

# Joyashree Roy

## **Permanent Address**

23-8-A Genexx Valley, Joka, D.H. Road, Kolkata: 700104, India

## **Current Address**

Asian Institute of Technology, Sustainable Energy Transition Academic Program, Dept. of Energy, Environment and Climate Change, School of Environment, Resources and Development, 58 M 009, KM 42, Paholyothin Highway, PO Box: 4, Klong Luang, Klong Neung, Pathum Thani: 12120. Thailand.

## **Contact Information:**

Email: [joyashreeju@gmail.com](mailto:joyashreeju@gmail.com). [joyashree@ait.asia](mailto:joyashree@ait.asia)

Mobile: +660625128614 (+91 9836007382)

Twitter: @Joyashree9

Skype: roy.joyashree

URL:

<https://www.bangabandhu-chair-ait.org/>

<https://www.researchgate.net/profile/Joyashree-Roy>

<https://www.linkedin.com/in/joyashree-roy-716722182/>

## **EXPERTISE**

### **Economics, Sustainable Development, Sustainability Transition**

Economics (Micro Economics, Quantitative Techniques in Economics); Resource, Energy and Environmental Economics; Natural Resource Accounting; Economics of Climate Change; Research and Analysis, Training, Capacity Building.

### **Organisations and Management**

New Teaching and Research Programme: Planning, Development and Implementation, Proposal writing for research grant, coordination, Project and Research Management.

### **International Professional Experience**

US, Europe, Asia, Africa, South Asia, Asia-Pacific: multiple times travelled in multiple countries with variety of research assignments. Comfortably work in multicultural ambience.

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### **DATE OF BIRTH AND GENDER:**

OCTOBER 1, 1957. FEMALE

### **PROFESSIONAL EXPERIENCE**

#### **Asian Institute of Technology, Thailand**

Founder Director 2022 August – Founder Director, South and South East Asia Multidisciplinary Applied Research Network for Transforming Societies of Global South, School of Environment Resource and Development, Asian Institute of Technology, Thailand

Responsible for framing and leading research on social transformation and role of technology, infrastructure and socio-cultural factors and human behaviour with special reference to economies of global South.

*2018 August-2022 July: Bangabandhu Chair Professor at Asian Institute of Technology, Thailand*

Responsible for teaching courses for Doctoral and Masters students and provide Research Guidance and help in Sustainable energy planning and modelling for Bangladesh.

### **Jadavpur University, Kolkata, India**

*2018-continuing: Founder Advisor-Global Change Programme and SYLFF-JU Programme, Jadavpur University.*

*2022 August: Professor of Economics, Jadavpur University, Kolkata, India*

*2002-2018 July: Professor of Economics*

*2014-2015: ICSSR National Fellow –affiliated to Jadavpur University*

*2006- 08: Head of the Department of Economics*

*1991-2002: Senior Lecturer and Reader in Economics*

Responsible for teaching courses for Doctoral, Masters and Undergraduate students and provide Research Guidance.

*2001-2018: Coordinator, Global Change Programme, Initiated and Coordinating the Climate Change and Human Dimensions Research across faculties within the university.*

*2003-2018: SYLFF (Rioyichi Sasakawa Young Leaders Fellowship Fund) Project Director of the Research and Leadership Development Programme. Initially wrote the proposal in collaboration with faculty members within Jadavpur University on “Tradition, Social Change and Sustainable Development : A Holistic Approach” to competitively win an endowment of 1 million USD for the university from Nippon Foundation, Japan. Responsibilities were.*

- Overall administration of the project including directing academic, administrative and financial management
- Networking with the 68 institutions worldwide towards enhancement of exchange among students, faculties and administrators.
- Coordination among multiple disciplines within social sciences, multiple stakeholders: funding agency in Japan, university administration, students, research advisors and Mentors.
- Organisation of research progress report workshops/regional researchers’ forum etc.

### **Muralidhar Girls’ College, Kolkata, India.**

1982-1991: Lecturer, Teaching at Undergraduate level

### **References:**

#### **1. Ashok Gadgil**

Faculty Senior Scientist, Energy Technologies Area

Lawrence Berkeley National Laboratory  
Andrew and Virginia Rudd Family Foundation  
Distinguished Chair of Safe Water and Sanitation  
Professor of Civil and Environmental Engineering  
University of California, Berkeley  
Member, National Academy of Engineering  
LBNL Mailstop 90R-2121,  
1 Cyclotron Road, Berkeley, CA 94720-8132  
Phone: +(1)-510-486-4651, Fax: +(1)-510-486-5454  
Email: [ajgadgil@lbl.gov](mailto:ajgadgil@lbl.gov)  
<https://eta.lbl.gov/people/ashok-gadgil>

## **2. Prof. Dr. Diana Ürge-Vorsatz**

Professor, Department of Environmental Sciences and Policy  
Central European University <http://envsci.ceu.edu/people/diana-urge-vorsatz>  
Vice Chair, Working Group III,  
Intergovernmental Panel on Climate Change (IPCC) [www.ipcc.ch](http://www.ipcc.ch)  
Member, Academia Europaea  
[http://www.ae-info.org/ae/Member/%C3%9Crge-Vorsatz\\_Diana](http://www.ae-info.org/ae/Member/%C3%9Crge-Vorsatz_Diana)

## **3. Prof. Dr. Manfred Fischedick**

Vice President and  
Director Future Energy and Mobility Structures  
Wuppertal Institute for Climate, Environment, Energy  
Professor at Schumpeter School of Business and Economics (University of Wuppertal)  
contact address:  
Wuppertal Institute  
Döppersberg 19  
42103 Wuppertal  
Germany  
0049-202-2492-121

## **EDUCATION**

- Ph.D in Economics, Jadavpur University, Kolkata, India, 1991.

Concentration: Econometric Modelling of Producer Behaviour for Indian Industries to understand Demand for Energy.

- Master of Arts. (Economics), North Eastern Hill University, Shillong, India, 1978.
- College (Bachelor of Arts (Economics Honours) and PUC) : Lady Keane Girls College, Shillong.
- School (high school) : Government Girls' High School Shillong.

1978-1982: For short period after masters degree completion worked for a research project in NEHU, Shillong. In 1979 Migrated to Kolkata and took some time to get settled and search for job and research opportunity in a new city. So contacts started building up from the end of 1979 and started research work from 1980.

## OTHER TRAINING

- One week Summer School on Economic Theory, Presidency College, Calcutta, India, 1984.
- Auditing of Courses on Environmental Economics, Resource Economics, Applied Economics in the Department of Agriculture and Resource Economics, (ARE) and Energy Resource Group (ERG) Berkeley, USA, 1997-98 as Ford Foundation Post Doctoral Fellow.
- Six weeks' faculty improvement programme in Environmental Economics under World Bank capacity building programme in Environmental economics at Institute of Economic Growth, Delhi, India, 1998.
- Three weeks' training programme for Computable General equilibrium Model organized by SANDEE, south Asian Network for Development and Environmental Economics, Bangkok. 2002.

## AWARDS AND HONOURS

- **2023 October:** *Listed among the world's top 2% of influential scientists in the field of Energy as per rankings published by Stanford University on 4th October 2023*
- **2021 Paradigm Award recipient**  
Link to Breakthrough Page  
<https://thebreakthrough.org/articles/2021-paradigm-award-winner>  
  
AIT site  
<https://www.ait.ac.th/2021/05/voice-for-global-south-joyashree-roy-named-2021-paradigm-award-winner-for-work-on-energy-efficiency-rebound-effect-equity/>
- **2018 February:** TEDxJadaopur University Talk, <https://www.youtube.com/watch?v=9q-2MEAairE>
- **2016 June:** TEDxGhent Talk : <http://www.tedxghent.be/home/events/tedxghent-6-bits-love/> (<https://www.youtube.com/watch?v=EQ56sFXpHb8>)
- **2014: Indo-US S&T Forum, Joint Awardee for business plan on "Commercializing a Scalable Low-cost Arsenic remediation technology for societal impact."**
- **2014: Senior Fellow, Breakthrough Institute, USA**
- **2013: National Fellowship of the Council in the Social Sciences for pre-eminent scholarship offered by Indian Council of Social Sciences Research (ICSSR), Ministry of Human Resource Development, Government of India.**
- **2012: Creativity Prize: A member of the 'Team led by Prof. Ashok Gadgil'- winner of the 5<sup>th</sup> Prince Sultan Bin Abdulaziz International Prize for Water.**  
[http://psipw.org/index.php?option=com\\_content&view=article&id=320&Itemid=284](http://psipw.org/index.php?option=com_content&view=article&id=320&Itemid=284)  
[http://psipw.org/index.php?option=com\\_content&view=article&id=319:prize-council-announces-winners-for-the-5th-award&catid=2:news-a-events&Itemid=26](http://psipw.org/index.php?option=com_content&view=article&id=319:prize-council-announces-winners-for-the-5th-award&catid=2:news-a-events&Itemid=26),  
[https://en.wikipedia.org/wiki/Prince\\_Sultan\\_bin\\_Abdulaziz\\_International\\_Prize\\_for\\_Water](https://en.wikipedia.org/wiki/Prince_Sultan_bin_Abdulaziz_International_Prize_for_Water)
- **2011: Best Citizen's Award 2011, Friendship Society of India**
- **2011: Sawamsiddha Award of Rotary Club of Calcutta Metro City 2011.**
- **2008: Felicitated and awarded a certificate by Prime Minister of India for valuable contribution to the IPCC process (AR4).**

