



Climate Engineering Newsletter for Week 41 of 2021



Upcoming Events

- [12.-14.10.2021](#), Event: CCUS 2021, online
- [12.10.2021](#), Event: The Race to Scale Supply: 5th Puro.earth Carbon Removal Ecosystem Meeting, online
- [12.10.2021](#), Event: ChBE Seminar: Negative Emissions Technologies - the Probability of Direct Air Capture (Department of Mechanical Engineering, University of Maryland), College Park/ Maryland/ US
- [12.10.2021](#), Webinar: The Potential of Artificial Ocean Upwelling and Downwelling in CDR (Institute for Carbon Removal Law and Policy), online
- (new) [12.10.2021](#), Event: Nature-Based Solutions: How to Avoid Land Grabbing in the Name of Biodiversity? (Fern), Brussels
- (new) [14.10.2021](#), Online Event: OpenAir Teach-In: The Carbon Dioxide Removal Leadership Act, online
- [18.-22.10.2021](#), Event: IMBIZO 6: Marine Biosphere Research: Buoyant Solutions for Ocean Sustainability, online
- [19.-21.10.2021](#), Conference: PCCC-6, online
- [20.-21.10.2021](#), Conference: Carbon Capture Technology Expo Europe, Bremen / Germany
- [20.-21.10.2021](#), Conference: Hydrogen Technology Expo Europe, Bremen / Germany
- (new) [21.10.2021](#), Online Event: Year 1 Cohort Showcase (Carbon to Value Initiative), online
- (new) [25.-28.10.2021](#), Event: VERGE 21: The Climate Tech Event, online
- [26.10.2021](#), Webinar: Carbon Removal and More: What Lies Ahead for these Climate Solutions? (West Virginia Center on Climate Change), online
- [01.-12.11.2021](#), Conference: COP26, Glasgow / UK
- [04.-07.11.2021](#), Conference: Negative Emissions Science (scialog), AZ / USA
- [04.-05.11.2021](#), Event: The Annual Meeting of Finnish Geographers 2021, Oulu/ Finland
- [09.12.2021](#), Event: "Mapping the Carbon Removal Community of Practice" AGU 6-hour scientific workshop, online
- [13.-17.12.2021](#), Conference: AGU Fall Meeting 2021, New Orleans, LA / USA & online
- [14.-17.06.2022](#), Event: 2nd International Conference on Negative CO2 Emissions, Gothenburg/ Sweden
- [23.-27.10.2022](#), Event: 16th Greenhouse Gas Control Technologies Conference, Lyon/ France



Calls & Deadlines

- [12.10.2021](#), Call for Submissions: Shopify's Sustainability Fund
- [18.10.2021](#), Call for Applications: FY 2022 Notice of Funding Opportunity
- [31.10.2021](#), Call for Papers: Frontiers: Research Topic: Harmonizing Life Cycle Analysis (LCA) and Techno-Economic Analysis (TEA) guidelines
- [09.01.2022](#), Call for Abstracts: 16th Greenhouse Gas Control Technologies Conference
- [31.07.2022](#), Call for Submissions: Special Issue "Resolving uncertainties in solar geoengineering through multi-model and large-ensemble simulations" (ACP/ESD inter-journal SI)

- [No Deadline](#), Call for Proposals: Climate Vault Request for Information (RFI)
- [No Deadline](#), Call for Submissions: Stripe Climate: Fall 2021 Carbon Removal Purchase



Jobs

- [\(new\) 12.10.2021](#), Job: Graphics Communications Designer (m/f/d) for research and transfer project (LMU)
- [\(new\) 12.10.2021](#), Job: Public Relations Officer (m/f/d) for research and transfer project
- [\(new\) 12.10.2021](#), Job: Project Manager (m/f/d) for Knowledge Transfer (LMU)
- [\(new\) 12.10.2021](#), Job: Scientific researcher (m/f/d) modeling and assessing terrestrial Carbon Dioxide Removal approaches (LMU)
- [\(new\) 12.10.2021](#), Job: Program Manager (m/f/d) for Carbon Dioxide Removal project (LMU)
- [17.10.2021](#), Job: Postdoc (m/f/d) in assessment of climate forcing impact of Carbon Dioxide Removal measures using IAM data and Earth system modelling (Geomar)
- [29.10.2021](#), Job: Arnell Fellow in Climate Repair 2021 (Centre for Climate Repair at Cambridge)
- [\(new\) 31.10.2021](#), Job: Senior Project Manager/Project Development Expert (PNG), Nature-Based Solutions, TotalEnergies – Paris initially (Carbone Pulse)
- [\(new\) \(no deadline\)](#), Job: Ocean Chemist (Planetary Hydrogen)
- [\(new\) \(no deadline\)](#), Job: Research Assistant/ Research Associate in Climate Repair (Fixed Term) (University of Cambridge)
- [\(no deadline\)](#), Job: Electrical Control & Instrumentation Engineer (Mission Zero Technologies)
- [\(no deadline\)](#), Job: Senior Program Officer, Nature Based Innovations (Verra)
- [\(no deadline\)](#), Job: Senior Data Analyst (Circular Carbon Network)
- [\(no deadline\)](#), Job: Climate Philanthropy Senior Research Fellow, Drawdown Labs



