

22/23 MSc project - Low-carbon energy solutions for sustainability

- Mohan, A., Sengupta, S., Vaishnav, P., Tongia, R., Ahmed, A., & Azevedo, I. L. (2022). Sustained cost declines in solar PV and battery storage needed to eliminate coal generation in India. *Environmental Research Letters*, 17(11), 114043.
<https://iopscience.iop.org/article/10.1088/1748-9326/ac98d8>
- Mulugetta, Y., Sokona, Y., Trotter, P. A., Fankhauser, S., Omukuti, J., Somavilla Croxatto, L., ... & Yussuff, A. (2022). Africa needs context-relevant evidence to shape its clean energy future. *Nature Energy*, 1-8.
<https://www.nature.com/articles/s41560-022-01152-0>
- Sengupta, S., Adams, P. J., Deetjen, T. A., Kamboj, P., D'Souza, S., Tongia, R., & Azevedo, I. M. (2022). Subnational implications from climate and air pollution policies in India's electricity sector. *Science*, 378(6620), eabh1484.
<https://www.science.org/doi/10.1126/science.abh1484>
- Han, Xiao, Miguel Poblete-Cazenave, Setu Pelz, and Shonali Pachauri. "Household energy service and home appliance choices in urban China." *Energy for Sustainable Development* 71 (2022): 263-278.
<https://www.sciencedirect.com/science/article/pii/S097308262200182X>
- Pavanello, F., De Cian, E., Davide, M., Mistry, M., Cruz, T., Bezerra, P., ... & Lucena, A. F. (2021). Air-conditioning and the adaptation cooling deficit in emerging economies. *Nature communications*, 12(1), 1-11.
<https://www.nature.com/articles/s41467-021-26592-2>
- Laine, H. S., Salpakari, J., Looney, E. E., Savin, H., Peters, I. M., & Buonassisi, T. (2019). Meeting global cooling demand with photovoltaics during the 21st century. *Energy & Environmental Science*, 12(9), 2706-2716.
<https://pubs.rsc.org/en/content/articlelanding/2019/EE/C9EE00002J>
- Barbar, Marc, Dhari S. Mallapragada, Meia Alsup, and Robert Stoner. "Scenarios of future Indian electricity demand accounting for space cooling and electric vehicle adoption." *Scientific Data* 8, no. 1 (2021): 1-11.
<https://www.nature.com/articles/s41597-021-00951-6>

22/23 MSc project - Domestic energy decarbonization and energy equality

Domestic energy decarbonization and energy equality

Readings:

Modelling:

- Ryland, M., & He, W. (2022). Heating economics evaluated against emissions: An analysis of low-carbon heating systems with spatiotemporal and dwelling variations. *Energy and Buildings*, 277, 112561.
<https://www.sciencedirect.com/science/article/pii/S0378778822007320>
- Ryland, M., & He, W. Holistic Analysis of Consumer Energy Decarbonisation Options and Tariff Effects. Available at SSRN 4254958.
https://papers.ssrn.com/sol3/papers.cfm?abstract_id=4254958

Energy poverty

- <https://www.gov.uk/government/collections/fuel-poverty-statistics#2020-statistics>
- <https://www.gov.uk/government/statistics/annual-fuel-poverty-statistics-report-2022>
- Geels, Frank W., Benjamin K. Sovacool, Tim Schwanen, and Steve Sorrell. "The socio-technical dynamics of low-carbon transitions." *Joule* 1, no. 3 (2017): 463-479.
<https://www.sciencedirect.com/science/article/pii/S2542435117300922>

<https://www.gov.uk/government/news/government-joins-with-households-to-help-millions-reduce-their-energy-bills>