

Shonali Pachauri

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Energy Climate and Environment Program
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PERSONAL STATEMENT

My research focuses on the role of technological, institutional, and social innovations to overcome inequalities in access to and use of energy and infrastructure in the Global South and the wider implications of this for sustainable development.

EXPERTISE

Energy & poverty, Energy & environmental economics, Energy & development, Energy & climate policy, Technical & social innovation for basic service access, Sustainable Development Goals

EDUCATION

- 2002 Ph.D. Swiss Federal Institute of Technology Zurich, Switzerland
- 1993 M.Sc. in Environmental and Resource Economics, University College London
- 1992 M.A. in Business Economics, Delhi University
- 1990 B.A. (*with honors*) in Economics, Delhi University

PROFESSIONAL APPOINTMENTS

- 2021 – present Research Group Leader, IIASA Transformative Institutional and Social Solutions, Energy Climate and Environment Program, Laxenburg, Austria
- 2020 - 2021 Acting Program Director, IIASA Transition to New Technologies Program, Laxenburg, Austria
- 2019 – 2020 Deputy Program Director, IIASA Transition to New Technologies Program, Laxenburg, Austria
- 2016 Professor (Adjunct) Yale School of Forestry and Environmental Studies, USA.
- 2009 – 2020 Senior Research Scholar, IIASA, Energy Program, Laxenburg, Austria
- 2008-2009 Deputy Program Leader, Population and Climate Change Program, Laxenburg, Austria
- 2005 – 2008 Research Scholar, IIASA, Population and Climate Change Program, Laxenburg, Austria
- 2002 – 2005 Post-doctoral Scholar, Swiss Federal Institute of Technology, Zurich (ETHZ), Centre for Energy Policy and Economics (CEPE)
- 1999 – 2002 Research Assistant and doctoral student, Swiss Federal Institute of Technology, Zurich (ETHZ), Centre for Energy Policy and Economics (CEPE)
- 1998 – 1999 Research Assistant, Swiss Federal Institute of Technology Zurich (ETHZ), Energy Analysis Research Group

- 1998 Visiting Researcher, Kyoto University, Graduate School of Energy Studies
- 1996 – 1997 Graduate Research Assistant, Department of Agricultural and Resource Economics, University of Maryland College Park, USA
- 1993 – 1996 Consultant, Ecotech Services India (Private Limited), New Delhi
- 1993 Summer Research Intern, Stockholm Environment Institute, Stockholm
- 1991 Summer Research Intern, Indian Council for Research on International Economic Relations (ICRIER), New Delhi

PUBLICATIONS

Refereed Journal Articles

- 2021 Poblete Cazenave, M. & **Pachauri, S.** (2021). A model of energy poverty and access: Estimating household electricity demand and appliance ownership. *Energy Economics* 98, e105266. 10.1016/j.eneco.2021.105266.
- 2021 Boza-Kiss, B., **Pachauri, S.**, & Zimm, C. (2021). Deprivations and Inequities in Cities Viewed Through a Pandemic Lens. *Frontiers in Sustainable Cities* 3, e645914. 10.3389/frsc.2021.645914.
- 2021 Lamb, W.F., Wiedmann, T., Pongratz, J., Andrew, R., Crippa, M., Olivier, J.G.J., Wiedenhofer, D., Mattioli, G., et al. (2021). A review of trends and drivers of greenhouse gas emissions by sector from 1990 to 2018. *Environmental Research Letters* 10.1088/1748-9326/abee4e. (In Press)
- 2020 Dagnachew AG, Poblete-Cazenave M, **Pachauri S**, Hof AF, van Ruijven B, & van Vuuren DP (2020). Integrating energy access, efficiency and renewable energy policies in Sub-Saharan Africa: a model-based analysis. *Environmental Research Letters* DOI:10.1088/1748-9326/abcbb9. (In Press)
- 2020 Hess JJ, Ranadive N, Boyer C, Aleksandrowicz L, Anenberg SC, Aunan K, Belesova K, Bell ML, **Pachauri S.** et al. (2020). Guidelines for Modeling and Reporting Health Effects of Climate Change Mitigation Actions. *Environmental Health Perspectives* 128 (11): e115001. DOI:10.1289/EHP6745.
- 2020 **Pachauri S**, Rao ND. (2020). Advancing energy poverty measurement for SDG7. *Progress in Energy*. DOI: 10.1088/2516-1083/aba890
- 2020 Agrawala S, Amann M, Binimelis de Raga G, Borgford-Parnell N, Brauer M, Clark H, Emberson L, Haines A, **Pachauri S**, et al. (2020). Call for comments: climate and clean air responses to covid-19. *International Journal of Public Health* DOI:10.1007/s00038-020-01394-3.
- 2020 Selvaraj K, Chan C, Selin N, Kandlikar M, **Pachauri S**, & Harrison R (2020). Cleaning City Skies. *One Earth* 2 (2): 113-116. DOI: 10.1016/j.oneear.2020.01.011.
- 2020 Falchetta G, **Pachauri S**, Byers E, Danylo O, & Parkinson SC. Satellite Observations Reveal Inequalities in the Progress and Effectiveness of Recent Electrification in Sub-Saharan Africa. *One Earth* DOI: 10.1016/j.oneear.2020.03.007. (In Press)
- 2020 O'Neill BC, Jiang L, KC S, Fuchs R, **Pachauri S**, Laidlaw E, Zhang T, Zhou W, et al. The effect of education on determinants of climate change risks. *Nature Sustainability* DOI:10.1038/s41893-020-0512-y.
- 2020 Kar A, **Pachauri S**, Bailis R, & Zerriffi H (2020). Capital cost subsidies through India's Ujjwala cooking gas programme promote rapid adoption of liquefied petroleum gas but not regular use. *Nature Energy* DOI:10.1038/s41560-019-0536-6. (In Press)

