

Pooja Sankhyayan

My doctoral research in the area of energy economics is an attempt to address the issue of access and transition to clean energy in line with the 7th Sustainable Development Goal. Alongside, it's an effort to model the consumer's energy use behaviour based on an LA-AIDS model and to explore the trajectory of energy policies in India.

As part of postdoctoral research, I have worked with IIT Guwahati, India on a World Bank project, Technical University of Darmstadt, Germany on INLOCADE project and IIT Mandi.

Contact

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Educational Qualification

- **2021(December):** *Ph.D. (Economics), School of Humanities and Social Sciences, Indian Institute of Technology Mandi, India*
- **2009:** *M.Phil. (Economics), Panjab University, Chandigarh India*
- **2006:** *M.A. (Economics), Panjab University, Chandigarh India*

Experience

Indian Institute of Technology Mandi (December 2022 to December 2024)

- *Conduct district-level climate risk assessment and mapping at all India level using the IPCC AR5 framework*
- *To carry out hazard, vulnerability and exposure assessment for all districts in India*

Technical University of Darmstadt, Germany (July 2022 to September 2022)

- *To identify factors responsible for political institutionalization of the solar power projects in India*
- *To point out crucial solar power projects in India*

Indian Institute of Technology Guwahati (March 2022 to August 2022)

- *Estimating the relative benefits and costs of the investment in identified river basins*
- *Estimate the value of land and structures in at-risk areas*
- *Carry out a cost-benefit analysis (CBA) as a part of Economic Assessment of the investment project*

Government College Sector -11 Chandigarh (July 2015 - March 2016)

- *Teaching different courses to undergraduate students*
- *Undertake evaluation of the students*

Skills

- *Experience in collecting and handling both primary and large scale secondary datasets such as NSSO*
- *Use of statistical softwares such as Advanced Excel, R, STATA*
- *Good written and oral communication*

Awards

- *UGC- National Eligibility Test (NET) (2014)*
- *Indian Council of Social Science Research (ICSSR) International Travel grant (2019) (awarded but could not be availed)*

Publications

- **Sankhyayan, P.**, Anand, U. and Dasgupta, S. “Analyzing the pattern of household energy demand and transition to clean fuel in India using an LA-AIDS model”. (Communicated)
- Dasgupta, S., Barua, A., Murthy, I. K., Borgohain, P. L., Baghel, T., **Sankhyayan, P.**, Vidya S., Narwal, H., Jan, A., Vyas, S., Luniwal, Y., Ghosh, S., Cheranda, T. M., Alam, M. K., Matthew, S., & Pradeep M. S. (2024). District-Level Climate Risk Assessment for India: Mapping Flood and Drought Risks Using IPCC Framework. Department of Science and Technology, Government of India and the Swiss Agency for Development and Cooperation (SDC), Embassy of Switzerland.
- Marquardt, J., Dasgupta, S., Höhne C., Lederer M., **Sankhyayan P.** (2024). Promises and Pitfalls of Polycentric Federalism: The Case of Solar Power in India. *Global Environmental Politics* 24 (3), 75–99. doi: https://doi.org/10.1162/glep_a_00749
- Dasgupta, S. and **Sankhyayan, P.** “Energy Security in India: An Indicator Based Study” *Routledge Handbook of the Indian Economy*. (Forthcoming)
- **Sankhyayan, P.** and Dasgupta, S. (2019). 'Availability' and/or 'Affordability': What matters in household energy access in India? *Energy Policy*, 131, 131-143. doi: <https://doi.org/10.1016/j.enpol.2019.04.019>
- Dasgupta, S. and **Sankhyayan, P.** (2018). “A narrative analysis of state-level renewable energy policies in India” in Gautam, A., De, S., Dhar, A., Gupta, J., Pandey, A. (Eds.) *Sustainable Energy and Transportation Technologies and Policy*. Pp 137-148. Singapore: Springer Nature. ISBN 978-981-10-7508-7. 2018.

Conferences

- Presented a paper titled, “Energy consumption behaviour of Indian households: An application of LA-AIDS” in **43rd International Association for Energy Economics (IAEE) International Conference** held from 7th-9th June 2021 via digital platform.
- Presented a paper titled, ‘What determines uptake of modern fuel: A case study of India’ in the **International Conference on Energising the SDGs through appropriate technology and governance** during 4th-5th July 2019 at De Montfort University, Leicester UK. (Via skype).
- Presented a paper titled, ‘Availability and/or Affordability: What matters more in household energy security in India’ in the **41st International Association for Energy Economics (IAEE) International Conference** during 10th -13th June, 2018 at University of Groningen, Groningen, Netherlands.

Referees

- Dr. Shyamasree Dasgupta, Associate Professor, Indian Institute of Technology Mandi, Mandi Himachal Pradesh 175005. Phone +91 8017448340 Email: shyamasree@iitmandi.ac.in
- Prof. Anamika Barua, Professor, Indian Institute of Technology Guwahati, Guwahati Assam 781039. Phone +91 9678006451 Email: abarua@iitg.ac.in
- Dr. Marcus Lederer, Professor, Institute of Political Science, Department of History and Social Sciences, Technical University Darmstadt. Phone +49 615116-57342 Email: lederer@pg.tu-darmstadt.de



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