- **2008:** Jadavpur University Teachers Association felicitated for *noteworthy achievements in the field of her research.* (2008).
- **2007: Nobel Peace Prize: Among the network of scientists who shared in 2007 Nobel Peace Prize awarded to IPCC.** Served as Coordinating Lead author of industry chapter of WGIII of AR4 and AR5. IPCC shares the Nobel Peace Prize of 2007.
- **1998: NIPFP-Ford Foundation Follow up Post-Doctoral Research grant** (in Economics) in 1998-99.
- **1997: Ford Foundation Post Doctoral Fellowship Award in Environmental Economics.** Spent the year at Lawrence Berkeley National Laboratory, Environmental Energy Technology Division, and MS 90-4000, One Cyclotron Road, Berkeley, CA 94720, USA (1997-98).

#### ADVISORY ACTIVITY

- Member: Climate Advisory Board, Elsevier  
<https://www.elsevier.com/about/corporate-responsibility/climate-action>
- Board Member : Climate Strategies
- Member: Project Steering Committee of EmPower - Women for Climate Resilient Societies UNEmpower, UN Women Regional Office for Asia and the Pacific
- Member : Future Earth Academy
- Member-International Advisory Board: Wuppertal Institute. Germany
- Member-International Advisory Board: Netherlands Institute for Advanced Study in Humanities and Social Sciences.
- Founder Advisor, Global Change Programme and JU SYLFF programme of Jadavpur University. India.
- Member of *Standing Committee on Industrial Statistics (SCIS)*, National Statistical Commission, Government of India, Ministry of Statistics and Programme Implementation.
- Chairperson, Environmental Statistics for Indian Industries, CSO, Government of India, Ministry of Statistics and Programme Implementation.
- TIFAC. National Committee, Government of India.
- Member of the Statutory Body (terms completed) :SEAC- *State Level Environment Assessment Committee* of the Govt. of West Bengal, *Central Electricity Regulatory Commission*, New Delhi, India, Climate Change consultative group for equity at MOEF, GoI., Member Executive Council (Chancellor's Nominee) : Vidyasagar University, Governing Body Member -Vice President -SaciWATERS,[www.saciwaters.org](http://www.saciwaters.org), UGC-India : Expert Committee for Minor and Major Research projects in Economics, Expert Committee Member of SAP/DRS/CAS in Economics, National Institute of Technology: Governing Body member of VNIT, Member of doctoral committees/faculty selection committees in universities (India and overseas), IITs, IISC, ICSSR centre, State and Central Universities .
- Honorary Fellow:
  - Senior Fellow with the Breakthrough Institute, USA
- Steering/ Advisory Committee Member: (Past /terms completed)
  - LOICZ, (*Land Ocean Interaction Coastal Zone*) *Global Network.*

- SAARC Climate Change Committee
  - UCCRN (Urban Climate Change Research Network), coordinated by Columbia University, USA
  - DIL, Development Impact Laboratory, UCB and LBNL, USA
  - LIGTT, UCB and LBNL, USA
  - Climate Strategies, UK
  - Environmental Progress
  - Global Commission on Adaptation (<https://gca.org/global-commission-on-adaptation/about>)
  - Member: Expert Group of the High Level Panel for a Sustainable Ocean Economy.
- Associate Editor/Editorial Board Member of Journals
    - Annual Review of Environment and Resource (ARER) (<https://www.annualreviews.org/db/directory?0000,energy>)
    - Climate Policy (<https://www.tandfonline.com/action/journalInformation?show=editorialBoard&journalCode=tcpo20>)
    - Current research in environmental sustainability (completed the term) (<https://www.journals.elsevier.com/current-research-in-environmental-sustainability/editorial-board>)
    - Current Opinion in Environmental Sustainability (<https://www.journals.elsevier.com/current-opinion-in-environmental-sustainability/editorial-board>)
    - Development Engineering <https://www.journals.elsevier.com/development-engineering/editorial-board>
    - Environmental Development (<https://www.journals.elsevier.com/environmental-development/editorial-board>)
    - Energy Economics (completed the term)
    - Global Transitions (<https://www.sciencedirect.com/journal/global-transitions/about/editorial-board>)
    - PLOS: Climate. <https://journals.plos.org/climate/s/editorial-board>
    - PLOS: Process Integration and Optimization for Sustainability (<https://www.springer.com/journal/41660/editors>)

- Progress in Energy  
(<https://publishingsupport.iopscience.iop.org/journals/progress-in-energy/editorial-board/>)
- The Journal of Industrial Statistics  
(<http://www.csoisw.gov.in/cms/cms/Files/197.pdf>)

## LIST OF ALL PUBLICATIONS

### h-index:

26 (SCOPUS); as of April 24, 2024 (The *h* Index considers Scopus articles published after 1995.) (citations: 3058)

46 (Google Scholar, all) as of April 24, 2024 (citations: 11111)

### Books/Articles/Reports:

#### A. Books authored (1)

**1992**

“Demand for Energy in Indian Industries (A Quantitative Approach)”, 1992, Daya Publishing House, Delhi 110 006.

#### B. Books/ Coauthored (5)

**2022** Dey Dipayan and Joyashree Roy (2022), Biorights, The neo-economic conservation paradigm for global south, ISBN 978-3-030-91502-5 ISBN 978-3-030-91503-2 (eBook)  
<https://doi.org/10.1007/978-3-030-91503-2>

**2016**

Das, A., Joyashree Roy, S, Chakraborti (2016), Socio-Economic Analysis of Arsenic Contamination of Groundwater in West Bengal, DOI 10.1007/978-981-10-0682-1, Print ISBN 978-981-10-0680-7, Online ISBN 978-981-10-0682-1, Series ISSN 2198-0012, Springer Singapore. <https://link.springer.com/book/10.1007/978-981-10-0682-1>

**2015**

Das, A., Joyashree Roy (2015) , “Jole Arsenic: PrasangaPaschimbanga”, Mitram, Kolkata, ISBN: 93-80036-68-x.[Arsenic in Water: Context West Bengal]

**2014**

Pal, B.D., V.P. Ojha., S, Pohit., **J.Roy (2014)** , GHG Emissions and Economic Growth- A Computable General Equilibrium Model Based Analysis for India, Springer. New Delhi. ISBN 978-81-322-1942-2.

<https://www.springer.com/gp/book/9788132219422>

**2009**

Jana S, **J Roy**, S. Datta. (2009), Industrial Pollution and Abatement, Economic Analysis of Paper Units of West Bengal, South Asian Publishers Pvt. Ltd, New Delhi.

## C. Contribution in International High Impact Global/Regional/National Assessment Reports (14)

2019-2022

IPCC Sixth Assessment Report (AR6, Chapter 5 coordinating Lead Author) [Core writing team member]

2023

- Lee H, et al. (2023) Synthesis report of the IPCC sixth assessment report (AR6) Summary for Policy Maker (<https://www.ipcc.ch/report/ar6/syr/>) .
- Lee H, et al. (2023) Synthesis report of the IPCC sixth assessment report (AR6) Full Report (<https://www.ipcc.ch/report/ar6/syr/>).