- 2019 Falchetta G, **Pachauri S**, Parkinson S, & Byers E. A high-resolution gridded dataset to assess electrification in sub-Saharan Africa. *Scientific Data* 6 (1): art. 110. DOI:10.1038/s41597-019-0122-6.
- 2019 Kar A., **Pachauri S.**, Bailis R., Zerriffi H. Using sales data to assess cooking gas adoption and the impact of India's Ujjwala program in rural Karnataka. *Nature Energy* 4 (9): 806-814. DOI:10.1038/s41560-019-0429-8.
- 2019 **Pachauri, S.** Varying impacts of China's coal ban. *Nature Energy* 4: 356-357.
- 2019 Mastrucci, A., Byers, E., **Pachauri, S.** & Rao, N. Improving the SDG energy poverty targets: residential cooling needs in the Global South. *Energy and Buildings* 186: 405-415. DOI:10.1016/j.enbuild.2019.01.015.
- 2018 Poblete-Cazenave M, **Pachauri S.** 2018. A Structural Model of Cooking Fuel Choices in Developing Countries, *Energy Economics*, <https://doi.org/10.1016/j.eneco.2018.09.003>.
- 2018 **Pachauri S**, Rao ND, Cameron C. Outlook for modern cooking energy access in Central America. *Plos One* <https://doi.org/10.1371/journal.pone.0197974>.
- 2018 Pelz S, **Pachauri S**, & Groh S. A critical review of modern approaches for multidimensional energy poverty measurement. *Wiley Interdisciplinary Reviews: Energy and Environment*. 7 (6): e304. DOI:10.1002/wene.304.
- 2018 Byers E, Gidden M, Leclere D, Burek P, Ebi KL, Greve P, Grey D, Havlik P, **Pachauri S** et al. Global exposure and vulnerability to multi-sector development and climate change hotspots. *Environmental Research Letters* 13: e055012. DOI:10.1088/1748-9326/aabf45
- 2018 Riva F, Ahlborg H, Hartvigsson E, **Pachauri S**, & Colombo E. Electricity access and rural development: Review of complex socio-economic dynamics and casual diagrams for more appropriate energy modelling. *Energy for Sustainable Development* 43: 203-223. DOI:10.1016/j.esd.2018.02.003.
- 2018 McCollum DL, Gomez Echeverri L, Busch S, **Pachauri S**, Parkinson S, Rogelj J, Krey V, Minx JC, et al. Connecting the sustainable development goals by their energy inter-linkages. *Environmental Research Letters* 13 (3): 033006. DOI:10.1088/1748-9326/aaafe3.
- 2017 Singh D, **Pachauri S**, & Zerriffi H. Environmental payoffs of LPG cooking in India. *Environmental Research Letters* 12 (11): e115003. DOI:10.1088/1748-9326/aa909d.
- 2017 Ahmad S, **Pachauri S**, & Creutzig F. Synergies and trade-offs between energy-efficient urbanization and health. *Environmental Research Letters* 12 (11): 1-17. DOI:10.1088/1748-9326/aa9281.
- 2017 Guo F, **Pachauri S**, Cofala J, (2017). Cost-effective subsidy incentives for room air conditioners in China: An analysis based on a McFadden-type discrete choice model, *Energy Policy*, 110: 375-385, DOI:10.1016/j.enpol.2017.08.039.
- 2017 Guo F, **Pachauri S** (2017). China's Green Lights Program: A review and assessment, *Energy Policy* 110: 31-3. DOI:10.1016/j.enpol.2017.08.002.
- 2017 Narula K, Sudhakara Reddy B, **Pachauri S**, & Mahendra Dev S (2017). Sustainable energy security for India: An assessment of the energy supply sub-system. *Energy Policy* 103: 127-144. DOI:10.1016/j.enpol.2017.01.001.
- 2017 Rao N & **Pachauri S** (2017). Energy access and living standards: some observations on recent trends. *Environmental Research Letters* 12 (2): e025011. DOI:10.1088/1748-9326/aa5b0d.
- 2017 Fricko O, Havlik P, Rogelj J, Klimont Z, Gusti M, Johnson N, Kolp P, Strubegger M, **Pachauri S**, et al. (2017). The marker quantification of the Shared Socioeconomic

- Pathway 2: A middle-of-the-road scenario for the 21st century. *Global Environmental Change* 42: 251-267. DOI:10.1016/j.gloenvcha.2016.06.004.
- 2017 Narula K, Sudhakara Reddy B, & **Pachauri S** (2017). Sustainable Energy Security for India: An assessment of energy demand sub-system. *Applied Energy* 186: 126-139. DOI:10.1016/j.apenergy.2016.02.142.
- 2016 Pahle, M., **Pachauri, S.**, Steinbacher, K. Can the Green Economy deliver it all? Experiences of renewable energy policies with socio-economic objectives. *Applied Energy*, 179, October 2016, 1331-1341. doi: 10.1016/j.apenergy.2016.06.073.
- 2016 Lam, L.N., **Pachauri, S.**, Purohit, P., Nagai, Y., Bates, M.N., Cameron, C., Smith, K.R. Kerosene Subsidies for Household Lighting in India: What are the Impacts? *Environmental Research Letters*, 11 (2016) 044014. doi:10.1088/1748-9326/11/4/044014.
- 2016 Cameron, C., **Pachauri, S.**, Rao, N.D., McCollum, D., Rogelj, J., Riahi, K. Policy tradeoffs between climate mitigation and clean cook stove access in South Asia. *Nature Energy*, 1:15010 [January 2016] (Published online 11 January 2016).
- 2016 Groh, S., **Pachauri, S.**, Rao, N.D. What are we measuring? An empirical analysis of household electricity access metrics in rural Bangladesh. *Energy for Sustainable Development*, 30:21-31 [February 2016] (Published online 28 November 2015).
- 2015 Rao, N.D., Sauer, P., **Pachauri, S.** Explaining Income Inequality Trends in Countries: An Integrated Approach. *Journal of Income Inequality*, (in review).
- 2015 Zeyringer, M., **Pachauri, S.**, Schmid, E., Schmidt, J., Worrell, E., Morawetz, U.B. Analyzing grid extension and stand-alone photovoltaic systems for the cost-effective electrification of Kenya. *Energy for Sustainable Development*, 25:75-86.
- 2014 **Pachauri, S.** Household electricity access a trivial contributor to CO2 emissions growth in India. *Nature Climate Change*, 4(12), 1073–1076.
- 2014 Rogelj, J., Rao, S., McCollum, D.L., **Pachauri, S.**, Klimont, Z., Krey, V., Riahi, K. Air-pollution emission ranges consistent with the representative concentration pathways. *Nature Climate Change*, 4(6), 446-450.
- 2014 **Pachauri, S.** Book review: Energy Access, Poverty, and Development: The Governance of Small-scale Renewable Energy in Developing Asia, by Benjamin K. Sovacool, Ira Martina Drupady (2012). *Energy*, 68, 1007-1008.
- 2014 Mainali, B., **Pachauri, S.**, Rao, N.D., Silveira, S. Assessing rural energy sustainability in developing countries. *Energy for Sustainable Development*, 19, 15-28.
- 2014 van Ruijven, B.J., Levy, M.A., Biermann, F., **Pachauri, S.** Enhancing the relevance of Shared Socioeconomic Pathways for climate change impacts, adaptation and vulnerability research. *Climatic Change*, 122(3), 481-494.
- 2014 Kimemia, D., Vermaak, C., **Pachauri, S.**, Rhodes, B. Burns, scalds and poisonings from household energy use in South Africa: Are the energy poor at greater risk? *Energy for Sustainable Development*, 18, 1-8.
- 2013 Calvin, K., **Pachauri, S.**, De Cian, E., Mouratiadou, I. The effect of African growth on future global energy, emissions, and regional development. *Climatic Change*, Published online 7 November 2013, doi:10.1007/s10584-013-0964-4.
- 2013 Rao, S., **Pachauri, S.**, Dentener, F., Kinney, P., Riahi, K., Schoepp, W. Better air for better health: Forging synergies in policies for energy access, climate change and air pollution. *Global Environmental Change*, 23(5), 1122-1130.
- 2013 **Pachauri, S.**, Rao, N.D. (2013) Gender impacts and determinants of energy poverty: are we asking the right questions. *Current opinion in Environmental Sustainability*, 5(2), 205-215.

