

## Resume

**NAME** : Joyashree Roy (nee Kar)  
**DESIGNATION** : Professor of Economics  
**OTHER CURRENT POSITIONS:** Coordinator, Global Change Programme,  
Jadavpur University  
(www.juglobalchangeprogram.org)  
Project Director, SYLFF  
(Royichi Sasakawa young Leaders Fellowship Fund)  
(www.jusylffprogram.org.in)  
**DATE OF BIRTH** : October 1, 1957  
**NATIONALITY** : Indian  
**GENDER** : Female  
**MAILING ADDRESS (OFFICE)** : Joyashree Roy,  
Professor of Economics,  
Global Change Programme,  
Biren Roy Research Laboratory Building,  
First Floor, 188 Raja S.C. Mallik Road,  
Jadavpur University  
Kolkata- 700032, India.  
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**MOBILE NO.** : 91-9836007382  
**FAX NO.** : 91-33-24146382/24127905  
**E-MAIL ADDRESS** : joyashreeju@gmail.com

### **EDUCATION**

- Ph.D in Economics, Jadavpur University, Kolkata, 1991.
- M.A. (Economics), North Eastern Hill University, Shillong, 1978.
- B.A. (Economics Honours), North Eastern Hill University, Shillong, 1976.
- Pre University (10+2), North Eastern Hill University, 1974.
- High School leaving Certificate, Board Of Secondary Education Assam, 1972.

### **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.
- 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**

- Best Citizen's award 2011,
- Sawamsiddha Award of Rotary Club of Calcutta Metro City 2011.
- **A member of the IPCC- 2007 Nobel Peace Prize winning panel.** Served as Coordinating Lead author of industry chapter of WGIII of AR4. IPCC shares the Nobel Peace Prize of 2007.
- Felicitated and awarded a certificate by Prime Minister of India for valuable contribution to the IPCC process (AR4).
- Selected CLA-AR5 for Industry chapter IPCC WGIII 2011-2014.
- Jadavpur University Teachers Association felicitated for noteworthy achievements in the field of her research. (2008).
- *Ford Foundation Post Doctoral Fellowship Award in Economics.* Area of research was Environmental Economics. Spent the year at Lawrence Berkeley National Library, Environmental Energy Technology Division, and MS 90-4000, One Cyclotron Road, Berkeley, CA 94720, USA (1997-98).
- NIPFP-Ford Foundation Post-Doctoral Research grant (in Economics) in 1998-99.

#### ***Biographical data appears in***

- The 17<sup>th</sup> and 18<sup>th</sup> edition of Who's Who in the World, Marquis Who's Who, USA.
- The 29<sup>th</sup> Edition of the Dictionary of International Biography of the International Biographical Centre Cambridge CB2 3QP England.
- The International Personality of the year 2001, of the International Biographical Centre Cambridge CB2 3QP England.
- Top 100 Educators, 2008 of International Biographical Centre, Cambridge, England.

#### **FIELDS OF INTEREST AND SPECIALISATION (TEACHING AT UNDERGRADUATE, MASTERS AND M.PHIL, PH.D. COURSES AS WELL AS FOR RESEARCH):**

Micro Economics, Resource, Energy and Environmental Economics, Economics of Climate Change, Quantitative Techniques in Economics.

#### **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

## MEMBERSHIP OF EDITORIAL BOARDS/ PROFESSIONAL SOCIETIES/BODIES (PAST AND CURRENT)

- Environmental Development
- Current Opinion in Environmental Sustainability
- Energy Economics
- Climate Change consultative Group of Ministry of Environment and Forest, Government of India
- TIFAC. Government of India.
- Member of the Advisory Group on Energy, the West Bengal State Council of Science & Technology.
- Member of the Statutory Body: SEAC- State Level Environment Assessment Committee of the Govt. of West Bengal.
- Member of the Editorial Board of the reputed Peer reviewed international Journal *Energy Economics*.
- Steering Committee Member and Chair of the Researchers alliance for Development (RAD) of the World Bank, European Vice Presidency.
- Inter Governmental Panel for Climate Change (IPCC) , (AR4) UNFCCC.
- Advisory Board of the *Central Electricity Regulatory Commission*, New Delhi, India.
- Member in the *Board for Selection under Staff Selection Commission*, Govt. of India.
- Member of the *International Association for Energy Economics*.
- Member of *International Association of Input Output Technique* (Member of Scientific programme Committee for 13<sup>th</sup> I-O Conference of 2000)
- Ex-executive and Life member of the *Indian econometric society*.
- Life member of *Ecological Society of India*.
- Life member of the *Bengal Economic Association*.
- Member of academic boards of various universities in India.
- Regular Reviewer of articles for peer reviewed international, national journals, books

