



Literature for MESS51, Science and Politics of Climate Change applies from the autumn semester 2025

**Literature established by The Board of the Lund University Centre for
Sustainability Studies on 2025-06-04 to apply from 2025-06-04**

See appendix.



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MESS51 LITERATURE LIST

2025-06-04

Dnr STYR 2025/1462

Klimatförändring som vetenskap och politik, 7,5 högskolepoäng

Science and Politics of Climate Change, 7.5 credits

MESS51 litteraturlista fastställd av LUCSUS styrelse den 4 juni 2025.

Course literature

Andrieu, Baptiste, Le Boulzec, Hugo, Delannoy, Louis, Verzier, François, Winter, Guillaume, Vidal, Olivier, & Stadler, Konstantin. (2024). An open-access web application to visualise countries' and regions' carbon footprints using Sankey diagrams. *Communications Earth & Environment*, 5(1), (9 pages).

<https://doi.org/10.1038/s43247-024-01378-8>

Annika Stechemesser et al. (5 women out of 12 authors) Climate policies that achieved major emission reductions: Global evidence from two decades. (2024). *Science* 385,884-892 (8 pages). DOI:10.1126/science.adl6547

Bjorn, Anders, Tilsted, Joachim P., Addas, Amr, & Lloyd, Shannon M. (2022). Can Science-Based Targets Make the Private Sector Paris-Aligned? A Review of the Emerging Evidence. *Curr Clim Change Rep*, 8(2), 53-69. (17 pages)

<https://doi.org/10.1007/s40641-022-00182-w>

Browse "Insights at a glance" for recent years of 10 New Insights (2023, 2022) and multimedia resources <https://10insightsclimate.science/year-2024/2024-resources-for-media/> (8 pages total)

Caney, Simon. (2020). Climate justice. *Stanford Encyclopedia of Philosophy*. (Ca. 8 pages)

<https://plato.stanford.edu/archives/win2021/entries/justice-climate/>

Chakravarty, S., Chikkatur, A., de Coninck, H., Pacala, S., Socolow, R. and Tavoni, M. (2009). Sharing global CO2 emission reductions among one

billion high emitters. *Proceedings of the National Academy of Sciences*, 106(29), 11884-11888 (5 pages)

Cointe, Béatrice, & Guillemot, Hélène. (2023). A history of the 1.5°C target. *WIREs Climate Change*, 14(3), (11 pages).
<https://doi.org/10.1002/wcc.824>

Cologna, Viktoria, Freundt, Jana, Mede, Niels G., Howe, Lauren, Bertsou, Eri, Gloor, Jamie, Oreskes, Naomi, Knutti, Reto, & Schäfer, Mike S. (2024). How scientists' collective climate advocacy affects public trust in scientists and voting behavior. *Environmental Research Letters*, 20(1). (11 pages) <https://doi.org/10.1088/1748-9326/ad984c>

Cook, John, Ellerton, Peter, & Kinkead, David. (2018). Deconstructing climate misinformation to identify reasoning errors. *Environmental Research Letters*, 13(2), (8 pages). <https://doi.org/10.1088/1748-9326/aaa49>

Creutzig, Felix, Niamir, Leila, Bai, Xuemei, Callaghan, Max, Cullen, Jonathan, Díaz-José, Julio, Figueroa, Maria, Grubler, Arnulf, Lamb, William F., Leip, Adrian, Masanet, Eric, Mata, Érika, Mattauch, Linus, Minx, Jan C., Mirasgedis, Sebastian, Mulugetta, Yacob, Nugroho, Sudarmanto Budi, Pathak, Minal, Perkins, Patricia, Roy, Joyashree, de la Rue du Can, Stephane, Saheb, Yamina, Some, Shreya, Steg, Linda, Steinberger, Julia, & Ürge-Vorsatz, Diana. (2021). Demand-side solutions to climate change mitigation consistent with high levels of well-being. *Nature Climate Change*, 12(1), 36-46. (11 pages)
<https://doi.org/10.1038/s41558-021-01219-y>

Dooley, K., Holz, C., Kartha, S., Klinsky, S., Roberts, J.T., Shue, H. *et al.* (2021). Ethical choices behind quantifications of fair contributions under the Paris Agreement. *Nature Climate Change* 11(4), 300-305 (6 pages).
<https://doi.org/10.1038/s41558-021-01015-8>.