- 2013 **Pachauri, S.**, van Ruijven, B.J., Nagai, Y., Riahi, K., van Vuuren, D.P., Brew-Hammond, A., Nakicenovic, N. Pathways to achieve universal household access to modern energy by 2030. *Environmental Research Letters*, 8(2), 024015.
- 2012 O'Neill, B.C., Liddle, B., Liang, L., Smith, K.R., **Pachauri, S.**, Dalton, M., Fuchs, R. Demographic change and carbon dioxide emissions. *The Lancet*, 380(9837), 157-164.
- 2012 Krey, V., O'Neill, B.C., van Ruijven, B., Chaturvedi, V., Daioglou, V., Eom, J., Jiang, L., **Pachauri, S.**, Ren, X. Urban and rural energy use and carbon dioxide emissions in Asia. *Energy Economics*, 34(Suppl.3), S272-S283.
- 2012 van Vliet, O., Krey, V., McCollum, D., **Pachauri, S.**, Nagai, Y., Rao, S., Riahi, K. Synergies in the Asian energy system: Climate change, energy security, energy access and air pollution. *Energy Economics*, 34(Suppl.3), S470-S480.
- 2012 Rao, S., Chirkov, V., Dentener, F., Van Dingenen, R., **Pachauri, S.**, Purohit, P., Amann, M., Heyes, C., Kinney, P., Kolp, P., Klimont, Z., Riahi, K., Schoepf, W. Environmental modeling and methods for estimation of the global health impacts of air pollution. *Environmental Modeling and Assessment*, 17(6), 613-622.
- 2012 Mainali, B., **Pachauri, S.**, Nagai, Y. Analyzing cooking fuel and stove choices in China till 2030. *Journal of Renewable Sustainable Energy* 4, 031805.
- 2012 Narula, K., Nagai, Y., **Pachauri, S.** The role of Decentralized Distributed Generation in achieving universal rural electrification in South Asia by 2030. *Energy Policy*, 47, 345-357
- 2012 **Pachauri, S.**, Urge-Vorsatz, D., LaBelle, M. Synergies between energy efficiency and energy access policies and strategies. *Global Policy*, 3(2), 187-197.
- 2012 Bazilian, M., Nussbaumer, P., Rogner, H-H., Brew-Hammond, A., Foster, V., **Pachauri, S.**, Williams, E., Howells, M., Niyongabo, P., Musaba, L., O'Gallachoir, B., Radka, M., Kammen, D.M. Energy access scenarios to 2030 for the power sector in sub-Saharan Africa, *Utilities Policy*, 20, 1-16.
- 2011 Foell, W., **Pachauri, S.**, Spreng, D., Zerriffi, H. Household cooking fuels and technologies in developing economies. *Energy Policy*, 39(12), 7487-7498.
- 2011 **Pachauri, S.** Reaching an international consensus on defining modern energy access. *Current Opinion in Environmental Sustainability*, 3(4), 235-240.
- 2011 **Pachauri, S.**, Spreng, D. Measuring and monitoring energy poverty. *Energy Policy*, 39(12), 7497-7504.
- 2010 O'Neill, B.C., Dalton, M., Fuchs, R., Jiang, L., **Pachauri, S.**, Zigova, K. Global demographic trends and future carbon emissions, *Proceedings of the National Academy of Sciences of the USA (PNAS)*, 107(41), 17521-17526.
- 2010 Doll, C., **Pachauri, S.** Estimating Rural Populations without Access to Electricity in Developing Countries through Nighttime Light Satellite Imagery, *Energy Policy*, 38(10), 5661-5670.
- 2010 Ekholm, T.H., Krey, V., **Pachauri, S.**, Riahi, K. Determinants of household energy consumption in India, *Energy Policy*, 38(10), 5696-5707.
- 2009 Gruebler, A., **Pachauri, S.** Problems with burden-sharing proposal among one billion high emitters. *Proceedings of the National Academy of Sciences of the USA (PNAS)*, 106(43), E122-E123.
- 2008 **Pachauri, S.**, Jiang, L. The Household Energy Transition in India and China. *Energy Policy* 36(11), 4022– 4035.
- 2007 Farsi, M., Filippini, M., **Pachauri, S.** Fuel Choices in Urban Indian Households, *Environment and Development Economics*, 12(6), 757-774.

- 2006 Lenzen, M., Wier, M., Cohen, C., Hayami, H., **Pachauri, S.**, Schaeffer, R. A comparative multivariate analysis of energy requirements of households in Australia, Brazil, Denmark, India and Japan, *Energy*, 31(2-3), 181-207.
- 2004 **Pachauri, S.**, Mueller, A., Kemmler, A. Spreng, D. On measuring energy poverty in Indian households, *World Development*, 32(12), 2083-2104.
- 2004 **Pachauri, S.** An analysis of cross-sectional variations in total household energy requirements in India using micro survey data, *Energy Policy*, 32(15), 1723-1735.
- 2004 Filippini, M., **Pachauri, S.** Elasticities of electricity demand in urban Indian households, *Energy Policy*, 32(3), 429-436.
- 2004 **Pachauri, S.**, Spreng, D. Energy use and energy access in relation to poverty, *Economic and Political Weekly*, XXXIX(3), 271-278.
- 2002 **Pachauri, S.**, Spreng, D. Direct and indirect energy requirements of households in India, *Energy Policy*, 30(6), 511-523.

Edited Volumes (including Special Issues)

- 2011 Foell, W., **Pachauri, S.**, Spreng, D., Zerriffi, H. Foreword to a *Special Issue: Clean Cooking Fuels and Technologies in Developing Economies*. *Energy Policy*, 39(12), 7485-7486.
- 2011 **Pachauri, S.**, Cherp, A. Editorial Overview to a *Special Issue - Energy security and energy access: Distinct and interconnected challenges*. *Current Opinion in Environmental Sustainability*, 3(4), 199-201.

Books

- 2007 **Pachauri, S.** *An Energy Analysis of Household Consumption: Changing Patterns of Direct and Indirect Use in India*. Berlin, Heidelberg, New York: Springer.

Book Chapters

- 2019 Kar, A., Singh, D., **Pachauri, S.**, Bailis, R. & Zerriffi, H. Ujjwala at 6 crores: Impact on Cooking Energy Transition and Climate Change. In: *The Ujjwala Saga - Unending Happiness & Health*. pp. 16-21 Ministry of Petroleum and Natural Gas, Government of India.
- 2018 **Pachauri S.** Chapter 5. Introduction to Part II: Integrative Frameworks and Participatory Governance for Effective Water-Energy-Food Systems Management. In: *Systems Analysis Approach for Complex Global Challenges*. Eds. Mensah, P., Katerere, D., Hachigonta, S. & Roodt, A., pp. 91-92 Heidelberg: Springer. ISBN 978-3-319-71485-110.1007/978-3-319-71486-8_5.
- 2012 **Pachauri, S.** Demography, urbanisation and energy demand. In Toth, F.L. (ed) *Energy for Development: Resources, Technologies, Environment*. Springer Verlag, Dordrecht, Netherlands, pp. 81-94.
- 2012 **Pachauri, S.**, Spreng D. Towards an integrative frame-work for energy transitions of households in developing countries. In Flüeler, T., Goldblatt, D., Minsch, J., Spreng, D. (ed) *Meeting Global Energy Challenges: Contributions from the Social Sciences*. Springer: Berlin, Heidelberg, New York, pp. 73-96.
- 2012 Riahi, K., Dentener, F., Gielen, D., Grubler, A., Jewell, J., Klimont, Z., Krey, V., McCollum, D.L., **Pachauri, S.**, Rao, S., van Ruijven, B., van Vuuren, D.P., Wilson, C.

- Chapter 17: Energy pathways for sustainable development. In *Global Energy Assessment: Toward a Sustainable Future*. Cambridge University Press: Cambridge, UK and New York, NY, USA and International Institute for Applied Systems Analysis (IIASA): Laxenburg, Austria, pp 1203-1306.
- 2012 Grubler, A., Johansson, T.B., Muncada, L., Nakicenovic, N., **Pachauri, S.**, Riahi, K., Rogner, H-H., Strupeit, L. Chapter 1: Energy primer. In *Global Energy Assessment: Toward a Sustainable Future*. Cambridge University Press: Cambridge, UK and New York, NY, USA and International Institute for Applied Systems Analysis (IIASA): Laxenburg, Austria, pp 99-150.
- 2012 **Pachauri, S.**, Brew-Hammond, A., Barnes, D.F., Bouille, D.H., Gitonga, S., Modi, V., Prasad, G., Rath, A., Zerrifi, H. Chapter 19: Energy access for development. In *Global Energy Assessment: Toward a Sustainable Future*. Cambridge University Press: Cambridge, UK and New York, NY, USA and International Institute for Applied Systems Analysis (IIASA): Laxenburg, Austria, pp 1401-1458.
- 2011 **Pachauri, S.** The energy poverty dimension of energy security. In Sovacool, B.K. (ed) *The Routledge Handbook of Energy Security*. Routledge, London, UK, pp.191-204.
- 2009 Spreng, D., **Pachauri, S.** Energieverbrauchsentwicklung in Indien unter besonderer Berücksichtigung der nicht-kommerziellen Energie. In von Rohr, P.R., Walde, P., Batlogg, B. (ed) *Energie*, vdf Hochschulverlag AG an der ETH Zurich, Switzerland pp.75-86.

