Roe, Stephanie; Streck, Charlotte; Obersteiner, Michael; Frank, Stefan; Griscom, Bronson; Drouet, Laurent et al.: Contribution of the land sector to a 1.5 °C world. In Nat. Clim. Chang., pp. 1–12. DOI: 10.1038/s41558-019-0591-9.

"The Paris Agreement introduced an ambitious goal of limiting warming to 1.5 °C above pre-industrial levels. Here we combine a review of modelled pathways and literature on mitigation strategies, and develop a land-sector roadmap of priority measures and regions that can help to achieve the 1.5 °C temperature goal."

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Hilaire, Jérôme; Minx, Jan C.; Callaghan, Max W.; Edmonds, Jae; Luderer, Gunnar; Nemet, Gregory F. et al. (2019): Negative emissions and international climate goals—learning from and about mitigation scenarios. In Climatic Change. DOI: 10.1007/s10584-019-02516-4.

"Most recent evidence stresses the importance of future socio-economic conditions in determining the flexibility of NET deployment and suggests opportunities for hedging technology risks by adopting portfolios of NETs. Importantly, our thematic review highlights that there is a much richer set of findings on NETs than commonly reflected upon both in scientific assessments and available reviews. "

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"There is growing agreement that the aim of United Nations Framework Convention on Climate Change, which is to avoid dangerous anthropogenic interference with the climate system, is not likely to be met without inclusion of methods to physically remove atmospheric carbon. A number of approaches have been suggested, but the community appears to be silent on the potential of one of the most revolutionary technologies of the current century, systems and synthetic biology (SSB)."

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# New Publications

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Asayama, S.; et al. (2019): Engineering climate debt: temperature overshoot and peak-shaving as risky subprime mortgage lending


"Whilst some view optimistically the strategic interdependence between SRM and CDR, we argue that this strategy comes with a risk of escalating ‘climate debt’. We explain our position using the logic of debt and the analogy of subprime mortgage lending. In overshoot and peak-shaving scenarios, the role of CDR and SRM is to compensate for delayed mitigation, placing the world in a double debt: ‘emissions debt’ and ‘temperature debt’.

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"Robin Chazdon, a professor at the University of the Sunshine Coast and executive director of the Association for Tropical Biology and Conservation, discussed the global potential of natural forest regeneration to conserve biodiversity and combat climate change. Her talk was a part of the 2019 Polson Institute 'Future of Development' Symposium."

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21.01.2019

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"Keeping track of evolving geoengineering terminology is a constant challenge. To that end, earlier this year we published our terminology guide, as well as explanatory blogs here and here, explaining why we chose to use certain terms – but also alerting readers to other terms that were in general use, along with their pros and cons."

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