## COUNTRIES OF WORK EXPERIENCE: **India**

**Countries visited for higher studies/short term research assignments/conference/meeting/workshop/Key note address**

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

1999	USA	Lawrence Berkeley National Laboratory, California	Visiting Researcher
2000	USA	Lawrence Berkeley National Laboratory, California	Visiting Researcher
	Italy	Macerata University	I-O conference
	France	International Energy Agency, Paris	Visiting Researcher
	Netherlands	Hague	COP6, Conference
	Switzerland	Zurich Institute of technology	Conference
	Nepal	Kathamandu	SANDEE conference
2001	USA	Lawrence Berkeley National Laboratory, California	Visiting Researcher
	Netherlands	Amsterdam	Kyoto Network conference
2002	USA	Lawrence Berkeley National Laboratory, California	Visiting Researcher
	Thailand	Asian Institute of Technology, Bangkok	SANDEE conference
	Bangladesh	Dhaka	APN conference
	Bangladesh	Dhaka	SANDEE conference
	Canada	Montreal	I-O conference
2003	USA	Lawrence Berkeley National Laboratory, California	Visiting Researcher
		Sandiego State University	APN workshop
	Nepal	Kathmandu	APN workshop
	SriLanka	colombo	SANDEE conference
	Bangladesh	Dhaka	SANDEE conference
	Thailand	Asian Institute of Technology	SANDEE conference
2004	USA	Lawrence Berkeley National Laboratory, California	Visiting Researcher
		Howard University, Washington DC	Collaboration meeting
	Nepal	Kathamandu	SANDEE conference
	France	CERNA, Ecole de mines, Paris	DEMATEEDE research collaboration
	UK	Natural Research Institute, Kent	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	SYLFF-TKFD meeting
	Bangkok	ChiangMai	APN workshop
	Ghana	Accra	DFID Project meeting
	Srilanka	Colombo	APN, START workshop
		Tea Research Institute	Research collaboration
Zambia	Lusaka	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	World Bank Annual Conference for Development
	UK	London, HM Treasury	Stern review Committee Meeting
		NRI, Chatham	Meeting with Project collaborators
	USA	New York University	Presentation at North American Productivity Conference
	France	Paris	IPCC Meeting
	Singapore	Lin Qua School of Public Policy	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	World Bank ABCDE Conference
	Germany	Bochum	SYLFF Regional Forum
	Maldives	Male	APN-Inception Workshop
	South Africa	Capetown	IPCC-AR4 dissemination workshop
2008	Thailand	Bangkok	SANDEE Workshop
		Chiang Mai	Workshop, Sustainability Transition
	Netherlands	Tilberg	Ph. D thesis examination
		IPCC TSU	Invited Seminar on "climate change and Indian economy"
		Utrecht University	

	Japan	Tokyo	IPCC -AR4 Dissemination workshop
	Austria	Vienna	Global Energy Assessment workshop of IIASA
	South Africa	Capetown	ABCDE World Bank
	Spain	Seville	International Input-Output Conference
	Philippines	Manila	Climate change: media training workshop by EEPSEA
	Switzerland	Geneva	UNEP-ADAM workshop on trade and climate change
	Austria	Vienna	Workshop -GEA
	France	Paris	World Bank Vice Presidency
	Netherlands	Hague	World Bank Climate Change and Development
	Germany	Berlin	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	Panelist in Climate change congress
	Japan	Osaka	Momoyama Gakuin University
	Canada	Toronto	York University
	Austria	Vienna	Executive committee meeting
	Germany	Bonn	IHDP Meeting
	Mexico	Curnavaca	GRUNHE Network Meeting
	Japan	Osaka	Momoyama Gakuin University
	UK	London	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
	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	ABCDE world bank
	UK	Cambridge	Visiting Scholar at Faculty of Economics
	USA	LBNL, California	Visiting researcher
	Belgium	Liege	IPCC meeting
	Japan	Beppu	TKFD meeting
	Nepal	Kathmandu	SANDEE
<b>2011</b>	Malayasia	Kualulumpur	APN meeting
	Germany	Hamburg	LOICZ steering committee meeting
	Austria	Vienna	Executive council meeting
	Bangladesh	Dhaka	Workshop on Water resource
	China	Beijing	IEA meeting on WEO
	Thailand	Bangkok	SANDEE Policy workshop
	Australia	Melbourne	Monash University-Monash Sustainability Institute
	China	Yantai	LOICZ-OSC, YLF
	Bangladesh	Tangail	SANDEE
	China	Yixing	SCOPE
	Russia	Moscow	Climate change adaptation (GOI)
	Netherlands	Amsterdam	Climate-Nitrogen
2012	New Zealand	Wellington	IPCC meeting
	UK	London	Planet Under Pressure Paper presentation
	USA	Washington DC	IPCC meeting

## EMPLOYMENT RECORD

**FROM April 2002/2001** : **To-- date**

**POSITION HELD** : \*Professor of Economics  
\*SYLFF Project Director  
\*Coordinator, Global Change Programme

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

**EMPLOYER** : Jadavpur University, Kolkata, India.

**DESCRIPTION OF DUTIES** : \*Teaching at M.Phil, Postgraduate and Undergraduate level, Guiding Research for M.Phil and Ph.D students  
\*Administrative cum Academic responsibilities for Directing the SYLFF Programme and Coordinating the Climate Change and Human Dimensions Research at Jadavpur University.

<b>FROM 1991</b>	:	<b>TO 2002 March</b>
<b>POSITION HELD</b>	:	Reader in Economics
<b>EMPLOYER</b>	:	Jadavpur University, Kolkata, India.
<b>DESCRIPTION OF DUTIES</b>	:	Teaching at M.Phil, Postgraduate and Undergraduate level, Guiding Research for M.Phil and Doctoral students
<b>FROM 1982</b>	:	<b>TO 1991</b>
<b>POSITION HELD</b>	:	Lecturer
<b>EMPLOYER</b>	:	Muralidhar Girls' College, Kolkata, India.
<b>DESCRIPTION OF DUTIES</b>	:	Teaching at Undergraduate level

**RESEARCH EXPERIENCE:** (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. The bias is more towards 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. Focus of current research is more towards Economic and Social Dimensions of Climate Change, Water resource management and multidisciplinary research on sustainable development.

**PROVIDING RESEARCH SUPPORT/COLLABORATION/ADVISORY SUPPORT TO GOVT. DEPARTMENTS/BODIES WITHIN INDIA:**

- i) ICC (Indian Chamber of Commerce)
- ii) CII (Confederation of Indian Industries )
- iii) Ministry of Environment and Forest, GOI
- iv) TIFAC, GOI
- v) Department of Renewable Energy Development Agency, Government of West Bengal, India.
- vi) National Physical Laboratory, New Delhi
- vii) G.B. Pant Institute of Himalayan Environment and Development, India
- viii) Ministry of Environment and Forests, Government of India
- ix) Ministry of Statistics and Programme Implementation, Government of India
- x) West Bengal Pollution Control Board (WBPCB)
- xi) Department of Environment, Govt. of West Bengal
- xii) West Bengal Council of Science and Technology
- xiii) West Bengal State Environment Assessment Council. (WBSEAC)
- xiv) Asia Pacific Network (APN).
- xv) Global Energy Assessment (GEA) - IIASA
- xvi) United Nations Industrial Development Organization (UNIDO)



- xvii) Nippon Foundation, Tokyo Foundation
- xviii) Intergovernmental Panel on Climate Change (IPCC)
- xix) Asian Development Bank (ADB)

## LIST OF PUBLICATIONS

Books/ Articles/ Reports:

### A. Books authored/edited/Chapter Coauthored/Contributed:

#### i. Authored:

**1992**

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

**2007**

- b. "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 (coauthored by Bikram Chatterjee, S Basak and K Nandy).