Policy Reports

- 2021 SDG7 Technical Advisory Group, (2021). *Leveraging Energy Action for Advancing the Sustainable Development Goals: Policy Briefs in Support of the High-Level Political Forum*. United Nations Department of Economic and Social Affairs (UN DESA), New York, USA.
- 2021 Zakeri, B. , Paulavets, K., Barreto-Gomez, L., Gomez Echeverri, L., **Pachauri, S.** , Rogelj, J. , Creutzig, F., Urge-Vorsatz, D., et al. (2021). *Transformations within reach: Pathways to a sustainable and resilient world - Rethinking energy solutions*. IIASA Report. IIASA-ISC
- 2020 Gomez Echeverri L, Zakeri B, Alexander S, Barreto-Gomez L, Bazilian M, Boza-Kiss B, Creutzig F, Fritz S, et al. (2020). Report on Second Consultative Science Platform. *Bouncing Forward Sustainably: Pathways to a post-COVID World. Sustainable Energy*. IIASA-ISC
- 2020 TWI2050 - The World in 2050 (2020). *Innovations for Sustainability. Pathways to an efficient and post-pandemic future*. Report prepared by The World in 2050 initiative. International Institute for Applied Systems Analysis (IIASA)
- 2020 Zakeri B, Barreto-Gomez L, Boza-Kiss B, Gomez Echeverri L, Fritz S, Gielen D, Ghoneim R, **Pachauri S**, et al. (2020). *Bouncing Forward Sustainably: Pathways to a post-COVID world. Sustainable Energy*. IIASA-ISC
- 2019 Clancy, J., Barnett, A., Cecelski, E., **Pachauri, S.**, Dutta, S., Oparaocha, S. & Kooijman, A. (2019). *Gender in the transition to sustainable energy for all: From evidence to inclusive policies*. ENERGIA the International Network on Gender and Sustainable Energy.
- 2018 TWI2050 - *The World in 2050*, (2018). *Transformations to Achieve the Sustainable Development Goals*. Report prepared by The World in 2050 initiative. IIASA Report. International Institute for Applied Systems Analysis (IIASA). Laxenburg, Austria
- 2017 Dobrotkova Z, Dorner D, Daly D, Gielen D, Saygin D, Winkler S, Neil S, Riahi K, **Pachauri S**, et al. (2017). Future Prospects. In: *Global Tracking Framework 2017: Progress Towards Sustainable Energy*. pp. 93-102 Washington DC: World Bank. ISBN 978-1-4648-1084-8 DOI:10.1596/978-1-4648-1084-8.

- 2014 Watson, R., Nakicenovic, N., Rosenthal, E., Goldenberg, J., Amann, M., **Pachauri, S.** et al. *Tackling the Challenge of Climate Change: A Near-term Actionable Mitigation Agenda*. Alliance of Small Island States (AOSIS).
- 2014 Jurisoo, M., **Pachauri, S.**, Johnson, O., Lambe, F. *Can low-carbon options change conditions for expanding energy access in Africa?* SEI Discussion Brief, Stockholm Environment Institute, Stockholm, Sweden.
- 2013 **Pachauri, S.**, Scott, A., Scott, A., Shepherd, A. *Energy Policy Guide - Energy for All: Harnessing the Power of Energy Access for Chronic Poverty Reduction*. Chronic Poverty Advisory Network (CPAN), London, UK.
- 2012 **Pachauri, S.**, Rao, N.D., Nagai, Y., Riahi, K. *Access to Modern Energy: Assessment and Outlook for Developing and Emerging Regions*. IIASA, Laxenburg, Austria.
- 2012 Nilsson, M., Heaps, C., Persson, A., Carson, M., **Pachauri, S.**, Kok, M., Olsson, M., Rehman, I., Schaeffer, R., Wood, D., van Vuuren, D., Riahi, K., Americano, B., Mulugetta, Y. *Energy for a Shared Development Agenda: Global Scenarios and Governance Implications*. Stockholm Environment Institute (SEI), Stockholm, Sweden.

Other Publications

- 2020 Poblete-Cazenave, M., & **Pachauri, S.** (2020) A simulation-based estimation model of household electricity demand and appliance ownership. Munich Personal RePEc Archive (MPRA) Paper No. 103403, <https://mpra.ub.uni-muenchen.de/103403/>
- 2020 Sauer, P., Rao, N.D. & **Pachauri, S.** (2020) Explaining income inequality trends: An integrated approach. WIDER Working Paper 2020/65. Helsinki: UNU-WIDER.
- 2017 McCollum D, Gomez Echeverri L, Busch S, **Pachauri S**, Parkinson S, Rogelj J, Krey V, Riahi K, et al. (2017). Connecting the Sustainable Development Goals by their energy inter-linkages. IIASA Working Paper. IIASA, Laxenburg, Austria: WP-17-006
- 2015 **Pachauri, S.**, Cameron, C., Rao, N.D., McCollum, D., Rogelj, J., Riahi, K. Ummel, K. Report on the distributional effects of climate policy & the interaction with energy access policies. Deliverable D3.3 for the ADVANCE project funded under the European Union's Seventh Programme FP7/2007-2013 under grant agreement n° 308329 (ADVANCE).
- 2014 Grubler, A., Nakicenovic, N., **Pachauri, S.**, Rogner, H-H., Smith, K.R. Energy Primer. Available at <http://www.energyprimer.org>. International Institute for Applied Systems Analysis, Laxenburg, Austria.
- 2011 Rao, S., Chirkov, V., Dentener, F., Van Dingenen, R., **Pachauri, S.**, Purohit, P, Amann, M., Heyes, C., Kinney, P., Kolp, P., Klimont, Zbigniew, Riahi, K., Schoepp, W. Estimation of the Global Health Impacts of Air Pollution. IIASA Interim Report IR-11-035, International Institute for Applied Systems Analysis, Laxenburg, Austria.
- 2011 Bazilian, M., Nussbaumer, P., Rogner, H-H., Brew-Hammond, A., Foster, V., **Pachauri, S.**, Williams, E., Howells, M., Niyongabo, P., Musaba, L., O'Gallanchoir, B., Radka, M., Kammen, D.M. Energy Access Scenarios to 2030 for the Power Sector in Sub-Saharan Africa. Nota di Lavoro 68.2011, Fondazione Eni Enrico Mattei (FEEM), Milan, Italy.
- 2011 O'Neill, B.C., Fuchs, R., Jiang, L., K.C., Samir, **Pachauri, S.** The Effect of Education on Future Energy Demand and Carbon Emissions. Proceedings of the 2011 Population Association of America annual conference.
- 2010 Fuchs R, Pachauri S, Energy Access and Poverty in Brazil, India, Indonesia and Mexico. Proceedings of the 2010 Asian Population Association annual conference.

