Literature for MESS41, Energy and Sustainability applies from the autumn semester 2024

Literature established by The Board of the Lund University Centre for Sustainability Studies on 2024-05-31 to apply from 2024-05-31

See appendix.

2024-05-31 Dnr STYR 2024/1440

LUND UNIVERSITY

Lund University Centre for
Sustainability Studies

Energi och hållbarhet, 7,5 högskolepoäng

Energy and Sustainability, 7,5 credits

MESS41 litteraturlista fastställd av LUCSUS styrelse den 31 maj 2024.

Course literature

1. Arvizu, D., T. Bruckner, H. Chum, O. Edenhofer, S. Estefen, A. Faaij, M. Fischedick, G. Hansen, G. Hiriart, O. Hohmeyer, K. G. T. Hollands, J. Huckerby, S. Kadner, Å. Killingtveit, A. Kumar, A. Lewis, O. Lucon, P. Matschoss, L. Maurice, M. Mirza, C. Mitchell, W. Moomaw, J. Moreira, L. J. Nilsson, et al …. (2011) Technical Summary. In IPCC Special Report on Renewable Energy Sources and Climate Change Mitigation [O. Edenhofer, R. Pichs-Madruga, Y. Sokona, K. Seyboth, P. Matschoss, S. Kadner, T. Zwickel, P. Eickemeier, G. Hansen, S. Schlömer, C. von Stechow (eds)], Cambridge University Press, Cambridge, United Kingdom and New York, NY, USA https://www.ipcc.ch/site/assets/uploads/2018/03/Technical-Summary-1.pdf pages 146-158 (14 pp)
2. Avila, Sofia., Deniau, Y., Sorman, A. H., & McCarthy, J. (2022). (Counter)mapping renewables: Space, justice, and politics of wind and solar power in Mexico. Environment and Planning E: Nature and Space, 5(3), 1056–1085 (31 pp)
3. Beck, S., & Mahony, M. (2017). The IPCC and the politics of anticipation. Nature Climate Change, 7(5), 311–313. (3pp)
4. Blondeel *et al* (2021). The geopolitics of energy systems transformation: A review. Geography Compass 10.1111/gec3.12580 (22pp)
5. Busch, H., Radtke, J. & Islar, M. (2023) Safe havens for energy democracy? Analysing the low-carbon transitions of Danish energy

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7. Canelas, Joana and Carvalho, A. 2023. The dark side of the energy transition: Extractivist violence, energy (in)justice and lithium mining in Portugal. Energy Research & Social Science, Volume 100; 103096 (13 pp)
8. Calver, Philippa., Mander, S. and Ghanem, D. 2022. Low carbon system innovation through and energy justice lens: Exploring domestic heat pump adopting with direct load control in the United Kingdom. Energy Research and Social Sciences. 83:102299. (12 pp)
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11. GEELS, F. W. 2011. The multi-level perspective on sustainability transitions: Responses to seven criticisms. Environmental Innovation and Societal Transitions, 1, 24-40 (17 pp)
12. GEELS, F. W. 2002. Technological transitions as evolutionary reconfiguration processes: a multi-level perspective and a case-study. Research Policy, 31, 1257-1274 (17 pp)
13. González-Eguino, M. (2015). Energy poverty: An overview. Renewable and Sustainable Energy Reviews 47: 377–385 (8 pages)
14. Gross, Catherine, 2007. "Community perspectives of wind energy in Australia: The application of a justice and community fairness framework to increase social acceptance," Energy Policy, Elsevier, vol. 35(5), pages 2727-2736 (10 pp)
15. Grubler Arnulf, Nakicenovic N, Pachauri S, Rogner H-H, Smith KR, et al. (2014): Energy Primer. International Institute for Applied Systems Analysis, Laxenburg, Austria, pp. 1-118. International Energy Agency. (118 pp) http://www.iiasa.ac.at/web/home/research/researchPrograms/TransitionstoNewTechnologies/energyprimer/Energy_Primer.pdf
16. Guan, Y., Yan, J., Shan, Y. et al. (2023). Burden of the global energy price crisis on households. Nat Energy 8:304–316 (12 pp)
17. Hanke, F., Guyet, R., and Feenstra, (2021). Do renewable energy communities deliver energy justice? Exploring insights from 71 European cases. Energy Research and Social Science 80:102244 (10pp)

18. Harnesk, David, and Brogaard, S. (2017). Social Dynamics of Renewable Energy—How the European Union's Renewable Energy Directive Triggers Land Pressure in Tanzania. The Journal of Environment & Development, 26(2), 156-185 (30 pp)

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20. Hodboda, Jennifer and, Adger, N. 2014. Integrating social-ecological dynamics and resilience into energy systems research. Energy Research & Social Science 1:226–231.(6 pp)

21. IRENA 2020. Global Renewables Outlook: Energy Transformation 2050. Section summary and chapter 1. Pp. 18-95. https://www.irena.org/-/media/Files/IRENA/Agency/Publication/2020/Apr/IRENA_Global_Renewables_Outlook_2020.pdf (77 pp)

