



**Anandajit Goswami**

*Former Fellow, Green Growth and Resource Efficiency Division, TERI,  
Former Associate Faculty, Department of Policy Studies, TERI University,  
Former ITEC Coordinator, TERI  
Former TERI – UNIDO SELP Programme Coordinator,  
Former TERI Africa Coordinator  
Former TERI – UNECA Technical Expert*

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**Current Work Areas:**

**Economist -**

Working as an economist in areas of socioeconomic modelling and scenario building, integrated CGE modelling for understanding policy relevant issues, risk modelling, climate policy, biofuel pricing and energy policy, resource security, trade and sustainable development, trade in biofuels, commodity trade, trade and governance issues, econometric modelling on trade issues and general equilibrium modelling to analyse aspects of resource security, green growth and development, tax and subsidies on petroleum products. Working on the interface of children science fiction and sustainability science.

**2004 - Till date**

Worked as a **co-coordinator, TERI - AFRICA** in facilitating the **South South Cooperation initiatives of TERI.**

**2008 – till May 2013**

Worked as a **technical expert with United Nations Economic Commission for Africa.**

**2009 - 2010**

**ACADEMIC QUALIFICATIONS:**

**Masters in Economics (with specialization in World Economy)**

<ul style="list-style-type: none"> <li>Core papers: Microeconomics, Macro Economics, Balance of Payments, Mathematical Methods in Economics, Developmental Economics, Basic Trade Theories, Basic Statistics and Econometrics.</li> </ul>	Centre for International Trade and Development, Jawaharlal Nehru University (JNU), Delhi	<b>65.55%</b>
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<ul style="list-style-type: none"> <li>Optional papers: International Trade &amp; Advanced Trade Theory, Investment Finance, Technology Transfer, Labour Economics.</li> </ul>	<b>July 2002 – May 2004</b>	
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### **Bachelor of Arts**

<p>Economics (Honours) with Mathematics &amp; Statistics as complementary subjects</p> <ul style="list-style-type: none"> <li>Core papers: Microeconomics, Macro Economics, Basic Statistics, Mathematical Methods in Economics, Developmental Economics, Basic Trade Theories, Indian Economy, Indian Planning.</li> </ul>	<p>South City College, Kolkata</p> <p><b>August 1999 – June 2002</b></p>	<p><b>55.9%</b></p>
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### **PROFESSIONAL EXPERIENCE:**

<b>Project Consultant</b>	
<p><b>Assessment of SDG 7 Interlinkages with other SDGs and capacity building needs</b></p>	<p><b>Supported by TERI University</b></p> <p>Has been engaged in the research and formation of two discussion papers dealing with SDG 7 interlinkages in various countries and the capacity building gaps that need to be addressed in countries for addressing these interlinkages. The discussion paper is being prepared for UNDESA High Level Political Forum on SDGs.</p>
<p><b>Assessment of import duties on palm oil on sustainability</b></p>	<p><b>Supported by WWF India</b></p> <p>Has been engaged in understanding the impact of import duties on palm oil on social, economic and environmental domains of sustainability in the Indian context by means of a simulation model. Created a simulation toolbox to understand the impact of import duties on palm oil on different domains of sustainability.</p>
<p><b>Evaluation of Renewable Energy and Energy Efficiency Projects in India</b></p>	<p><b>Supported by National Institute of Labour Economics, Research and Development, NITI Aayog</b></p> <p>Has been engaged in the post loan impact evaluation of renewable energy projects of IREDA and energy efficiency projects of SIDBI</p>