**2009**

- c. 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.

**2007**

- ii. IPCC Chapter Co-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.

- iii. IPCC Report 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.

**2012**

- i. IPCC Report chapter contributing author: IPCC 2012, Renewable Energy sources and Climate Change Mitigation, special Report of the IPCC, Cambridge University Press. US.
- ii. UNIDO Industrial Development Report 2011:  
[http://www.unido.org/fileadmin/user\\_media/Publications/IDR/2011/UNIDO%20IDR%20reprint%20for%20web%2020912.pdf](http://www.unido.org/fileadmin/user_media/Publications/IDR/2011/UNIDO%20IDR%20reprint%20for%20web%2020912.pdf)

- iii. Global Energy Assessment : Towards a Sustainable Future –convening lead author. 2012.

Edited :

**1999**

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

**2000**

- e. “*Themes on Development Economics*”, Allied Publishers Ltd. 2000, Allied Publishers Ltd., Calcutta 700 032\_(co- editor, Manas Ranjan Gupta).

**2006**

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

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

**In Peer Reviewed Journals/Books of International Repute: (69)**

**2012 (5)**

- Roy, Joyashree, Maniparna Shyam Roy, and Abhinanda Deb (2012) , “Sustainable Development: An Assessment for Paschimbanga.” In *Indian Economic Development: Contemporary Issues*, edited by D N Bhattacharyya, 14-49. New Delhi: Regal Publications.
- Roy, Joyashree, S dasgupta, D Chakrabarty (2012), Energy Efficiency: Technology and Behaviour- Examples from Indian Economy, in *The Handbook of Global Energy Policy* , ed Andreas Golthau, Wiley Blackwell (in print: forth coming).
- Dasgupta Shyamasree, Joyashree Roy, Amit Bera, Asha Sharma, Pushkar Pandey (2012), Growth Accounting for Six Energy Intensive Industries in India., *Journal of Industrial Statistics*, Central Statistical Organization (IS Wing), Ministry of Statistics and Programme Implementation. Government of India, Vol. 1 No 1. March pp 1-15.
- Pal Barun , Sanjib Pohit ,Joyashree Roy (2012), Social accounting martrix for India, *Economic Systems Research*, Volume: 24, Issue: 01, pages 77 - 99. <http://dx.doi.org/10.1080/09535314.2011.618824>
- Weerahewa Jeevika , Gamini Pushpakumara, Pradeepa Silva, Chathuranga Daulagala, Ranjith Punyawardena, Sarath Premalal, Giashuddin Miah, Joyashree Roy, Sebak Jana and Buddhi Marambe (2012), Are Homegarden Ecosystems Resilient to Climatic Change? An Analysis of Adaptation Strategies of Homegardeners in Sri Lanka. *APN Science Bulletin.*, 2: 22-27 . <http://www.apn->

[gcr.org/uploads/bulletin/ScienceBulletin\\_Issue2\\_March2012\\_web.pdf](http://gcr.org/uploads/bulletin/ScienceBulletin_Issue2_March2012_web.pdf) (downloaded on February 26, 2012).

#### 2011 (1)

- Roy Joyashree, Moumita Roy and Shreya Roychowdhury (2011); "Sectoral Approach for Negotiating Climate Change: What is in it for the Indian Economy?"; pp: 265-284; Published in *Environment and Sustainable Development* edited by Raj Kumar Sen, Deep & Deep publications Pvt. Ltd., New Delhi, India

#### 2010 (4)

- Roy Joyashree and S Dasgupta (2010), *The Economics of Nuclear Energy: revisiting Resurrection*, Artha Beekshan Vol 19, No 1, June.
- Roy J (2010), *Iron and steel Sectoral Approaches to the Mitigation of Climate Change, Perform, achieve and Trade (PAT in India) Climate Strategies Briefing paper* september 23, [www.climatestrategies.org](http://www.climatestrategies.org)
- Roy Joyashree, Chhonda Bose, Ranjan Bose, Sarmistha Das, Shobhankar Dhakal, Mitali Dasgupta, Rucha Ghate, Saikat Sinha Roy, Manaswita Konar, Anoja Wickramasinghe, Moumita Roy & Chetana Chaudhuri, (2010), "Development Pathway", in 'Global Environmental Changes in South Asia: A Regional Perspective', edited by A. P. Mitra & C. Sharma, published by Capital Publishing Company, New Delhi.
- Roy Joyashree, Moumita Roy (2010); "Sectoral Approach: what is in it for the Five Large Developing Countries?" pp: 18- 33 in *Climate Change, Society & Sustainable Development , Agenda for Action*, Published by: Bennett, Coleman & Co. Ltd., New Delhi, India; Marketed by: Times Groups Books;

#### 2009 (7)

- Roy Joyashree and S. Fang (2009) *Energy Intensive sectors and international trade : Possible sectoral agreements in Trade Climate Change and Sustainable Development*, key issues for small states, least developed countries and vulnerable economies. Ed MK Gueye, M Sell, J Strachan, Published by common wealth Secretariat, London, UK. Pp 131-147
- Roy Joyashree (2009), "Managing Environment: Time to Revisit Human Action", in *Environmental Pollution on Biosphere and its Management*, edited by: Debamitra Mitra & Arup Kumar Mitra, The Icfai University Press, pp: 60-69
- Roy Joyashree and S. Pal (2009), *Lifestyle and climate Change: Link awaiting activation*, *Current Opinion in Environmental Sustainability*, 1:192-200.
- Roy Joyashree (2009) , *Climate Change: International Negotiations and Mitigation Policy*, in Edited Volume "Hand Book on Environmental Economics in India" ed: Kanchan Chopra and Vikram Dayal, OUP, New Delhi. Ch 10.
- Roy Joyashree and Abhijit Das (2009), *Comprehending cost-benefit ratios of arsenic mitigation measures in rural West Bengal*, in edited volume by Water Aid. (in Press).