Dupont, Claire, Moore, Brendan, Boasson, Elin Lerum, Gravey, Viviane, Jordan, Andrew, Kivimaa, Paula, Kulovesi, Kati, Kuzemko, Caroline, Oberthür, Sebastian, Panchuk, Dmytro, Rosamond, Jeffrey, Torney, Diarmuid, Tosun, Jale, & von Homeyer, Ingmar. (2023). Three decades of EU climate policy: Racing toward climate neutrality? *WIREs Climate Change*, 15(1), (12 pages).
<https://doi.org/10.1002/wcc.863>

Eker, Sibel, Wilson, Charlie, Höhne, Niklas, McCaffrey, Mark S., Monasterolo, Irene, Niamir, Leila, & Zimm, Caroline. (2024). Harnessing social tipping dynamics: A systems approach for accelerating decarbonization. *One Earth*, 7(6), 976-988 (13 pages).
<https://doi.org/10.1016/j.oneear.2024.05.012>

Emma Lecavalier, Bhavya Gupta, Lucilla Dias, Shirley Lukin, Rosalind Chaston, Christopher Lomax, Thomas Hale, Thom Wetzler. 2024 Oxford Climate Policy Monitor Annual Review. Oxford Climate Policy Hub, University of Oxford. February 2025. Executive Summary (pp. 5-8, 4

pages) <https://cal-cpm.edcdn.com/downloads/Annual-CPM-Report-2024.pdf?v=1740063705>

European Environment Agency. (2024). Trends and projections in Europe 2024. Executive Summary (pp. 5-11, 7 pages).
<https://doi.org/10.2800/7574066>

Foley, Jonathan. (2021) To Stop Climate Change, Time is as Important as Tech. <https://globalecoguy.org/to-stop-climate-change-time-is-as-important-as-tech-1be4beb7094a> (5 pages)

Global Carbon Budget 2024- PowerPoint overview. (94 slides)
<https://globalcarbonbudget.org/download/1482/?tmstv=1732802275>

Green, Fergus, & Gambhir, Ajay. (2019). Transitional assistance policies for just, equitable and smooth low-carbon transitions: who, what and how? *Climate Policy*, 20(8), 902-921. (19 pages)
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Green, Fergus, & Denniss, Richard. (2018). Cutting with both arms of the scissors: the economic and political case for restrictive supply-side climate policies. *Climatic Change*, 150(1-2), 73-87 (14 pages).
<https://doi.org/10.1007/s10584-018-2162-x>

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Gupta, Joyeeta, et al. (2024). A just world on a safe planet: a Lancet Planetary Health–Earth Commission report on Earth-system boundaries, translations, and transformations. *The Lancet Planetary Health*, 8(10), e813-e873. (60 pages) [https://doi.org/10.1016/s2542-5196\(24\)00042-1](https://doi.org/10.1016/s2542-5196(24)00042-1)

Gupta, Joyeeta, Liverman, Diana, Prodani, Klaudia, Aldunce, Paulina, Bai, Xuemei, Broadgate, Wendy, Ciobanu, Daniel, Gifford, Lauren, Gordon, Chris, Hurlbert, Margot, Inoue, Cristina Y. A., Jacobson, Lisa, Kanie, Norichika, Lade, Steven J., Lenton, Timothy M., Obura, David, Okereke, Chukwumerije, Otto, Ilona M., Pereira, Laura, Rockström, Johan, Scholtens, Joeri, Rocha, Juan, Stewart-Koster, Ben, David Tàbara, J., Rammelt, Crelis, & Verburg, Peter H. (2023). Earth system justice needed to identify and live within Earth system boundaries. *Nature Sustainability*, 6(6), 630-638. <https://doi.org/10.1038/s41893-023-01064-1> (9 pages)

Halsnæs, Kirsten, Some, Shreya, & Pathak, Minal. (2023). Beyond synergies: understanding SDG trade-offs, equity and implementation challenges of sectoral climate change mitigation options. *Sustainability Science*, 19(1), 35-49. (15 pages) <https://doi.org/10.1007/s11625-023-01322-3>

Hausfather, Zeke. (2025) Durability of carbon dioxide removal is critical for stabilizing temperatures. The Climate Brink (2 pages)

