	Achievement of carbon neutrality of PMI's direct	Philip Morris cites "reforestation" and "soil	PMI Pledge	
#REF!	Waste & Recycling	04/12/2020	Loading	Viridor	Viridor has pldeged that ahead of COP26 in	Capturing and storing carbon emissions from	Viridor Pledge	
	Energy	05/20/2021	Loading	Dominion	Originally, in 2020 they made a "commitment to achi			
	Energy	08/26/2020	#REF!	Williams Companies, Inc.	Williams aspires to be net zero by 2050, with a 56%			
	Energy	00/20/2020	#REF!	Santos	In 2021, Santos set new greenhouse gas emmission			
	Energy		and a l		In 2021, Santos set new greenhouse gas emmission	Samos win target CCS based removals that Will c	Cantos I Icuge	

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4	INSTITUTE FOR CARBON REMOVAL LAW & POLICY	F .	<u>of car</u>	bon negative or carbon-neutra To read more about the Action	<u>al-with-carbon-removal pledges.</u> on Tracker, visit our blog.			$\mathcal{D}$
Last	t Updated October 3, 20	22						
	Sector	Pledge Date 03/30/2020		Owner	Commitment	CDR Methods	Commitment Link	Media Coverage
#REF	Agriculture Agriculture	03/30/2020	#REF! Loading	Archer Daniels Midland Co Olam Group	ADM announced a new plan to reduce its absolute gr Race to Zero: Net Zero 2050 - Commit to achieve ner	Archer Daniels Midland Company (NYSE: ADM) Olam has cited CCS-based removals such as	Olam Pledge	
#REF! #REF!	Architecture and Design	08/02/2021 09/07/2021	#REF! #REF!	Deezen	Deezen is committing to becoming a net-zero busines	Deezen is currently investigating all of the sources	Deezen Pledge	No. V. J. Theory Courses
#REF	Automotive Aviation	09/07/2021	#REF!	Audi Asia Pacific Airlines	By 2025, the Volkswagen Group wants to reduce the The Association of Asia Pacific Airlines (AAPA)	Audi has paid Climeworks to capture and remove ICAO Carbon Offsetting and Reduction Scheme	Audi Pledge AAPA Pledge	New York Times Coverag
#REF! #REF!	Aviation Aviation	04/21/2021 12/10/2020	#REF! Loading	Alaska Airlines United Airlines	Alaska Airlines today announced its commitment and United is pledging to become 100% green by	Due to aviation being one of the most difficult United intends to make a multimillion-dollar	Alaska Airlines Pledge United Pledge	
#REF	Aviation	02/17/2020	Loading	Delta Airlines	Delta Air Lines has committed \$1bn over the next	The airline will continue to focus on the removal	Delta Pledge	Forbes Magazine
#REF	Aviation Aviation	01/15/2020 01/06/2020	#REF! Loading	Etihad Airways JetBlue	Etihad committed to a minimum target of zero net JetBlue will offset carbon dioxide emissions from jet	"The global focus on the environment and the JetBlue will partner with Carbonfund.org and	Etihad Pledge JetBlue Pledge	Business Travel News BusinessWire
#REF!	Aviation	11/19/2019	Loading	Easy Jet	Easy Jet committed to net-zero carbon flights by	Easy Jet will offset the carbon from the fuel used	Easy Jet Pledge	CNN Business
#REF! #REF!	Aviation Aviation	11/11/2019 10/01/2019	#REF! Loading	Qantas Airways British Airways	The Qantas Group will reach net-zero carbon British Airways has announced plans to offset the	Existing projects benefiting from the offsets The carrier says it will invest in verified carbon	Qantas Pledge British Airways Pledge	Reuters Atlanta Business Chronic
#REF	Aviation	03/15/2021	Loading	Air Canada	Air Canada has a goal to have all global operations	Air Canada plans to shift to sustainable air fuel,	Air Canada Pledge	
#REF! #REF!	Aviation Construction	07/27/2021 04/22/2021	Loading	Loading BNBuilders	BNBuilders announced clean construction targets for	They will advocate for alternative methods of	BAE Systems Pledge BNBuilders Pledge	Energy Live News
#REF	Consulting	09/01/2020	Loading	Boston Consulting Group	BCG committed to net-zero climate impact by 2030;	BCG will remove its remaining emissions by	BCG Pledge	Forbes Magazine
	Education Energy	05/01/2021 04/19/2021	#REF! Loading	Australian National University San Diego Gas & Electric	ANU has announced the Below Zero Initiative, Building on the sustainability strategy it released last	Carbon sequestration: Developing and The company plans to employ carbon capture and	ANU Pledge San Diego Gas & Electric Pled	
#REF	Energy	03/04/2021	#REF!	Chevron	Chevron Corporation, Schlumberger New Energy,	The BECCS plant will convert agricultural waste	Chevron Pledge	BioMass Magazine
	Energy Energy	10/13/2020 11/02/2020	#REF! Loading	Jera Equinor	Jera pledged to achieve zero carbon emissions by Equinor climate ambitions:	Jera aims to eliminate its carbon emissions and Net-zero emissions requires a well-functioning	Jera Pledge Equinor's Pledge	Bloomberg Quint
#REF	Energy	05/27/2020	Loading	Southern Company	Southern Company moved to a long-term	The company will continue to reduce GHG	Southern Company's Pledge	GreenBiz
	Energy Energy	05/05/2020 04/16/2020	#REF! #REF!	Total S.A. Royal Dutch Shell	Total has a new climate ambition to become net-zero Royal Dutch Shell has committed to being net-zero	Total is committed to reducing its carbon Shell plans to offset its own emissions by trapping	Total Pledge Royal Dutch Shell Pledge	World Oil Magazine Carbon Brief
#REF	Energy	02/24/2020	Loading	Consumers Energy	Consumers Energy announced a goal to achieve net-	"Strategies such as carbon capture and	Consumers Energy Pledge	Cision PR Newswire
	Energy Energy	02/12/2020 12/01/2019	#REF! Loading	BP Repsol	BP has pledged to reach net-zero across BP's Repsol announced a commitment to net-zero	BP plans to achieve their pledge through CCUS Repsol said it would pursue a number of measures	BP Pledge Repsol Pledge	
#REF	Energy	09/24/2019	Loading	NRG Energy	NRG Energy has pledged to have net-zero emissions	NRG Energy has stated that CCS (carbon capture	NRG Energy Pledge	
	Energy Energy	09/17/2019 05/20/2019	Loading	Duke Energy Xcel Energy	Duke Energy announced an updated climate strategy Xcel Energy has committed to having net-zero	"Getting to net-zero carbon emissions, while Xcel is still in the process of determining how it	Duke Energy Pledge Xcel Energy	
#REF	Energy	03/23/2021	#REF!	Southern California Gas Compar		By 2045, SoCalGas plans to have net-zero energy	SoCalGas Pledge	CalMatters on SoCalGas
	Energy Energy	01/13/2021 08/12/2021	#REF! Loading	Occidental Petroleum ExxonMobil	To implement a Net Zero Energy Cycle which ExxonMobil has launched the Low Carbon Solutions	This cycle starts with capturing CO2 from the It was the first company to capture more than 120	https://www.oxy.com/OurBust ExxonMobil Pledge	https://apnews.com/arti Forbes Magazine Article
	· 0/	05/27/2021 08/15/2019	#REF! #REF!	Eni UK France's Total	Decarbonisation is structurally embedded in Eni's	Under the agreement, Eni will develop and	Eni Pledge	Reuters Magazine Article
#REF	Energy Energy	11/11/2020	#REF!	ADNOC (UAE)	Total aspires to become a major player in CCUS ADNOC and Total will jointly explore opportunities	Its membership reflects the center's growing In the area of CCUS, the companies will further	Total's Pledge ADNOC Pledge	Reuters Magazine Article CNBC News
	0,	08/26/2021 08/27/2021	#REF! #REF!	China National Petroleum Corpo Linde	CNPC publishes only its Scope 1 and 2 greenhouse	CNPC focuses on carbon capture, utilization, and	CNPC Pledge	CSIS Analysis of Chinese
-	Energy Energy	11/16/2020	Loading	Aker Solutions	Amidst an international focus on achieving net zero Aker Solutions aims to generate about half of its	Initiatives include developing industry-leading Lower the carbon emissions from their	Linde Pledge Aker Solutions Pledge	Gas World Article OE Digital News
	Energy Energy	21(updated 6/4 06/17/2021	#REF! Loading	Drax Global TC Energy	The UK needs negative emissions technologies to	With an effective negative emissions policy and For Canada to achieve its enhanced climate	Drax Pledge TC Energy GHG Emissions Re	Energy Monitor AI Cover
	Energy	00/1//2021	Loading	PetroChina	TC Energy has set ambitious greenhouse gas (GHG) Pledged to strive to peak its carbon emissions by	Implementing CCUS technology, carbon	PetraChina Pledge	
	Finance Finance	08/30/2021 05/27/2021	#REF! Loading	Accelerate Financial Technologie Crypto.com	Accelerate Financial Technologies Inc. plans to Crypto.com announced an ambitious goal of	Carbon sequestration via planting of trees; The second phase will identify the most effective	Accelerate Pledge Crypto.com Pledge	
#REF	Finance	May 7th, 2021	~	Manulife	Manulife is proud to share they are net zero in	Hancock Natural Resource Group (HNRG), a	Manulife Pledge	The 3 Areas Manulife Wil
#REF! #REF!	Finance Finance	05/12/2021 04/21/2021	Loading	TIAA Visa	TIAA, a leading provider of secure retirements and Visa is looking broader and longer-term by	Nature-based solutions including afforestation, Their carbon offsets portfolio includes projects	TIAA Pledge Visa Pledge	
#REF	Finance	10/09/2020	Loading	HSBC	HSBC pledged to be net-zero in their own operations	HSBC is still in the process of determining how it	HSBC Pledge	
	Finance Finance	09/21/2020 04/21/2020		Morgan Stanley Harvard	Morgan Stanley committed to reaching net-zero Harvard's Endowment will become greenhouse-gas	Morgan Stanley is still in the process fo This commitment is not the same as fossil-fuel	Morgan Stanley Pledge Harvard Pledge	
#REF	Finance	01/01/2020	Loading	Barclays	Barclays has a plan to be net-zero by 2030 in Scope 1	Barclays' strategy is to align with the goals of the.	Barclays Pledge	
	Finance Finance	03/01/2021 02/11/2021	Loading Loading	Citibank Bank of America	Citibank plans to have net-zero greenhouse gas Bank of America intends to be net-zero by 2050 for	Within their portfolio, Citi plans to incorporate Bank of America supports advancement and	Citi Pledge Bank of America's Pledge	Citi's Environmental and Environmental and Socia
#REF	Finance	03/08/2021	Loading	Wells Fargo	Wells Fargo will transition to net-zero emissions for	Wells Fargo has created three "Scope" levels for	Wells Fargo Pledge	Wells Fargo Newsroom
#REF! #REF!	Finance Food and Beverage	10/06/2020 01/15/2019	Loading #REF!	JP Morgan Chase Coca Cola HBC Switzerland	JP Morgan Chase intends to be achieve net-zero Coca-Cola HBC Switzerland, a vendor that makes	JP Morgan Chase is commiting to not only be Climeworks is building machines with filters that	JP Morgan Chase Press Release Coca Cola HBC Switzerland Ple	
#REF! #REF!	Heavy Industry (steel, cem	04/21/2021	Loading	United States Steel	United States Steel Corporation (NYSE: X) ("U. S.	To achieve its net-zero goal for 2050, U. S. Steel	US Steel Pledge	
#REF!	Heavy Industry (steel, cem Heavy Industry (steel, cem	09/21/2020 07/01/2019	Loading Loading	LafargeHolcim ThyssenKrupp	On our way to becoming a net zero company, we are Germany's largest steelmaker, ThyssenKrupp,	Reaching net zero in cement manufacturing which ThyssenKrupp will pursue several measures to	Lafargeholcim Pledge ThyssenKrupp Pledge	
#REF! #REF!	Heavy Industry (steel, cem Heavy Industry (steel, cem	05/13/2019 01/01/2016	Loading Loading	Heidelberg Cement SSAB	In addition to setting short-term targets for 2030, the SSAB is taking the lead in decarbonizing the steel	HeidelbergCement will improve its energy SSAB will cut their CO2 emissions in Sweden by	Heidelberg Cement Pledge SSAB Pledge	
#REF	Hospitality	09/22/2021	Loading	Marriot	Marriott International, Inc announced it has	Planting more than 415,000 trees over the last	Marriot Pledge	USA Today Coverage
#REF! #REF!	Insurance Logistics	02/20/2020	Loading Loading	Swiss Re Brambles	Swiss Re committed to achieving net-zero emissions 2025 Business Positive targets:	Their motto is "Do our best, remove the rest." According to their pledge, they will" enable the	Swiss Re Pledge Brambles Pledge	
#REF!	Retail		Loading	Velux	Velux committed to becoming liftime carbon neutral	Velux has partnered with WWF to invest in forest	Velux Pledge	