2022

- Creutzig, F., **J. Roy**, P. Devine-Wright, J. Díaz-José, F.W. Geels, A. Grubler, N. Maïzi, E. Masanet, Y. Mulugetta, C.D. Onyige, P.E. Perkins, A. Sanches-Pereira, E.U. Weber, 2022: Demand, services and social aspects of mitigation. In IPCC, 2022: *Climate Change 2022: Mitigation of Climate Change. Contribution of Working Group III to the Sixth Assessment Report of the Intergovernmental Panel on Climate Change* [P.R. Shukla, J. Skea, R. Slade, A. Al Khourdajie, R. van Diemen, D. McCollum, M. Pathak, S. Some, P. Vyas, R. Fradera, M. Belkacemi, A. Hasija, G. Lisboa, S. Luz, J. Malley, (eds.)]. Cambridge University Press, Cambridge, UK and New York, NY, USA. doi: 10.1017/9781009157926.007

2021

**Roy, J. et al. (2021) Critical Junctions on the Journey to 1.5°C: The Decisive Decade.** London/The Hague: Climate Strategies. <https://mission2020.global/wp-content/uploads/2021/05/Critical-Junctions-on-the-Journey-to-1.5C.pdf>

2019

The Ocean as a Solution to Climate Change: Five Opportunities for Action." Report. Washington, DC: World Resources Institute. Available online at <http://www.oceanpanel.org/climate>. (team of authors : Hoegh-Guldberg. O., et al. )

2017 -2018

- a. **IPCC Special Report on 1.5°C Global Warming** (Coordinating Lead Author of Chapter 5 on Sustainable Development, Poverty Eradication and Reducing Inequalities). 2018. CUP. <https://www.ipcc.ch/report/sr15/chapter-5-sustainable-development-poverty-eradication-and-reducing-inequalities/>
- b. **The Hindukush Himalaya Assessment Report** (Coordinating Lead Author of chapter 4: Exploring Futures of the Hindukush Himalaya: Scenarios), 2018, Springer, Open access. <https://lib.icimod.org/record/34383>



2019-2022

**IPCC Sixth Assessment Report (AR6, Chapter 5 coordinating Lead Author) and Synthesis report (Core writing team member)**

2014

**IPCC Report (Coordinating Lead Author)** -Fishedick, M., **J. Roy**, A. Abdel-Aziz, A. Acquaye, J.M. Allwood, J.-P. Ceron, Y. Geng, H. Kheshgi, A. Lanza, D. Perczyk, L. Price, E. Santalla, C. Sheinbaum, and K. Tanaka (2014). Industry. In: *Climate Change 2014: Mitigation of Climate Change. Contribution of Working Group III to the Fifth Assessment Report of the Intergovernmental Panel on Climate Change* [Edenhofer, O., R. Pichs-Madruga, Y. Sokona, E. Farahani, S. Kadner, K. Seyboth, A. Adler, I. Baum, S. Brunner, P. Eickemeier, B. Kriemann, J. Savolainen, S. Schlömer, C. von Stechow, T. Zwickel and J. Minx (eds.)]. Cambridge University Press, Cambridge, United Kingdom and New York, NY, USA.

**IPCC Report SPM- Drafting Author:** IPCC 2014: Summary for Policy makers. In Climate Change Mitigation. Contribution of Working Group III to the Fifth Assessment Report of the IPCC

2012

- i. **IPCC Report (contributing author):** IPCC 2012, Renewable Energy sources and Climate Change Mitigation, Special Report of the IPCC, Cambridge University Press. US.
- ii. **UNIDO Report:** Industrial Development Report 2011: (coauthor)  
[http://www.unido.org/fileadmin/user\\_media/Publications/IDR/2011/UNIDO%20IDR%20reprint%20for%20web%20020912.pdf](http://www.unido.org/fileadmin/user_media/Publications/IDR/2011/UNIDO%20IDR%20reprint%20for%20web%20020912.pdf)
- iii. **GEA Report** (coordinating lead author) : **Roy, J.**, A.-M. Dowd, A. Muller, S. Pal and N. Prata, 2012: Chapter 21 - Lifestyles, Well-Being and Energy. 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. 1527-1548.

iv. 2007

**IPCC(Coordinating Lead Author)** :IPCC 2007: Climate Change Mitigation, Contribution of Working Group III to the Fourth Assessment Report of the IPCC. Bernstein Lenny and J Roy Coordinating Lead authors of Chapter 7: "Industry", IPCC Fourth Assessment Report, Working Group III. Cambridge University Press, UK and NY.

**IPCC Report SPM- Drafting Author:** IPCC 2007: Summary for Policy makers. In Climate Change Mitigation. Contribution of Working Group III to the Fourth Assessment Report of the IPCC (B. Metz, O.R. Davidson, P.R Bosch, R Dave, L.A Meyers (eds), Cambridge University Press, UK and NY.

**D. Books Edited/co-edited**

**2022** “Biorights: The neo-economic conservation for Global South”, Springer, Studies in Ecological Economics Vol. 7. <https://doi.org/10.1007/978-3-030-91503-2> . ISBN 978-3-030-91502-5 ISBN 978-3-030-91503-2 (eBook), Switzerland . (co edited: Dipayan De and Joyashree Roy)

**2006**

“Development Challenges: Some Analytical Issues”, Allied Publishers Ltd. 2006, Kolkata: 700 032 (co-editor, Ajitava Raychaudhuri). 2006

**2000**

“Themes on Development Economics”, Allied Publishers Ltd. 2000, Allied Publishers Ltd., Calcutta 700 032(co- editor, ManasRanjan Gupta).

**1999**

“Environmental Economics in India- Concepts and Problems”, 1999, Allied Publishers Ltd., Calcutta 700 032. (co-editor, Gautam Gupta).

**E. Journal guest editor :**

- i) Guest Editor of: *Environmental Research Letters*, Volume 19, Number 4 Focus on Demand-Side Solutions for Transitioning to Low-Carbon Societies. 2024. <https://iopscience.iop.org/journal/1748-9326/page/Demand-Side-Solutions>
- ii) Guest Editor of : *Special Issue on Energy Systems of Current Opinion in Environmental Sustainability* 2013, 5.[Co editors : S. K. Ribeiro,Diana Urge-Vorsatz, Maria Josefina Figueroa].
- iii) Guest Editor of: *Bangabandhu Special Issue V 1. of International Energy Journal on Energy, Disaster, Climate Change: Sustainability and Just Transitions in Bangladesh* (2020) [Co editors: Joyashree Roy, Sheikh Tawhidul Islam, Indrajit Pal] <https://www.bangabandhu-chair-ait.org/bangabandhu-chair-special-issue-1>
- iv) Guest Editor of: *Bangabandhu Special Issue V 2. of International Energy Journal on Energy, Disaster, Climate Change: Sustainability and Just Transitions in Bangladesh* (2021) [Co editors: Joyashree Roy, Sheikh Tawhidul Islam, Indrajit Pal] <https://www.bangabandhu-chair-ait.org/bangabandhu-chair-special-issue-2>
- v) Guest Editor of: *Ecomodern Justice, Breakthrough Journal No.14., Summer, 2021* (coeditor : Joyashree Roy and Chris Foreman) <https://thebreakthrough.org/journal/no-14-summer-2021>