- Roy, J., Chatterjee, B., and Basak, S., (2009), "Sustainable Development in India? Who should do what, "<http://www.indiastat.com/article1/01/drjoy/article1.html> downloaded March 27, 2009.
- Worrell Ernst, Lenny Bernstein, Joyashree Roy, Lynn Price , Jochen Harnisch , Stephane de la Rue du Can (2009), Industrial Energy Efficiency and Climate Change Mitigation, *Energy Efficiency: Volume 2, Issue2,Page 109.*

#### 2008 (4)

- Roy Joyashree, Bikram chatterjee, Sruti Basak (2008), Towards a Composite Sustainability Index: How are the states and union territories of India doing? *The India Economy Review*, Vol V, September 30, pp 54-76.
- Roy Joyashree (2008), Climate Change Response and Action at Cross Roads: *Time to Revisit Clean Development Mechanism.*  
<http://www.tokyofoundation.org/en/sylff/voices-from-the-sylff-community/climate-change-response-at-a-crossroads>
- Roy Joyashree (2008), "An Incentive for Tackling Climate Change", *Connecting*, April - May 2008, British Council India.
- Roy Joyashree (2008), Economic Benefits of Arsenic Removal from Ground Water -A Case Study from West Bengal, India. *Science of the Total Environment*, (STOTEN), Vol 397/1-3 pp 1-12.

#### 2007 (3)

- Roy Joyashree (2007), "De-Linking Economic Growth From GHG Emissions Through Energy Efficiency Route- How far are we in India? ", *The Bulletin On Energy Efficiency*. Vol.7 (Annual Issue 2007) , pp 52-57.
- Roy Joyashree (2007) , Climate Change in The South Asian Context with a Special focus on India: A Review, *AEI Newsletter*, April, Issue 3, pp 9-21.
- Roy Joyashree (2007). , Global Warming and Indian Sundarbans: Need for a Systems Approach, *Hindu 2007 Survey on Environment*.

#### 2006 (5)

- Sanstad A.H. , Joyashree Roy, Jayant A. Sathaye (2006) , Estimating Energy - Augmenting Technical Change in developing Country Industries, *Energy Economics, Special Issue*.
- Roy Joyashree , Alan H. Sanstad, Jayant A. Sathaye, Raman Khaddaria (2006), Substitution and Price Elasticity Estimates Using Inter-Country Pooled Data in a Translog Cost Model, *Energy Economics, Special Issue*.
- Ghosh Anupa and Joyashree Roy (2006) Coping with Extreme Climatic Events: Analysis of Household and Community Responses from Selected Hotspots in India, *Science and Culture*, Special Issue on Flood Disaster, Risk Reduction in Asia, Vol 72. No.1-2, January-February. pp 23-31.

- Jana Sebak and Joyashree Roy (2006), What Determines Pollution Abatement Effort: Formal or informal Regulation? Case of Pulp and Paper Industry, in West Bengal”, in book edited by Joyashree Roy and A Roy Chaudhuri, : *Development Challenges: Some Analytical Issues*, Allied Publishers, Kolkata.
- Roy Joyashree , Anupa Ghosh and Gopa Barua (2006), The Economics of Climate Change: A Review of Studies in the Context of South Asia with a Special Focus on India. Submitted to Stern Review, [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).

### 2005 (3)

- Ghosh Anupa and Joyashree Roy (2005), Synthesis Report on Floods and Droughts. *Science and Culture* Vol. 71. No. 7-8. pp 285-287.
- Roy Joyashree, Anupa Ghosh, Asis Majumdar, Pankaj Roy, A.P. Mitra, C. Sharma (2005), Socio-economic and Physical Perspectives of Water Related Vulnerability to Climate Change: Results of Field Study in India, *Science and Culture*, Vol 71, No 7-8, pp 239-259.
- Roy Joyashree , Katja Schumacher, Jayant Sathaye, Alan Sanstad (2005), “Analysis of Fuel Input Use and Technical Change in Selected Energy-Intensive Industries in India” in *Resource Revisited* ed . Gautam Gupta, Allied Publishers Ltd. , Kolkata.

### 2004 (1)

- Roy Joyashree, Subhorup Chattopadhyay, Sabyasachi Mukherjee, Manikarnika Kanjilala, Sreejata Samajpati, Sanghamitra Roy (2004), An economic Analysis of Demand for Water Quality: A Case from Kolkata City, *Economic and Political Weekly*, vol XXXIX No 2, January 10-16, pp 186-192.

### 2003 (2)

- Sathaye, J, Scott Murtishaw , Lynn Price, Maurice Lefranc, Joyashree Roy, Herald Winkler, Randall Spalding-Fecher (2003), Multiproject Baselines for Evaluation of Electric Power Projects , *Energy Policy*, Vol32/11 pp 1303-1317.
- Roy Joyashree and Das, S (2003) ,”Clean Development Mechanism, Options and Challenges for Indian Power Sector”, in *Environment and Human Security*, ed. P. Bhattacharya and S. Hazra, Lancers Books, New Delhi.

### 2002 (2)

- Roy Joyashree, S Das, Jayant Sathaye, Lynn Price (2002), Estimating Baselines for CDM Case of Eastern Regional Power Grid in India. *Environmental Economics and Policy Studies*. Vol. 5, No. 2, pp. 121-134.
- Dasgupta Mitali and Joyashree Roy (2002), “Energy Consumption in India: an Indicator Analysis”, *Development Alternatives*, October, pp 12-13.

### 2001 (2)

- Das Gupta M and Joyashree Roy (2001), "Understanding Changes in Energy Consumption by Energy Intensive Manufacturing Industries in India", Staff paper, CSO. Government of India.
- Dasgupta, Mitali and Joyashree Roy (2001) Estimation and Analysis of Carbon dioxide Emissions from Energy Intensive Manufacturing Industries in India. *International Journal of Energy, Environment and Economics* Vol 11, no 3, pp165- 179.