<b>Project Leader</b>	
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<p><b>Assessment of tax, subsidies on petroleum products in India</b></p>	<p><b>Supported by Asian Development Bank</b></p> <p>Has been engaged in understanding the impact of rationalization of taxes, subsidies on select petroleum products of India through an integrated MARKAL model. Outputs of the model has been integrated with SAM and CGE structures.</p>
<p><b>A technoeconomic integrated model for understanding green technological interventions</b></p>	<p><b>Supported by Global Green Growth Institute</b></p> <p>Has been engaged in understanding the impacts of green technological interventions across various sectors of the Indian economy on macro and socio economic indicators at a national and downscaled state specific level. The project entails such an understanding through an integrated MARKAL – CGE – Biophysical Model.</p>
<p><b>Rationalization of fossil fuel subsidies in India</b></p>	<p><b>Supported by Department for International Development (DFID)</b></p> <p>Engaged in understanding the impact of rationalization of fossil fuel subsidies on the Indian macroeconomy through a Computable General Equilibrium Model.</p>
<p><b>Emerging Markets and linkages with Sustainability, Security of Natural Resource – the case of Copper</b></p>	<p><b>TERI FUNDED INTERNAL PROJECT</b></p> <p>Conceptualized and implemented the research with the research team of the project. The study framed a computable general equilibrium (CGE) model of the macro economy highlighting the impact of policy variables on sectoral demand supply and on resource security of copper. The model incorporated the primary, secondary and tertiary sectors of the economy in order to frame the CGE model. The research objective was accomplished by including the sectors and sub-sectors of the Indian economy that uses copper. In order to address the research objective the flow (in monetary term) of copper and its intermediary and different products across the sectors were incorporated in the model. Impact of changes in any variable (like import duty, export tax, consumption tax etc.) on the all the sectors (using copper directly or indirectly) were analysed and was linked with the resource security of copper.</p>

	<b>2008 - 2009</b>
<b>Co Project Leader</b>	
<b>Impact of Trade Liberalization on Horticulture Trade</b>	<p><b>Supported by SANEI (South Asian Network of Economic Institutes)</b></p> <p>Worked on a vector error correction modeling of horticulture products to analyse the short term and long term price elasticity of various horticulture products that are exported from India to E.U and U.S.</p>
	<b>2008 - 2009</b>
<b>Indian Sugar Industry - Unpredictable Risks and Risk Mitigation Alternatives</b>	<p><b>Supported by NCDEX Institute of Commodity Research</b></p> <p>The objectives of this project were: (1) to carry out an analysis of price trend in sugar across states in India; (2) to analyze the systematic and unsystematic risk in sugar prices in India linking it with the global context; (4) to analyse the risks which are unpredictable (unsystematic risk) in sugar industry followed by an analysis of the trend movement in such risks in India and in global context; (5) to analyse the factors behind such unsystematic risks in case of sugarcane in India; (6) to explore what are the policy linkages between the unsystematic risks and the existing policies in the sugarcane sector of India; (7) to analyse what are the stakeholders concerns regarding these risks in India; (8) to analyse how these risks are going to be impacted in the backdrop of a mandatory 5% molasses based ethanol blending (and other percentage of blending like less than 5% or more than 5%) in India from April 2008 onwards.</p>
	<b>2008 - 2009</b>
<b>Research Team Member</b>	
<b>Measurement of energy risks</b>	<p><b>Supported by Atomic Energy Commission:</b></p> <p>Engaged in measurement of accident risks in the value chain of oil and coal sector within India.</p>
<b>Peak Load Demand Forecasting</b>	<p><b>Supported by CESC:</b></p> <p>Involved in short and long term peak load demand forecasting using ARIMA modelling.</p>

	<b>2010 - 2011</b>
<b>National Mission on Bio-fuels and Pricing of Bio-fuels</b>	<p><b>Supported by Ministry of Rural Development</b></p> <p>Worked in assessing the potential of Bio-Fuel production in India. Created a financial model for assessing the 'long run marginal cost' based price of Bio-Diesel from the plant Jatropha. Recommended to government some economic instruments to promote production of this alternative fuel in India. A framework of generating financial resources was also made.</p>
	<b>2004 - 2005</b>
<b>Bio-Fuels Study for British Petrochemicals</b>	<p><b>Supported by British Petrochemicals</b></p> <p>Created a business model supported by economic principles justifying the area selected for the bio fuel project. The business model creation was followed by a financial modeling to come up with a cost of Bio-Diesel production in the pilot area in the framework of the defined business model.</p>
	<b>2004 - 2005</b>

## **PUBLICATIONS:**

### **BOOK:**

Goswami, A. (2017): Fuel Pricing in India, TERI Press, Hardback, pgs 150, New Delhi, ISBN: 9788179936603

Goswami, A., & Mishra, A. (2016). Economic Modeling, Analysis, and Policy for Sustainability (pp. 1-323). Hershey, PA: IGI Global. doi:10.4018/978-1-5225-0094-0