Publications

- [Saeed Arabi, S. M.; et al. \(2021\)](#): Capturing atmospheric carbon dioxide by depleting inorganic carbon in municipal wastewater
- [van Schagen, T. N.; et al. \(2021\)](#): Development of a novel, through-flow microwave-based regenerator for sorbent-based direct air capture
- [Kieft, Brandon; et al. \(2021\)](#): Phytoplankton exudates and lysates support distinct microbial consortia with specialized metabolic and ecophysiological traits
- [Haque, Fatima; et al. \(2021\)](#): Urban Farming with Enhanced Rock Weathering As a Prospective Climate Stabilization Wedge
- [Joppa, Lucas; et al. \(2021\)](#): Microsoft's million-tonne CO₂-removal purchase - lessons for net zero
- [Berndes, Göran; Cowie, Annette \(2021\)](#): Land sector impacts of early climate action
- [Hasegawa, Tomoko; et al. \(2021\)](#): Land-based implications of early climate actions without global net-negative emissions
- [Du, Yang; et al. \(2021\)](#): Zero- and negative-emissions fossil-fired power plants using CO₂ capture by conventional aqueous amines
- [Grossmann, Quirin; et al. \(2021\)](#): Molecular to Process Scale: A Review of Holistic Direct Air Capture Contactor Design
- [Baiman, Ron \(2021\)](#): In Support of a Renewable Energy and Materials Economy: A Global Green New Deal That Includes Arctic Sea Ice Triage and Carbon Cycle Restoration
- [D'Aniello, Andrea; et al. \(2021\)](#): Modeling Gaseous CO₂ Flow Behavior in Layered Basalts: Dimensional Analysis and Aquifer Response
- [Marieni, Chiara; et al. \(2021\)](#): Mineralization potential of water-dissolved CO₂ and H₂S injected into basalts as function of temperature: Freshwater versus Seawater
- [Mahzari, Pedram; et al. \(2021\)](#): Characterizing fluid flow paths in the Hellisheidi geothermal field using detailed fault mapping and stress-

dependent permeability

- [Khosroabadi, Faezeh; et al. \(2021\)](#): Analysis of Carbon Dioxide Capturing Technologies and their technology developments
- [Voigt, Martin; et al. \(2021\)](#): An experimental study of basalt–seawater–CO₂ interaction at 130 °C



Political Papers

- [Luderer, Gunnar; et al. \(2021\)](#): Ariadne Report: Germany on its way to net zero 2045 (German)
- [Arens, Christof \(Ed.\) \(2021\)](#): Ensuring longterm ambition. Paris-proofing of baseline setting as a means for alignment with the Paris Agreement's long-term objectives (Wuppertal Institute for Climate, Environment and Energy)
- [Elkerbout, Milan; Bryhn, Julie \(2021\)](#): Setting the context for an EU policy framework for negative emissions. CEPS



Projects

(no new projects)



Selected Media Responses

- [Gulf Times](#): What climate change requires of economics
- [NZZ](#): How geoengineers fight global warming (German)
- [Bloomberg Green](#): For Effective Climate Policy, the First Step is the Hardest
- [Podcast](#): How science fiction can inspire humanity's response to the climate crisis (The Conversation)
- [Podcast](#): September's big carbontech funding announcements (Carbon Removal Newsroom)
- [Podcast](#): New Research Checks the Math of Large-Scale Tree Planting (Carbon Removal Newsroom)
- [Video](#): Recording: Webinar: Negative emissions and net zero: how do technologies for carbon dioxide removal measure up? (CCUS Projects Network)
- [Video](#): Training video - Cooking and making biochar with crop waste
- [Yale Climate Connections](#): What is geoengineering? ... and why it's a 'break glass' plan
- [Green Wire](#): USDA pledges billions for climate-smart farm projects, resilience
- [Reuters](#): Made-from-CO₂ concrete, lululemons and diamonds spark investor excitement
- [Fast Company](#): These carbon-capturing robotic seaweed farms are like planting forests in the ocean
- [Tech Crunch](#): Made of Air, a maker of 'carbon negative' thermoplastics, locks in \$5.8M
- [Labiotech](#): Novo Nordisk Foundation Pumps €85M into Carbon Capture Research
- [Gasworld](#): Shell to use BASF Sorbead tech for CCS
- [Upstream](#): Australian government looks to 'turbocharge' development of carbon capture and storage hubs
- [Mirage](#): Emissions Reduction Fund to credit carbon capture and storage projects
- [VDE-Dialog](#): A sun umbrella in space (German)
- [Video](#): Biomass Harvesting and Storage (AirMiners Event Series)
- [Mountaineernews](#): Bridge Initiative developing carbon dioxide removal policy solutions for West Virginia
- [Deccan Herald](#): Reducing global warming: Could reflecting sunlight back into space work?
- [Nature](#): Concrete needs to lose its colossal carbon footprint
- [Video](#): This Is CDR Ep09: Climeworks Update - 2021 and Beyond with Christoph Beuttler (Open Air)
- [Video](#): Carbon Dioxide Removal: Forests (Climate Now)

- [PhysOrg](#): Research reveals potential of an overlooked climate change solution

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