- 2009 Zigova, K., Fuchs, R., Jiang, L., O'Neill, B.C., **Pachauri, S.** Household Survey Data Used in Calibrating the Population-Environment-Technology Model. IIASA Interim Report IR-09-046. Laxenburg, Austria: IIASA.
- 2009 Fuchs, R., **Pachauri, S.**, O'Neill, B.C. Production Data for the Population-Environment-Technology (PET) Model. IIASA Interim Report IR-09-025. Laxenburg, Austria: IIASA.
- 2008 **Pachauri, S.**, Jiang, L. The household energy transition in India and China. IIASA Interim Report IR-08-009. Laxenburg, Austria: IIASA.
- 2008 **Pachauri S.**, Mueller A., An Analysis of Electricity Access and Use in Indian Households: A Regional Decomposition of Consumption for 1980-2005. Proceedings of 31st International IAEE Conference 2008, Istanbul, Turkey.
- 2007 Dalton, M., Jiang, L., **Pachauri, S.**, and B.C. O'Neill. Demographic change and future carbon emissions in China and India. Proceedings of the 2007 Population Association of America conference, March 28- March 31, New York.
- 2007 **Pachauri, S.** Energy balancing and an energy analysis of Indian input-output accounts: assessing sectoral energy intensities over two decades. Proceedings of the 2007 Conference on Input-Output Analysis for the Indian and the World Economy, New Delhi, India.
- 2006 **Pachauri S.**, Kemmler A., Boesch M., Deb K. The Adverse Health Implications of Fuelwood Consumption among Indian Householders. Proceedings of 29th International IAEE Conference 2006, Postdam, Germany.
- 2005 Farsi M., **Pachauri, S.** and M. Filippini. Fuel Choices in Urban Indian Households. CEPE Working Paper, ETH Zurich.
- 2002 **Pachauri, S.** An Energy Analysis of Household Consumption in India. Doctoral Thesis, ETH Diss. No. 14796. Swiss Federal Institute of Technology Zurich, Zurich.
- 1999 **Pachauri, S.** A First Step to Constructing Energy Consumption Indicators for India. Interim Report of The AGS Indicator Project and CEPE Internal Report, ETH Zurich.
- 1998 **Pachauri, S.** Review of Demand Assessment Studies in India. Inputs to a Consultant report, ETS, New Delhi submitted to the Water Supply and Sanitation Programme of UNDP and the World Bank, July 1998.
- 1997 **Pachauri, S.** Groundwater Policy and Management: A Developing Country Perspective. Term paper submitted to the Department of Agricultural and Resource Economics, The University of Maryland College Park, USA.
- 1996 Arora, H., **Pachauri, S.** Review of Watershed Development in India. Consultant report, ETS, submitted to the Watershed Development Coordination Unit, DANIDA, India.
- 1996 Puroshothaman, S., **Pachauri, S.**, Kumar, A., Lall, P. User Valuation of Renewable Natural Resources - Case Study from Central Rajasthan. Research report submitted to the Ford Foundation.
- 1995 Arora H., **Pachauri, S.** Baseline Study of the Energy and Water Sector," Consultant report, ETS, submitted to the Canadian International Development Agency, India.
- 1995 Kumar, A., Lall, P., Arora, H., **Pachauri, S.** Policy Analysis and Review of Land and Water Sectors in India. Consultant report, ETS, submitted to the Development Cooperation Section, Royal Netherlands Embassy, India.
- 1994 Lall, P., **Pachauri, S.** Gender and Poverty in Rural Bundelkhand - Implications for Access to Resources. Consultant report, ETS, submitted to the Development Cooperation Section, Royal Netherlands Embassy, and the Government of Uttar Pradesh, India.

- 1994 Lall, P., **Pachauri, S.** Land and Water Markets in Rural Bundelkhand. Consultant report, ETS, submitted to the Development Cooperation Section, Royal Netherlands Embassy, and the Government of Uttar Pradesh, India, May.
- 1994 **Pachauri, S.** Status of Industrial Pollution Control Measures in India. Consultant report, ETS, submitted to the Harvard Institute for International Development.
- 1993 **Pachauri, S.** Natural Resource Accounting and Forest Depreciation in India. M.S. thesis submitted to University College London.
- 1991 **Pachauri, S.** Central Manufacturing Enterprises in India-Expenditure Trends (1980-90). Research report submitted to the Indian Council for Research on International Economic Relations (ICRIER).

INVITED TALKS

- 2021 Panelist at the webinar on The Hidden Side of Energy Access: Understanding Clean Cooking Access organized by ESMAP, HEPA, WHO, CCA on 12 May 2021. Available at https://www.youtube.com/watch?v=0x1OSgDB_TY
- 2021 Getting to know the new RGLs presentation on the Transformative Institutional and Social Solutions Research Group Leader, IIASA, 12 May 2021
- 2021 Panel presentation on “Equity and Distributional Impacts: Energy & Climate” at the ENERGIA 1st Scientific Workshop, organized by Centro Euro-Mediterraneo sui Cambiamenti Climatici (CMCC) & Università Ca' Foscari Venezia, 04 May 2021
- 2021 Panelist on Roundtable discussion on “Ensuring sustained LPG use: what should be the post-Ujjwala focus?” organized by PRAYAS, Pune on 18 March 2021
- 2021 Presentation on “Low-carbon Development Pathways for Better Health, Equity and Air Quality” at the Energy Decarbonization, Health and Equity Session of the Webinar on Expanding the scope of research in Planetary Health in Europe as part of the ISGlobal Severo Ochoa webinar series, 10 March 2021. Available at <https://www.youtube.com/watch?v=Xl5mQXQ89I8>
- 2021 Presentation on “Policy Imperatives, System Dynamics and Challenges to Household Energy Transition” at 'No Paraffin! Campaign' National Roundtable Discussion Webinar Series organized by by Academy of Science of South Africa (ASSAf) jointly with the Unisa Institute for Social and Health Sciences (ISHS), the South African Medical Research Council (SAMRC), and the North-West University (NWU), 25 February 2021.
- 2021 Panel presentation on Five years of the MTF to measure energy access: Practices, lessons learned, & outlook for cost-efficiently tracking progress towards SDG 7. Organized by the Institute for Advanced Sustainability Studies, Potsdam, Germany, 9 February 2021.
- 2020 Presentation on “Recasting Energy Demand in terms of Wellbeing” at the EDITS workshop organized by RITE and IIASA on 8 December 2020.
- 2020 Discussant at the Scenario Planning Workshop for the Next Phase of ENERGIA’s Strategy. ENERGIA Advisory Group Meeting, 19 November 2020
- 2020 Panel presentation on “Transition to Cleaner Fuels & Energy in Homes” at the Sustainable Fuels Panel discussion for the VIABHAV Global Summit of Overseas and Resident Indian Scientists and Academicians organized by Indian Institute of Technology, Mumbai and Government of India, 22 October 2020.
- 2020 Panel presentation on “Using Satellite Data to Track Electricity Access in Africa” at the SDG 7: Affordable and Clean Energy Webinar organized by the Secure World Foundation & MIT Media Lab Event, 22 July 2020 <https://www.media.mit.edu/events/sdg-7->