#REF! #REF!	Manufacturing Manufacturing	09/24/2019 01/28/2021	Loading Loading	Saint-Gobain General Motors	Saint-Gobain commits itself to reach net-zero General Motors plans to be carbon neutral by 2040	Saint-Gobain designs, produces and distributes GM's carbon neutrality plans come from its	Saint-Gobain Pledge General Motors Pledge	
#REF	Non-energy utilities	11/12/2020	Loading	United Utilities	As part of their April 2019 Public Interest	1,000 hectares of peat bog restoration will be	United Utilities Pledge	
#REF	Pharmaceutical/Chemical Pharmaceutical/Chemical	01/23/2020 03/01/2022	Loading	AstraZeneca Bayer AG	Within this decade, AstraZeneca plans to remove Race to Zero: Net Zero 2050 - Commit to achieve	This carbon negative pledge will be realized Bayer has noted nature-based removals including	AstraZeneca Pledge Bayer Pledge	
#REF	Power and Gas		Loading	General Electric	In 2020, GE set a new goal of carbon	Over the long term, to achieve the levels		
	Real Estate Real Estate	02/10/2021 05/04/2021	#REF! Loading	Active Super Australia AMP Capital	Aims to take our fight for the environment even AMP Capital has signed a seven-year renewable	Other than the pledge, little has been written A technological breakthrough – possibly carbon	Active Super Pledge AMP Capital Managed Portfolio	WGBC Active Super AMP Capital Pledge Ann
#REF	Real Estate	04/20/2021	Loading	Antilooppi	Last year the company signed the Net Zero Carbon	Other than the pledge, little has been written	Antilooppi Pledge	WGBC Antilooppi Covera
#REF! #REF!	Real Estate Real Estate	10/05/2020 06/06/2020	Loading	Argent LLP Arthaland	Commits to all occupied assets operating at net zero Arthaland commits to design, own and operate new	Other than the pledge, little has been written Other than the pledge, little has been written	Argent Services Pledge on WGF Arthaland Pledge	Argent Services Press Re BBC Coverage on Arthal
#REF	Real Estate	06/10/2021	#REF!	Assura	Assura pledges to advance their development process	Other than the pledge, little has been written	Assura Pledge	Assura Net Zero Carbon
	Red Meat, Pork, Poultry &	06/09/2021	#REF! Loading	Crave Brothers Farmstead Chees Tyson	Crave Brothers Farm is producing more electricity To achieve net-zero greenhouse gas (GHG)	Our computer controlled anaerobic digestion Completing initial land stewardship target of	Crave Brothers Farm Pledge Tyson Pledge	Reuters
	Red Meat, Pork, Poultry &							
#REF! #REF!	Red Meat, Pork, Poultry &	03/23/2021	Loading	JBS Foods	JBS has made a commitment to achieve net-zero	Eliminating deforestation: JBS will eliminate	JBS Pledge	
#REF #REF #REF				JBS Foods Procter & Gamble Giant Eagle	JBS has made a commitment to achieve net-zero The company plans to achieve net zero greenhouse A commitment to achieve net zero carbon emissions	Eliminating deforestation: JBS will eliminate P&G will explore Ingredients made from Investments into negative emissions technologies	JBS Pledge Giant Eagle Pledge	

#REF!	Retail	06/15/2021	Loading	Ralph Lauren	Net zero global greenhouse gas (GHG) emissions	For emissions that cannot be reduced through	Ralph Lauren Pledge	
	Retail		Loading	HEXO Corp	Hexo is offsetting the company's operational	Through a partnership with Offsetters, in support	HEXO Pledge	GlobeNewswire
#REF!			Loading	Whirlpool	Whirlpool Corporation made a global commitment	Leveraging carbon removal development	Whirlpool Pledge	Grand Rapids Business Io
#REF!	2.000		Loading	Shaklee	In 2000 Shaklee became the first company in the	2021"Our commitment to the planet started	Shaklee Pledge	
#REF!	Retail	04/22/2021	Loading	Ancient Nutrition	Superfoods supplement purveyor Ancient Nutrition	Become carbon Negative through regenerative	Ancient Nutrition Pledge	
#REF!	Retail	04/22/2021	Loading	Klarna	Klarna is committed to reduce its emissions by 50%	Klarna will make annual financial contributions to	Klarna Pledge	
#REF!	Shipping	03/03/2021	Loading	FedEx	FedEx Corp. (NYSE: FDX), home of the world's	This includes a pledge of \$100 million to Yale	FedEx Pledge	
#REF!	Retail	06/20/2021	#REF!	Prima	Prima is 100% carbon neutral across the entire	Beyond Carbon Neutral: As a business, we are	Prima Pledge	
#REF!	Retail	04/16/2021	Loading	Cacto	CACTO is proud to be the first Carbon Negative	Through a partnership with Swiss nonprofit	Cacto Pledge	Fashion United
#REF!	Retail	09/21/2020	Loading	Walmart	Walmart committed to zero emissions from its global	Walmart does not plan to do CDR in their zero	Walmart Pledge	
#REF!	Retail	04/06/2021	Loading	Indigo	Indigo's goal is to have net-zero emissions by 2035.	Indigo is partnering with One Tree Planted, a	Indigo Pledge	Yahoo!
#REF!	Retail	03/30/2021	Loading	Netflix	Netflix will achieve net zero greenhouse gas	Conserving at-risk natural areas like tropical	Netflix Pledge	
#REF!	Retail	09/17/2020	Loading	Nespresso	Nespresso today commits that every cup of	Planting trees in coffee farms and the surrounding	Nespresso Pledge	
#REF!	Retail	09/03/2020	Loading	BrewDog	BrewDog has become carbon negative. "From 22	Natural removal: Purchased 2,050 acres of land in	BrewDog Plan	
#REF!	Retail	08/24/2020	Loading	Danone	Horizon Organic announced a commitment to	Horizon's carbon positive pledge will be fulfilled	Horizon Organic Pledge	
#REF!	Retail	03/03/2020	Loading	3Degrees INC	Part of pledge taken by over 500 B Corps - including	Other than the pledge, little has been written	3Degrees Pledge	
#REF!	Retail	01/30/2020	Loading	Starbucks	Starbucks has committed to being resource positive -	"Invest in innovative and regenerative agricultural	Starbucks Pledge	
#REF!	Retail	01/21/2020	Loading	Unilever	Unilever has pledged to be Net-zero emissions by	Unilever's pledge aligns with a coalition of	Unilever Pledge	
#REF!	Retail	12/11/2019	Loading	The Body Shop	Part of pledge taken by over 500 B Corps - including	Other than the pledge, little has been written	Body Shop Pledge	
#REF!	Retail	12/11/2019	Loading	Allbirds	Part of pledge taken by over 500 B Corps - including	Other than the pledge, little has been written	Allbirds Pledge	
#REF!	Retail	12/11/2019	Loading	Dr. Bronner's	Part of pledge taken by over 500 B Corps - including	Other than the pledge, little has been written	Dr. Bronners Pledge	
#REF!	Retail	12/11/2019	Loading	Nestle	Nestle has committed to having net-zero carbon	Produce more environmentally friendly products,	Nestle Pledge	
	Retail	09/12/2019	Loading	Amazon	Under Amazon's Climate Pledge, they committed to	Amazon is launching the Right Now Climate	Amazon Pledge	
#REF!	Retail		Loading	Ikea	2018, IKEA, the world's largest furniture retailer,	Ikea's parent company is investing an additional	Ikea Pledge	
	Shipping	11/30/2018	Loading	Stena Bulk	Stena Bulk offers a roadmap with a target to become	Fuel-switching, including to hydrogen and	Stena Bulk Pledge	Climate Action News
#REF!	ľech		Loading	Expensify	Expensify commits to becoming Net Zero by 2030	To meaningfully offset its carbon footprint,	Expensify's Pledge	
#REF!	ľech	06/12/2021	Loading	Logitech	Logitech have accelerated their	Becoming carbon neutral this year is a first step	Logitech Pledge	
				#REP!			Algorand Piedge	
	ſech	09/23/2019	#REF!	BT Group	BT Group is committed to being a net-zero carbon	While they have committed to being a net-zero	BT Pledge	
	<b>Fech</b>	09/12/2019	Loading	Salesforce	Committed to being net-zero in 2017. Is now a net-	Through offsets and reforestation. "The carbon	Salesforce Pledge	
	l'ech	10/01/2018	Loading	Google	Google has been carbon neutral since 2007, but is	Google purchases offsets and has a series of	Google Pledge	
#REF!	ſech	04/17/2017	#REF!	Wipro	The energy industry is focused in three avenues for	One of the practical ways to achieve near net zero	Wipro LTD Pledge	Business Insider
#REF!	Tobacco	09/21/2020	Loading	Philip Morris International	Achievement of carbon neutrality of PMI's direct	Philip Morris cites "reforestation" and "soil	PMI Pledge	
TALL.		04/12/2021	Loading	Viridor	Viridor has pldeged that ahead of COP26 in	Capturing and storing carbon emissions from	Viridor Pledge	
	Waste & Recycling	04/12/2021	i watering					
#REF!	Waste & Recycling Energy	05/20/2021	Loading	Dominion	Originally, in 2020 they made a "commitment to achi	1 0 0	Dominion Pledge	
#REF!	, ,			Dominion Williams Companies, Inc.	1 0	Dominion has committed to using CCS-based re	Dominion Pledge Williams Companies, Inc. Pledg	

Gloss	sary of Carbon Removal Terms
Biochar	Biochar is a charcoal-like substance produced by burning organic material (also called biomass) at temperatures of 300–600°C in an oxygen-limited environment. Biochar can store large amounts of carbon for up to a thousand years, in contrast to the very rapid release of carbon that occurs from the burning or natural decomposition of biomass.
Bioenergy with Carbon Capture and Storage (BECCS)	Bioenergy with carbon capture and storage (BECCS) is a carbon removal technique that depends on two technologies. Biomass (organic material, which extracts carbon dioxide from the atmosphere as it grows) is converted into heat, electricity, or liquid or gas fuels (the "bioenergy" step), and the carbon emissions from this process are captured and stored in geological formations or the deep ocean, or embedded in long-lasting products (the "carbon capture and storage" step). BECCS is sometimes referred to as bioenergy with carbon capture and sequestration. See our <u>BECCS Fact Sheet</u> for more information.
Carbon Capture	Carbon capture includes any process for capturing carbon dioxide, whether from the atmosphere or from a smokestack or other concentrated source of carbon dioxide emissions. This term is sometimes used ambiguously to refer to carbon removal and carbon capture and sequestration, despite the important differences between those two activities. See also carbon capture and sequestration, carbon capture and use, carbon removal.
Carbon Capture and Sequestration (CCS)	Carbon capture and sequestration (CCS) usually refers to the process of capturing carbon dioxide emissions from a point-source, such as the flue of a gas-fired power plant, and injecting the captured carbon dioxide into geological reservoirs. CCS on a fossil fuel power plant reduces carbon emissions but does not remove carbon dioxide from the atmosphere. It therefore does not count as a form of carbon removal. On the difference between CCS and carbon removal, see our Carbon Removal Explainer. See also carbon capture, carbon capture and use.
Carbon Capture and Use (CCU)	Carbon capture and use (CCU) refers to the two-step process of capturing carbon dioxide and using it to make valuable products or provide valuable services. For example, carbon dioxide can be used to carbonate beverages or make synthetic fuels, cement, carbon fibers, and much more. The term is used for the use of carbon captured from the atmosphere and for the use of carbon captured from flue gas via conventional carbon capture and sequestration (CCS). CCU only counts as carbon removal in cases where the carbon dioxide is captured from the atmosphere and stored for long periods of time (e.g., in long-lived products, such as cement). See our Carbon Removal Explainer for more on the relationship between CCU, carbon removal, and carbon capture and sequestration.
Carbon Capture and Use or Sequestration (CCUS)	Carbon capture and use or sequestration (CCUS) is an umbrella term covering both carbon capture and use (CCU) and carbon capture and sequestration (CCS). It often refers to CCU or CCS associated with fossil fuels or cement, rather than to carbon removal.
Carbon Dioxide Removal (CDR)	Carbon dioxide removal (CDR) is a widely used synonym for carbon removal. See also carbon drawdown, negative emissions technologies.
Carbon Drawdown	Carbon drawdown is usually used as a synonym for carbon removal. It sometimes refers specifically to the use of carbon removal to reduce the atmospheric concentration of carbon dioxide, as opposed to simply slowing its increase.

