



Literature for MESS41, Energy and Sustainability applies from autumn semester 2020

Literature established by The Board of the Lund University Centre for
Sustainability Studies on 2020-06-11 to apply from 2020-08-31

See appendix.

Energi och hållbarhet, 7,5 högskolepoäng

Energy and Sustainability, 7,5 credits

MESS41 litteraturlista fastställd av LUCSUS styrelse den 11 juni 2020 (Dnr STYR 2020/1049).

Arvizu, D., T. Bruckner, H. Chum, O. Edenhofer, S. Estefen, A. Faaij, M. Fishedick, 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 (14pp)

Bridge, Gavin., Bouzarovski, S., Bradshaw, M., and Eyre., N. (2013). Geographies of energy transition: Space, place and the low-carbon economy. *Energy Policy* 53: 331-340 (10 pp)

Creutzig, Felix, et al. (2016). Beyond Technology: Demand-Side Solutions for Climate Change Mitigation Annual Review of Environment and Resources. 241:173–98 (25 pp)

Day, Rosie, Walker, G and Simcock, N. (2016) Conceptualizing energy use and energy poverty using a capabilities framework. *Energy Policy* 93:255-264 (10 pp)

Emberson, Lisa., K. He, J. Rockström, M. Amann, J. Barron, R. Corell, S. Feresu, R. Haeuber, K. Hicks, F. X. Johnson, A. Karlqvist, Z. Klimont, I. Mylvakanam, W. W. Song, H. Vallack and Z. Qiang, 2012: Chapter 3 - Energy and Environment. 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. 191-254. (62 pp) <http://www.iiasa.ac.at/web/home/research/Flagship-Projects/Global-Energy-Assessment/Chapter3.en.html>

Fraune, Cornelia. (2015). Gender matters: Women, renewable energy, and citizen participation in Germany *Energy Research & Social Science* 7:55–65 (11 pp)

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

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)

Healy, Noel and Barry, J. (2017). Politicizing energy justice and energy systems transitions: fossil fuel divestment and a “just transition”. *Energy Policy* 10:451-459 (8 pp)

Hiteva, Ralitsa, and Sovacool B. Harnessing Social Innovation for Energy Justice: A business model perspective, *Energy Policy*. 107:631-639.

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

IRENA (2019), *Global energy transformation: A roadmap to 2050* (2019 edition), International Renewable Energy Agency, Abu Dhabi. Available for download: www.irena.org/publications. (50 pp) file:///C:/Users/Natg-sbr/Downloads/IRENA_Global_Energy_Transformation_2019.pdf

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>

Kowsari, Reza and Zerriffi, H 2011. Three dimensional energy profile: a conceptual framework for assessing household energy use. *Energy Policy*. 39:7505-7517.

Martinot, Eric. (2016). Grid Integration of Renewable Energy: Flexibility, Innovation, and Experience. *Annual Review of Environment and Resources* 41:223-251 (28 pp)

Mitra, Subarna and Buluswar, S. (2015). Universal Access to Electricity: Closing the Affordability Gap *Annual Review of Environment and Resources* 40:261-283 (23 pp)

Pittock, Jamie, Hussey, K. and Dovers, S. (Editors) 2015. *Climate, Energy and Water: Managing Trade-Offs, Seizing Opportunities*. Chapter 1-7. Cambridge University Press, New-York. (122 pp). ISBN 9781139248792

Riahi, Keywan, van Vuuren, D. et al b (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)

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>

Ryan, Sarah. 2014. Rethinking gender and identity in energy studies. *Energy research and social science* 1:96-105 (10 pp)

Scholten, Daniel (Editor). 2018. *The Geopolitics of Renewables*. Chapter 1-4. Springer International Publishing. (124 pp). ISBN 978-3-319-67855-9

Seto, Karen, Steven J. D., Mitchell, R.B., Eleanor C. Stokes, E.C., Unruh, G. and Ürge-Vorsatz, D. (2016). Carbon Lock-In: Types, Causes, and Policy Implications. *Annual Review of Environment and Resources*, 41:425-452 (26 pp)

Sorrell, Steve. (2015). Reducing energy demand: A review of issues, challenges and approaches Renewable and Sustainable. *Energy Reviews* 47:74-82 (11 pp)

Sovacool, Benjamin, and Dworkin, M. H. (2015). Energy justice: Conceptual insights and practical applications. *Applied Energy*, 142, 435-444 (12 pp)

Stern, Paul, Sovacool, B. and Dietz. T. 2016. Towards a Science of Climate and Energy Choices. *Nature Climate Change*. 6:547-555.

Vaughan, N. E., & Gough, C. (2016). Expert assessment concludes negative emissions scenarios may not deliver. *Environmental Research Letters*, 11(9).
<https://doi.org/10.1088/1748-9326/11/9/095003>

Total number of pages: 745.

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.

This is the first version of the literature for the new course. We will add for example more seminar literature over time.

Gender balance: A number of the pages 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.