- [affordable-and-clean-energy/](https://www.youtube.com/watch?v=Dt1ZHNdEAyY); available at <https://www.youtube.com/watch?v=Dt1ZHNdEAyY>
- 2020 Discussant on Energy demand reduction through unconventional means and influencing behavior, at the Sustainable Energy 2nd Consultation. IIASA-ISC Consultative Science Platform, 22 July 2020
- 2020 Discussant at the Next Phase of ENERGIA Research Strategy. ENERGIA Advisory Group Meeting, 22 April 2020
- 2020 Discussant at the London School of Hygiene and Tropical Medicine Visiting Committee meeting, London, United Kingdom, 11-12 March 2020
- 2020 Keynote Presentation: "Energiewende and Innovation" at the World Sustainable Development Forum (WSDF), Durango, Mexico, 5-7 March 2020. Available at <https://www.youtube.com/watch?v=MD6q1Q9EzfY>
- 2019 Presented: "Direct household energy access and demand" presented at the Joint IIASA-RIITE International Workshop at IIASA, Austria 11-13 Nov., 2019.
- 2019 Presented: "Energy poverty from a global perspective" at a Seminar on Policies and Measures to Combat Energy Poverty, organized by the Naturgy Foundation, Madrid, Spain, 04 Nov. 2019.
- 2019 Participated in the United Nations Economic and Social Council's Economic Commission for Europe - The 57th session of the Working Group on Strategies and Review under the Convention on Long-range Transboundary Air Pollution, Geneva, Switzerland, 21-24 May 2019.
- 2019 Presentation on "Insights on India's Energy & Climate Science and Policy Landscape" at the Beyond Europe FTI Internationalisierung-Roundtable zum Fokusthema Indien, at BMBWF, Vienna, 27 March 2019.
- 2019 Attended the Wellcome Trust Workshop on Co-benefits of Climate Mitigation in London, UK, 04-08 March 2018.
- 2019 Attended a writing workshop to finalize the Gender and Energy Research Program Synthesis report in London, UK, 27 January -03 February 2019.
- 2018 Presentation on "Energy Policy Design Principles for Achieving Internationally Agreed Goals" at the Joint Policy Day for the Green-Win, Transrisk and CD-Links Projects in Brussels, Belgium, 07 November 2018.
- 2018 Attended the Annual meeting of the Gender and Energy Research Program and the Technical Advisory Group meeting in Kigali, Rwanda, 22-30 October 2018.
- 2018 Presentation on "The Role of Solid Biomass in Future Energy Systems: Considering Access to Clean Energy" at the Haze and biomass burning in Asia – a systems perspective to reveal opportunities with benefits for long-term transformations workshop at the Institut Teknologi Bandung (ITB), Bandung, Indonesia, 04-05 October, 2018.
- 2018 Presentation on "Measuring Multi-Dimensional Household Electricity Poverty: Implications for Global Tracking and National Planning" at the LCEDN conference in Loughborough, UK on 01 June 2018.
- 2018 Presentation on "CCAC Scientific Advisory Panel 2018 Annual Science Update" at the Climate and Clean Air Coalition Science Policy Dialogue, Toronto, Canada, 18 April 2018.
- 2018 Presentation on "Measuring Multi-Dimensional Electricity Poverty: Implications for Global Tracking and National Planning" at the Conference on Providing Reliable & Affordable Electricity in Countries with Energy Deficits, Bellagio, Italy, 27 February 2018.

- 2018 Presentation on “Achieving Universal Energy Access Goals in the SDG Era” at the Transformative infrastructures: Second energy vulnerabilities and pathways symposium, Manchester, UK, 1 February 2018.
- 2017 Presentation on ‘Synergies and tradeoffs between modern energy access, clean air and climate mitigation goals’ at the Korea-Austria Energy & Environment Forum, Vienna, Austria, 23 November 2017.
- 2017 Presentation on ‘Sustainable Energy Access in Developing Countries’ at the Energy Academy Europe, Groningen, the Netherlands, 17 November 2017.
- 2017 Presentation on ‘Modern Energy Access: Synergies & Tradeoffs with Climate Mitigation and other SDGs’ at the Sustainable Energy Solutions Program, Groningen, the Netherlands, 16 November 2017.
- 2017 Presentation on ‘Research Update – Energy Access, Climate and SDGs’ at the Climate and Clean Air Coalition (CCAC) Science Advisory Panel (SAP) Meeting, Paris, France, 27 September 2017
- 2017 Presentation on ‘Socioeconomic Heterogeneity in Model Applications (SCHEMA)’ as part of Energy Group Internal Seminar, Laxenburg, Austria, 03 July 2017.
- 2017 Presentation for the Vienna Energy Forum 2017 side event on Global Research Initiatives in Support of the 2030 Development Agenda and the Paris Agreement. “SDG 7 Interactions with other SDGs: A Focus on Target 7.1 on Energy Access.” Presented at Vienna, Austria on May 10, 2017.
- 2016 Presentation for the Center for Industrial Ecology Lunch Seminar series. “Energy Access & Climate Mitigation: Synergies & Tradeoffs.” Presented at School of Forestry and Environmental Studies, Yale University, New Haven, USA on Nov. 11, 2016.
- 2016 Presentation for the Stanford Energy Seminar series. “Modern Energy Access: Synergies & Tradeoffs with Climate Mitigation and other SDGs.” Presented at the Precourt Institute for Energy at Stanford University, Palo Alto, USA on May 09, 2016. Available at <https://www.youtube.com/watch?v=Gmn97nYPMI8>
- 2016 Plenary presentation at the Bali Clean Energy Forum 2016. “Universal Access to Modern Cooking Energy Services: Synergies with other SDGs.” Presented in Bali, Indonesia on February 11, 2016.
- 2015 Invited talk at the Climate Works Foundation Annual Non-CO2 Summit. “Health & Climate Burden of Electricity Poverty.” Presented in Ljubljana, Slovenia on June 16, 2015.
- 2015 Plenary session of the 2015 IAEE 38th Annual Conference. “Energy Access: Synergies with Other Developmental and Climate Goals.” Presented in Antalya, Turkey on May 27, 2015.
- 2014 International Center for Climate Governance (ICCG)’s international lectures series. Presented “How Does Achieving a Universal Modern Energy Access Goal Affect the Attainment of Other SDGs?” in Venice, Italy, 15 September 2014.
- 2014 Workshop on Energy Poverty and Energy Access: Global Challenges and Goals. Presented “A Global Perspective on Energy Access” in Milan, Italy, 10-11 July 2014.
- 2014 2014 Gordon Research Conference on Industrial Ecology: Transforming the Industrial Metabolism. Keynote speech on “Universal Modern Energy Access: Potential Synergies and Tradeoffs with Other Sustainable Development Goals” in Lucca, Italy, 1-6 June 2014.
- 2014 Clean Cooking Conference convened in partnership by the World Health Organisation, the Global Alliance for Clean Cookstoves and the UK Department for International Development. Presented “Climate & Emissions Impacts of Household Solid Fuel Cooking” in London, UK on 01 May 2014.

