



Wittgenstein Centre

FOR DEMOGRAPHY AND  
GLOBAL HUMAN CAPITAL



The seminar will be  
held online via Zoom.

## WIC Online Colloquium

### Intersecting Inequities in Energy Consumption, Decent Living Standards, and Risk of Climate Change Exposure in Ghana, India, and Brazil

Tuesday, February 7th, 2023  
11:00-12:00 (CET)

Please click [here](#) to register online.

Login information will be sent to registered participants shortly before the presentation.

**Setu Pelz, Shonali Pachauri & Caroline Zimm**  
IIASA

Literature linking residential energy consumption, human development and climate change risk is growing but is largely concentrated at the aggregate level. We combine consumer expenditure microdata for two time periods from Brazil (2002/2017), Ghana (2005/2017) and India (2004/2011) with a spatial climate exposure dataset (SSP2, 1.5dC, 2030) to identify intersecting inequities across the income distribution and across space. We first describe the dual challenge of energy access and affordability among poorer households and extend this analysis to include private mobility, identifying dramatic and consistent shifts towards private mobility fossil fuel consumption among the upper deciles. Second, we operationalize the decent living standards, a multi-dimensional measure of human wellbeing, across the income deciles. This highlights the strength of this framework in identifying deprivations among poorer households using standard publicly available microdata. Thirdly, we link achievement of decent living standards with climate risk, identifying both spatially and by income level an acutely vulnerable population requiring climate adaptation policy support.

#### About the presenter

Setu Pelz joined IIASA in 2022 as a research scholar in the Energy, Climate, and Environment (ECE) Program. He works on the analysis and modeling of energy poverty, access, demand, and transitions, with a particular focus on regions of the Global South and vulnerable communities globally. Prior to joining IIASA, Pelz pursued his PhD with the Department of Energy and Environmental Management at Europa Universität Flensburg, Germany. His research interests include energy access, just transitions, and sustainable development.

The Wittgenstein Centre is a collaboration among the Austrian Academy of Sciences (OeAW), the International Institute for Applied Systems Analysis (IIASA) and the University of Vienna.

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