



Faculty of Arts and Social Sciences
Environmental Science

Course Reading

Climate Change Adaptation and Mitigation

Valid from 01/17/2022

Course Code: RHG310

Course Title: Climate Change Adaptation and Mitigation

Credits: 15 ETCS cr

Degree Level: Undergraduate level

Books

Hawken, Paul (2017). *Drawdown: The most comprehensive plan ever proposed to reverse global warming*. New York, USA: Penguin Books 256 sidor

Klepp, Silja, & Chavez-Rodriguez, Libertad (2018). *A critical approach to climate change adaptation: Discourses, policies, and practices*. Routledge, Taylor and Francis Group 302 sidor

Misc.

Falk, J., Gaffney, O., Bhowmik, A. K., Bergmark, P., Galaz, V., Gaskell, N., Henningson, S., Höjer, M., Jacobson, L., Jónás, K., Kåberger, T., Klingefeld, D., Lenhart, J., Loken, B., Lundén, D., Malm (2019), Exponential Roadmap 1.5. Scaling 36 solutions to halve emissions by 2030, (s. 174) Future Earth

Reference material

Bhowmik, A. K., McCaffrey, M., Ruskey, A., Frischmann, C., & Gaffney, O. (2020). Powers of 10: Seeking "sweet spots" for rapid climate and sustainability actions between individual and global scales. *Environmental Research Letters*.

<https://doi.org/10.1088/1748-9326/ab9ed0>

Otto, I. M., Donges, J. F., Cremades, R., Bhowmik, A., Hewitt, R. J., Lucht, W., Rockström, J., Allerberger, F., McCaffrey, M., Doe, S. S. P., Lenferna, A., Morán, N., van Vuuren, D. P., & Schellnhube (2020). Social tipping dynamics for stabilizing Earth's climate by 2050. *Proceedings of the National Academy of Sciences*, , 117 (5), 2354-2365.

<https://doi.org/10.1073/pnas.1900577117>

Rockström, J., Gaffney, O., Rogelj, J., Meinshausen, M., Nakicenovic, N., & Schellnhuber, H. J. (2017). A roadmap for rapid decarbonization. *Science*, 355(6331), , p. 1269-1271. <https://doi.org/10.1126/science.aah3443>

There is current literature in the form of articles and reports (digital).

Approved by the Faculty Board of Arts and Social Sciences 06/09/2021