Goswami, A. (2016), "Lucy and The Train: Tryst with Sustainability", TERI Press, New Delhi, **ISBN-13:** 978-8179936412

Goswami, A., & Ghosh, N. (2014), Sustainability Science for Social, Economic and Environmental Development: IGI – Global, Pennsylvania, DOI: 10.4018/978-1-4666-4995-8, ISBN13: 9781466649958, ISBN10: 146664995X, EISBN13: 9781466649965

**PEER REVIEWED:**

Goswami, A., A. Kumar, K. Bandopadhyay (2017), Exploring the nature of rural energy transition in India: insights from case studies of eight villages in Bihar, International Journal of Energy Sector Management (Forthcoming)

Coordinating Lead Authors – Dhakar, S., L. Srivastava, B. Sharma (2017)  
Lead Authors - Goswami, A., B. Mainali, D. Palit, G. Mohamad Malikyar, K.B. Wakhley, P. Purohit, R. Nepal (2017), Meeting Future Energy Needs in the HKH, Chapter 7, Hindu Kush Himalayan Monitoring and Assessment Programme (HIMAP) (Forthcoming)

Goswami, A., M.P. Ram Mohan (2015), An exploratory analysis of occupational accidents and risks from nuclear reactors in India, Safety Science 78 (2015), pgs - 155–162

Srivastava, L. A. Goswami, S. Chaudhury, G. Diljun (2012), Revelations from energy consumption patterns in Rural India, Energy Policy, Volume 47, Supplement 1, Pages 11-20

Nanda, N. S. Bhattacharjya, A. Goswami, S. Chaudhury (2011), The role of cooperation in regional economic integration, South Asian Journal, Volume 34 (October – December 2011), Pgs 38 – 49

Nanda, N., A. Goswami, S. Chaudhury ( May – June 2011), Trade and Sustainable Development, What does the global discourse say?, Focus WTO, pgs 1- 7

Goswami, A. S. Chaudhury (2011) , Role of copper recycling in hedging price risks, Vol. 5 Issue 2, pgs 109 – 117

Pohit, S, P. Biswas,, R. Kumar, A. Goswami, Pricing Model for Biodiesel Feedstock: A Case Study of Chhattisgarh in India, Energy Policy, Vol - 38, Issue-11 , Pgs 7487 - 7496, November 2010

Goswami, A. (2009). Distortions to Agricultural Incentives in Asia. Edited by K. Anderson and W. Martin. Washington, DC: The World Bank (2009), pp. 573, US\$39.95 (paperback). ISBN 13: 978-0-8213-7662-1., Experimental Agriculture, Volume 46, Issue 0, pgs 118 - 118

Nanda, N A. Goswami (2008), Energy Cooperation in South Asia: Prospects and Challenges, "Man and Development" Volume XXX, No.1

Goswami, A. (2007), "Impact of Agricultural Subsidies on poor of developing countries: The Two Sides of the Debate", View Points, Natural Resources Forum, Vol- 31, Issue - 4

Goswami, A. (2007), Chaining Biodiversity and Neologism Livability: Resources Energy and Development (READ), Volume 4, Issue 1, 2007, Pg 89 - 96

Chakraborty, P , A. Goswami (2005): "Inequality and Growth: A study of the Indian Economy", Economic Journal of Development Issues , Vol - 6, Issue No. 1, 2005, Pgs 1 - 19

Kumar, L., NV, P. Dhavala, A. Goswami and S. Maitheel (2004), Liquid Bio - Fuels in South Asia: Resources and Technologies, Asian Bio - Technology and Development Review, Vol - 8, No.2, pp 31 - 50

### **CHAPTERS IN EDITED BOOKS**

Goswami, A., Wright, T. (2013), South South Cooperation and Knowledge Exchanges, TERI Press, available at - <http://bookstore.teriin.org/docs/books/SouthSouthCooperation.pdf>

Goswami, A., N. Nanda (2010), "Role of market microstructure in Climate Futures Trading", Commodity Derivative Markets, Opportunities and Challenges, Edited by Madhoo Pavaskar, Takshashila Academia of Economic Research, ISBN 978-81-908109-3-7, Mumbai