**F. Articles in Books and Journals:**

**Papers in Peer Reviewed Journals/Book chapters/Other Journals/Discussion Paper: (183)**

**2024 (10)**

- Ahamed Nahid, F., & **Roy, J.** (2025). PyPSA-BD: A customized model to explore decarbonized energy transition for developing country. *Renewable Energy Focus*, 52, 100655. <https://doi.org/10.1016/j.ref.2024.100655>
- Nahid, F. A., Ongsakul, W., Singh, J. G., & Roy, J. (2024). Short-term customer-centric electric load forecasting for low carbon microgrids using a hybrid model. *Energy Systems*. <https://doi.org/10.1007/s12667-024-00704-5>
- Vuuren, D. van, Minx, J. C., **Roy, J.**, Lamb, W. F., & Wijst, K.-I. van der. (2024). Routes to a Carbon-Free World. *Earth Sciences*, 12(1395440), 1–8. <https://doi.org/10.3389/frym.2024.1395440>
- Maharja, C., Praptiwi, R. A., Sainal, S., Wulandari, P., Ashley, M., Wyles, K. J., **Roy, J.**, Hendrawan, I. G., Jobling, S., & Austen, M. C. (2024). Multiple negative impacts of marine plastic pollution on tropical coastal ecosystem services, and human health and well-being. *Ocean & Coastal Management*, 258, 107423. <https://doi.org/10.1016/j.ocecoaman.2024.107423>
- Chatterjee, S., **Roy, J.**, Mukherjee, A., Lugovoy, O., & Debsarkar, A. (2024). Power sector transition plan of a coal-rich region in India with high-resolution spatio-temporal data based model. *Energy for Sustainable Development*, 83, 101560. <https://doi.org/10.1016/j.esd.2024.101560>
- Meinshausen, M., Schleussner, C.-F., Beyer, K., Bodeker, G., Boucher, O., Canadell, J. G., Daniel, J. S., Diongue-Niang, A., Driouech, F., Fischer, E., Forster, P., Grose, M., Hansen, G., Hausfather, Z., Ilyina, T., Kikstra, J. S., Kimutai, J., King, A. D., Lee, J.-Y., Lennard, C., Lissner, T., Nauels, A., Peters, G. P., Pirani, A., Plattner, G.-K., Pörtner, H., Rogelj, J., Rojas, M., **Roy, J.**, Samset, B. H., Sanderson, B. M., Séférian, R., Seneviratne, S., Smith, C. J., Szopa, S., Thomas, A., Urge-Vorsatz, D., Velders, G. J. M., Yokohata, T., Ziehn, T., and Nicholls, Z.: A perspective on the next generation of Earth system model scenarios: towards representative emission pathways (REPs), *Geosci. Model Dev.*, 17, 4533–4559, <https://doi.org/10.5194/gmd-17-4533-2024>, 2024.
- Mohanty Parimita, I. Pal, **J. Roy** (2024), Improving Community Resilience through distributed solar energy as critical infrastructure- a case study of South Asia, *International Journal of Disaster Resilience in the Built Environment*, vol. ahead-of-print no. ahead-of-print. <https://doi.org/10.1108/IJDRBE-02-2023-0039>.
- Creutzig, F., **Roy, J.**, & Minx, J. (2024). Demand-side climate change mitigation: Where do we stand and where do we go? *Environmental Research Letters*, 19(4), 040201. <https://doi.org/10.1088/1748-9326/ad33d3>
- Muhammad Huzaifa Butt, **Joyashree Roy**, S Some (2024) Policy as a catalyst in shaping mobility sector transition for developing countries, *Environ. Res. Lett.* 19 024039, DOI 10.1088/1748-9326/ad1d29. <https://iopscience.iop.org/article/10.1088/1748-9326/ad1d29/pdf>
- Masahiro Sugiyama, Charlie Wilson, Dominik Wiedenhofer, Benigna Boza-Kiss, Tao Cao, Joyee S. Chatterjee, Souran Chatterjee, Takuya Hara, Ayami Hayashi, Yiyi Ju, Volker Krey, María Fernanda Godoy León, Luis Martinez, Eric Masanet, Alessio Mastrucci, Jihoon Min, Leila Niamir, Setu Pelz, **Joyashree Roy**, Yamina Saheb, Roberto Schaeffer, Diana Ürge-Vorsatz, Bas van Ruijven, Yoshiyuki Shimoda, Elena Verdolini, Frauke Wiese, Yohei Yamaguchi, Carina Zell-Ziegler, Caroline Zimm (2024) High with low: Harnessing the power of demand-side solutions for high wellbeing with low energy and material demand, *Joule*, Volume 8, Issue 1, 2024, Pages 1-6, ISSN 2542-4351, <https://doi.org/10.1016/j.joule.2023.12.014>

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#### 1999 (3)

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#### 1997 (1)

- S Bandopadhyay and Joyashree Roy (1997) " Logit Analysis of Private Demand for Elementary Education in India - A case Study Using Household Survey Data", *Margin*, oct-dec.

#### 1996 (1)

- Roy Joyashree and S. Gupta (1996), "Cost of Oil Based Decentralised Power Generation in India - Scope for SPV Technology", *Solar Energy*, vol.57, No 3:pp 231-237.

#### 1995 (4)

- Roy Joyashree (1995), "Back up Power Generation in Calcutta Metropolitan Agglomeration", *Energy Management*, Oct-Dec. pp.3-7.
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- Roy Joyashree and D. Chakraborty : (1993), "Energy Policy in India - An Over View", The Gulf War and the Energy Crisis in India, Ed. Arun, K. Banerjee, K.P. Bagchi and Co. Calcutta.

### 1992 (2)

- Banerjee S, T.K. Das, Joyashree Roy, D. Chakraborty (1992), "Population Growth, Energy Utilisation Pattern and Environmental Degradation - A Micro Study", Demography India Vol. 21, No. 2, pp.281-290.
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### 1990 (1)

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### 1986 (1)

- Kar Joyashree and D. Chakraborty (1986), "Interfuel substitution possibilities in Indian Manufacturing Industries - A Translog Approach", Arthavijnana, Vol 28, No.2, June.

### 1982 (4)

- KarJoyashree.(1982), "Towards an Energy Policy for India", Capital, Annual No.
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### 1981 (1)

- Kar Joyashree (1981), "Problems and Prospects of Small Scale and Cottage Industries - A Case Study with Special Reference to Jaintia Hills District", North Eastern Hill Regions in India - Problems and Prospects of Development Ed. T. Mathew, Agricole Publishing Academy. New Delhi.

### Select-Research Reports/Conference Proceedings/Working Papers: (International/National)

- Sathaye, J, Lynn Price, EarnstWorrel, Michale Ruth, Roberto Schaeffer, MarciaoMachaedo Costa, Yanjia Wang, Joyashree Roy, Sarmistha Das, Herald Winkler, Randall Spalding-Fecher , Yaw afrane-Okase , Ogunlade Davidson. (2000) Multi Project Baselines for Evaluation of Energy Efficiency and Power Projects *LBNL report No 48242*
- Roy Joyashree, Jayant Sathaye, Alan Sanstad, Katja Schumacher (2001), Patterns of Fuel Input Use and Technological Change in India's Energy-Intensive Industries, in Proceedings of the 24<sup>th</sup>IAEE International Conference, 2001: An Energy Odyssey, held in Houseton, USA.

- Schumacher Katja , Jayant Sathaye, Joyashree Roy, (2001), Productivity Trends and Technological change in Energy Intensive Industries in Brazil, India and South Korea, in Proceedings of the 24<sup>th</sup> IAEE International Conference, 2001: An Energy Odyssey, held in Houseton, USA.
- Sathaye, J., J. Roy, R. Khaddaria, and S. Das, 2005: Reducing electricity deficit through energy efficiency in India: An evaluation of macroeconomic benefits. LBLN-59092. Berkeley, CA, Lawrence Berkeley National Laboratory.  
[http://www.iioa.org/conferences/15th/pdf/sathaye\\_roy.pdf](http://www.iioa.org/conferences/15th/pdf/sathaye_roy.pdf)  
  
<http://ies.lbl.gov/publications/eliminating-electricity-deficit-through-energy-efficiency-india>
- Roy Joyashree, Anupa Ghosh, GopaBarua (2006) ,The Economics of Climate Change, A Review of Studies in south Asia with special reference to India. Submitted to Stern Review on the economics of climate change. [http://www.hm-treasury.gov.uk/independent\\_reviews/stern\\_review\\_economics\\_climate\\_change/stern\\_review\\_report.cfm](http://www.hm-treasury.gov.uk/independent_reviews/stern_review_economics_climate_change/stern_review_report.cfm)
- Roy Joyashree, Bikram Chatterjee and SrutiBasak (2007), Towards a Composite Sustainability Index: How are the States and Union Territories of India doing? Working papers series of Global Change Programme, Jadavpur university, GCP-JU /2007/EXC-1.
- Roy Joyashree, Bikram Chatterjee, S Basak and K Nandy, (2007) “An Analysis of the Performance of the States and Union Territories of India on the Sustainable Development Pathway”-Summary Report, 2007, Global Change Programme, Jadavpur University, Kolkata, India.
- Roy Joyashree, Moumita Roy, et al. (2009) Climate responsible Lifestyle Initiative @ Raj Bhavan – Kolkata.
- Roy, J., Roy, B., Dasgupta S. and D. Chakravarty. (2011). Business Model to Promote Energy Efficiency: Use of Electrical Appliances in Domestic Sector in West Bengal: A Baseline Study, submitted to Energy Conservation and Commercialization Project, Phase III (ECO III), contract no 386-C-00-06-00153-00 by Global Change Programme, Jadavpur University, Kolkata, India. <http://eco3.org/wp-content/plugins/downloads-manager/upload/Report-1038-Bussiness%20Model%20for%20REEC.pdf>
- Ghosh, D., and J. Roy. Approach to energy efficiency among micro, small and medium enterprises in India: Results of a field survey. Working Paper 08/11, UNIDO, 2011.
- Support to the National Water Mission- NAPCC <http://www.adb.org/Documents/Produced-under-TA/43169/43169-012-ind-dpta-04.pdf>