#### 2000 (2)

- Dasgupta, M and Joyashree Roy (2000), Manufacturing Energy Use in India: A Decomposition Analysis, *Asian Journal of Energy and Environment*, September, Vol 1, No 3. 223-247.
- Roy, Joyashree (2000), Rebound Effect: Some empirical evidence from India, *Energy Policy*, 28, pp433-438.

#### 1999 (3)

- Roy, Joyashree, Jayant Sathaye, Alan Sanstad, Katja Schumacher, Puran Mongia (1999), Productivity Trends in Indian Energy Intensive Manufacturing Industries", *Energy Journal*, no 3, July: pp 33-61.
- Roy, Joyashree and Ranjana Mukhopadhyay (1999) "The Changing Structure of the Indian Economy -with Special Reference to Infrastructure and Energy Sectors-An Input-Output Analysis. *Journal of Applied Input- Output Analysis*, vol 5. pp 39-49.
- Ganguli S and Joyashree Roy (1999), "Water Pollution Abatement Cost and Tax in the Paper Industry", in *Environmental Economics in India- Concepts and Problems* , ed. G Gupta and Joyashree Roy, 1999, Allied Publishers Ltd., Calcutta 700 032.

#### 1998 (3)

- Ghosh, S and Joyashree Roy (1998) "Qualitative Input-Output Analysis of the Indian Economic Structure", *Economic Systems Research* vol. 10 no. 3.pp 263-273.
- Roy Joyashree and S.Jana (1998) "Solar Lanterns for Rural Households", *Energy-the International Journal*, vol.23, no.1, pp 67-68.
- Roy Joyashree (1997) "Socio economic Evaluation of the Solar Lantern Programme in rural India", *SESI Journal*.

#### 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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- Ganguly, I and Joyashree Roy : (1995), "Oil Demand Elasticities in India", *Indian Journal of Applied Economics*, Oct.-Dec., Vol. 5, No. 1, pp.75-87.
- Roy Joyashree ; (1995), "Allen or Morishima Elasticities? Some empirical Evidence from Indian Manufacturing Industries." *Arthavijnana*, March, Vol. XXXVII, No. 1, pp 66-76.

#### 1993 (1)

- 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.
- Roy Joyashree: (1992), "Environmental issues and Women - A Point of View", *Newsletter*, Indian Association for Women's Studies.

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- Das, T.K, Joyashree Roy and D. Chakraborty : (1990), "New Technological Options in Energy Sector - cost Burden on Rural Households", *Integrated Renewable Energy for Rural Development*, Ed. A. Saha, S.K. Saha, M.K. Mukherjee, Tata McGraw Hill Publishing Company Ltd., New Delhi.

#### 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)

- Kar Joyashree.(1982), "Towards an Energy Policy for India", *Capital*, Annual No.
- Kar Joyashree (1982), "Economics of Solar Energy", *Capital*, Vol. 188/No. 4707, May
- Kar Joyashree.(1982), "Energy Resource Mobilisation in the Manufacturing Sector", *Eastern Economist*, Vol. 78, No.19, May 14.
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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.

**Research Project Reports/Conference Proceedings/Working Papers:**  
(International/National)

- Roy Joyashree, Jayant Sathaye, Alan Sanstad, Katja Schumacher, Puran Mongia (1999), "Technological Change in India's Energy Intensive Industries", in conference Proceedings, 19<sup>th</sup> USAEE International Association for Energy Economics.
- Roy Joyashree, , Jayant Sathaye, Alan Sanstad, Katja Schumacher, Puran Mongia (1999), Productivity Trends In India's energy Intensive Industries in India: An econometric approach. *LBNL Report # 41839*. Report of the Environmental Technology Division, Lawrence Berkeley National Laboratory, Berkeley, California, USA. (Jointly with Jayant Sathaye, Alan Sanstad, P Mongia, K. Schumacher).  
<http://eetd.lbl.gov/ea/>.
- Joyashree Roy, Katja Schumacher, Jayant Sathaye, Alan Sanstad. Analysis of Fuel Input Use and Technical Change in Selected Energy-Intensive Industries in India, *LBNL report No 45498* <http://eetd.lbl.gov/ea/ccm/ccPubs.html>.
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- 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.
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<http://www.cerna.ensmp.fr> .
- Roy Joyashree, Anupa Ghosh, Gopa Barua (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 Sruti Basak (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, GGCP-JU /2007/EXC-1.
- Roy Joyashree (2007), Estimating the Economic Benefits of Arsenic Removal in India: A Case Study from West Bengal, Working Paper No 21-07 March.SANDEE .[www.sandeeonline.org](http://www.sandeeonline.org).
- Roy Joyashree, Moumita Roy, et al. (2009)Climate responsible Lifestyle Initiative @ Raj Bhavan – Kolkata.
- Roy Joyashree , Anwesa Chakraborty, Kuheli Mukhopadhyay (2010), Final Report submitted to NATCOM II, GOI, "Extreme Events, Water Resources, Status of Human Health, Livelihood: An Adaptation Framework for Kolkata Urban Agglomeration" .
- Roy Joyashree, et al (2010), Final Report submitted to WBPCB, "Towards the Preparation of a Comprehensive Report for Ascertaining Climate Change Vulnerability of West Bengal" .

- Roy Joyashree and Netinder Goran (2010), Report of the Study Developing a Roadmap for Climate Change and Health in India based on the Principles of Partner Driven Cooperation, Submitted to Swedish Embassy , New Delhi.
- 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>
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- *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.

**Papers Presented/ Accepted for presentation at the International and National Conference/ Seminar/ Workshop.**

1. "Problems and Prospects of Small Scale and cottage industries- A Study with Special Reference to Jaintia Hills District."1978.
  - Presented in the National Seminar on Rural Development in North Eastern Region, Organised by the Department of Economics, North Eastern Hill University. India.
2. "Energy Resource Mobilisation in Manufacturing Industries", (with Dr. D. Chakraborty) 1981.
  - Presented in the UGC Sponsored National Seminar on Economics of Energy Crisis organised by the Department of Economics, Rabindra Bharati University. India.
3. "Slow Industrial Growth in Eastern Region - A case study for Electricity Generating Sector", 1989.
  - Presented in the Workshop on Industrial Slow down in the Eastern Region organised by the DSA Centre for Regional Economic Studies, Department of Economics, JU. India.