- 2014 Expert Workshop on Energy Access and Climate Mitigation: Synergies and Trade-offs. Presented “Universal Modern Energy Access: Potential Synergies and Trade-offs with other Climate, Pollution and Energy Goals” in Nairobi, Kenya on 10 April 2014.
- 2013 Energy Access & the Nexus with Water and Food. Panel discussant on “Energy Access, Human Rights and Equity” at session 1 of the conference in Milan, Italy on 04 December 2013.
- 2013 Bonn Cooking Energy Forum. Presented on “Cooking Energy and the SE4All Agenda”, in Bonn, Germany on 28 June 2013.
- 2013 Vienna Energy Forum 2013. “Universal Energy Access: From Minimum Needs to Decent Living”. Presentation with Narasimha Rao in Vienna, Austria on 29 May 2013.
- 2013 West Coast Launch of the GEA. “How to Achieve Universal Modern Energy Access by 2030?” Presentation with Hisham Zerriffi at Stanford University, USA on 21 May 2013.
- 2013 Clean Energy Ministerial Meeting. “GEA Scenarios for Universal Modern Energy Access”. Presented at the GEA side event in New Delhi, India on 18 April 2013.
- 2013 Global Alliance for Clean Cookstoves (GACC) Biennial meeting. “Household Energy Access: Achievements and Challenges”. Presented in Phnom Penh, Cambodia on 20 March 2013.
- 2012 GEA launch event. “GEA Scenarios for Universal Modern Energy Access”. Presented in Oslo, Norway on 03 December 2012.
- 2012 Lecture series jointly organized by the Austrian Energy Agency and the Austrian Development Agency in Vienna. Panel discussant on “Sustainable Energy for All – But for whom first?” in Vienna on 29 November 2012.
- 2012 FNF Colloquium Energy: Friend or Foe? “Energy for Development in a Changing Climate” Presented in Potsdam, Germany on 18 September 2012.
- 2012 Plenary session of the IAEE Annual International European Conference. “Energy Access: An Assessment and Outlook till 2030” Presented in Venice, Italy on 11 September 2012
- 2012 Plenary session of the 2012 International Energy Workshop (IEW) conference. “Universal Modern Energy Access: Challenges and Outlook”. Presented in Cape Town, South Africa, 19-21 June 2012.
- 2012 “Energy Access: An Assessment and Outlook till 2030”. Presented at the IIASA-UNIDO regional workshop on Global Energy Transformation Pathways and Policy Tools, Yerevan, Armenia, 29 June 2012.
- 2012 Workshop on Energy Poverty organized by the International Energy Agency (IEA) “Energy Access Data and its Limitations”. Presented in Paris, France, 25 May 2012.
- 2012 “Energy Access: An Assessment and Outlook till 2030”. Presented at the IIASA-TERI-UNIDO regional workshop on Global Energy Transformation Pathways and Policy Tools, New Delhi, India, 08 May 2012.
- 2012 Workshop on Energy Poverty organized by FEEM “What will it take to achieve universal household access to electricity and clean cooking by 2030”? Presented in Venice, Italy, 12-14 March 2012.
- 2012 2nd IEF - OFID Symposium on Energy Poverty: Global initiatives and regional cooperation to eradicate energy poverty. “Promoting Universal Energy Access: Achievements & Challenges”. Presented at the, OFID Headquarters, Vienna, Austria, 15-16 November 2011.

- 2011 Delhi Ministerial Dialogue on 'Green Economy and Inclusive Growth'. "Promoting Universal Energy Access: Achievements & Challenges". Presented at the, Hotel Ashok, Convention Hall, Diplomatic Enclave, New Delhi, October 2011.
- 2011 GEA Stakeholder's Consultation, Global Environment Facility (GEF). "Household Access to Electricity and Clean Cooking". Presented in Washington, D.C., USA, 23-25 January 2011.
- 2010 Delhi International Renewable Energy Conference (DIREC) 2010. "Renewable Energy and Household Energy Access in India." Presented at the Plenary on "Renewable Energy in India" in Noida, India, October 28, 2010.
- 2010 European Population Conference 2010. "Europe's Population and Climate Change." Presented at the Opening Plenary in Vienna, Austria, September 1, 2010.
- 2010 Lunch Seminar in Energy, Environmental and Resource Economics. "A New Approach to Analyzing Non-Monetary Drivers of Household Fuel Choices among the Poor in Developing Countries." Presented at the, CEPE, Swiss Federal Institute of Technology Zurich (ETHZ), Zurich. May 21, 2010.
- 2009 International Workshop on Energy Security Concepts and Indicators for Asia "Energy Security from the Perspective of Households: Access and Poverty Dimensions." Presented at the Lee Kuan Yew School of Public Policy, National University of Singapore, Singapore. November 16, 2009.
- 2009 Scientific Forum of the International Atomic Energy Agency (IAEA), 2009. "Demography, Migration and Energy Demand." Presented in Vienna. September 15, 2009.
- 2009 joint conference on Competing Claims on Energy organized by the Energy Science Centre and North-South Centre of the Swiss Federal Institute of Technology Zurich (ETHZ) "Energy and Poverty - Implications of Depending on Traditional Bioenergy Technologies." Presented in Zurich. September 10, 2009.
- 2009 African Regional Workshop "Enhancing Energy Access in Rural and Peri-Urban Settlements: Knowledge-Based Policy Engagement. "Barriers to Enhancing Energy Access for Households in India and China." Presented at the Energy Research Centre (ERC) of the University of Cape Town (UCT), Cape Town, South Africa. May 26, 2009.
- 2009 World Bank Energy Week "Rural Energy" Presented at the World Bank, Washington D.C. April 1, 2009.
- 2008 Institute of Social Ecology (IFF). "Socio-Economic and Demographic Dimensions of Energy Access and Use in Developing Countries". Presented in Vienna. May 21, 2008.
- 2007 International Energy Agency (IEA). "Demographic and Socio-Economic Dimensions of Energy Transitions in India and China" Presented in Paris, France. March 30, 2007.
- 2007 The 30th IAEE International Conference. "Energy Poverty and the Development Process" Presented at the Plenary on Energy, Poverty and Sustainable Development in Wellington, New Zealand. 20 February 2007.
- 2006 Workshop for an Agenda for Social Science Research Related to Long-term Energy Options (ASRELEO). "Energy, Well being and Development" presentation made in Zurich, Switzerland, October 5-6, 2006.
- 2006 IIASA Energy Day. "Linkages between Demographics, Development and Energy (a bottom-up view)". Presented in Laxenburg, Austria, June 12, 2006.
- 2005 International Institute of Applied Systems Analysis (IIASA). "Energy Use, Energy Access and Energy Poverty in India." Presentation made in Laxenburg, Austria, March 2005.

- 2003 Colloquium on Energy Economics. “Indian Household Energy Use and Energy Access in Relation to Poverty.” Presented at the Centre for Energy Policy and Economics, Swiss Federal Institute of Technology, Zurich (Switzerland), October 2003.

CONFERENCE ACTIVITY

- 2021 Plenary presentation on “Universal Basic Energy Supply: Do We Need It & How Do We Set It?” MES Conference 2021 - Decentralized Electrification, Network Interconnection and Local Power Markets, virtually on 03 March 2021. Recording at <https://www.youtube.com/watch?v=V11LOi21zO8>
- 2020 Global scenarios of household appliance ownership and energy demand. Presented at - Thirteenth *Annual Meeting of the Integrated Assessment Modeling Consortium (IAMC)*. Virtually, 2 December 2020.
- 2020 Participated as Lead Author in Chapter 2 - Emissions trends and drivers. in the AR6 WG III Third Lead Author e-Meeting of the Intergovernmental Panel on Climate Change (IPCC), 15-19 April 2020
- 2019 Phasing out Solid Biomass Cooking in the Global South: Exploring the Pace and Impacts under the SSPs. Presented at the Scenarios Forum, Denver, 10-12 March 2019.
- 2018 Income Growth & Household Electricity Demand: Implications of Heterogeneous Elasticities. Presented at the *Beijing Energy Conference 2018* in Beijing, China, 13 September 2018.
- 2014 Universal Modern Energy Access: Potential Synergies and Tradeoffs with Other Sustainable Development Goals. Presented at the *2014 Gordon Research Conference on Industrial Ecology: Transforming the Industrial Metabolism*. in Lucca, Italy, 1-6 June 2014.
- 2013 Household Access to Modern Energy & Energy Needs for Decent Living. Presented at the Dialogue Forum on *Low Carbon Development and Poverty Reduction* in New Delhi, India on 22 February 2013.
- 2012 Deprivations and Inequalities in Multiple Dimensions: Electricity Access for Improving Human Well-being. Presented at the *40th Anniversary ILASA Conference* in Vienna, Austria on 25 October 2012.
- 2011 Energy Access in the Developing World: Present State and Efforts to Improve It. Presented at the *Smart Energy Strategies Conference 2011*, Swiss Federal Institute of Technology Zurich (ETH Zurich), Zurich, Switzerland, 20-25 September 2011.
- 2010 Issues with Defining, Measuring and Monitoring Energy Poverty for the Rural Poor. Presented at the *International Boserup Centennial Conference* “Long-term trajectories in population, gender relations, land use, and the environment” in Vienna, Austria on November 15, 2010.
- 2010 Estimating the Inconvenience Costs of Traditional Fuels to Assess Non-monetary Drivers of Household Fuel Choices in Developing Countries. Presented at the *2010 LAEE Annual Conference* in Rio, Brazil on June 7, 2010.
- 2009 Future Scenarios for Improving Access to Modern Energy Services in Indian Households. Presented at the *10th European Conference of the International Association for Energy Economics (IAEE)* in Vienna on September 08, 2009.
- 2009 Urbanization and Household Energy Choices in Developing Countries. Presented at the *7th Open Meeting of the International Human Dimensions of Global Environmental Change, (IHDP)* “Social Challenges of Global Change,” in Bonn, Germany on April 27, 2009.