22. Karekezi, Stephen., McDade, S., B. Boardman and J. Kimani, 2012: Chapter 2 - Energy, Poverty and Development. In Global Energy Assessment - Toward a Sustainable Future, Cambridge University Press, Cambridge, UK and New York, NY, USA and the International Institute for Applied Systems Analysis, Laxenburg, Austria, pp. 151-190 (40 pp) http://www.iiasa.ac.at/web/home/research/Flagship-Projects/Global-Energy-Assessment/Chapter2.en.html

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24. Lee, Alice, Sinha, I., Boyce, T., Allen, J., and Goldblatt, P. (2022) Fuel poverty, cold homes and health inequalities. London: Institute of Health Equity. (32pp)

25. Magnani, Natalia. 2012. Exploring local sustainability of a green economy in Alpine communities. Mountain Research and Development 32(2):109-116 (8 pp)

26. Martiskainen, Mari and Sovacool, B., Lacey-Barnacle, M., Hopkins, D.,.Jenkins, K., Simcock, N., Mattioli, G., Bouzarovski, S. 2021. New Dimensions of Vulnerability to Energy and Transport Poverty. Joule 5(1): 3-7 (5 pp)

27. Milchram, Christine *et al*. 2020. Designing for justice in electricity systems: A comparison of smart grid experiments in the Netherlands. Energy Policy 147:111720 (9 pp)

28. Nilsson, Lars. J., Bauer, F., Åhman, M., et al . (2021). An industrial policy framework for transforming energy and emissions intensive industries towards zero emissions. Climate Policy, 21(8), 1053–1065. https://doi.org/10.1080/14693062.2021.1957665 (12 pp)

29. Pittock, Jamie, Hussey, K. and and Dovers, S. (Editors) 2015. Climate, Energy and Water: Managing Trade-Offs, Seizing

Opportunities. Chapter 1-7. Cambridge University Press, New-York. (122 pp).

30. Ransan-Cooper, Hedda. *et al.* (2022). Neighbourhood batteries in Australia: Anticipating questions of value conflict and (in)justice. Energy Research & Social Science 90: 102572 (10 pp)
31. Riahi, Keywan, van Vuuren, D. et al. 2017. The Shared Socioeconomic Pathways and their energy, land use, and greenhouse gas emissions implications: An overview. Global Environmental Change. 42: 153-168 (15 pp)
32. Romero-Lankao, Patricia, Rosner, N., Brandtner, C. et al. A framework to centre justice in energy transition innovations. Nat Energy 8, 1192–1198 (2023). https://doi.org/10.1038/s41560-023-01351-3 (7 pp)
33. Robinius, Martin, Otto, A. Heuser, P. et al. Linking the Power and Transport Sectors—Part 1: The Principle of Sector Coupling. Energies 2017, 10(7): 956. https://doi.org/10.3390/en10070956 (10 pp)
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36. Setyowati, Abidah. 2021. Mitigating inequality with emissions? Exploring energy justice and financing transitions to low carbon energy in Indonesia. Energy Research and Social Science. 71: 101817 (10 pp)
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38. Sovacool, Benjamin. 2016. How long will it take? Conceptualizing the temporal dynamics of energy transitions. Energy Research and Social Sciences 13:202-215 (14 pp)
39. Sovacool, Benjamin K., Hook, A., Martiskainen, M. and Baker, L., The Whole Systems Energy Injustice of Four European Low-Carbon Transitions (September 3, 2019). Global Environmental Change 58 (2019) 101958 (10 pp)
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42. Tornel, Carlos. (2023). Decolonizing energy justice from the ground up: Political ecology, ontology, and energy landscapes. Progress in Human Geography, 47(1), 43-65. https://doi.org/10.1177/03091325221132561. (22 pp)
43. Tsagkari, M. Roca, J and Kallis, G. (2021). From local island energy to degrowth? Exploring democracy, self-sufficiency, and renewable energy production in Greece and Spain, Energy Research & Social Science,Volume 81. (13 pp)
44. Vaughan, N. E., & Gough, C. (2016). Expert assessment concludes negative emissions scenarios may not deliver. Environmental Research Letters, 11(9) (9 pp)
45. Wang, X. and Lo, K. (2021). Just transition: A Conceptual approach. Energy research and social science, 82:102291 (10 pp)
46. Werner, S. (2017) District heating and cooling in Sweden. Energy 126: 419-429 (10 pp)
47. Wiese, Katharina 2020. Energy 4 all? Investigating gendered energy justice implications of community-based micro-hydropower cooperatives in Ethiopia. Innovation: The European Journal of Social Science Research, 33(2) 194-217 (24 pp)
48. Yenneti, Komali, Day, R. and Gollubchikov, O. 2016. Spatial justice and the land politics of renewables. Charnaka solar park. Gujarat, India. Geoforum 76:90-99. (10 pp)
49. Zoellick, J. Arpita Bisht. 2018. It's not (all) about efficiency: Powering and organizing technology from a degrowth perspective, Journal of Cleaner Production, 197(2): 1787-1799 (13 pp)

Required reading

Total number of pages: 1060

The deviation from the recommended (1250) number of pages is motivated by: Some literature consists of journal articles. These are heavier in content. Additional literature is required for their own work in paper writing.

Author gender balance

A number of the readings have women as first authors and those have been underlined. Total number of female authors have not been counted – only first author. We strive to achieve an even better gender balance over time in the course.