Carbon Neutral	Carbon neutral describes a country, company, process, etc., that does not emit more carbon dioxide than it captures. An entity could be carbon neutral because it does not emit any carbon dioxide in the first place, but "carbon neutral" more often refers to an entity or process that emits some carbon dioxide but removes just as much carbon dioxide from the atmosphere via carbon removal. See also net zero emissions.
CCS	CCS is an acronym that stands for carbon capture and sequestration.
CCUS	CCUS is an acronym that stands for carbon capture and use or sequestration.
CDR	CDR is an acronym that stands for carbon dioxide removal.
Direct Air Capture (DAC)	Direct air capture (DAC) is a process of capturing carbon dioxide directly from the ambient air (as opposed to capturing from point sources, such as a cement factory or biomass power plant) using specially designed machines. In these machines, chemicals bind with carbon dioxide in the air. The carbon dioxide is then separated from those chemicals to produce a stream of concentrated carbon dioxide, which can be sequestered or used to make valuable products. The chemicals are then reused to capture more capture dioxide. When the captured carbon dioxide is sequestered or used in long-lived products, DAC counts as a form of carbon removal. See also direct air capture with carbon storage (DACCS), direct air capture and use (DAC+U), carbon capture and use.
Direct Air Capture with Carbon Storage (DACCS)	Direct air capture with carbon storage (DACCS) refers specifically to the two-step process of using direct air capture to capture carbon dioxide from the atmosphere and then sequestering it, as opposing to using it in short-lived products. DACCS counts as a form of carbon removal. See our DACCS Fact Sheet for more information. See also direct air capture and use (DAC+U).
Direct Air Capture and Use (DAC+U)	Direct air capture and use (DAC+U) refers specifically to the two-step process of using direct air capture to capture carbon dioxide from the atmosphere and then using it to make products, such as carbonated beverages, synthetic fuels, or cement; or to provide services, such as enhanced oil recovery. If the captured carbon dioxide is used in long-lived products, such as cement, DAC+U counts as a form of carbon removal. For more on when carbon capture and use counts as carbon removal, see our Carbon Removal Explainer. See also carbon capture and use.
Enhanced Oil Recovery (EOR)	Enhanced oil recovery (EOR) is the process of injecting compressed carbon dioxide into declining oil wells to increase oil production from the well. The injected carbon dioxide could come from processes that capture carbon dioxide from the ambient atmosphere, such as direct air capture. Using carbon dioxide captured from the atmosphere would reduce the overall lifecycle emissions of the oil produced through EOR. Under most circumstances, however, burning oil produced with EOR still contributes more carbon dioxide to the atmosphere than it removes.
Greenhouse Gas Removal (GGR)	Greenhouse gas removal (GGR) is an unbrella term covering both carbon dioxide removaland the capture and storage of other kinds of greenhouse gases, such as methane. There are currently very few proposals to capture greenhouse gases other than carbon dioxide.
Lifecycle Emissions	Lifecycle emissions include all of the carbon dioxide emissions and removals associated with an activity or with the production and use of an energy carrier, such as electricity or jet fuel. For instance, the lifecycle emissions of corn ethanol include not just the carbon dioxide emitted by burning the ethanol, but also the carbon dioxide removed from the atmosphere as the corn grows; the carbon dioxide emitted during the harvesting, transporting, and processing of the corn; et cetera. Calculating the lifecycle emissions of a product or activity requires making choices about how to define the boundaries of the system used to produce and consume the product or conduct the activity. This means that different analyses can produce very different estimates of the lifecycle emissions for the same product or activity.

Natural Climate Solutions	Natural climate solutions involve conserving, restoring, or better managing ecosystems to remove carbon dioxide from the atmosphere. Examples include allowing forests to regrow, restoring mangroves and other wetlands, and switching to restorative agricultural practices, such as cover crop roation, that support healthy soils. These ecosystems capture carbon dioxide from the air and sequester it in plants, soils, and sediments.
Nature-Based Solutions	Nature-based solutions is a synonym for natural climate solutions.
Negative Emissions	Negative emissions refers to removing carbon dioxide (or other greenhouse gases) from the atmosphere. The "negative" in "negative emissions" means "less than zero." See also lifecycle emissions, negative emissions technologies (NETs), net negative emissions, net zero emissions.
Negative Emissions Technologies (NETs)	Negative emissions technologies (NETs) are technologies for implementing carbon dioxide removal. They are called negative emissions technologies because their lifecycle emissions are below zero, meaning that they remove more carbon dioxide from the atmosphere than they emit. Some people include practices such as restorative agriculture as negative emissions technologies, while others restrict the terms to engineered approaches to carbon dioxide removal, such as BECCS or direct air capture with carbon storage (DACCS).
Net Negative Emissions	A country, company, etc. or a process produces net-negative emissions if it removes more carbon dioxide from the atmosphere than it emits. For instance, if a country emits one billion tons of carbon dioxide per year but uses carbon removal to remove two billion tons of carbon dioxide per year, the country would have net negative emissions. See also net zero emissions, negative emissions, negative emissions technologies (NETs).
Net Zero Emissions	Net zero emissions is usually used as a synonym for carbon neutrality. A country, company, or other entity reaches net zero emissions when it is carbon neutral. See also net negative emissions.
Soil Carbon Sequestration	Soil carbon sequestration, also known as "restorative agriculture" or "regenerative agriculture," includes various ways of managing land, especially farmland, so that soils absorb and hold more carbon. See our Soil Carbon Sequestration Fact Sheet for more information. See also natural climate solutions.

				n Removal Corporate Action Tracke American Univ							
A INST LAW	ITUTE for CA and Policy	RBON REMOV/	u	Please email icrlp@american.edu if you of carbon negative or carbon-neutral- To read more about the Action	have other interesting examples						
Agriculture	03/30/2020	2020	Archer Daniels Midland	ADM meaneed a new plan to reduce it a shocket genethouse gas emissions by 25% and its energy intrativity 15% V035. The new gashs follow on ADM vo cigital "155/20" plan, unveiled in 2011, it which the company committed to pre-stati improvements in 15% 20% and an unveiled in 2011, it which the company committed to pre-stati improvements in renergy use, genethouse gas emissions, water and wate to handfilly 2020. After meeting these foldola, an engineering preforsional arrives firms, to conduct an in-depth feathbility staty to holp abuge a new of committeness to combat	Areber Daniels Midland Company (NYSE: Areber Daniels Carbor Capture and Storage (ICCS) projects a pattership to addy and permanently store more than I million isnos (ICCS) (ICCS) project a patternet in the storage of the project approcess the storage of the storage of the rented to a hyperodect at ADM's Decature core processing facility, and stores it adely almost a mile and a half underground in the M. Simon Studience.	Archer Daniels Midland. Pledae					
Agriculture		2019	Olam International	elimate change. Race to Zero: Net Zero 2050 - Cemmit to achieve net zero CO2 emissions by 2050	Olam has cited CCS-based removals such as Bioetergy with carbon capture and storage. There is a carbon capture and storage. There is a carbon trading pathorm using block-hain. Based on the commitments made by countries under the Paris accord to Pring down their emissions by 2030 and 2059, and the need to get to net zero emissions by 2050 to himig dohd warming to biomissions by 2050 to himig dohd warming to market and effecting solutions market will gove considerably in the next several years.	Ωlam Piedge					EI
Architecture and Design	8/2/2021	2021	Deezen	Decom is committing to becoming a net-zero basiness by 2025.	It will take us a white to faily undermal our Scope 3 emission but we're not going to wait until we have a concrete figure of our carbin forgering before we start working to climinate d. By the ord of the year, we will cash that a start of the start of the start of the start project or a partic at most provider that have emissions. We will use provider that have emissions the start of the provider that have emissions the start of the start of the start provider that the start of the start of the behalf to cover the rest of our Scope 3 emission. We will grow our pertificio over the already officting our website emission (see alreav). We will grow our pertificio verte becoming users to the start or the start of the start of the start of the start of the start of the start of the start of the start of the start of the start of the start of the start of the start of the start of the start of	Deczen Piedge					
Automotive	9/7/2021	2021	Audi	By 2025, the Volkswagen Group wants to reduce the ecological footprint of cars and light utility vehicles along the entire value chain by 30 percent relative to 2015. Audi has therefore set ambitious targets in all areas of the company with the goal of achieving net CO2-neutrality company-wide by 2050.	Audi has paid Climeworks to capture and remove 1,000 tons of carbon dioxide from a new <b>direct air capture</b> facility in Iceland.	Audi Pledge	New York Times Coverage				
Aviation	9/13/21	2021	Association of Asia Pacific Airlines	The Association of Asia Pacific Atrilnes (AAPA) amounced in commitment to a goal of net zero net zero musicons surprises the existing industry commitment to halving carbon emissions by 2050.	ICAO Carbos Offsetting and Reduction Scheme for International CORSIA) has an International to physin achieving this ambitious toog term commitment. It is the agered global mechanism for offsetting growth not since 2020. AADw wholly supports ICAO's efforts on this forti, and will continue to executing a shift of the strength of the since 2020 in the strength of the since 2020 in the strength of the since 2020 in the since and the since and addition, investment in emerging source of addition, investment in these boccurs forther towards achieving net zero emissions."	AAPA Ploige					
Aviation	4/21/21	2021	Alaska Airlines	Alaska Airlines today announced its commitment and roadmap to reduce the company's carbon emissions to are-zero by 2040, and commitments across carbon, waste, and water impacts by 2025. Today's announcement included the release of Alaska's 2020 LIFT Sustainability Report detailing the company's broader climate change strategy, including wate and water initiatives.	Because aviation is one of the most difficult sectors to decarbonize, Alaska will also work with science and technical advisory Carbon Direct to identify and vet credible, high- quality carbon offsetting technologies to close any remaining gaps on the path to net-zero.	Alaska Airlines Pledge					
Aviation	12/10/20	2020	Unites Airlines	Unter in predgring to become 100% green by reducing its greenhouse gas (GHG) emission by 100% by 260. The aritine will will advance towards carbon enterthing by committing to a multimilitoria ddata investment in revolutionary Detect. Aler Capture – ather than indired measures like carbon-offsetting – in additos to of sustainable available fuel (Aler Marcon and of sustainable available fuel (Aler Marcon and of sustainable available fuel (Aler Marcon and States) and the second and the second ble first atime in the world su amounce a technology.	United intends to make a multimillion-dollar investment in 1PointFive, Inc., a partnership between Oxy Low Carbon Ventures, a subsolution of OxeContant (NYSE OXY), and biologicar of OxeContant (NYSE OXY), and musison is to carb the rise in global temperatures by polysically removing carbon dioxide (CO2) from the air units <b>Direct Air</b> <b>Capture technology</b> licensed from Carbon Engineering.	Linited Pledge					
Aviation	2/17/20	2020	Delta Airlines	Delta Air Lines has committed \$1bn over the next decade to make its business carbon neutral, with the company pledging to reduce its relance on the carbon offset market. In 2012, Delta became the first US airline to voluntarily cage emissions at 2012 levels, despite growing the company by 20%, but this was largely achieved through the purchase of more than 16 million verified carbon offsets.	The airline will continue to focus on the removal of carbon emissions from the atmosphere by investing in <b>forestry</b> , we <b>tland</b> <b>restoration</b> , grasshand <b>conservation</b> , <b>marine and soil capture</b> , and other negative emissions technologies.	Delta Piedge	Forbes Magazing NPR_ The Guardian_ World Economic Forum Journal of Cleance Production The New York Times Business & Policy. CNN Business		2016	1	
Aviation	1/15/20	2020	Etihad	Etihad committed to a minimum target of <b>zero</b> <b>net carbon</b> cmissions by 2050 and halving of its 2019 net emission levels by 2035	"The global focus on the environment and the urgency of reducing carbon emissions has never been present. Eithad Avaition Group, together with its partners, is taking an active role in reducing the impact of aviation on the environment through initiatives ranging from optimised fuel management to sustainable financing practices."	Etihad Pledge	Basiness Travel News		2017	0	
Aviation	1/6/20	2020	JetBlue	JetBlue will offset carbon dioxide emissions from jet fiel for all domestic JetBlue flights beginning in July 2020, making it the first major U.S. arithen to take this critical and measurable step toward reducing its contribution to global warming. JetBlue also announced plans to start flying with sustainable aviation fuel in mid-2020 on flights from San Francisco International Airport.	JetBlue will partner with Carbonfund.org and EcoAct to offset an additional 15-17 billion pounds of emissions per year – the annual equivalent of removing more than 1.5 million passenger vehicles from the road. JetBlue will parchase sustainable aviation fuel from Neste.	<u>IctBlue Piedge</u>	BusinessWire Quartz		2018	1	
