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## **Newsletter of Week 38 of 2021**

The newsletter of calendar week 38 of 2021 is now available [here](#).

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## **FYI: Pre-registration to the CEC21 conference now open**

### **Deadline: 30. September 2021**

"The pre-registration to the Climate Engineering in Context 2021 (CEC21) conference is now open! The virtual event will take place online from 4-8 October 2021 and will be free of charge for all participants in order to facilitate open and inclusive critical global discussions. CEC21 virtual will continue to develop the unique conference series with a strong interactive element and we look forward to sharing our new virtual platform with you!"

[LINK](#)

[Read more » FYI: Pre-registration to the CEC21 conference now open](#)

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## **Merkur.de: From Die Grünen to AfD: What goals do political parties have for the climate and by what means do they plan to achieve them? (German)**

German article on climate goals of the German political parties.

[LINK](#)

[Read more » Merkur.de: From Die Grünen to AfD: What goals do political parties have for the climate and by what means do they plan to achieve them? \(German\)](#)

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## **The Times: Geoengineering by Gernot Wagner review — a new, quick way to avert a climate catastrophe?**

"Solar geoengineering sounds like the dreams of a Bond villain, but this fast and cheap solution to global warming is a real option."

[LINK](#)

[Read more » The Times: Geoengineering by Gernot Wagner review — a new, quick way to avert a climate catastrophe?](#)

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## **Foundation for Climate Restoration: The 3 Pillars of Climate Restoration**

"Carbon dioxide removal has recently received extra buzz thanks to Elon Musk and his \$100M competition with XPRIZE to find the best carbon removal technology out there. While the hype is encouraging — anything to drive climate action is paramount — it's important to understand how carbon dioxide removal stands apart from climate restoration."

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[Read more » Foundation for Climate Restoration: The 3 Pillars of Climate Restoration](#)

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### **Video: Climate Now: Carbon Dioxide Removal (CDR)**

"In order to reach global net-zero emissions by 2050, we must remove CO<sub>2</sub> from the atmosphere as well as prevent further emissions. Carbon Dioxide Removal (CDR) can be accomplished naturally – through forests, soil sequestration, or mineralization – and technologically. In fact, we will need both CDR methods to get to net-zero. So what technologies exist that remove carbon from the atmosphere? What are their respective costs, how do they compare, and which are already on the market? Watch to find out."

[LINK](#)

[Read more » Video: Climate Now: Carbon Dioxide Removal \(CDR\)](#)

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## Call for Abstracts: Ocean Sciences Meeting 2022

### No Deadline

"IN13 Ocean-based CDR: Opportunities and Challenges: This Innovative Session will actively engage a diverse community in discussions on opportunities and challenges associated with the establishment of R&D programs that advance ocean-based carbon dioxide removal (CDR)."

[LINK](#)

[Read more » Call for Abstracts: Ocean Sciences Meeting 2022](#)

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## MIT Technology Review: Companies hoping to grow carbon-sucking kelp may be rushing ahead of the science

"In late January, Elon Musk tweeted that he planned to give \$100 million to promising carbon removal technologies, stirring the hopes of researchers and entrepreneurs. A few weeks later, Arin Crumley, a filmmaker who went on to develop electric skateboards, announced that a team was forming on

Clubhouse, the audio app popular in Silicon Valley, to compete for a share of the Musk-funded XPrize. A group of artists, designers, and engineers assembled there and discussed a variety of possible natural and technical means of sucking carbon dioxide out of the atmosphere. As the conversations continued and a core team coalesced, they formed a company, Pull To Refresh, and eventually settled on growing giant bladder kelp in the ocean."

[LINK](#)

[Read more » MIT Technology Review: Companies hoping to grow carbon-sucking kelp may be rushing ahead of the science](#)

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## **Project: High-efficiency, Low-cost, Additive-manufactured Air Contactor (Creare)**

"Reducing the cost of CO<sub>2</sub> removal from the air requires developing a new contactor, which captures CO<sub>2</sub> so it can be recovered, concentrated, and stored. Creare aims to develop a contactor using Creare's low-cost additive manufacturing methods. Creare will also incorporate a low-cost, durable sorbent that captures CO<sub>2</sub> molecules from ambient air and releases CO<sub>2</sub> for storage when heated to moderate temperatures. The contactor is designed for wind-driven operation, which reduces cost by eliminating the need for large arrays of fans to blow air through the system."

[LINK](#)

[Read more » Project: High-efficiency, Low-cost, Additive-manufactured Air Contactor \(Creare\)](#)

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## **Project: Wind-Driven Direct Air Capture System Using 3D Printed, Passive, Amine-loaded Contactors (Georgia Institute of Technology)**

"Georgia Institute of Technology aims to develop a simple, scalable, and modular device that can remove CO<sub>2</sub> from the atmosphere. The device will be designed such that ambient wind is sufficient to contact the CO<sub>2</sub>-laden air with the materials that filter CO<sub>2</sub> out. The filtered CO<sub>2</sub> will then be concentrated using localized electric heating, which allows the device to be easily deployed and integrated with renewables or the existing electrical grid. The proposed technology is driven solely by electricity with only two moving parts (a damper and a vacuum pump), which dramatically simplifies scale-up and deployment compared with incumbent CO<sub>2</sub> removal approaches."

[LINK](#)

[Read more » Project: Wind-Driven Direct Air Capture System Using 3D Printed, Passive, Amine-loaded Contactors \(Georgia Institute of Technology\)](#)



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