- Roy Joyashree, D.Ghosh, A. Ghosh, S. Dasgupta and D. Chakravarty (2012), Approaches towards Mitigation and Adaptation with special reference to India's NAPCC and Various Financing Instruments. Submitted to Department of Finance, Government of India, Contract no A 48011/19/2011dt 12.1.2012. by Global Change Programme, Jadavpur University, Kolkata, India.
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- Guha Indrila, Roy Chandan, Banerji Rajarshi ,**Roy Joyashree** , Bhattacharya Somnath (2012), *Adaptation in case of Inundation of Islands: An Exploratory Study from Indian Sundarbans*, Mukhopadhyay.A and Ghosh.S.N.(edited),Climate Security: Perceptions, Challenges and Beyond, UGC Academic Staff College, University of Calcutta.
- Chhetri Netra, Jason Lloyd, Ted Nordhaus, Roger Pielkejr., Joyashree Roy, Daniel Sarewitz, Michael Shellenberger, Peter Teague, Alex Trembath (2016), *Adaptation for a High Energy Planet , Break through Institute*.
- Roy Joyashree, Shyamasree ,Dasgupta and Debrupa , Chakraborty (2017): Deep decarbonisation in industries: what does it mean for India?. In: Lechtenböhmer, Stefan; Knoop, Katharina (Eds.): *Realising long-term transitions towards low carbon societies: Impulses from the 8th Annual Meeting of the International Research Network for Low Carbon Societies*, Wuppertal Spezial 53. Wuppertal: Wuppertal Institut für Klima, Umwelt, Energie, 2017, 53-91, and online: <http://nbn-resolving.de/urn:nbn:de:bsz:wup4-opus-66360>.

## Research Guidance:

**Ph.D. Thesis - (completed) All are sole supervision unless mentioned in parenthesis.**

1. Analysing Economic Structures - With Special Reference to Indian Economy by Santadas Ghosh.
2. A Study on Infrastructure - Economy Interdependence in India: An Input-Output Approach by Ranjana Mukherjee ,nee, Chatterjee.
3. Climate Change Policies: Challenges for the Indian Industries by Sarmistha Das.
4. Understanding Changes in Energy Use and CO<sub>2</sub> Emissions from Manufacturing Industries in India by Mitali Das Gupta.
5. Energy Consumption Pattern in Bangladesh by Subrata Bain [Joint supervision with Dr. T. K. Das]
6. Analysis of Oil Demand in India by Indrani Ganguly

7. Pollution from Paper Industry in India by Sebak Jana [Joint supervision, with Dr. S Datta]
8. Sustainability, Water Use, Economic Incentives: Case of Greater Calcutta by Monojit Ghosh.
9. Small and Medium Enterprises in India: An Analysis of Funding risks, risk mitigation and sustainable development by Duke Ghosh [joint Supervision with Dr. B.B. Chakraborty]
10. Extreme Climatic Events: An Analysis of Socio Economic Vulnerability and Coping Mechanism in Selected Hotspots in India by Anupa Ghosh [joint supervision with Dr. Asis Majumdar]
11. Accounting for Air and Water Resources: Case Study of West Bengal by Maniparna Shyam Roy.
12. Economic Analysis of Arsenic In water : Case of West Bengal by Abhijit Das
13. Performance Evaluation of the Indian Industries and Environmental Management Practices by Debrupa Chakraborty.
14. Impact of Green House Gas Emissions on Indian Economy – A SAM Based CGE Modelling Approach by Barun Deb Pal [Joint Supervision with Dr Sanjib Pohit and Dr Ojha].
15. Lifestyle and Climate Change: An Empirical Study with Special Reference to India by Shamik Pal
16. Response of Indian Industries to Sustainability Goals: An Economic Analysis with Special Reference to NAPCC by Shyamasree Dasgupta
17. Rebound Effect: Empirical Evidence from the Indian Economy by Debalina Chakraborty
18. Climate Change, Heat Stress and Labour Productivity-An Economic Analysis by Kuheli Mukhopadhyay [Jointly with Jyotish P Basu]
19. Coastal Ecosystem Services and Economic Activities: Understanding Interconnectedness Through a Case Study (Satabdi Datta)
20. Low Carbon Development: Alternative Pathways and Financing Mechanisms (Nandini Das)
21. Economics of Greenhouse Gas Emission Mitigation: A Study of the Indian Agricultural Sector (Shreya Some). [Jointly with Prof Arpita Ghosh]
22. Sustainability challenges and solution pathways for the energy sector in Bangladesh: implications for development (Hasan Mahmud)

### **In Progress**

23. Risk Assessment and Resilience of Coastal Critical Infrastructure in Climate Change Context: A Study of Energy Sector of Bangladesh (Anil Kumar) [Jointly with Dr. Indrajit Pal]



24. Sajid Amit (Jointly with Roger Livermore).

**M. Phil *Dissertation***

1. Oil Demand Elasticities in India by Indrani Ganguly. 1993.
2. Interfuel Substitution in Selected Indian Manufacturing Industries during Post Oil Embargo Period by Sarbari Sarkar 1993.
3. The Residential Consumption Pattern for Energy in Urban Sector- A case Study of Calcutta Using Consumer Expenditure Survey data, by Soma Dey, 1994.
4. Power - A Study on Decentralised Generation using Survey Data", by Soma Gupta, 1994.
5. Inequality in Primary School Participation - Indian Experience by Smritikana Majumdar, 1995
6. An Analysis of Private Demand for Elementary Education Using Household Survey Data, by Shyamal Banerjee, 1995.
7. Participation at Primary level of Education - an Empirical Study for West Bengal using District Level Data by Nupa Mukhopadhyay, 1996.
8. Environmental Concern and Abatement Policies in India - an Evaluation through End-of-pipe treatment cost analysis for Indian Paper Industry by Subhadra Ganguly, 1996.
9. Energy Use and CO<sub>2</sub> Emissions: Case of Indian Manufacturing Industries by Mitali Dasgupta, 1999.
10. Understanding Energy and emissions intensity in India: by Chetana Chaudhuri 2008
11. Coastal Inundation and Adaptation Strategy in Indian Sundarbans: A Case Study of Sagar Island. :Chandan Roy 2009.
12. Understanding Productivity Growth and Climate Change Mitigation Potential of Iron and Steel Industries in India. Shyamasree Dasgupta 2010
13. Determination of the Economic Value of Water in Irrigated Agriculture: a Micro Economic Analysis of Blue accounts in the context of Nepal, Jit Prasad Acharayya 2010
14. Role of Nepalese Forest at Global Context Raghbir Bista, 2010

15. Energy Efficiency, Rebound Effect and Energy Savings Potential: Case of West Bengal by Debalina Chakrabarty 2011
16. Heat stress and Workability, Case study of Street Hawkers of Kolkata, Shalini Mitra 2011
17. Mitigation: What can West Bengal's Energy Intensive Manufacturing Industries Do?, Gopa Ghosh 2012.
18. Climate Change and Food Security: Issues, Challenges and Opportunities, Amrita Bhanja 2012
19. Air Pollution in Kolkata City: A Quantitative Analysis, Devdyuti Basu, 2017
20. Understanding Risk Perception of Households in Arsenic Infested zones: Case study of South 24 Parganas, Sayantani Bagchi, 2017.

**RESEARCH PROJECTS/CONSULTANCY/CAPACITY BUILDING PROGRAMMES  
UNDERTAKEN: SPONSORED BY INTERNATIONAL AND NATIONAL AGENCIES  
(Illustrates Capability to Handle Various Tasks Independently /jointly):**

**2022-**

- Energy modelling in Thailand and Bangladesh : EDF Inc. USA

**2021-**

- **PISCES:** Marine Plastics in Indonesia: Cost of Action and Inaction, GCRF/Brunel University, UK

**2020-**

- **Energy Demand Changes Induced by Technological and Social innovations, sponsored by Research Institute of Innovative Technology for the Earth (RITE-Japan)**

**2016-2018**

- Heat Stress and Productivity Loss, Ministry of Environment, Forest and Climate Change. GOI.

**2014-16**

- Commercializing a scalable low-cost arsenic remediation technology for societal impact, IUSSTF (Indo-US Science Technology Forum).

**2014**

- Environmental Fiscal Reform: International Experiences and Relevance for India: target group: Policy makers from various government departments in India. Funded by Ministry of Environment, Forest and Climate Change and Centre of Excellence in Madras School of Economics.