<https://www.theclimatebrink.com/p/durability-of-carbon-dioxide-removal>

Hoesung Lee (Chair), Katherine Calvin (USA), Dipak Dasgupta (India/USA), Gerhard Krinner (France/Germany), Aditi Mukherji (India), Peter Thorne (Ireland/United Kingdom), Christopher Trisos (South Africa), José Romero (Switzerland), Paulina Aldunce (Chile), Ko Barrett (USA), Gabriel Blanco (Argentina), William W. L. Cheung (Canada), Sarah L. Connors (France/United Kingdom), et al. (2023). Climate change 2023: Synthesis report, Summary for Policymakers. (42 pages).

https://www.ipcc.ch/report/ar6/syr/downloads/report/IPCC_AR6_SYR_SP_M.pdf

IPCC, 2021, Valérie Masson-Delmotte, Panmao Zhai, Anna Pirani, Sarah L. Connors, Clotilde Péan, Sophie Berger, Nada Caud, Yang Chen, Leah Goldfarb, Melissa I. Gomis, Mengtian Huang, Katherine Leitzell, Elisabeth Lonnoy, JB Robin Matthews, Thomas K. Maycock, Tim Waterfield, O'zge Yelekçi, Rong Yu, & Baiquan Zhou. (2021). Summary for Policymakers. In: Climate Change 2021: The Physical Science Basis. Contribution of Working Group I to the Sixth Assessment Report of the Intergovernmental Panel on Climate Change. (31 pages)

https://www.ipcc.ch/report/ar6/wg1/downloads/report/IPCC_AR6_WGI_SP_M_Stand_Alone.pdf

IPCC Working Group I Technical Support Unit: Sarah Connors, Sophie Berger, et al. (2021). Climate Change 2021: Summary for All. <https://www.ipcc.ch/report/ar6/wg1/resources/summary-for-all/> (16 pages)

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IPCC, 2022: Summary for Policymakers. In: Climate Change 2022: *Mitigation of Climate Change*. Contribution of Working Group III to the Sixth Assessment Report of the Intergovernmental Panel on Climate Change. Cambridge University Press, Cambridge, UK and New York, NY, USA. doi: 10.1017/9781009157926.001. (48 pages)

1 regional and 1 sectoral factsheet assigned in class for discussion (5 pages total) <https://www.ipcc.ch/report/ar6/wg1/resources/factsheets>

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https://iea.blob.core.windows.net/assets/7ebafc81-74ed-412b-9c60-5cc32c8396e4/NetZeroBy2050-ARoadmapfortheGlobalEnergySector-SummaryforPolicyMakers_CORR.pdf (20 pages)

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Jenkins, Stuart, Sanderson, Ben, Peters, Glen, Frölicher, Thomas L., Friedlingstein, Pierre, & Allen, Myles. (2022). The Multi-Decadal Response to Net Zero CO2 Emissions and Implications for Emissions Policy. *Geophysical Research Letters*, 49(23), (11 pages). <https://doi.org/10.1029/2022gl101047>

Key Messages Briefing, Global Carbon Budget 2024 (14 pages) <https://globalcarbonbudget.org/download/1253/?tmstv=1730990946>

Kuss, P; Nicholas, KA. (2022). A dozen effective interventions to reduce car use in European cities: Lessons learned from a meta-analysis and transition management. *Case Studies on Transport Policy*, 10, 1494-1513. (20 pages) <https://doi.org/https://doi.org/10.1016/j.cstp.2022.02.001>

Kuyper, Jonathan, Schroeder, Heike, & Linnér, Björn-Ola. (2018). The Evolution of the UNFCCC. *Annual Review of Environment and Resources*, 43(1), 343-368 (26 pages). <https://doi.org/10.1146/annurev-environ-102017-030119>

Lamb, William F., Mattioli, Giulio, Levi, Sebastian, Roberts, J. Timmons, Capstick, Stuart, Creutzig, Felix, Minx, Jan C., Müller-Hansen, Finn, Culhane, Trevor, & Steinberger, Julia K. (2020). Discourses of climate delay. *Global Sustainability*, 3, (5 pages). <https://doi.org/10.1017/sus.2020.13>