Aviation	11/19/19	2019	Easy Jet	Easy Jet committed to <b>net-zero</b> carbon flights by offsetting all jet fuel emissions, which would cost about £25m in the next financial year.	Easy Jet will offset the carbon from the fuel used for every flight, by investing in projects that include <b>reforestation</b> , protecting against deforestation, and renewable energies.	Easy Jet Pledge	CNN Business Ecosystem MarketPlace		2019	18	
Aviation	11/11/19	2019	Qantas Airways	The Qantas Group will reach net-zero carbon emissions by 2050 in an expansion of the airline's commitment to a more sustainable aviation industry. It will invest \$50m in sustainable fiel over the next leade at and 57set growth in emissions from international and domestic flights in order to reach net-zero emissions by 2050.	Existing projects benefiting from the offsets include protecting the Great Barrier Reef, which has seen the <b>number of new corals</b> <b>fall by 89%</b> after the elimate change-induced mass bleaching of 2016 and 2017.	Qantas Piedge	Reuters Simplying Elving Edic Travel Newsroom The Straits Times		2020	37	
Aviation	10/1/19	2019	British Airways	Initials Arrays has announced plans to offer the carbon emissions from all of its UK domentic flights. The move will take effect from January 2020 and will occur up to 75 domentic flights per the Linet UK and the UK down of the downetic flights. In addition, the carbon domentic from next year its carbon emissions on international flights will be carped through the minerational flights will be carped through the company IAG has committed to achieving set- yers earbon emissions by 2030.	The carrier says it will invest in verified carbon reduction projects worldwide, including renewable energy, iniferest protection, and <b>reforestation</b> programmes to offset their emissions.	British Airways Pledge	Atlanta Business Chronicle Bloomberg Green The Wall Street Journal Acrotime Hub Treebugger				
Aviation	3/15/21	2021	Air Canada	Air Canada has a goal to have all global operations greenhouse gases <b>net-zero</b> by 2050.	Air Canada plans to shift to sustainable air fuel, more renewable resources, and is currently exploring negative emisisons technologies as offsets. More of this information is to be provided in the coming weeks.	Air Canada Pledge					
Aviation	July 27, 2021	2021	BAE Systems	Joined the United Nations 'Race to Zero' campaign, committing to achieve net-zero greenhouse gas emissions across their operations by 2030 and across their supply chain by 2050.	BAE systems is focused on reducing the carbon footprint of their supply chain and operations rather than implementing any CDR.	BAE Systems Pledge	Energy Live News				EI
Construction	4/22/21	2021	BNBuilders	BNBuilders announced clean construction targets for 2040, which include a commitment to achieve net-zero carbon - a decade ahead of the Paris Agreement's goal, and an ambition to generate zero waste.	Advocate for alternative methods of construction such as prefabrication, modularization, and materials, like <b>mass timber</b> , that reduce overall waste generation;	BNBuilders Pledge					
Consulting	9/1/20	2020	Boston Consulting Group	BCG committed to <b>net-zero</b> climate impact by 2009, they declared carbon metrating in 2018. They "will reduce (their) footprint through a 90% reduction in Scope and Scope 2 emissions per fail-time equivalent employee (FTE) and a 30% reduction in Scope 3 business traced emissions per FTE by 2025. "They are also committing 5400 and environmental impact across industries and countries," Beyoad 2030, they plan to become carbon positive by removing more carbon than they emit.	BCG will remove its remaining emissions by investing in nature-based and technological CDR at a rate of \$80 per ten of unavoided carbon by 2000.	BCG Piedze	Eorbes Magazine Eorbes Magazine Bautines Revise Viskanes Cenise Discommend Analysta Global Eracommend Analysta Global Cauco JPR Neurossite				

Education	05/01/21	2021	Australian National University	AVU has an encoursed the Bolow Zoro Initiative which aims to training part of the solution - the problem to becoming part of the solution - the problem in the solution - the solution - the solution - the solution - the solution - the solution - tion - the solution - the solution - the solution - the solution - the solution - the solution - the solution - the solution - the solution - the solution - solution - the solution - solution - the solution - solution - solution - the solution - the solution - the solution - solution - solution - the solution - the solution - the solution - solution - the solution - solution - solution - the solution - solution - s	Carbon sequentration: Developing and researching approaches to actively remove for the second second second second second second best-practice approaches that can neer land- based carbon sequencing and a second second base co-benefits around biodiversity, and activation sequencing and the second second second second second second second second second second second second second second and second second second second second decision setup. In this real second second second second second second second second second managements needed to support good decision setup. In this real second second second second second management for cerbar sequentization. We are provide fielding as a research management for cerbar sequentization. We are provided based on performance of the second second partnerships in this field, including with indigences communities.	ANJ Piedne				
Energy	4/19/21	2021	San Diego Gas & Electric	Building on the sustainability strategy it released last Cheber and its pledge to reach there are greenhouse gas (GHG) emissions by 2045, San Dego Gas & Electric (SDCAE) amounced it is developing two hydrogen plot projects, nearing facility and will break ground on another, and launching a vehicle-ografi plot program featuring six electric school bases, among other efforts.	The company plans to employ carbon capture and storage to help it each the net- zero target. Carbon capture and storage is a process in which CO2 from power plants and factories is trapped or taken from the air and then deposited underground. **This was indicate in an interview with the San Diego Tribune, and is not yet incicated in the pledge from the company	San Diego Gas & Electric Pledge				
Energy	3/4/21	2021	Chevron	Chevron Corporation, Schlumberger New Energy, Microsoft and Clean Energy Systems today announced plans to develop a ground-breaking bioenergy with acroba capture and sequestration (BECCS) project designed to produce carbon negative power in Mendota, California.	The BRCCS plant will convert agricultural wates bicmass, used ha admond trees, into a renewable synthesis gas that will be mixed will oxygen in a combustor to generate electricity) more than 99% of the carbon from the BECCS process is expected to be captured for permanent storage by injecting carbon dioxide (CO2) underground into nearby deep geologic formations.	Chevron Pledge	BioMass Magazine			
Energy	10/13/20	2020	Jera	Jera pledged to achieve <b>zero carbon emissions</b> by 2050.	Jera aims to eliminate its carbon emissions and will offset remaining emissions in 2050 using unspecified technologies.	Jera Pledge	Bloomberg Quint The Japan Times Energy World Energy Henergy World Energy World Energy World Ener			
Energy	11/2/20	2020	Equinor	Equinor dimate ambitions: Become net zeros by 200. The ambition includes accept 1, 2 and 3 GHz emissions, where scope 3 emissions from customers' use of Equinor 3 emissions from customers' use of Equinor 2 activity 2 and 2 GHz emissions and a strategies of the missions from customers and the strategies of the reach approximate Sk gCO2 per best by 2025, (ii) (iii) (iii) (iii) (iii) (iii) (iii) (iii) (iii) (iii)) emissions from operated offithere fields and 2000 (iii) (iii) (iii) (iii) (iii) (iii)) (iii) (iii) emissions from operated offithere fields and 2 missions from operated offithere fields and 2 missions from operated offithere invisions intensity by 2010. (iii) (iii) (iii) (iii) (iii) (iii) (iii) (iii)) (iii) (iii) (iii) (iii) (iii) (iii) (iii) (iii)) (iii) (iii) (iii) (iii) (iii) (iii) (iii) (iii) (iii) (iii)) (iii) (iii) (iii) (iii) (iii) (iii) (iii) (iii) (iii) (iii) (iii)) (iii) (iii) (iii) (iii) (iii) (iii) (iii) (iii) (iii) (iii) (iii)) (iii) (iii) (iii)) (iii) (iii) (i	Not-oreo minimum requires a well- functioning model for carbon capture and functioning model for carbon capture and the development of competitive technologies for our and gas. Equator is well part of hydrogen. Building on its capabilities and the development of these parts in a driving the development of these models are the second technical technologies for the development of these technologies are the second technologies of the second technologies and the technologies are the second technologies of the second technologies are the second technologies and the second technologies are for the second technologies are the second technologies and the second technologies are for the second technologies are the second technologies and the second technologies are and the second technologies are the second technologies are the second technologies are and the second technologies are the second technologies are the second technologies are the second technologies are the second technologies are and the second technologies are the second technologies are and technologies are the second technologies are the second technologies are the second technologies are the second technologies are the second technologies are the second technologies are the second technologies are th	Equinor's Plodge				
Energy	5/27/20	2020	Southern Company	Reduce net carbon intensity to zero by 2050 Southern Company moved to a long-term greenhouse gas (GHG) emissions reduction goal of net-zero emissions by 2050. This replaces the low-to no-carbon goal the company unveiled in April of 2018.	The company will continue to reduce GHG emissions and continue their commitment to energy efficiency, but also incorporate negative carbon solutions, including technology-based approaches such as <b>direct</b> <b>air capture of carbon as</b> well as natural methods like <b>aforestation</b> .	Southern Company's Pledge	GreenBiz Cision PR Environment & Energy Leader WABE, Cision PR.			
Energy	5/5/20	2020	Total S.A.	Total has a new climate amhition to become <b>net-</b> zero by 2050.	Tabla is communed to reducing the transhom foodprint when producing transforming and delivering energy to markets. First, Tota Has mind public a target vertice in a hashing facilities to less than 40 Met by 2025. This target, that it is a discussive of executives: (and the stranget, that it is a discussive of the dis- tribution of the gravesh of the CHMM, table and the stranget of the discussive operative of the stranget of the stranget of the stranget of the stranget of a mound 10 Met by 2025. Table will continue 2020. Reyord its row operations, fold has also set the ambients to reflece the earbox intensity of the energy products used by stra- 2030 compared to 2015 and 22% to 60% by 2040.	Total Piedge	North Ol Manzin, Taol S.A. Roman, Ol and Ga Bunton Christick			
Energy	4/16/20	2020	Royal Dutch Shell	Royal Datch Shell has committed to being <b>net- zero</b> on all emissions from product manufactures by 2050 or ssoner. Additionally, they will reduce the net carbon footprint of the energy products they sell by 30% by 2033 and by 65% by 2050.	Shell plans to offset its own emissions by trapping as much carbon as its business operations cause through new <b>carbon</b> <b>capture technologies</b> or through natural solutions such as <b>forestation</b> .	Royal Dutch Shell Pledge	Carbon Brief Resters Barrans Bloomherg Green COBC BBC News Green Tech Media Fortune & Bloomherg IIME			
Energy	2/24/20	2020	Consumers Energy	Consumers Energy announced a goal to achieve net-zero carbon emissions by 2040, the next step in an industry-leading Clean Energy Plan that	"Strategies such as carbon capture and sequestration or large-scale tree planting"	Consumers Energy Pledge	Cision PR Newswire Daily-Energy Insider S&P Global Platts			
Energy	2/12/20	2020	BP	protects the planet for future generations. BP has pidoged to reach met-zero across BP's operations emissions by 2050 or sooner. They also aim to be net-zero on carbon in BP's oil and gas production on an absolute basis by 2050 or sooner. Additionally, see a 50% cut in the carbon intensity of products BP sells by 2050 or sooner.	BP plans to achieve their pledge through CCUS and natural climate solutions.	BP Pledge	Cision			
Energy	12/1/19	2019	Repsol	Repsol announced a commitment to net-zero emissions by 2050 in December 2019. Repsol's commitment is particularly noteworthy because it also covers the emissions released from the oil and gas it sells (i.e., Scope 3 emissions). These emissions argenerally much larger compared to the emissions generated from the company's own operations.	Repsol said it would pursue a number of measures to reach its goals. These include scaling up its renewable energy portfolio, increasing its production of biofuels and chemical products with low-carbon footprints. In addition, the company said it would use carbon capture technologies, reforestation, and natural climate solutions if it was unable	Repsol Piedge				
Energy	9/24/19	2019	NRG Energy	NRG Energy has pledged to have <b>net-zero</b> emissions by 2050.	to reach its goals via other means. NRG Energy has stated that CCS (carbon capture and storage) to achieve their pledge.	NRG Energy Pledge				
Energy	9/17/19		Duke Energy	Duke Energy announced an updated climate strategy with a new goal of <b>net-zero</b> carbon emissions from electric generation by 2050. The company is accelerating its near-term goal by cutting its carbon dioxide emissions by half or more from 2005 levels by 2020.	"Getting to net-zero carbon emissions, while ensuring energy remains reliable and affordable, will require new technologies. That's the very reason we need to act now. We must continue leveraging today's technologies while sustaining investment in innovation for this vision to become reality."	Duke Energy Pledge				