**2013-14**

- Coastal Ecosystem and Changing Economic Activities: Challenges for Sustainability Transition along Chinese and South Asian Coasts. : APN (three country project)

- INDGLOB project, with Centre for International Climate and Environmental Research, Oslo.
- Study of KMC installations for making them most energy, carbon and economically efficient and formulation of recommendations: Kolkata Municipal Corporation.

#### 2013-15

- Multi level Governance in climate change: ICSSR, DFG, NOW

#### 2013

- Ecosystem Services: Theory and Practice. Capacity building programme for advanced research scholars and young professionals funded by TIFAC. Depart of Science and Technology , GOI.

#### 2012-13

- The Economics of a Low Carbon Kolkata (Mini-stern)' [a part of 'Ten Climate Smart City Programme: Centre for Low Carbon Futures UK.
- Climate change, heat stress and Human productivity : UGC-UPEII
- Coastal Ecosystem and Changing Economic Activities: Challenges for Sustainability Transition along Chinese and South Asian Coasts. : APN (four country project)

#### 2012

- Fiscal Instruments for Low Carbon Growth in West Bengal and Odissa,India: *UKFCO/BHC*
- Climate mitigation, adaptation strategy for South Asia: *ADB*

#### 2011-2013

- Experimenting for Sustainability in India and Thailand: A Transition Perspective on Sustainable Electricity and Mobility Initiatives: *WOTRO-NWO*

#### 2010

- Role of Experiments in Sustainability Transition in Asia: *APN*
- Business Model to Promote Energy Efficiency: Electrical Appliances in Domestic Sector in West Bengal: *USAID*

#### 2009-2010

- Energy Scenario Assessment: *LBNL*

#### 2007

- Trade and Climate Change: Case of Small Developing countries: *ICTSD*

#### 2006

- CGE Modelling for Indian Economy for Climate Policy for India: *MOEF-GoI*
- Sustainability Indicators and Analysis for Indian Indian Economy: *UGC*

#### 2003

- Natural Resource accounting for West Bengal: Water and air sector: *MOSPI-GoI*

#### 1998-2003

- Nodal Person at Jadavpur University of the Environmental Economics Programme under the World Bank aided India Environmental Economics Capacity Building Programme for group of institution: *MOEF,GoI.*

#### 2000-2002

- Climate Change Policies: Implications for Indian Industries: *LBNL*

#### 2000

- Energy Indicator Analysis for India: *IEA*
- Socio-Economic Evaluation of the Gosaba Gasifier Plant: *WBREDA, GoWB*

**1999**

- Empirical Support for Integrated Assessment Modellers for Developing Economies: *LBNL*
- Decentralised Power Generation- An Analysis of Cost and Scope for Renewables in, India: *WBREDA, GoWB*

**1995**

- Solar Lanterns and Other New Technologies in Rural Areas- An Evaluation of Performance, market and Entrepreneurial Potential: *WBREDA, GoWB*.

**1994**

- Cost Benefit Analysis of the Solar heating Systems in Khardah Jute Mill and Solar Cookers under Operation in Different Parts of Kolkata: *WBREDA, GoWB*

**1992**

- Cost Competitiveness of the Supplementary Power Generating System in Kolkata city: *UGC*
- Integrated Rural Energy Programme for Gorubathan Block, West Bengal: *WBREDA, GoWB*

**RESEARCH EXPERIENCE AND CURRENT RESEARCH INTEREST: (Since 1980- )**

Broad area of research is Resource and Environmental Economics. Major contributions are in the field of Energy demand modeling. The field of application ranges from non renewables to renewable resources, urban to rural problems. Research focus is more on industry sector and econometric model building, statistical analysis especially for deriving policy implication for developing countries with special reference to the Indian economy. Data base ranging from primary data from field survey to secondary data and macro data such as input-output tables have been used at various stages of research and publications. Focus of current research is more towards Economic and Social Dimensions of Climate Change, Water resource management and multidisciplinary research on sustainable development, social embedding of new innovation.

**LANGUAGE & DEGREE OF PROFICIENCY**

	<i>Speak</i>	<i>Read</i>	<i>Write</i>
English	Excellent	Excellent	Excellent
Hindi	Excellent	Excellent	Excellent
Bengali	Excellent	Excellent	Excellent
Assamese	Excellent	Excellent	Excellent

**In You Tube/TEDx talks/podcast/news papers/online media**

- [http://www.youtube.com/watch?v=YhJ\\_Q-\\_uuK4](http://www.youtube.com/watch?v=YhJ_Q-_uuK4)
- [http://studium.webhosting.rug.nl/images/stories/archief/archief\\_geluidsbestanden/2010/voorjaar/EconomiesRoy.mp3](http://studium.webhosting.rug.nl/images/stories/archief/archief_geluidsbestanden/2010/voorjaar/EconomiesRoy.mp3)
- <http://thebreakthrough.org/index.php/programs/energy-and-climate/understanding-energy-efficiency-rebound-interview-with-joyashree-roy/>
- <http://vimeo.com/75470291>

- <http://indiaclimatedialogue.net/2014/08/29/indian-industries-bit-go-green/>
- <https://www.youtube.com/watch?v=tFZhqv3Egvo>
- <http://social.yourstory.com/2016/03/engineers-water-filter-arsenic/>
- [http://www.business-standard.com/article/pti-stories/engineers-develop-water-filter-to-remove-arsenic-116032500287\\_1.html](http://www.business-standard.com/article/pti-stories/engineers-develop-water-filter-to-remove-arsenic-116032500287_1.html)
- (<https://www.youtube.com/watch?v=EQ56sFXpHb8>)
- <https://www.youtube.com/watch?v=5Bvrlv6rI9c>
- [https://youtu.be/\\_iFgHtgzJjk](https://youtu.be/_iFgHtgzJjk)
- <https://www.youtube.com/watch?v=ACL2uILX49A>
- <https://www.youtube.com/watch?v=nSqr2zLKh1o&sns=em>
- <https://www.youtube.com/watch?v=9q-2MEAairE> (TEDxJU)
- <http://juicethemovie.com/voices/> (documentary )
- <https://twitter.com/juiceforall>
- <https://www.youtube.com/watch?v=n-D2UACR7Dg> (Helsinki-WIDER)

- Power hungry
- <https://powerhungrypodcast.buzzsprout.com/1157633/4547426-joyashree-roy-ipcc-author>
- <https://www.youtube.com/watch?v=TTFGa1mE90>
- **Webinar on Covid19+**  
Adamas: [https://www.youtube.com/channel/UCIK57b1XXOh7B7ubm\\_Ia\\_tg](https://www.youtube.com/channel/UCIK57b1XXOh7B7ubm_Ia_tg)

- (2018) SNV: <http://www.snv.org/update/we-need-talk-about-climate-change-every-day>
- (2018) HT: <https://www.hindustantimes.com/editorials/greater-collective-ambition-is-the-need-of-the-hour-to-tackle-global-warming/story-uADHJIU30RBKDO4rFvWhcL.html>
- (2018) Arsenic news: <https://www.thebetterindia.com/166611/clean-drinking-water-arsenic-bengal-india-news/>

(2017) <https://www.youtube.com/watch?reload=9&v=JIqAfPKr2Vvk>

(2019) : Agriculture : <https://india.mongabay.com/2019/05/study-maps-rise-in-non-co2-emission-from-cropland-based-agriculture-over-30-years/>

(2021): NERP -Japan - <https://youtu.be/ipyMTVmLiwo>

**Active participation in overseas research collaboration/post doctoral research/short term advanced course participation/ research assignments/ conference/meeting/workshop/key note addresses/invited lecture/global report writing meetings:**

Year	Country	Institute./city	Purpose
1997	USA	Lawrence Berkeley National Laboratory, California	Post Doctoral fellow
		New York University	Paper presenter, I-O Conference
	Canada	Quebeck city	Paper presenter, IAEE Conference
1998	USA	Lawrence Berkeley National Laboratory, California	Post Doctoral fellow