López-Muñoz, Paola, Llases, Luis, Lauer, Arthur, & Mencarini, Eleonora. (2025). Creating local storylines for climate mitigation and adaptation with policymakers across Europe: a new participatory and bottom-up method. *Futures*, 171. (16 pages) <https://doi.org/10.1016/j.futures.2025.103617>

Lamb, William F., Wiedmann, Thomas, Pongratz, Julia, Andrew, Robbie, Crippa, Monica, Olivier, Jos G. J., Wiedenhofer, Dominik, Mattioli, Giulio, Khourdajie, Alaa Al, House, Jo, Pachauri, Shonali, Figueroa, Maria, Saheb, Yamina, Slade, Raphael, Hubacek, Klaus, Sun, Laixiang, Ribeiro, Suzana Kahn, Khennas, Smail, de la Rue du Can, Stephane, Chapungu, Lazarus, Davis, Steven J., Bashmakov, Igor, Dai, Hancheng, Dhakal, Shobhakar, Tan, Xianchun, Geng, Yong, Gu, Baihe, & Minx, Jan. (2021). A review of trends and drivers of greenhouse gas emissions by sector from 1990 to 2018. *Environmental Research Letters*, 16(7), (31 pages). <https://doi.org/10.1088/1748-9326/abee4e>

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Nielsen, Kristian S., Cologna, Viktoria, Bauer, Jan M., Berger, Sebastian, Brick, Cameron, Dietz, Thomas, Hahnel, Ulf J. J., Henn, Laura, Lange, Florian, Stern, Paul C., & Wolske, Kimberly S. (2024). Realizing the full potential of behavioural science for climate change mitigation. *Nature Climate Change*, 14(4), 322-330 (9 pages) <https://doi.org/10.1038/s41558-024-01951-1>

Nielsen, Kristian S., Nicholas, Kimberly A., Creutzig, Felix, Dietz, Thomas, & Stern, Paul C. (2021). The role of high-socioeconomic-status people in locking in or rapidly reducing energy-driven greenhouse gas emissions. 1011-1016 (6 pages) *Nature Energy*. <https://doi.org/10.1038/s41560-021-00900-y>

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Orlove, Ben. (2022). The Concept of Adaptation. *Annual Review of Environment and Resources*, 47(1), 535-581.(46 pages)
<https://doi.org/10.1146/annurev-environ-112320-095719>

Oxford Net Zero. “Principles for making a net zero commitment.”
<https://netzeroclimate.org/policies-for-net-zero/net-zero-principles/> (3 pages)

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<https://doi.org/10.3389/fsci.2023.1170744>

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Rajamani, L., Jeffery, L., Höhne, N., Hans, F., Glass, A., Ganti, G. *et al.* (2021). National ‘fair shares’ in reducing greenhouse gas emissions within the principled framework of international environmental law. *Climate Policy* 21(8), 983-1004 (20 pages).
<https://doi.org/10.1080/14693062.2021.1970504>

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Rubial, María del Pilar Bueno. (2021). The evolution of the United States Climate Change Policies and missed leadership opportunities. *Estudios Internacionales*, 198, 9-32 (24 pages) <https://www.scielo.cl/pdf/rei/v53n198/0719-3769-rei-53-198-00009.pdf>

Schaeffer, Roberto, Schipper, E. Lisa F., Ospina, Daniel, Mirazo, Paula, Alencar, Ane, Anvari, Mehrnaz, Artaxo, Paulo, Biresselioglu, Mehmet Efe, Blome, Tanja, Boeckmann, Melanie, Brink, Ebba, Broadgate, Wendy, Bustamante, Mercedes, Cai, Wenju, Canadell, Josep G., Cardinale, Roberto, Chidichimo, Maria Paz, Ditlevsen, Peter, Eicker, Ursula, Feron, Sarah, Fikru, Mahelet G., Fuss, Sabine, et al. (2025).

Ten new insights in climate science 2024. *One Earth*.
<https://doi.org/10.1016/j.oneear.2025.101285> (36 pages)

Schmidt, Mario, Nill, Moritz, & Scholz, Johannes. (2022). Determining the Scope 3 Emissions of Companies. *Chemical Engineering & Technology*, 45(7), 1218-1230 (13 pages). <https://doi.org/https://doi.org/10.1002/ceat.202200181>

SEI, Climate Analytics, E3G, IISD, and UNEP. (2023). The Production Gap: Phasing down or phasing up? Top fossil fuel producers plan even more extraction despite climate promises. Stockholm Environment Institute,

Climate Analytics, E3G, International Institute for Sustainable Development and United Nations Environment Programme.
<https://doi.org/10.51414/sei2023.050> Executive summary (p. 2-10, 9 pages);

The Production Gap (p. 16-33, 17 pages), your assigned country for Government Plans and Policies for Fossil Fuel Production (2 pages) (total: 28 pages).