Srivastava L, A. Goswami and G. Sarangi (2008). "Possible empirical ways of analyzing impact of regulation across different sectors in India": in "Regulatory Performance in India, achievements, constraints and future action" Edited by S K Sarkar, Veena Aggarwal, Sumit Malik, Ruchika Chawla, TERI PRESS, NEW DELHI, ISBN 81 - 7993- 129- 3, 2008

Goswami, A, P. Chakraborty, (2007) , Inequality in Indian Economy, Development Studies, Edited by Dr. Prasenjit Maiti, Atlantis Publishers and Distributors (P) Ltd. 2007, Volume 2, ISBN - 81- 269- 0793-29788126907939, Rs.550

### **MAGAZINE/NEWSLETTER/OTHER ARTICLES/BLOGS/POPULAR BOOKS**

[Personal Blogs available at - geekonomistdiary.blogspot.com](http://geekonomistdiary.blogspot.com)

Can green growth interventions contribute to India's national policy vision?, Kedia, S., P. Agarwal, A. Goswami, A. Radhakrishnan, Green Growth Knowledge Platform, <http://www.greengrowthknowledge.org/blog>

Love, sustainability and the South Asia energy deal, <http://www.thepoliticalindian.com/saarc-energy-deal/>, The Political Indian, December, 2014

The Biofuels Equation, Management Thinking Blog, <http://www.management-thinking.org/content/biofuels-equation>, The Economist Group

Goswami, A., Energetica, India (2011) "TRADE IN ENERGY AND ENVIRONMENTAL GOODS AND SERVICES: WHERE ARE WE HEADING?" <http://www.energetica-india.net/magazine/view/november-december-2011/#/60/>

Kedia, S., S. Kapur, A.Goswami (2011), NREGS and Agriculture:Manifestations and Opportunities, Agriculture Today, pgs. 51 – 53

Bhattacharjya, S, S.Chaudhury, A. Goswami, S Pohit (2010) , Environmental and Employment impact of resource use in India: A case study of copper, Proceedings of GTAP Conference organized by Purdue University, Malaysia, [https://www.gtap.agecon.purdue.edu/resources/res\\_display.asp?RecordID=3268](https://www.gtap.agecon.purdue.edu/resources/res_display.asp?RecordID=3268)

Nanda, N. , A.Goswami, S.Chaudhury (2011), "Trade and Sustainable Development: What Does the Global Discourse Say?", Focus WTO, Vol. 13, Issue 1, Pp. 1-7

Goswami A. and S. Chaudhur (2011), "Trade in Energy and Environmental Services: Various Facets", GALT Update, Vol. 5, Issue 2, Pp. 3-7

Goswami, A., and S, Chaudhury (2009), Commodity Trade in Services and Sustainable Development: Looking Through a New Lens, Vision I Volume 2 I Issue 3 I

Goswami, A and N, Kala (2009). Financial Downswing: Melting Down on Sustainable Development, Commodity Vision I Volume 2 I Issue 3 I

Goswami, A. (2008), FDI in Africa: different perspectives, Book Review of Africa Foreign Investor Survey 2005, Understanding the contributions of different investor categories to development implications for targeting strategies UNIDO (United Nations Industrial Development Organization) Publication,Vienna 2007, 2nd Edition , ISBN: 92-1-106442-2, GALT UPDATE, Volume 3, Issue 1

Goswami, A (2008), "AN OVERVIEW OF BIODIESEL TRANSESTERIFICATION, TECHNOLOGY IN INDIA", Regional Forum on Bioenergy Sector Development:Challenges, Opportunities, and the Way Forward, <http://cn24014.chinaw3.com/publication/bioenergy.pdf> last accessed on May 21, 2009

Nanda N, A., Goswami and S.,Chaudhury (2009), Export Potentials of Indian Horticultural Products, in the US and EU <http://www.saneinetwork.net/research/sanei9/Study%204/Abstract.pdf> last accessed on 22nd December, 2008

Goswami, A (2008), Shaping a compensation package, Conflict over resources., Hindu Business Line, <http://www.blonnet.com/2008/11/12/stories/2008111250840900.htm>,



Gupta E and A, Goswami (2008), Assessing relative oil vulnerability of oil importing countries: The Energy and Resources Institute, "Geopolitics of Energy Newsletter", Vol 30, Issue 2,

Goswami, A. (2008), Sustainable Development and the Economic Crisis: TERRA GREEN, Pg 8 – 9, Volume – 1, Issues – 8, November 2008