Energy	5/20/19	2019	Xcel Energy	Xcel Energy has committed to having net-zero carbon emissions by 2050.	Xcel is still in the process of determining how it will fulfill its commitment. By 2045, SoCalGas plans to have net-zero energy for 100% of their buildings and all	Xcel Energy				
Energy	3/23/21	2021	Southern California Gas Company	augment with Cantornia state carbon neutrainy goals.	energy for 100% of their buildings and all zero-emission vehicles. By 2030 they inted to reduce fugitive methane emissions by 40%, deliver 20% renewable natural gas, and implement hydrogen pilot projects. They are investing in CCUS and direct air capture technology.	SoCalGas Pledge	CalMatters on SoCalGas Co. Net Zero. Pledge			
Earry	1/13/21	2021	Occidental Petroleum	To implement a Net Zere Earry Cycle which mines the natural onboy cycle by poling CQD- mines the featural on the origin of the policy of the strain indicational scale. This allows permanent strain of CQD approximation in the strain of the the policy of the strain of the strain of the policy of the 2000 intrinse-Occedend a test for 10.8 cm and discussion of the constraints of the strain of the 2001 and GaC limits limitative-Occedend a test of 12 comparises to similar the straints of the lower exclose this initiative- lower enclose the similar test lower exclose finance of the origin of the total of the discussion of the origin the Ciolal Mattime Forum, the Friends of Coom action, and the Weld discussion of the origin of the Ciolal Mattime Forum, the Friends of Coom action, and the Weld discussion of the ciolal Mattime Forum, the Friends of Coom action, and the Weld discussion of the constraints. The Catalians is settors and governments. The Catalians is settors and governments. The Catalians is settor and governments. The Catalians is settor and advernments. The Catalians is settor and advernments. The Catalians is settors and strains and analysis. An arrives the singing is mono-shareholy-occedend is a forwinnereal Database. An advernments highing is strain on shareholy. Catalians is instanticly. The Eiversmental Database is in operations.	This systematic supervises CO2 from the atmosphere via <b>Direct AFC Sprine</b> ( <b>DAC</b> ) or industrial sources. The CO3 is then injected man a producing of and gas respect on the rock and moves it isourcal producing oil and gas will while permanently rapping the CO2 underground.	hann Chaite anns Can Chaitean Steach Chaitean Sann Chaitean Steach Chaitean Sanna Chaitean Ch	tana desena sona att la contrastoria Citazza Manzo Dia seriesta da fina da fina da fina da fina da fina da fina Dia seriesta da fina d			
Energy	8/12/21	2021	ExxonMobil	ExconMobil has launched the Low Carbon Solutions business to invest 33 billion over the next four years on lower-emission lower-emission solutions. The initial focus area is scaling up carbon capture and storage.	It was the first company to capture more than 120 million metric toos (FO2 through CC3, which is capairalent to removing the annual emissions of more than 25 million cars. ExcoMcboli is also conducting early-stage reserved on two additional CCS technologies. One is using a field cell to capture emissions before they are technologies and the start before they are technologies. The start before they are technologies and the start of	ExxonMobil Pledge	Forbes Magazine Article			

Energy	5/27/21	2021	Eni UK	Decarbonisation is structurally embedded in Eni's overall strategy with the new target of Net Zero emissions at 2050. Eni and Progressive Energy Limited have announced the signing of a framework agreement to further accelerate carbon capture and storage (CCS) within the HyNet North West low carbon cluster project.	Under the agreement, Eni will develop and operate both the onshore and offshore transportation and storage of CO2 in their Liverpool Bay assets, whilst Progressive Energy will lead and coordinate the capture and hydrogen aspects of the project on behalf of Hynet North West, thereby linking together the sources of CO2 emissions to Eni's transportation and storage infrastructure.	Eni Pledge	Resters Mazzine Article
Energy	8/15/19	2019	France's Total	Total aspires to become a major player in CCUS technologies, which are vital to achieving carbon neutrality in the second half of the century.	Its membership reflects the center's growing focus on advancing carbon capture, use and storage (CCUS) solutions for natural gas- based power generation. Active in more than 130 countries, Total produces and markets fuels, natural gas and low-carbon electricity.	Total's Piedge	Resters Mazarine Article
Energy	11/11/20	2020	ADNOC (UAE)	ADNOC and Total will jointly explore opportunities to reduce CO2 emissions, improve energy efficiency and use renewable energy for oil and gas operations. ADNOC will act towards its 2050 net-zero ambition alongside its long- standing key partners.	In the area of CCUS, the companies will further develop joint research into new technologies covering carbon capture, storage solutions and enhanced oil recovery projects based on CO2 usage.	ADNOC Pledge	CNBC Next
Energy	8/26/21	2021	China National Petroleum Corporation	CNPC publishes only its Scope 1 and 2 greenhouse gas emissions but aims to peak its carbon emissions by 2025; aims for net-zero status by 2050.	CNPC focuses on carbon capture, utilization, and storage (CCUS) projects and they are banking on hydrogen.	CNPC Pledge	CSIS Analysis of Chinese Organizations
Energy	8/27/21	2021	Linde (Ireland)	Amids an international focus on achieving act acres and carbon emission reduction, inche has set targets to improve efficiency in several acress of its gas production process including its air separation unit (ASUs) after revealing that 13% of its Scope 1 emissions were from ASUs. The company also plans to spend at least a third of its annual R&D baget on dearbonsiation, including the development of "industry-leading" carbon capture technologies.	Initiatives include developing industry- leading carbon capture technologies, investing in provising green hydrogen technologies and driving operational efficiency to further reduce GHG intensity.	Linde Pledge	Ger World Anicks
Energy	11/16/20	2020	Aker Solutions	Aker Solutions aims to generate about half of its revenue from renewable or distinct low carbon solutions by 0200, according to the company's 20/25/30 strategy. The company aims to derive 20 percent of its revenue from networkle energy and 25 percent from distinct low-carbon solutions by the year 2020. Summarized, the update is labelled "20/25/30".	Lower the carbon emissions from their production via electrification while also designing and delivering renewable energy solutions for offshore wind, carbon capture, utilization and storage (CCUS) and other emerging markets.	Aker Solutions Pledge	OE Digital News
Energy	4/4/21(updated 6/4/21)	2021	Drax	The UK needs negative emissions technologies to meet its 2050 net zero target to help combat the global climate crisis. Draz employs bioenergy with carbon capture and storage (BECCS) as the most scalable today to remove CO2 from the atmosphere.	With an effective negative emissions policy and investment framework from government Drax could deploy bioenergy with carbon capture use and storage (BECCS) on two of their bioenass generating units by 2030.	Drax Pledge.	Energy Monitor Al Courage
Eaergy	06/17/2021	2021	TC Energy	TC Eargy has set ambitions greenhouse gas (GRC) missions reaches in gaps including operations 20%) signal and position to achieve area emissions from their operations, on a set deviation provide the set of the set of the planning purpose. The GRI G Emissions Reduction Plan automatic attrages to work acat- generation energy solutions for the future.	To Cando to andheye in enhanced climate traps, including - 40-55 resolution in genehone age emission below 2005 levels by Der CCT VE steaking real at the Comparison of the Comparison of the Penhina and TC Intergy are unaquely positioned to at a levelship relia in the Penhina and TC Intergy are unaquely positioned to at a levelship relia in the enhancement of the block of hyperine infrastructure. As a howed in frastructure solution according to the the the the solution according and solution of the method of the the the solution of the method of the the the solution of the method of the the solution of the the solution according to the solution of the diversification, industry collaboration and a lower enthue future.	TC Energy GHG Emissions, Reduction Plan, World Scale Carbon Transportation and Sequestration Solution	
Energy		2020	PetraChina Co.	Pledged to strive to peak its carbon emissions by 2030 and to achieve "carbon neutrality" by 2060.	Implementing CCUS technology, carbon Sequestration through carbon sink forests totalling 28.6 million square meters, planting 2.811 Million trees. The carbon dioxide flooding demonstration project in Jilin Otifield has accumulated more than 1.9 million tons of carbon dioxide as well.	PetraChina Pledge	п.
Finance	08/30/21	2021	Accelerate Financial Tech- Bitcoin ETF	Accelerate Financial Technologies Inc. plans to launch a carbon-negative Bitcoin exchange-traded fund by planting trees to offset the unfavorable environmental impact of cryptocurrency mining.	Carbon sequestration via planting of trees; pledges to plant 3,450 trees for every C\$1 million (S788,200) invested into its carbon- negative Bitcoin ETF, estimating this will result in the sequestration of about 1,000 tons of carbon dioxide.	Accelerate Pledge	
Finance	05/27/21	2021	Crypto.com	Crypto.com announced an ambitious goal of becoming carbon negative within 18 months.	The second phase will identify the most effective ways to offiset the carbon generated, with the support of accredited organizations specializing in carbon offsetting and sequestration. Hancock Natural Resource Group (HNRG), a	Crypto.com.Pledge	
Finance	May 7th, 2021	2021	Manulife	Manulife is proad to share they are <b>nt</b> , zero in the carbon removals for your advantage over applies mission. So robust advantage overcapting missions. To proce advantage overcapting missions. To proce advantage scope 1 and 2 emissions 35 per cert by 2005. We will alse arises used an endmance of emission renewables in our huiklings to achieve this target	Manufic free-terminet Managemeir computing, criterie visue for togola the stratianshift warm of the strationary of the strationary of the length of the strationary of the strationary of the field of the strationary of the strationary of the managemeir strationary of the strationary of the strationary of the strationary of the strationary of the fractionary and formulated globally — 100% of the point of the strationary of the strationary of the strationary of the strationary of the strationary of the strationary of the strationary of the strationary of the strationary of the strationary of the strationary of the strationary of the stra	Manulife Pledge	The 1 Arean Manufife Will Focus on to Reach Net Zenn by 2059
Finance	05/12/21	2021	ТІАА	TIAA, a leading provider of secure retirements and outcome-focused investment solutions to millines of people and housenads of institutions, has committed to achieving net zero carbon emissions in its General Account by 2080. The supports the flagship TIAA Traditional annuity will significantly reduce the carbon forprint of its investments and halance any remaining emissions with investments that remove carbon.	Nature-based solutions including afforestation, reforestation and sustainable farming will also contribute to achieving net	TIAA Piedge	
Finance	04/21/21	2021	Visa	Vio as i locking broader and longer-term by committing to m4-zero emissions by 2009, a timefirme at least 10 years aband of the Pars Climate Agreement in addition, we're johung Climate Agreement in addition, we're johung Climate Profess, co-founded by Aumzon and Gobalo Optimism. Twy en a sho ar economitting to set Science Based Targets at the 1-5 degree Climate Prisonso-Neuros Agr. Which for Fault ministre to accelerate effects to act-zero. Climate Prisonso-Neuros Agr. Which for Fault ministre to accelerate effects to act-zero. We Kase to Zero and WVF Climate Business thandards and will include working across their used eacht on achieve this goal.	Their narbon offices perifolis includes projects spanning or prographic regions, such as forest preservation in the U.S. and Canada, reformation in Finzal, receivable energy in Turkey and clean cockatores in Indu and Uganda.	Viss Pledge	
Finance	10/9/20	2020	HSBC	HSBC pledged to be met-zero in their own operations and supply chain by 2020, HSBC will target net-zero financed carbon emissions across its entire customer base by 2050 at the latest, and provide between \$750 billion and \$1 million in financing by 2030 to help clients make the transition.	HSBC is still in the process of determining how it will achieve its commitment but plans to help develop a funtioning carbon offset market.	HSBC Pledge	
Finance	9/21/20	2020	Morgan Stanley	Morgan Stanley committed to reaching net-zero financed emissions by 2050. In 2017, Morgan Stanley committed to carbon neutrality across global operations by 2022.	Morgan Stanley is still in the process fo determining how it will fulfill its commitment.	Morgan Stanley Pledge	
Finance	4/21/20	2020	Harvard	Harvard's Endowment will become greenhouse- gas (GHG) neutral by 2050.	This commitment is not the same as fossil- fuel divestment; instead, "carbon neutrality" means reaching a "net zero" carbon footprint through a combination of reducing emissions with investment in technologies that remove carbon from the atmosphere.	Harvard Piedge	
Finance	1/1/2020	2020	Barclays	Barclays has a plan to be <b>net-zero</b> by 2030 in Scope 1 (all direct GHG emissions) and Scope 2 (indirect GHG emissions from the consumption of purchased electricity and heat). They have also set a goal to be net-zero in Scope 3, across all financing activity, in all sectors by 2050.	removal because of uncertainty around it, but notes that adding carbon removal would make the SDS compatible with 1.5C.	Barclays Pledge	
Finance	3/1/2021	2021	Citibank	Citibank plans to have net-zero greenhouse gas emissions by 2050 (full plan to be announced within a year), starting with company operations reductions by 2030 and its lending portfolio by 2050. They plan to have a 45% reduction in greenhouse gas emissions by 2025.	Within their portfolio, Citi plans to incorporate sustainable agriculture and land use to eventually reach carbon removal goals. They intend to make more of their facilities sustainable through renewable energy, assist carbon-intensive groups within their portfolio to build net zero goals, and significantly phase out financing of coal projects. Citi also	<u>Citi Pledge</u>	Cith Environment and Social Policy. Examensati