Simpson, Brent, Willer, Robb, & Feinberg, Matthew. (2022). Radical flanks of social movements can increase support for moderate factions. *PNAS Nexus*, 1(3), (11 pages). <https://doi.org/10.1093/pnasnexus/pgac110>

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Swedish Climate Policy Council. (2025). Climate Policy Council Annual Report 2025. Executive Summary, p. 7-13. (7 pages)
<https://www.klimatpolitiskaradet.se/wp-content/uploads/2025/04/swedishclimatepolicycouncilclimatepolicycouncilreport2025.pdf>

UNFCCC. (undated) “Science in the UNFCCC Negotiations.” (2 pages)
<https://unfccc.int/topics/science/the-big-picture/science-in-the-unfccc-negotiations>

United Nations. (2015). *Paris Agreement* (27 pages)
https://unfccc.int/files/essential_background/convention/application/pdf/english_paris_agreement.pdf

United Nations Environment Programme. (2024). *Emissions Gap Report 2024: No more hot air ...please! With a massive gap between rhetoric and reality, countries draft new climate commitments*. <https://www.unep.org/resources/emissions-gap-report-2024> Executive summary (XII-XXI, 9 pages), Bridging the gap: Sectoral transformation benchmarks, mitigation potentials and investment needs (p. 41-62, 22 pages)

United Nations Human Settlements Programme (UN-Habitat). (2024). *Cities and Climate Action: World Cities Report 2024. Key Findings and Messages*, pp. xv-xxvii (13 pages) https://unhabitat.org/sites/default/files/2024/11/wcr2024_-_full_report.pdf

van den Berg, N.J., van Soest, H.L., Hof, A.F., den Elzen, M.G.J., van Vuuren, D.P., Chen, W. *et al.* (2020). Implications of various effort-sharing approaches for national carbon budgets and emission pathways. *Climatic Change* 162, 1805-1822 (18 pages). <https://doi.org/10.1007/s10584-019-02368-y>

Venn, Alice. (2019). Social justice and climate change. In *Managing Global Warming* (pp. 711-728 (18 pages)). <https://doi.org/10.1016/b978-0-12-814104-5.00024-7>

Wilson, Nicole J., Lira, Maria G., & O'Hanlon, Grace. (2022). A systematic scoping review of Indigenous governance concepts in the climate governance literature. *Climatic Change*, 171(3-4). (23 pages) <https://doi.org/10.1007/s10584-022-03354-7>

Whyte, Kyle. (2019). Too late for indigenous climate justice: Ecological and relational tipping points. *WIREs Climate Change*, 11(1), (7 pages). <https://doi.org/10.1002/wcc.603>

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Online resources

[Climate Action Tracker](#) and exploring their data. Be sure to read:

- Climate Action Tracker (2024) “Paris Temperature Goal,” <https://climateactiontracker.org/methodology/paris-temperature-goal/>
- CAT Thermometer, <https://climateactiontracker.org/global/cat-thermometer/>
- Emissions Pathways, <https://climateactiontracker.org/global/emissions-pathways/>

- “The CAT guide to a good 2035 climate target,”
<https://climateactiontracker.org/publications/the-cat-ndc-guide/>,
- Overview of “State of Climate Action 2023”,
<https://climateactiontracker.org/publications/state-of-climate-action-2023/>

Global Carbon Budget. (2024). Watch 2 videos here:
<https://globalcarbonbudget.org/key-targets/> (3 minutes)

The Oxford Climate Policy Monitor: <https://climatepolicymonitor.ox.ac.uk>

The 4-D Project Countering Misinformation: Detection, Deconstruction, Debunking, and Deployment.
<https://climatecommunication.gmu.edu/countering-misinformation/>

Total Number of Pages

Total expected reading approximately 1,130

Author gender balance

The authors perceived as female are highlighted in yellow.