4. "Elasticity Estimates as Policy Guide with Special Reference to the Energy Policy of the Government of India" (with D. Chakraborty) 1990.
  - Presented in the 12th Annual International conference of the IAEE on Energy-Environment - Development organized by Tata Energy Research Institute, India
5. "Interfuel Substitution in Domestic Sector - with special reference to non Commercial Energy Consumption in India (with Dr. T.K. Das and Ishita Sen) 1990.
  - Presented in the 13th Annual International conference of the IAEE held at Copenhagen, Denmark.
6. "New Technological Options in Energy Sector - cost burden on rural households?" (with Dr. T.K. Das and Dr. D. Chakraborty) 1990.
  - Presented in the National Solar Energy Convention - 1990 of the SESI organised by the School of Energy Studies, Jadavpur University, India.
  - A revised version - of (i) presented in the 28th Annual conference of the Econometric society of India, held at the North Bengal University in December, 1991, India.
7. "Energy Policy in India - An Overview." with D. Chakraborty, 1991.
  - Presented in the National Seminar on Energy Crisis organized by the School of International Relations and Strategic Studies - Jadavpur University, India.
8. "Population Growth, Energy utilization Pattern and Environmental Degradation - a Micro Study." (jointly with S. Banerjee T. Das, D. Chakraborty), 1992.
  - Accepted in the 16th Annual Conference of IASP held at Bhubaneswar, India.
9. "Public Sector - A Leaning Tower", 1993 (Invited Lecture) Annual Seminar of the Institute of Chartered Accountants of India, Regional Council, Asansol Branch, India.
10. "Allen or Morishima Elasticities? Some Empirical Evidence from Indian Manufacturing Sector." 1993.
  - Presented in the 29th Annual Conference of the Econometric Society of India, held at IIT Kanpur, India.
11. "Decentralised Supplementary Power Generators in Calcutta and the Related Environmental Issues." 1993.
  - Presented in the 13th Annual Conference of the Bangiya Arthaniti Parisad, held at Bidhannagar College, Calcutta, India.
12. "Oil Demand Elasticities in India", (with Indrani Ganguly) 1994.
  - Presented in the 30th Annual Conference of the Econometric Society of India at Mysore University, India.

13. "Interfuel Substitution during Post Oil Embargo Period - A Case Study of two Energy Intensive Manufacturing Industries in India, 1994. (With Sarbari Sarkar).
  - Presented in the 30th Annual Conference of the Econometric Society of India at Mysore University. India.
  
14. "Oil based Backup power Generation in Calcutta Metropolitan Agglomeration - A Techno Economic Study with Special emphasis on Environmental Links and Scope for renewables", 1995.
  - Accepted for presentation in the International Conference of Energy and Environment held at Shanghai, China.
  
15. "Efficiency in Energy use by Urban Households in India: An Analysis Using Urban Households Survey Data". 1995.
  - Accepted for presentation in the 18th IAEE International Conference, held at Washington, DC. USA.
  - Presented in the Workshop on Urban Economy and Environment at the Centre for Urban Studies, University of Calcutta, Calcutta. India.
  
16. "New Renewable Energy Technologies in Rural West Bengal - an Evaluation.", 1996.
  - Presented in the 32nd Annual Conference of the Indian Econometric Society of India, Bangalore, ISI, India.
  
17. "Logit Analysis of Private Demand for elementary Education in India - A case study using Household Survey Data." 1996.
  - Presented in the 32nd Annual Conference of the Indian Econometric society of India, Bangalore, ISI, India.
  
18. "Evaluation of Solar lantern Programme through CBA and CVM",
  - Presented in the National Solar Energy Convention of SESI held in Dec. 1996 at the School of Energy Studies, Jadavpur University, Calcutta, India.
  
19. "New Energy New Markets-Renewable technology in rural India"
  - Presented at the International IAEE Conference held at Quebec 14-16May 1998. India.
  
20. i)Qualitative Input output Analysis of the Indian economic Structure  
 ii) Energy and Infrastructure Needs in India
  - Presented in the Twelfth International Conference on Input-Output Techniques held in New York University 18--22 May 1998. USA
  
21. "Technical Change in India's Energy intensive Industries".
  - Presented at The USAEE conference held in October 1998 at Albuquerque. USA.

22. "Productivity Trend in Indian Manufacturing Industries"

- Presented at the Pacific Northwest National Laboratory, Washington DC, USA, 1998.

23. "Some Empirical Support for IA modeling in India".

- Presented in the Workshop on integrated assessment modeling, Indian Institute of Management, Ahmedabad. India, february, 1999.

24. "Energy consumption and Carbon Emissions: case of Indian Manufacturing industries".

- Presented in the IEA, Paris-India Joint Workshop on Data Requirements for Energy Policy. Statistics, Modelling and indicators of Energy Use. New Delhi, 13-14 may, 1999.

25. "Manufacturing Energy Use in India: A decomposition Analysis".

- Presented at :
  - (i) The 36<sup>th</sup> Annual Conference of the Indian Econometric Society, held in 4-6 February, 2000, at the School of Future Studies and Planning , Devi Ahalya University, Indore.
  - (ii) The National Conference on Economic and Statistical Issues in Development, March, 2000. Kalyani University. West Bengal.

26. "Technical Change : Pattern and Biases in Energy Intensive Manufacturing Industries in India"

- Submitted to the 36<sup>th</sup> Annual Conference of the Indian Econometric Society, held in 4-6 February, 2000, at the School of Future Studies and planning, Devi Ahalya University, Indore.

27. "Economic and Statistical Issues in Climate Change Policies"

- Invited Lecture at the National Conference on Economic and statistical Issues in Development, March, 2000. Kalyani University. West Bengal

28. "Balance in an Economic Structure: Concept and Evidence".