Finance	2/11/2021	2021	Bank of America	Baak of America intends to be net-zero by 2050 for all operations, supply chain, and financing activities.	aniporo paung a price on carbon. Bank of America supports advancement and financing of carbon capture, use and sequestration technology and seeks to stop financing to most thermal coal companies by 2025. They will only consider refinancing if these plants use CCUS.	Bank of America's Pledge	Environmental and Secial Risk Policy. Transcenze Una Force on Unime related Francial. Discourse

Finance	3/8/2021	2021	Wells Fargo	Wells Fargo will transition to net-zero emissions for all of its financing, and financed emissions, by 2050. While making emission reduction targets and increasing capital towards them, it also atrives to help its clients reduce their emissions. They have set up the limiting for Statianable Finance projects and to assist its clients in there emissions reductions portfolios by 2030.	Wells Fargo has created three "Scope" levels for evaluation of their carbon reduction goals, reviewing: 1) direct greenhouse gas emissions, 2) undirect greenhouse gas emissions, and 3) additional business/travel missions. Notably, they are making changes towards renewable energy usage and investments into carbon neutral research projects. It is also plans to plase out financing of thermal coal projects by 2030.	Wells Farge Pledge	Wells Fargo Newsroom			
Finance	10/6/2020	2020	JP Morgan Chase	JP Morgan Chase intends to be achieve net-zero emissions by 2050.	JP Morgan Chase is commiting to not only be 100% renewable but also be carbon neutral starting in 2020. They have offered to help clients in their portfolio shift towards net-zero goals and are allocating \$200 billion towards green project assistance, as well as \$1 billion in green bond issuance for eligible green projects.	JP Morgan Chase Press. Release	IP Morgan Chase Sustainability Goals			
Food and Beverage	01/15/19	2015	Coca Cola HBC Switzerland	Coca-Cola HBC Switzerland, a vendor that makes block to particular the particular distribution of the host of the second second second second second from the atmosphere. This project to capture COL more is a at major second second second second feedbacks using 10 million tone of COL per year. Carbon capture charge second second second second carbon capture charge second second second feedbacks using 10 million tone of COL per year. Second second second second second second second second second second second second second second second second second second semisians from the earth's atmosphere. A very kely target.	Clineworks is building machines with filtery that use is a carbo discust as air parses through. After a filter becomes starting, it is handle in solver 21 factors and the starting of the anticentry of the starting of the starting of the energy of the starting of the starting of the period for storeal flux of the starting of the Direct Air Capture (DAC). Carbon capture and then deposition for the starting of the starting (CO2) from sources such as fossil fact power phase, transporting in a sudergoard in a discoger than the starting of the starting of the starting of the starting of the starting of the starting of the starting of the starting of the starting of the starting of the starting of the starting of the starting starting of the starting of the starting of the starting starting of the starting of the starting of the starting starting of the starting of the starting of the starting starting of the starting of the starting of the starting starting of the starting of the starting of the starting starting of the starting of the starting of the starting starting starting starting of the starting star	Cosa Cola HBC Switzerland Eledae	Basiness Insider			
Heavy Industry (steel, cement)	4/21/21	2021	United States Steel	United States Steel Corporation (NYSE: X) ("U.S. Steel") today expanded its transformational commitment to sustainability by setting an ambitious goal targeting net-zero carbon emissions by 2050.	To achieve its not-zero goal for 2050, U. S. Steel expects to became its growing fleet of electric are furnaces (EAF) couplet with other technologies and a direct reduced iron, carbon-free energy sources, and carbon- dont-technologies and a direct reduced applice-protect collobaration across industries and global stakeholders to develop suportive invonvitve breakthoreadys, including access to commercially available carbon-neural electricity or comments.	US Steel Piedge				
Heavy Industry (steel, cement)	9/21/20	2020	LafargeHolcim	In our way to becoming a net zero company, we re accelerating gene construction by joining the net zero plodge with science-based targets. Whiling the talk not one commitment, we are: that are validated by the Scence-Based Targets initiative (SBT) Accelerating our reduction in CO2 intensity to exceed 20% (compared to our 2018 baseling) Accelerating our reduction in CO2 intensity to apport the development of the first climate targets for a 1.5°C thurs in the center sceor	Reaching net zero in cement manufacturing which will require the deployment of earborn equirer and usage or storage (CCUS) technologies at scale. The European Commission considers CCUS as one of the seven strategic pillars in their*A clean plane for all "strategy, and the IEA Roadmap Infor the cement sector projects CCUS to begin at scale from 2030 onwards.	Lafargebolcim Pledge				EI
Heavy Industry (steel, cement)	7/1/19	2015	ThyssenKrupp	Germany's largest steelmaker, ThyssenKrupp, announced it would be <b>climate neutral</b> by 2050.	ThyssenKrupp will pursue several measures to achieve carbon neutral steel. These include capturing emissions from steel mills and converting them into useful chemicals, as well as replacing the coal used in the steel production process with hydrogen.	ThyssenKrupp Pledge				
Heavy Industry (steel, cement)	5/13/19	2015	Heidelberg Cement	In addition to setting short-term targets for 2030, t the company said their goal was to realize <b>carbon</b> <b>neutral</b> concrete by "2050 at the latest"	HeidelbergCement will improve its energy efficiency and increase its use of alternative fuels and raw materials. It will also need to continue developing new technologies for CO2 sequestration and use in the cement-	Heidelberg Cement Pledge				
Heavy Industry (steel, cement)	1/1/2016	2016	i SSAB	SSAB is taking the lead in <b>decarbonizing</b> the steel industry. With HYBRIT technology, SSAB aims to be the first steel company in the world to bring fossil-free steel to the market already in 2026. SSAB will be practically fossil free by 2045.	making process. SSAB will cat their CO2 emissions in Svorden by 25% by as early as 2025, through the conversion of the blast furnaces in Oxeksund, Sweden, to an electric arc furnace. Between 2030-2040, they plan to convert the blast furnaces in Lukd, Sweden and Ranhe, Finland to climinate most of the remaining CO2 emissions.	SSAB Pledge				
Hospitality	9/22/21	2021	Marriot	Marriott International, Inc announced it has submitted its letter to the Science Based Targets minitarive, committing to: Set science-Based Inter with 1.5°C emissions scenarios, and Set a fune with 1.5°C emissions scenarios, and Set a fung the science and the science of the science of no later than 2500 in line with the criteria and no later than 2500 in line with the criteria and minitarive.	Planting more than 415,000 trees over the last several years, including through the company's work as a founding member of the Vereyrener Allinaer, a select group of Arbor Day Foundation pattners and collaborators committed to advanting trees and forests as natural solutions for corporate sustainability and critizenship gonds. Innovative ecosystem restoration and carbon sequestration projects, such as working with The Cheen Foundation to remove and repurpose sargusane seaveed, which has had	Marriot Pledge	USA Today. Coverage			
Insurance	2/20/20	2020	Swiss Re	Swiss Re committed to achieving <b>net-zero</b> emissions in their operations by 2030.	devasting impacts on the environment. Their motio is "Do our best, remove the rest." They are setting an internal carbon levy of USD 100 to USD 200 per ton of CO2 on both direct and indirect carbon emissions. They will use the money levied on unavoided emissions to buy carbon removal perioficates which will invest in carbon removal projects.	Swiss Re Pledge				
Logistics		2020	Brambles	1025 Business Positive targets: "Our commitment is to be nature positive by restoring foreits, going Beyond zero waste, and drawing down meet carton than we produce, unaverage business; and the state of the state of the state of the state of the state of the state "Brandbes commits to a 1.3°C climate future "Brandbes commits to a 1.3°C climate future including a Pars Agreement aligned cathon including a Agreement aligned cathon including a Agreement aligned cathon including a Agreement aligned cathon the state of the state of the state of the state state of the state of the state of the state of the state state of the state of the state of the state of the state state of the state of the state of the state of the state state of the state of the state of the state of the state of the state state of the state	According to their pledge, they will" enable the sustainable growth of two trees for every tree (hey) use." They plan to use reforestation and afforistation to plant 66,944 trees in 2022.	Brambles Pledge	1			EI
Manufacturing	9/3/20	2020	Velux	Velux committed to becoming liftime carbon neutral by 2041. This means capturing their historic emissions since 1941 and reducing future emissions. They have also pledged to be carbon neutral in operations (scope 1 and 2) and cut value chain emissions (scope 3) by 50% by 2030.	Velux has partnered with WWF to invest in forest conservation projects that will remove their historic carbon emissions (5.6 million tons).	<u>Velux Pledge</u>				
Manufacturing	9/24/19	2015	Saint-Gokain	Saint-Gohain commits inclif to reach not-zero emissions by no later than 2050.	Sent Gebin designs, produces and distribution solutions in to combust themselves to the reduction of CO2 emissions, including thermal instantion wholes and a promote energy differency. It is a set of the set o	Saint-Gobain Plotge				
Manufacturing	1/28/21	2021	General Motors	General Motors plans to be carbon neutral by 2040 for its global products and operations.	CML series notatility plans come from its describinization portfolio, addressing this by sourcing 100% scnewable power for all US- based locations by 2020 and globally by 2035. They plan to invest in carbon credits or offsets that are "efficient, equitable and inclusive". Additionally, they will further their electric vehicle output and provide increased amounts of charging stations, notably encouraged to be run by nenewable	General Motors Pledge				
Non-energy utilities	11/12/2020	2020	United Utilities	As part of their April 2019 Public Interest Commitmeet (PPC), English water compared methods and the second second second second second methods and the second second second second second Utilities has a joined forces with the rest of the water industry to second second second second gener values and the second second second second gener values and the methods pathon for the end in fielded at the methods pathon for the Reatmeng is 20 years also ald for the UK Recomment yours have ald for the UK Recomment your have also pathon to get an antific industry years to set create.	contray. (1,00) bectures of peat long restoration will be complexed by 2003, and more than 1 million complexed by 2003, and more than 1 million complexed by 2003, and the complexed by 2004 complexed that the limits of the other minorescer in using a complexed by 2004 Case Study from Climate Piedge: "Rivingion in Lancaubine is the sile of a pildet "Rivingion in Lancaubine" is the sile of a pildet (2000 access wave periodic in Oxedow Case) 2000 access wave periodic in Oxedow Case, and they will help Chinel Ultities to more that target of planting more than 1 million new trees by 2003.	L'inted Utilities Pledge				EI
Pharmaceutical/ Chemical	1/23/20	2020	AstraZeneca	Within this decade, AstraZeneca plans to remove more carbon from the atmosphere than its 65,000 employees and entire value chain add to it to become <b>carbon negative</b> across its business by 2030.	This carbon negative pledge will be realized through 'AZ Forest', a 50-million tree reforestation initiative that will be rolled out from 2020-2025	AstraZeneca Pledge				
Pharmaceutical/ Chemical	03/01/2022	2021	Bayer AG	Race to Zero: Net Zero 2050 - Commit to achieve net zero CO2 emissions by 2050	Bayer has noted nature-based removals including forestation, soil carbon enhancement in their piedge. "We strongly encourage public and private sector investments in innovations that support sustainable internification of food production and advocate for policies and foreir nurket mechanism that enable such innovations to provide opportunities for ecosystem diversity improvements and earbon removals due to the reduced land footprint of agriculture."	Bayer Pledge				EI

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Power and Gas		2020	General Electric	In 2020, GE set a new goal of carbon neutrality by 2020 for GE's operations (Scope I and 2 emissions). There progress towards that arway goal will generate a moningful reduction in emissions, although models of the set of the set of the set of the models of the set of the set of the set of the broader value chains in our industries to meet the Parts Agreement's goals.	Over the long term, to achieve the levels of decarbonization that he industries flarsy serve will need to align with the goals that additional breakthroughs and advances will be needed to develop deep decarbonizations oblicions that are widely available, scalable, and affectable deep decarbonizations oblicions that are widely available, scalable, and affectable deep decarbonizations columns, that are widely available, scalable, and single modular nuclear reactors for power generation; decire (tight and by appearing the scalable) and station; direct approx. and other technologies.					