1999	USA	Lawrence Berkeley National Laboratory, California	Invited Visiting Researcher
2000	USA	Lawrence Berkeley National Laboratory, California	Invited Visiting Researcher
	Italy	Macerata University	Session Chair, Paper presenter, I-O conference
	France	International Energy Agency, Paris	Invited Visiting Researcher
	Netherlands	Hague	Group Research presentation, COP6 of UNFCCC
	Switzerland	Zurich Institute of technology	Invited speaker
	Nepal	Kathamandu	Paper presenter, SANDEE conference
	2001	USA	Lawrence Berkeley National Laboratory, California
Netherlands		Amsterdam	Invited speaker-Kyoto Network conference
2002	USA	Lawrence Berkeley National Laboratory, California	Invited Visiting Researcher
	Thailand	Asian Institute of Technology, Bangkok	Paper presenter, SANDEE conference
	Bangladesh	Dhaka	Research group presentation - APN conference
	Bangladesh	Dhaka	Paper presenter, SANDEE conference
	Canada	Montreal	Session organizer, Chair , paper presenter, I-O conference
2003	USA	Lawrence Berkeley National Laboratory, California	Invited Visiting Researcher
		Sandiego State University	Invited speaker-APN workshop
	Nepal	Kathmandu	Invited speaker-APN workshop
	SriLanka	Colombo	Paper presenter, SANDEE conference
	Bangladesh	Dhaka	Resource Person - SANDEE research& training (R&T) workshop
	Thailand	Asian Institute of Technology	Advanced Course participant-SANDEE conference
2004	USA	Lawrence Berkeley National Laboratory, California	Invited Visiting Researcher

		Howard University, Washington DC	Invited Collaboration meeting
	Nepal	Kathamandu	Resource person-SANDEE R&T workshop
	France	CERNA, Ecole de mines, Paris	Invited speaker in DEMATEEDE research collaboration
	UK	Natural Research Institute, Kent	Invited speaker, Research collaboration
	Japan	Tokyo	IPCC -CLA of AR4 meeting
	Germany	Leipzig	IPCC-CLA of AR4 meeting
2005	USA	Washington, DC	IPCC -CLA of AR4 meeting
	Peru	Lima	IPCC -CLA of AR4 meeting
	Philippines	Manila	Invited speaker-SYLFF-TKFD meeting
	Bangkok	ChiangMai	Invited speaker, APN workshop
	Ghana	Accra	Invited speaker-DFID Project meeting
	Srilanka	Colombo	Invited speaker-APN, START workshop
		Tea Research Institute	Invite spaker-Research collaboration
	Zambia	Lusaka	Project partner -DFID Project meeting
2006	South Africa	Capetown	IPCC -CLA of AR4 meeting
	China	Beijing	IPCC -CLA of AR4 meeting
	Japan	Osaka , St Andrews University	Invited lecture
		Tokyo	Invited speaker and session chair-World Bank Annual Conference for Development
	UK	London, HM Treasury	Invited in Stern review Committee Meeting
		NRI, Chatham	Invited lecture and Meeting with Project collaborators
	USA	New York University	Paper Presentation at North American Productivity Conference
	France	Paris	IPCC Meeting
Singapore	Lin Qua School of Public Policy	Invited to World Bank and IMF meeting and Workshop by RAD	

	Russia	Leontief Centre	Invited Lecture in Centenary celebration
	New Zealand	Christchurch	IPCC -CLA of AR4 meeting
2007	Denmark	Copenhagen	SYLFF Directors Meeting
	Thailand	Bangkok	IPCC-AR 4 Approval session
	Slovenia	Bled	Invited reviewer, chair, jury, World Bank ABCDE Conference
	Germany	Bochum	Invited observer at SYLFF Regional Forum
	Maldives	Male	APN-project Inception Workshop
	South Africa	Capetown	Invited speaker IPCC-AR4 dissemination workshop
	2008	Thailand	Bangkok
Chiang Mai			Invited participant-Workshop, Sustainability Transition
Netherlands		Tilberg	Ph. D thesis examination
		IPCC TSU	Invited Seminar on "climate change and Indian economy"
		Utrecht University	-Do-
Japan		Tokyo	IPCC -AR4 Dissemination workshop
Austria		Vienna	Global Energy Assessment workshop of IIASA
South Africa		Capetown	Jury member-ABCDE World Bank
Spain		Seville	Key note paper- International Input-Output Conference
Philippines		Manila	Invited speaker- Climate change: media training workshop by EEPSEA
Switzerland		Geneva	Invited -UNEP-ADAM workshop on trade and climate change
Austria		Vienna	Workshop -GEA
France		Paris	Invited for consultation-World Bank Vice Presidency
Netherlands		Hague	Invited speaker-World Bank Climate Change and Development
Germany		Berlin	Invited for brain storming-World bank workshop on World Development Report



	UK	Cambridge	Project leaders meeting of Climate strategy
	France	Paris	World Bank meeting on Low Carbon Pathway
2009	Austria	Vienna	Global Energy Assessment Council Meeting.
	Denmark	Copenhagen	Invited Panelist in Climate change congress
	Japan	Osaka	Invited lecture series- MomoyamaGakuin University
	Canada	Toronto	Invited Lecture-York University
	Austria	Vienna	Executive committee meeting
	Germany	Bonn	Session chair and paper presenter-IHDP Meeting
	Mexico	Curnavaca	GRUNHE Network Meeting
	Japan	Osaka	Invited- MomoyamaGakuin University
	UK	London	Invited participant-ESRC Meeting in LSE
	Kenya	Nairobi	GRUNHE /ICUH Conference 2009
	Austria	Vienna	GEA ExComm meeting
2010	Netherlands	Groningen	Invited Public lecture on Indian Economy, Groningen university, School of Economics and Business
		Utrecht University	do
	France	Paris	Meeting at World Bank Vice Presidency
	Italy	Milan	GRUNHE meeting
	Switzerland	Zurich	ETH -invited lecture
	Austria	Vienna	GEA Ex-Committee Meeting
	Sweden	Stockholm	Chair and Jury Board member-ABCDE world bank
	UK	Cambridge	Invited Visiting Scholar at Faculty of Economics
	USA	LBNL, California	Invited Visiting researcher
	Belgium	Liege	IPCC meeting
	Japan	Beppu	Invited speaker-TKFD meeting
Nepal	Kathmandu	Invited paper-SANDEE-conference	
2011	Malayasia	Kualulumpur	APN meeting

	Germany	Hamburg	LOICZ steering committee meeting
	Austria	Vienna	Executive council meeting- GEA
	Bangladesh	Dhaka	Invited paper-Workshop on Water resource
	China	Beijing	Invited to IEA meeting on WEO
	Thailand	Bangkok	Invited participant -SANDEE Policy workshop
	Australia	Melbourne	Invited lecture-Monash University-Monash Sustainability Institute
	China	Yantai	Invited lecture, session organization and chair LOICZ-OSC, YLF
	Bangladesh	Tangail	Resource person-SANDEE-capacity building programme
	China	Yixing	Invited paper-SCOPE
	Russia	Moscow	Invited Paper-Climate change adaptation (GOI)
	Netherlands	Amsterdam	Invited participant-Climate-Nitrogen
2012	New Zealand	Wellington	IPCC meeting
	UK	London	Paper presenter-Planet Under Pressure Paper presentation
	USA	Washington DC	IPCC meeting
	Pakistan	Islamabad	Invited speaker-SDPI and SANDEE -capacity building programme
	China	Taiyuan	Paper presentation-Environmental Development
	Spain	Vigo	IPCC lead authors' Meeting
	Malayasia	Kualulumpur	Invited member in brainstorming -Future Earth-regional Vision
2013	Netherlands	Eindhoven	Paper presenter anspecial seminar speaker-Workshops: on Mobility and Bio fuel Transitions, Eindhoven University
	USA	Washington DC	Invited participant-Workshop: Energy access, Arizona State University
	Germany	Berlin	IPCC special meeting

	USA	California	Invited chapter author-GEA Launch by Stanford University. ECAR and DIL executive committee meeting at UCB and LBNL, Berkeley
	USA	California	Invited participant-Breakthrough Institute Annual Conference
	Ethiopia	Addis Ababa	IPCC AR5 meeting
	Japan	Yokohama	Invited speaker-LoCAR net annual conference
	Brazil	Rio de Jenerio	LOICZ SSC meeting
	Sweden	Stockholm	UNEP -Gap report meeting
	USA	New York	UCCRN Inception meeting
	Germany	Potsdam	IPCC meeting: SPM/TS
	South Korea	Seoul	Invited speaker-International Conference on Climate Change Policy Coordination and Policy Mix
	Netherlands	Eindhoven	Invited speaker-Role of climate models workshop
2014	Canada	Montreal	Invited participant-CIFAR Life in Changing Ocean Meeting
	South Africa	Capetown	Invited speaker-Development and Mitigation forum
	Srilanka	Colombo	Invited speaker-South Asian Meet on Higher education of British Council
	Thailand	Pattaya	Invited paper presenter, session chair- ICUE 2014
	Germany	Berlin	IPCC AR 5 approval session
			Multi level governance network meeting
	Thailand	Chiang Mai	WOTRO Network Workshop
	Germany	Bonn	Invited speaker-UNFCC-SED
	USA	California	Key note address-Breakthrough Dialogue
	Pakistan	Islamabad	Invited speaker-IPCC AR 5 dissemination workshop
	Uganda	Kampala	Invited -IPCC AR5 dissemination workshop
	Germany	Potsdam	Invited Paper -Multi level Governance Dialogue
	Thailand	Bangkok	CGIAR-CCAFS workshop