- Presented at the 13<sup>th</sup> International Conference on Input-Output Techniques, Macerata, Italy, August 21-25, 2000.

29. "Pattern of Fuel Input Use and Technical Change in India's Energy Intensive Industries".

- Presented at the 2<sup>nd</sup> International Conference on Environment and Development at Beijer Institute, Stockholm. September 6-8, 2000.

30. "Baseline Estimates and Prospect for CDM in Indian Power Sector".

- Presented at the Sixth conference of the Parties, of the UNFCCC held at The Hague, The Netherlands November 12-16, 2000.

31. (a) "Productivity Trends and Technological Change in Energy Intensive Industries in Brazil, India and South Korea".

(b) "Carbon Dioxide Emissions from Energy Intensive Manufacturing Industries in India".

(c) "Socio Economic Evaluation and Sustainability of Gasifier Plant- Case of an Island village in India"

- Accepted for presentation at the First Regional Conference on Energy towards a Clean Environment. To be held at Bangkok, Thailand, during December 1-2, 2000.

32. (a) "Patterns of Fuel Input Use and Technological Change in India's Energy-Intensive Industries",

(b) "Productivity Trends and Technological change in Energy Intensive Industries in Brazil, India and South Korea"

- 24<sup>th</sup> IAEE International Conference, , 2001: An Energy Odyssey, held in Houston, USA.

33. "Projecting Carbon Abatement Costs in Developing Countries: Impact of Country specific substitution Elasticities".

- A joint meeting of the Energy Modeling Forum, International Energy Agency and the International Energy Workshop at IIASA, Laxenburg, Austria 19-21 June 2001. (Jointly with Jayant Sathaye, Katja Schumacher, Alan Sanstad, Marita Laukkanen, Yurie Tanimichi and Ronald Sands)

34. "Rebound effect: some evidence from India"

- Presented at the Environmental Informatics held at Zurich during November 12-16, 2001, Switzerland.

35. "CDM Institutions : Perspective from Host country"

- Presented at the KEEN workshop on From Rhetoric to Reality held at Amsterdam during December 6-8, 2001 the Netherlands.

36. "Carbon emissions Scenario for India"

- Presented at the Training workshop on Climate Change: Vulnerability Assessment and Adaptation Strategy, held at the Jadavpur University during December 17-19, 2001.

37. "Demand for Water Quality in arsenic Prone areas of West Bengal"

- Presented at the Research workshop of SANDEE held during February 7-15, 2002 at Bangkok, Thailand.

38. "Status of energy balance data for Indian Industries",

- Presented at Workshop on Energy Balance for Indian Industries, IEA, Paris, held at Neemrana -fort palace, during April 18-19 2002.

39. "Modeling Sundarban Ecosystem for Ecological and Economic Value",

- Presented at the National seminar of Sundarban Ecology held at School of Oceanographic Studies by Jadavpur university.

40. "Projecting Carbon Emissions and Abatement Costs in Developing Countries: Impact of Country-specific Substitution Elasticities"

- Presented at the 14<sup>th</sup> International Conference of the Input Output Conference at Montreal in October 2002.

**Table of travel shows beyond 2002 the conferences participated as chair/paper presenter/session organizer.**

**RESEARCH GUIDANCE (As Single supervisor, if with co-supervisor mentioned in bracket below)**

**M. Phil *Dissertation* (completed)**

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.

**Ph.D. Thesis - (completed)**

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)
6. Analysis of Oil Demand in India (by Indrani Ganguly)
7. Pollution from Paper Industry in India (by Sebak Jana) [Joint supervision]
8. Sustainability, Water Use, Economic Incentives: Case of Greater Calcutta. (Monojit Ghosh)
9. Small and Medium Enterprises in India: An Analysis of Funding risks, risk mitigation and sustainable development. (Duke Ghosh) [joint Supervision]
10. Extreme Climatic Events: An Analysis of Socio Economic Vulnerability and Coping Mechanism in Selected Hotspots in India (Anupa Ghosh) [joint supervision]
11. Accounting for Air and Water Resources: Case Study of West Bengal (Maniparna Shyam Roy)
12. Economic Analysis of Arsenic In water : Case of West Bengal (Abhijit Das)



13. Performance Evaluation of the Indian Industries and Environmental Management Practices (Debrupa Chakraborty)

14. Impact of Green House Gas Emissions on Indian Economy – A SAM Based CGE Modelling Approach (Barun Deb Pal) [Joint Supervision].

*in Progress*

1. Shanmik Pal
2. Shyamasree Dasgupta
3. Debalina Chakraborty

## WORK/PROJECT UNDERTAKEN THAT BEST ILLUSTRATES CAPABILITY TO HANDLE VARIOUS TASKS:

- **Coastal Eco system and changing economic activity: Challenges for sustainability Transition along Chinese and South Asian Coast** : four Country Project, Project Leader , Funded by APN.
- **Role of Experiments in Sustainability Transition in India** : A multi country project , Project Leader , Funded by APN.
- **Vulnerability of Home Garden eco-Systems to Climate Change and Its Impacts on Food security in South Asia**, A three country project partner and PI . Project Funded by Asian Pacific Network (APN).
- **Experimenting for Sustainability in India and Thailand: A Transition Perspective on Sustainable Electricity and Mobility Initiatives**, A multi country project funded by Dutch NWO.
- **Fiscal Instruments for Low Carbon Growth in West Bengal** as PI and chief technical consultant In collaboration with CII, Eunomea Consulting and funded by British High Commission.
- **Business Model to Promote Energy Efficiency: Use of Electrical Appliances in Domestic Sector in West Bengal: A Baseline Study**, Funded by USAID under Energy Conservation and Commercialization Project, Phase III (ECO III),
- **Global Energy Assessment**, IIASA Vienna. **Lead Author** of chapter on Lifestyle, Human well being and Energy Consumption.
- **Developing a Roadmap for Climate Change and Health in India based on the Principles of Partner Driven Cooperation**, Funded by Swedish Embassy , New Delhi.
- **Principal Investigator , Energy Scenario Assessment** , LBNL, California , USA
- **Principal Investigator :Integrated Model to assess Climate impact on Health in India**, MOEF, NATCOM, GOI
- **Principal Investigator Climate Vulnerability** : Case of West Bengal , WBPCB , GoWB
- **Trade and Climate Change**: Case of Small Developing countries Sponsored by ICTSD, Geneva.
- **Principal Investigator of the Willingness to Pay Study** funded by Kolkata Municipal Corporation. 2007. Duration One year.
- **Principal Investigator** of on “CGE Modelling for Indian Economy for Climate Policy Analysis” funded by Ministry of Environment and Forest, govt. of India for three years starting from 2006. Duration three years. .
- **Team leader** of the assignment fro preparation of a document on ‘**The economics of climate change: understanding the potential impact of climate change on South Asia** with a particular focus on India’ . 2006. sponsored by British High commission under the scope of Stern Review. [www.sternreview.org.uk](http://www.sternreview.org.uk)