Real Estate	2/10/2021	2021	Active Super Australia	Aims to take our fight for the environment even further by advocating for all building stock to be net-zero by 2050. Expects the companies that they invest in to take progressive climate action as well so that they produce <b>net-zero carbon emissions</b> across the board, even through their investment portfolio.	Other than the pledge, little has been written about the strategies to make net-zero happen	Active Super Pledge	WGBC Active Super			
Real Estate	5/4/2021	2021	AMP Capital	AMP Capital has signed a score system researched force Parchase Agreement (PRA) with Diamond Earney. This agreement present with the particular present present agreement present and the particular agreement of the particular present and the particular agreement of the particular present and the particular of a number of initiatives to wards achieving Zoor of a number of initiatives to wards achieving Zoor for Carbon across AMP Capital's active S38 billion of managed real scate previous S38 billion of thest, numing on 100% searces by particular previous of Soor P and 2 anony of soail fuely, managed real scate previous and realistic Threshouse of Soor P and 2 anony methy statements of Soor P and 2 anony methy sta	A sechadogical breakfrough – possibly carbor capture and storage, clean successor transmission grids that are able to run fully on transmission contribute to infrare reduction in carbon intensity for AMP Capital	AMP Capital Managed Portfolio Pledge, Mention of Portonial CDR	AMP Capital Pledge Amouncement			
Real Estate	4/20/2021	2021	Antilooppi	Last year the company signed the Net Zero Carbon Buildings Commitment for the global real estate sector and committed to achieving carbon neutrality for its own energy procurement by 2030.	Other than the pledge, little has been written about the strategies to make net-zero happen	Antilooppi Pledge	WGBC Antilooppi Coverage			
Real Extate	10/5/2020	2020	Argent Services LLP	Commits to all eccepted assets operating as net rene earboy by 200 Argent Services measures rene earboy by 200 Argent Services measures and disclosen publicity vu UK Standent Energy and Carlone Repertuing (SUCR) requirements. Argent Services outlines as & Coubientiation proceedings of the electricity, appended by as an energy efficiency programme fold by a Smart proceeding and electricity, appended by an energy efficiency programme fold by a Smart with as SUCR reprinting process that will be understated by an independent third party. Argent the UKAICC and demonstrating best practice 2020	Other than the pledge, little has been written about the strategies to make net-zero happen	Arrent Services Pledge on, WGBC	Argent Services Press Release			
Real Estate	6/6/2020	2020	Arthaland Corporation	Arthaland commits to design, ones and operate new and existing commercial developments at net zere earlow by 2010, with existential development net: zero ready. Arthaland discloses projected and operational energy due total and story leaves 2 and the energy due total and story leaves 2 and the protection of the story leaves 2 and the Arthaland ensures residential developments and a story in a story leaves 2 and position leaved.	Other than the pledge, little has been written about the strategies to make net-zero happen	Arthaland Picdee	HDC Coverage on Arthaland Piedee			
Real Estate	6/10/2021	2021	Assura	Assure plotters to share their development process to the J202A. Assure will be creating only kulkings with a set zero area traine frame plotters and the set of the	Other than the pledge, little has been written about the strategies to make net-zero happen	Amer Picke	Assers Net Zern Carbon Strategy, Coverage			
Red Meat, Pork, Poultry & Dairy		2018	Crave Brothers Farmstead Cheese	Once Booders Fam is producing nove televisity data their operation one— speciality in a carbon negative way— and they're doing it by catting down on wate.	One compared controlled asserbits diagnitism system generalise control and becretivity to prove homes, control and the second system of the second system of the system provides control and the system of the system is a present which includely produce and the system of the system of the system of the distant parks, the spectra of the system of the distant parks, the spectra of the system of the provides control and the system of the system of the system of the system of the system of the system of the system of the system of the general system of the system	Crave Brothers Farm Piedee				
Red Ment, Pork, Poultry & Dairy	06/09/21	2021	Tyson	To achieve net-zero greenhouse gas (GHG) emissions across its global operations and supply chain by 2050, including scopes 1, 2 and 3.	Completing initial land stewardship target of engaging 2 MILLION FEED ACRES and expanding the total acres by 2025, including a total target of 100% of feed purchased by 2030. ***Land stewardship is not clearly defined	Tyson Pledge	Reuters			
Red Ment, Pork, Poultry & Dairy	03/23/21	2021	JBS Foods	JBS has made a commitment to achieve net-zero greenhouse gas (GHC) emissions by 380. The commitment quark to compare y about (Nandag PC), as well as in diverse value chan (Nandag PC), as well as in diverse value chan di quicicharal podece patteres, supplement artes the value chan.	Finimating deforestation: 105 will climitate liqed Ansex deforestation from its apply cham – including the suppliers of it appliers – by 2023, and in other fitzazian bonnes by 2020. The company will achieve represent the supplication of the supplication of the will invest \$100 million by 2020 in research and development projects to assist produce efforts to trongthen and scale regreative farms in through the supplication of the supplica- tion of the supplication of the supplication of the superstraints and on-farm emission across the value chain, in our efforts toward net zero.	IBS Pledge				
Retail	09/14	2021	Procter & Gamble	The company plant in whiteven it zeros in preventions gat emissions terrors in company of and supply chain by 2040. P&CA has been vorting tashes Sope 1 (duret emissions from its factories and officers) and Sope 2 (emissions caused by the pactered emissions from the P&CA facilities). P&G plants to work towards Sope 3, but it is more challenging.	PAG will explore impedients made from explore their carbon explore the start-up, to explore their carbon explore its chandlesy to explore their carbon explore its chandlesy to explore their carbon explore its chandlesy to improve the start of the start of the start PAG emphasized that it has committed to 'too deforestation in our supply chain' and said all of the wood pulp used in its toolet paper, of their complexity and in this tool paper, is 100% that party sustainably certified by forestry amagement standards. "These standards help ensure that for every the harvested; at last one is regrown,"					
Retail Retail	06/29		Giant Eagle Ralph Lauren	A commitment to achieve end zero carbon emission by 2000, with an initial target of 50 percent carbon docude reduction by 2010. Net zero global groenhouse gas (GHG) emissions from its operations and its value chain by 2040.	Investments into negative emission technologies which include erabor appre- ent electronic and the induced rabor appre- tion of the enterthank and the electronic and the induced rabor and the electronic and the induced rabor and the electronic and the induced rabor and the electronic and the predication in the electronic and the electronic predication is not and the electronic and the predication is not and the electronic measures and a support formers in adopting new bedicial forming metacles: measure and the electronic and the electronic and the electronic and the electronic and the electronic and the electronic and the electronic and the additional electronic and the electronic and the electronic and the electronic and the additional electronic and the electronic and the electronic and additional electronic and the electronic and the electronic and additional electronic and the electronic and the electronic and additional electronic and additional electronic and additional electronic and additional electronic and additional electronic and additional electronic and additional electronic and additional electronic and additional electronic and additional electronic additional electronic and additional electronic and additional electronic additional electronic additionad elect	Giant Engle Piedge Ralph Lauren Piedge				EI

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Retail	06/08	2021	HEXO Corp	Hexo is offsetting the company's operational emissions to become 100% carbon neutral starting September 2021.	Through a partnership with Offsetters, in support of the Great Baar Forest Project, HEXO will be measuring and offsetting the Company's corporate carbon emissions starting with its 2020 calendar year, making HEXO 100% carbon neutral by September 2021, as well as offsetting their employees' personal emissions*.	HEXO Pledge	GlobeNewswire			
Retail	05/21	2021	Whirlpool	Whirlpool Corporation made a global commitment to reach a <b>net-zero</b> emissions target in its plants and operations by 2030	Leveraging carbon removal development investments to offset any remaining emissions that cannot be avoided. ***Specifications around these investments are unclear	Whirlpool Pledge	Grand Rapids Business Journal			
Retail		2000	) Shaklee	In 2000 Shaklee became the first company in the world to obtain Climate Neutral certification and totally offset its greenhouse gas emissions, resulting in a <b>net zero</b> impact on the environment.	2021 'Our commitment to the planet started decades ago, including our pattership with the 2004 Node Pacee Prire laureate D r. Wangari Maathai, to plant one million trees. From how we source our ingredients to how we run the company, we always put people and our planet first, and we are excited to be celebrating this 65-year milestone with our 10 Versn pledge."	Shaklee Pledge				
Retail	04/22	2021	Ancient Nutrition	Superfoods supplement purveyor Ancient Nutrition has launched a plan to make the brand <b>carbon negative by 2024</b> by planting a million trees and pursuing other regenerative practices on land the company owns in Missouri and	Million Trees in 10 Years pledge." Become carbon Negative through regenerative agriculture initiatives, plant one million food bearing trees	Ancient Nutrition Pledge				
Retail	04/22	2021	Klarna	Tennessee. Klama is committed to reduce its emissions by 50% by 2030 and make annual financial	Klama will make annual financial contributions to high-impact climate projects, including carbon removal, blue carbon	Klama Pledge				
				contributions to high-impact climate projects FedEx Corp. (NYSE: FDX), home of the world's largest cargo airline, announced today an	initiatives, reforestation and forest protection and emission reduction projects. This includes a pledge of \$100 million to					
Retail	03/03	2021	FedEx	ambitious goal to achieve carbon-neutral operations globally by 2040. To help reach this goal, FedEx is designating more than \$2 billion of initial investment in three key areas: vehicle electrification, sustainable energy, and carbon sequestration.	Yale University to help establish the Yale Center for Natural Carbon Capture, accelerating research into methods of carbon sequestration at scale, with an initial focus on helping to offset greenhouse gas emissions equivalent to current airline emissions.	FedEx Plodge				
Retail	06/20	2020	Prima	Prima is 100% carbon neutral across the entire operations and supply chain, and is proad to be certified as such by Climate Neutral Certified. The certification validates that they measure, reduce and offset their entire carbon footprint (and then some) as a company	Beyond Carbon Neutral: As a business, we are certified carbon neutral by Climante Neutral across all 3 scopes of corporate operations (corportate, production, supply chain, shipping by offsetting 100% of our activities and more through Carbon Fund, which invests in verified reforestation projects.	Prima Pledge				
Retail	4/16/21	2021	Cacto	CACTO is proud to be the first Carbon Negative fashion brand in the Americas. Meaning that our business operation results in CO2 being captured from the environment. We are removing CO2 from the environment with every item we produce and sell.	Through a partnership with Swiss nonprofit organization On A Mission, we have measured and offset 150% of the compary's total CO2 emissions through sustainable reforestation worldwide. To make sure the measurement and offsetting process remains accurate, it will take place every six months for the next 10 years. Furthermore, the company aims to offset at least 1000% of the emissions it agreements by the end of 2021.	Cacto Pledge	Fashion United			
Retail	9/21/20	2020	Walmart	Walmart committed to zero emissions from its global operations (scope 1 and 2 emissions which make up only 5% of its total emissions) by 2040. They will do this without carbon offsets by electrifying and eliminating emissions from all its vehicles, switching to 100% remeable energy, and transitioning to low-impact refrigerants for cooling and electrified equipment for heating.	common a gardenic by the clin of obstri- legation of the second second second second second second committed to "help protect, manage or restore at least 50 million acres of land and one million square miles of ocean by 2030 to help combat the cascading loss of nature threatening the planet."	Walmart Pledge				
Retail	4/6/21	2021	Indigo	Indigo's goal is to have <b>net-zero emissions by</b> 2035. To help them on this journey, Indigo is partnering with the Delphi Group, a leading firm that specializes in corporate sustainability, elimate change, the green economy, and cleantech innovation	Indigo is partnering with One Tree Planted, a non-profit tree-planting charity that will help us reach our goal of planting 100,000 trees across Canada in 2021.	Indigo Pledge	Yahoo!			
Retail	3/30/21	2021	Netflix	Netflix will achieve <b>net zero</b> greenhouse gas emissions by the end of 2022, and every year thereafter. The plan is called Net Zero + Nature	Conserving at-trisk natural areas like tropical forests & incorporate investment in the regeneration of critical natural ecosystems to achieve net zero. These projects, such as restoring grassiands, mangroves, and healthy soils, capture and store carbon, in addition to other benefits.	Netflix Pledge.				