- 2008 Report of the pre-conference workshop on “Energy and Poverty: Clean Cooking Fuels”. Presented at the plenary session of the *31st LAEE International Conference* in Istanbul, Turkey on June 19, 2008.
- 2007 Energy balancing and an energy analysis of Indian input-output accounts: Assessing sectoral energy intensities over two decades. Presented at the *Conference on Input-Output Analysis for Indian and the World Economy* in TERI, New Delhi, India on Dec. 17-21, 2007.
- 2006 Regional Disparities in Energy Use and Access across Households in India. Presented at the *26th USAEE/LAEE Annual North American Conference* in Ann Arbor, Michigan, USA on September 24-27, 2006.
- 2006 The Adverse Health Implications of Fuelwood Consumption among Indian Householders. Presented at the *29th International LAEE Conference 2006* in Potsdam, Germany on June 6-10, 2006.
- 2005 Energy Poverty and Development. Presented at the Plenary Session of the *annual 2005 conference of the International Association of Energy Economics* in Taipei, Taiwan on June 2005.
- 2005 Fuel Choices in Urban Indian Households. Presented at the *Annual Conference of the Swiss Society of Economics and Statistics (SSES)* in Zurich (Switzerland) on March 2005.
- 2004 Energy Transitions, Energy Poverty and Distribution in Urban Delhi Households. Poster Presentation at the *International Conference on Sustainability and Urban Growth in Developing Countries* in Monte Verita (Switzerland) on 31 October - 3 November 2004.
- 2004 A Novel Way of Representing the Distribution of Energy Consumption - The Case of Indian Households. Poster Presentation at the *European Conference of the International Association of Energy Economics* in Zurich (Switzerland) on September 2004
- 2002 Elasticities of Electricity Demand in Urban Indian Households. Poster paper presentation at the *annual conference of the International Association of Energy Economics*, in Aberdeen, UK on June 2002.
- 2001 An Empirical Analysis of Cross-Sectional Variations in Total Household Energy Requirements in India. Presented at the *annual research conference on applied energy economics and policy of the Swiss Association for Energy Economics* in Zurich on October 2001.

CAMPUS OR DEPARTMENTAL TALKS

- 2019 Summer School, Presentation for the EPFL Energy Doctoral School NRG 2019: Energy Systems: managing the transition to renewables. “Economics of Renewable Energy & Energy Efficiency”, in Champéry, Switzerland, 10th June 2019.
- 2016 Fall Semester, Presentation for the Center for Industrial Ecology Lunch Seminar series. “Energy Access & Climate Mitigation: Synergies & Tradeoffs.” Presented at School of Forestry and Environmental Studies, Yale University, New Haven, USA on Nov. 11, 2016
- 2016 Spring Semester, Presentation for the Stanford Energy Seminar series. “Modern Energy Access: Synergies & Tradeoffs with Climate Mitigation and other SDGs.” Presented at the Precourt Institute for Energy at Stanford University, Palo Alto, USA on May 09, 2016.
- 2013 Fall Semester 2013, Lecture on “Energy, Climate Change, and Poverty, to M.Sc. students of "Socio-Ecological Economics and Policy" (SEEP) at the Wirtshfts University (WU), Vienna
- 2010 Fall Semester 2010, Guest lecturer at Yale School of Forestry and Environmental Studies, Yale University; and Columbia University (graduate classes).

- 2005 Summer Semester 2005 Energy and Development (Lecture to students of the degree in Master of Advanced Studies in Water Resources Management and Engineering at EPFL).
- 2004 Summer Semester 2004 Energy and Development; Agriculture and Energy Use; Hydropower Development in India (Lectures delivered as part of the course entitled “Technology, Energy and Environment” at ETHZ).
- 2003 Summer Semester 2003 Energy and Development; Agriculture and Energy Use (Lectures delivered as part of the course entitled “Technology, Energy and Environment” at ETHZ).
- 2002 Summer Semester 2002 Energy and Development; Agriculture and Energy Use; (Lectures delivered as part of the course entitled “Technology, Energy and Environment” at ETHZ).

SELECTED PROFESSIONAL AND REVIEW ACTIVITIES

Journal Reviews

Applied Energy; Building Research & Information; Climate and Development; Climatic Change; Economic Modeling; Economics of Energy & Environmental Policy; Energy; Energy & Buildings; Energy Research & Social Science; Energy for Sustainable Development; Energy Economics; Energy Policy; Energy Strategy Reviews; Environment and Development Economics; Environmental Research Letters; Global Environmental Change; Global Challenges; International Journal of Energy Sector Management; Journal of Economic and Financial Sciences; Journal of Industrial Ecology; Nature Climate Change; Nature Energy; Nature Communications; Nature Sustainability; Resources; Sustainability; Proceedings of the National Academies of Sciences; Urban Studies; Wiley Interdisciplinary Reviews: Energy and Environment, World Development

Member of Ph.D. Committees

Indira Gandhi Institute of Development Research (IGIDR), India
 Technische Universität Berlin (TU), Germany
 Università Cattolica del Sacro Cuore – Milano, Italy
 KTH Royal Institute of Technology, Stockholm, Sweden

Grant Reviews

Starters Grants of the European Research Council (ERC); Swiss National Science Foundation (SNSF); Social Sciences and Humanities Research Council of Canada (SSHRC); South African National Science Foundation (SA-NSF); South Asian Network for Development and Environmental Economics (SANDEE)

Editorships

Member of the editorial board for the journal *Economics of Energy & Environmental Policy*
 Member of editorial advisory board for the journal *Environmental Research Letters*
 Member of the editorial advisory board for the journal *Current Research in Environmental Sustainability*
 Review Editor in *Frontiers in Environmental Science - Environmental Economics and Management*
 Member of the editorial board for the journal *Renewable and Sustainable Energy Transition*.
 Member of the editorial board for the journal *Global Environmental Change*.

Advisory Groups and other Scientific Services

Lead Author for the AR6 Working Group III of the Intergovernmental panel on Climate Change (IPCC)

Member of the Science Advisory Panel (SAP) of the Climate and Clean Air Coalition (CCAC)

Member of the Advisory Group (AG) of ENERGIA, the International Network on Gender and Sustainable Energy

Member of the International Scientific Advisory Board of the African Center of Excellence in Energy for Sustainable Development (ACE-ESD)

Member of the Steering Committee of the Vienna Energy Forum (VEF).