- **Nodal Person of the Environmental Economics Programme**, under the World Bank aided India Environmental Economics Capacity Building Programme-Implemented by the Ministry of Environment and Forest, for the second group of institution, at Jadavpur University, Department of Economics, 1998-2003.

*Responsibility has been to build up institutional and human capacity in the region among the college and university teachers, students, policy makers, government officials and executives to teach and undertake research in the field of environmental economics.*

- **Mentor for the research project on Estimating Health costs of air pollution** in the city of Kolkata and Delhi sponsored by START. 2004- ongoing

*Responsibility is to mentor the PI who is an young researchers who has located her work under the Global Change programme. The work involves methodology development, to field survey, data analysis, and derivation of policy implication.*

- **Programme coordinator for the Training Workshop on Climate Change: Impact and Vulnerability Assessment and Adaptation Strategy Under the NATCOM Project of Ministry of Environment and Forests, Government of India, December 2001.**

*Responsibility was to build up awareness and research capability among the young researchers to supplement the efforts by the government to communicate India's strategy in climate change issues.*

- **Principal Investigator of the Research Project on Socio Economic Modelling and Analysis for South Asian Water Resources and Mountain Project** sponsored by Asia-Pacific Network. 2002-2004.

*Responsibility has been to develop methodology, conduct field survey and conduct analysis network with other institutions and countries towards preparation of the country report and synthesis report.*

- **Co-investigator of the Research Project on Changing Atmosphere, Biosphere, Geosphere and Socio-Economic Activities in Sundarban Delta** sponsored by CSIR, 2003-ongoing.

*As an economist in the team of multidisciplinary research group task is to develop the sustainability indicators along with the physical measurements of emissions.*

- **Chief Co-investigator** of the Research Project on Assessing Environmental Management Options to Achieve Sustainability in Shrimp-Mangrove Systems in the Indian Coastal Zone of the Bay of Bengal, sponsored by Indo-Shastri Canadian Institute (SHARP), 2003-continuing.

*Responsibility varies from administrative to academic research input on empirical modeling and coordinating various groups involved from other universities.*

**As Principal Investigator of the following completed Research projects** the responsibility has been varied: development of methodology, data collection, and compilation, estimation of econometric models and derivation of policy implications. All the works culminated in published papers. All the projects involved team of researchers so coordination of the project team has been a major responsibility.

- Climate Change Policies: Implications for Indian Industries: sponsored by Future Resources Inc. Berkeley, USA, 2000-2002
- Demand for Water in Greater Calcutta, Sponsored by the DSA center for Regional Economic Studies, Jadavpur University, Kolkata, 2002.
- An Analysis of Demand for Water Quality in Arsenic Prone Areas of West Bengal, SANDEE sponsored. 2002-2004.
- Energy Indicator Analysis for India, sponsored by OECD/IEA, Paris. 2000.
- Empirical Support for Integrated Assessment Modellers for Developing Economies: at the Environmental Technology Division, Lawrence Berkeley National Laboratory, Berkeley, California, USA, 1999.
- Socio-Economic Evaluation of the Gosaba Gasifier Plant, Sponsored and Report Submitted to West Bengal Renewable Energy Development Agency, 2000
- Environmental Concerns in India- An analysis through abatement cost estimation sponsored by and report submitted to the DSA Centre for Regional Economic Studies, Jadavpur University, Kolkata, India, 1999.

- Decentralised Power Generation- An Analysis of Cost and Scope for Renewables” sponsored by and submitted to the DSA Centre for Regional Economic Studies, Department of Economics, Jadavpur University, Kolkata, India, 1996.
- Solar Lanterns and Other New Technologies in Rural Areas- An Evaluation of Performance, market and Entrepreneurial Potential”, submitted to and sponsored by West Bengal Renewable Energy Development Agency, Government of West Bengal, India, 1995.

**As Co- Investigator of the following completed Research projects** the responsibility has been varied: to help in development of methodology, data collection, compilation, estimation of econometric models and derivation of policy implications. All the works culminated in published papers. All the projects involved team of researchers so coronation of the project team has been a major responsibility.

- Cost Benefit Analysis of the Solar heating Systems in Khardah Jute Mill and Solar Cookers under Operation in Different Parts of Kolkata submitted to and sponsored by west Bengal Renewable energy Development Agency, Government of West Bengal, Through school of Energy Studies, Jadavpur University, India, 1994.
- Compilation and Analysis of District Level data for the state of West Bengal, relating to Health, Education and Inequality and Poverty- submitted to and sponsored by The National Council of Applied Economic Research, New Delhi, India, May 1993.
- Cost Competitiveness of t he Supplementary Power Generating System in Kolkata city, sponsored by and submitted to the DSA Centre for Regional Studies, Department of Economics, Jadavpur University, India, 1992.
- Integrated Rural Energy Programme, Survey Report and Action Plan frame for Gorubathan Block, West Bengal, India, 1992. sponsored by State level IREP Cell, Department of Development Planning, Government of West Bengal.

**Other skills:**

- Proficient in writing computer programmes in FORTRAN, BASIC and C . Can handle a large number of Application packages and Econometric packages