Retail	9/17/20	2020	Nespresso	Nespresso today commits that every cup of Nespresso coffee, both for at-home and for professional constrainers, will be carbon neutral by 2022. This new ambients builds on more than 10 related in a corbon emission, and compensated the remainder through <b>agreforestry</b> .	Planting trees in coffee farms and the surrounding landscapes (insetting): Trees are the best way to capture carbon from the atmosphere while investing in nature and building a regenerative agricultural distribution of the capture of the capture of ac coffee harvest. The roots also help protect against soil resonant and landsiddes and promote soil regeneration. With its partner of planting trees (with insetting) in coffee producing countries such as Colombia, Guardenal, Erkön and Costa Reiz.	Negresso Pledge				
Retail	9/3/20	2020	Velux	Velux committed to becoming liftime carbon neutral by 2041. This means capturing their historic emissions since 1941 and reducing future emissions. They have also pledged to be carbon neutral in operations (score) 1 and 2) and cut value chain emissions (score) 3 by 50% by 2030.	Velux has partnered with WWF to invest in forest conservation projects	Volux Pledge				
Retail	8/24/20	2020	BrewDog	BrewDog has become carbon negative. "From 22 August 2020 we will remove twice as much carbon from the air each year as we emit."	Natural removal: Purchased 2,050 acres of land in Scotland to plant the BrewDog Forest • over a million trees planted and peatland restoration by 2022. In the interim, partnering with a couple organizations to fund natural carbon removal projects.	BrewDog Plan				
Retail	3/3/20	2020	Organic	Horizon Organic announced a commitment to become carbon positive by 2025. Horizon Organic's goal is to be the first national dairy organic's goal is to be the first national dairy brand to become carbon positive across its full supply chain. Horizon Organic will achieve carbon neutrality, and then go even further, to remove, reduce and offset additional emissions from entering the atmosphere, becoming carbon positive.	Horizon's carbon positive pledge will be fulfilled using regrative agricultare, soil sequesteration, scioning pariai bands and forestlands, and evaluating and pursuing new technology	Horizon Organic Pledge				
Retail	1/30/20	2020	3Degrees	Part of pledge taken by over 500 B Corps – including 3Degrees – to get to Net-Zero by 2030 , announced in December at the UN Climate Change Conference COP25	Other than the pledge, little has been written about the strategies to make net-zero happen	3Degrees Pledge				
Retail	1/21/20		Starbucks	Starbucks has committed to being <b>resource</b> <b>positive</b> — storing more carbon than they emit, eliminating waste, and providing more clean freshwater than thye use. Unilever has pledged to be <b>Net-zero</b> emissions by	"Invest in innovative and regenerative agricultural practices, reforestation, forest conservation and water replenishment in our supply chain." Unilever's pledge aligns with a coalition of	Starbucks Pledge				
Retail Retail	12/11/19		Body Shop	2050 Part of pledge taken by over 500 B Corps – including Body Shop – to get to <b>Net Zero</b> by 2030, announced in December at the UN Climate	Other than the pledge, little has been written about the strategies to make net-zero happen	Unilever Pledge Body Shop Pledge				
Retail	12/11/19	2019	Allbirds	Change Conference COP25 Part of pledge taken by over 500 B Corps – including Allbirds – to get to Net Zero by 2030, announced in December at the UN Climate	Other than the pledge, little has been written about the strategies to make net-zero happen	Allbirds Pledge				
Retail	12/11/19	2019	Dr. Bronner's	Change Conference COP25 Part of pledge taken by over 500 B Corps – including Dr. Bronners – to get to Net Zero by 2030, announced in December at the UN Climate Change Conference COP25	Other than the pledge, little has been written about the strategies to make net-zero happen	Dr. Bronners Pledge				
Retail	9/12/19	2019	Nestle	Change Conference COP25 Nestle has committed to having net-zero carbon emissions by 2050.	Produce more environmentally friendly products, use 100% renewable electricity in its operation, and scale up initiatives in agriculture to absorb more carbon. Nestle will wring their its program with farmers to the strengthen its program with farmers of emissions. This includes improved management of its day supply chain. Nestle will step up efforts to protect freests by replaning trees and enhancing biodiversity. All of these initiatives will help build realisent agricultural communities.	Nestle Piedge				
Retail	9/1/19	2019	Amazon	Under Amazon's Climate Pledge, they committed to the goal of reaching net-zero carbon emissions by 2040, and proinsed to measure and report the company's emissions on a regular basis.	Amazon is haunching the Right Now Climate Fund, committing \$100 million to restore and protect forests, wetlands, and peatlands around the world in partnership with The Nature Conservancy. The Right Now Climate Fund will help remove millions of metric tons of carbon from the atmosphere over the lifetime of the project	Amazon Piedge				
Retail	11/30/18	2018	Ikea	2018, IKEA, the world's largest furniture retailer, announced it would be <b>carbon negative</b> by 2030.	Ikea's parent company is investing an additional €200m in green energy and forest planting as part of a plan by the world's largest furniture retailer to become carbon neutral by 2030.	<u>Ikca Pledge</u>				
Retail		2020	Ralph Lauren	Race to Zero: Net Zero 2050 - Commit to achieve net zero CO2 emissions by 2050	Yes (nature-based and CCS-based removals), For their remaining electricity use, they plan to purchase high-quality green electricity credits, such as renewable energy certificates.	Ralph Lauren Piedge				EI
Shipping	6/12/2021	2021	Stena Bulk	Stena Balk offers a roadmap with a target to become net-zero by 2050.	Fuel-switching, including to hydrogen and methanol, which could be produced from biocarbon or DAC.	Stena Bulk Pledge	Climate Action News			
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Tech	09/22/21	2021	Expensify	Expensify commits to becoming <b>Net Zero by</b> <b>2030</b> by adjusting their Climate Program to focus on carbon removal.	To meaningfully offset its carbon footprint, Expensify is supporting Brazil Nut Concessions, which creates reforestation and protects bodiversity on 500,000 acres in the Provisan Amazon. The future Climate Program plans: include coming up with a meaningful carbon refaction plan, additional carbon offsets, and removal to cover supply chain emissions. They commit to becoming	Expensify's Pledge				
Tech	09/02/21	2021	Logitech	Logitech have accelerated their Climate Action Strategy to become Carbon Neutral Logitech (scope 1, 2 and 3) in 2021 and adopt a Climate Positive Approach to deliver Net Zero by 2030 and Climate Positive Approached.	Net Zero by 2030 by adjusting their Climate Becoming carbon neutral this year is a first step towards their much bigger goal of becoming climate positive. To help them remove more carbon than they emit, they are restoring natural environments and climate- impacted commanities with our investments in forestry conservation and livelihood projects, as well as projects that shift the grid to renewables. Going further still, they are	Logitech Pledge				
Tech	04/22/21	2021	Algorand	Algorand Network commits to being Carbon Neutral In fact, we're going <b>Carbon</b> <b>Negative!</b>	also investing in carbon contract projects to "Investing our carbon offer plan with Climate Inde, we are committing to always being abaced of the offset requirement of our growing network and will take more carbon out of the air than created by our energy footprint." **The Method of Carbon Removal through offsets is not publicly available information through Climate Trade	Algorand Piedge				
Tech	2021	2021	LinkedIn	LinkedIn socks to be carbon-neutral by 2030 and account for all of its historical emissions through carbon removal by 2030 (in line with its parent company, Microsoft).	LinkedIn tracks the carbon emissions from their global operations, including offices, data and report with Microsoft through the Carbon Disclosure Project. They have implemented an internal carbon fee, and are raising the fee to cover Scope 3 emissions. They invest in high quality carbon offsets for the emissions that they do produce, funding critical work in reforstation. REDDD - forest precervation. and	LinkedIn Pledge				
Tech	11/20/20	2020	GlaxoSmithKline	Net zero emissions across all operations by 2030	The company be turning to responsible and high-quality carbon removal solutions. They are committed to their role in the transition to a net zero carbon economy and GSK will aim to use removals for less than 20% of their footprint. As they continue to decarbonize their operations and supply chain, they will be partnering with cogninations with expertise in carbon removal solutions who will help then shape and deliver their approach.	GSK Pledge				
Tech	9/1/20	2020	Facebook	Facebook is committed to helping solve the climate crisis and is aligning our program with the latest science on what is necessary to transition to a zero carbon future. We will be helping to scale existing technology and the development of new	Facebook's approach to carbon removal builds on carbon credit purchases of more than 100,000 metric tons in 2019 from projects such as forest conservation. Moving forward, they will support carbon removal	Facebook Pledge	Full net-zero commitment			
Tech	8/15/19	8/15/19	Stripe	continuon, that avail contex-arrowshames one (JML) in order to have Negative Emissions, Strippe committed to pay, at any available price, for the direct removal of carbon dioxide from the atmosphere and its sequestration in secure, long- term storage. Strippe announced the Negative Emissions Commitment, pledging at least S1M per year to pay, at any price, for the direct removal of carbon dioxide from the atmosphere and its sequestration in secure non-term storage.	protects: datating with admittable collidion: Fund forestation initiatives, soil management reform, enhanced weathering, and direct- air capture. In May 2020, Stripe announced their first four purchases: Climeworks, Project Vesta, CarbonCure, and Charm Industrial	Stripe Pledge Stripe's First NETs Purchases				
Tech	7/21/20	2020	Apple	Commits to be 100% carbon notiral for its supply chain and products by 2010. Is already carbon neutral for operations. "Apple details in plants relace emissions by 25 precess by 2000 while for the remaining 25 percent of its comprehensive footprint."	Named solutions: "Carbon enrowed Apple a investigin in forsta suit of hor nature-based solutions around the world to remove carbon from the strong-low type, in announcing the investigation of the solution of the solution in worse in the restoration and protection of forsters and natural cocyssems globally, in particularly will Cancer varians in program (application) and the solution of the solution of the solution of the solution of the solution of conservators in the thread solution of the solution of one of the solution of the solution of the solution of one of the solution of the solution of the solution of one of the solution of the solution of the solution of one of the solution of the solution of the solution of the solution of one of the solution of the solution of the solution of the solution of one of the solution of the solution of the solution of the solution of one of the solution of t	Arels Pioles				
Tech	1/16/20	2020	Microsoft	Microsoft has pledgd to be <b>carbon negative</b> by 2030. By 2050 Microsoft will remove from the environment all the carbon the company has emitted either directly or by electrical consumption since it was founded in 1975. Using its 2018 carbon footorinit metric as a	Reforestation, soil carbon sequestration, and new carbon capture technologies	Microsoft Pledge				
Tech	9/23/19	2019	Intuit	baseline, Intuit committed to reducing carbon emissions by 50 times greater than its current carbon footprint, making them <b>carbon negative</b> by 2030.	Through a partnership with Project Drawdown's Drawdown Labs	Intuit Pledge				
Tech	9/23/19	2019	Atlassian	As part of their commitment to combat climate change, Atlassian will run their operations on 100 percent renewable energy by 2025. They also set science-based targets to limit warming to 1.5°C and achieve <b>net-zero</b> emissions by no later than 2050.	Company states that going accomplishing net- zero requires decarbonization of the business rather than simply offsetting their emissions	Atlassian Pledge				
Tech	9/12/19	2019	Shopify	In addition to being carbon neutral, Shopify has started the Shopify Sustainability Fund which will bouss all environmental investments, including carbon sequestration. Through this, they commit to spending at least \$5 million USD annually to fight for the environment.	Shopify is committed to investing at least \$1 million USD each year into <b>carbon</b> sequestration.	Shopify Pledge				
Tech	10/1/18	2018	BT Group	BT Group is committed to being a <b>net-zero</b> carbon emissions business by 2045.	While they have committed to being a net- zero business by 2045, the mecanisms they plan to use to do so are not outlined.	BT Pledge				
Tech	4/17/17	2017	Salesforce	Committed to being <b>net-zero in 2017</b> . Is now a net-zero company.	Through offsets and reforestation. "The carbon offset projects we have chosen create both economic opportunity and positive environmental impact to make a difference in the future of our planet and communities around the world."	Salesforce Pledge				
Tech	09/21/20	2020	Geogle	Geogle has been carbon neutral since 2007, but is striving to be absolutify carbon free by 2059.	Google purchases offsets and has a series of reforesting patternships to account for its cardom emission. Ital solo parties completely cities begin removing 1 giptate of carbon annually starting in 2020.	Gaugic Plotys:				
Tech	04/12/21	2021	Wipro LTD	The energy industry is focused in three avenues for achieving net zero one of which being: Recycle and store carbon dioxide produced during power generation or industrial processes by using it in products, storing or reinjecting (CCS).	One of the practical ways to achieve near net zero emissions is to adopt technologies that remove carboo by sequestering carbon into noncombustible products like plastics or by capturing and injecting carbon into the reservoirs with CCUS or using carbon dioxide for EOR methods. Philip Morris circles "reforstation" and "soil	Wipro LTD Pledge	Basiness Insider			
Tobacco		2020	Philip Morris International	Achievement of carbon neutrality of PMI's direct operations by 2010. Achievement of carbon neutrality for PMI's value chain by 2059.	Philip Morra: cells: "reforestations" and "soul carbon enderscore," a first is no main enderscore and the second of the reducing the emissions in their operations that using CRMs becomes carbon neutral. According to their website, "Our aim is to compensite anworldble emissions via credits generated through in-seiting projects, generated through in-seiting projects, carbon entroval technologies. Baused on our new carbon levy, we are setting up a portfolio of climate investments (resulting in carbon credits generation or acquisition) for carbon compensition."	PMI Plotge				EI

Wests 6				Viridor has pldeged that ahead of COP26 in	Capturing and storing carbon emissions from		
Waste & Recycling	5/20/21	2021	Viridor	Viridor has pldeged that ahead of COP26 in November, they have a commitment to reach <b>net</b> zero greenhouse gas emissions by 2040, 10 years ahead of the Government's legal target of 2050	strategic sites – by 2040 installing CCUS infrastructure to capture at least 1.6MTCO2 every year	Viridor Pledge	

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