	Indonesia	Yogyakarta	Invited speaker -IPCC AR 5 dissemination workshop
	Netherlands	Amsterdam	Project partner Multilevel governance workshop
2015	Sri Lanka	Galle	APN project workshop
	Thailand	Bangkok	Invited paper at Regional Forum on Climate Change (RFCC) - Low Carbon and Climate Resilient Societies: Bridging Science, Practice, and Policy
	Germany	Potsdam	Invited speaker at IASS
	USA	California	Invited speaker at Breakthrough Dialogue
	Norway	Stavanger	Indo-Norway Project meeting
	Pakistan	Lahore	IPCC dissemination meeting
2016	Nepal	Kathmandu	ICIMOD-HIMAP workshop for authors
	Norway	Oslo	IPCC AR6 media and workshop on How to communicate Climate Change Related scientific messages to public
	Norway	Oslo	Invited lecture at PRIO-Climate Governance, Case study of India : Multilayered Complexities
	Belgium	Ghent	TEDx talk
	USA	California	Breakthrough Dialogue 2016
	Nepal	Kathmandu	HIMAP , authors meeting , co-chair of scenario session
	Switzerland	Geneva	IPCC meeting –invited lecture on social transition 1.5 Degree world and session co-chair on Implementations
	Russia	St Petersburg	EMEICS –Invited Lecture on Coastal risks and adaptation
	Sweden	Stockholm	Future-Earth and IPCC meeting on Sustainable development , Invited session co-chair on Solutions
	Germany	Wuppertal	IGES meeting on Lowcarbon network, chair and invited lecture on deep decarbonisation in Indian industries

	Norway	Stavangar	Invited speaker on possible renewable future for India
	USA	Washington -DC	EEG -Theme lead author
	Hungary	Budapest	Water Summit
2017	Brazil	Sao Jose de campos	IPCC SR 1.5 meeting
	Nepal	Kathmandu	IPCC dissemination workshop HIMAP author meeting
	Ethiopia	Addis Ababa	IPCC Ar6 Scoping Meeting
	USA	California	Stanford Energy Forum, Breakthrough Dialogue 2017
	UK	Exeter	IPCC 1.5 Special Report author meeting
	Switzerland	Interlaken	Global Carbon Project Meeting
	Japan	Tokyo	Workshop on Global Stock Take
	Sweden	Malmo	IPCC 1.5 Report author meeting
	Germany	Bonn	COP 23 Side event speaker
2018	Canada	Edmonton	Cities and Climate Change
	Botswana	Gaborone	IPCC 1.5 Report writing meeting
	Sweden	Lund	Invited Speaker: Decarbonising Industries
	France	Paris	IPCC 1.5 report report writing meeting
	Sweden	Stockholm	Global Carbon Project Steering Committee meeting
	USA	Cavallo Point	Breakthrough Dialogue 2018
	Bangladesh	Dhaka	Invited Speaker: Power & Energy Week 2018
	Japan	Nara	Invited speaker : Demand Side Solutions for Climate Change
	USA	Palo Alto	Editorial Board Meeting of ARER
	South Korea	Incheon	Approval session : IPCC Special Report on 1.5C Global Warming
	USA	Portsmouth, NH	Invited speaker:
	USA	Aspen, CO	Invited speaker: Technologies and Policies to Decarbonize the Industry Sector
	Poland	Katowice	COP 24
2019	Bangladesh	Dhaka	Invited talk on Energy, sustainability and climate responsiveness: challenges for developing economies
	Mongolia	Ulanbaatar	IPCC 1.5 special report dissemination panelist

	Cambodia	Siem Reap	IPCC 1.5 special report dissemination panelist
	Myanmar	Naw pyi Taw	IPCC 1.5 special report dissemination panelist
	UK	Edinburg	IPCC 6 <sup>th</sup> assessment report Lead author meeting
	UK	London	Interview in BBC
	USA	Berkeley	LBNL visiting scholar
			Breakthrough Institute Dialogue
	Bangladesh	Dhaka	Invited Keynote talk on Energy transitions in climate change context -implications for Bangladesh
	Germany	Wuppertal	Wuppertal Institute International Advisory Committee Meeting
	Austria	Vienna	ICTS conference speaker : Deep decarbonization in industries
	Singapore	Singapore-santosa	IPCC Synthesis scoping meeting
	Malayasia	Kualalumpur	IPCC dissemination meeting
2020	Bangladesh	Dhaka	Key note address at EWU:
	Myanmar	Yangong	Key note presentation invited by 5 <sup>th</sup> International Forum by NIES, Japan
	Portugal	Faro	IPCC WGII Lead Author Meeting 3
	Japan	Tokyo	Alternative Pathways toward sustainable development and climate stabilisation
		PANDEMIC COVID19	
2021	USA	California	Ecomodern Justice Journal release, Receiving Breakthrough Institute Paradigm Award of 2021
		Boston	Massachussets Maritime Academy: Invited Lecture
2022	Ireland	Dublin	IPCC Synthesis report writeshop
	Canada	Toronto	CIFAR proposal writing workshop
	Austria	Vienna	EDIT project annual workshop
	USA	Washington DC	ARER Journal Annual Editorial Board Meeting
	Japan	Tokyo	ICEF Annual conference
	Egypt	Sharm el-Sheikh	COP 27

	Indonesia	Banyuwangi	PISCES project codesign workshop
2023	Switzerland	Interlaken	IPCC Ar 6 Synthesis approval session
	USA	Washington DC	EDF workshop

### Media coverage

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<https://www.downtoearth.org.in/news/climate-change/climate-crisis-ipcc-synthesis-report-says-the-vulnerable-are-suffering-the-maximum-losses-and-damages-88352>

<https://theplurals.org/news/details/ipcc-report-unless-global-carbon-emission-is-halved-by-2030-areas-like-sundarbans-to-become-most-vulnerable-eng>

New IPCC Report Lists Numerous Low-Cost Options to Tackle Climate Change

<https://thewire.in/environment/new-ipcc-report-lists-numerous-low-cost-options-to-tackle-climate-change>

India must prioritise grants, policies around vulnerable population to mitigate climate change impact: IPCC authors

<https://theprint.in/india/india-must-prioritise-grants-policies-around-vulnerable-population-to-mitigate-climate-change-impact-ipcc-authors-2/1459421/>

Livable future possible if drastic action taken this decade: IPCC report

<https://www.nationalheraldindia.com/international/livable-future-possible-if-drastic-action-taken-this-decade-ipcc-report-2>

Equitable climate action needed to secure future, says IPCC in latest report

<https://theprint.in/environment/equitable-climate-action-needed-to-secure-future-says-ipcc-in-latest-report/1458362/>

Climate Crisis: IPCC Synthesis Report says the vulnerable are suffering the maximum losses and damages

<https://www.downtoearth.org.in/news/climate-change/climate-crisis-ipcc-synthesis-report-says-the-vulnerable-are-suffering-the-maximum-losses-and-damages-88352>

IPCC report: Unless global carbon emission is halved by 2030, areas like Sundarbans to become most vulnerable

<https://theplurals.org/news/details/ipcc-report-unless-global-carbon-emission-is-halved-by-2030-areas-like-sundarbans-to-become-most-vulnerable-eng>

Rapidly narrowing window for humanity to limit warming to 1.5 deg C: IPCC report

<https://www.devdiscourse.com/article/science-environment/2387182-rapidly-narrowing-window-for-humanity-to-limit-warming-to-15-deg-c-ipcc-report>

India must prioritize grants, policies around vulnerable population to mitigate climate change impact: IPCC authors

<https://www.devdiscourse.com/article/science-environment/2387140-india-must-prioritise-grants-policies-around-vulnerable-population-to-mitigate-climate-change-impact-ipcc-authors>

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(Disha Shetty)

<https://fullerproject.org/story/india-early-weather-warning-system-economic-benefits-women/>

<https://science.thewire.in/environment/india-investment-national-monsoon-mission-early-warning-systems-benefits-women/>