Goswami, A., S, Sarma (2008), Nanotechnology and Copper Trade – Is it dialectical? , Commodity Vision, Volume – 1, Issue – 2, pp 11- 14

Goswami, A. (2007), Greening Leather Trade: GALT UPDATE, Volume 1, Issue 2, Book Review of "TRADE and ENVIRONMENT: A Study of India's Leather Exports" Prof. U. Sankar. Published by Oxford University Press (2006), New Delhi. ISBN – 019568395 – 1 9780195683950 Pgs – 1 – 299 Price – Rs. 625

Goswami, A. (2007), Visualizing India: Larger Market Role, Reduced Government Interventions" – Is it a misnomer?, India Economy Review, Volume – 4, Quarterly Issue

Mukherjee, S, A, Goswami (2007). "An approach to addressing the sharing of costs and benefits in energy-trading networks ", "Energy Security Insights, Vol –2 , Issue 3

## **KEY PRESENTATIONS:**

Presentation in Kolkata International Book Fair (2017), "Lucy and The Train: Tryst with Sustainability" organized by TERI Press

Presentation at IIC (2017) – "Role of Children Science Fiction in Addressing Sustainability" organized by IIC

Presentation in Oxford Bookstore (2016)– "Lucy and The Train: Tryst with Sustainability" organized by TERI PRESS and Oxford Bookstore

Presentation on WIPRO Sustainability Summit (2016), "Rural Energy Transition in India", held at Bhubaneswar, Odisha

Presentation on World Management Conference (2015), " Economic growth and rural energy transition: Connecting the dots", held at IIM Indore

Presentation and talk titled – "A journey of trade theories" given on 11th April, 2012 in the Workshop on WTO Perspectives on Sustainable Development Issues, TRIPS; Climate Change; and Natural Resources, Graduate Students of the M.A. in Sustainable Development Practice

Presentation on "Economics of Sustainability" to the ministry, mid career professionals of ITEC/SCAAP countries of the world as a part of TERI ITEC programme supported by Ministry of External Affairs, Government of India

Presentation of the study on "Application of CGE Modelling to address Resource Security of Copper" supported by TERI to the Institute

Paper titled "An Overview of Biodiesel Transesterification Technology in India, Goswami A (2008)", presented at Regional Forum on Bioenergy Sector Development:Challenges, Opportunities, and the Way Forward (23-25 January 2008, Bangkok, Thailand, UNITED NATIONS - NATIONS UNIES ECONOMIC AND SOCIAL COMMISSION FOR ASIA AND THE PACIFIC ASIAN AND PACIFIC CENTRE FOR AGRICULTURAL ENGINEERING AND MACHINERY (UN-APCAEM),web publication at <http://cn24014.chinaw3.com/publication/bioenergy.pdf> last accessed on Jan 24 2009

Paper titled "Impact of trade in Tourism and Health Services in India from a developmental perspective": presented in UNCTAD International Conference on "Trade and Development", 2008, New Delhi

Proposal on "Study of impact of biofuel production on the risks of the sugar sector: Proposed study" presented in the National Conference on Commodity Risks organized by NCDEX Institute of Commodity Research

Presentation of the paper dealing with "Measurement of technical efficiency of firms in leather sector of India" in the seminar on National Environmental Policy organized by Jamia Milia University, 2007, New Delhi

"Nanotechnology, the Copper Industry, and Developing Countries – a review" paper presented in the "International Workshop on Nanotechnology, Commodities and Development", organized by IDRC, Meridian Institute, 29 – 31 May, 2007, Rio De Janeiro, Brazil

Paper titled "Optimal Regulatory Instruments for a self – polluting firm in the presence of water pollution" by "Goswami A., S. Bhattacharjya, N. Ghosh, presented in International Society for Ecological Economics Conference held on Dec 15 – 18 2006)

## **SESSIONS CHAIRED**

"Session II: Biogas and Biomass Development in Asia and the Pacific", Regional Forum on Bioenergy Sector Development:Challenges, Opportunities, and the Way Forward (23-25 January 2008, Bangkok, Thailand, UNITED NATIONS - NATIONS UNIES ECONOMIC AND SOCIAL COMMISSION FOR ASIA AND THE PACIFIC ASIAN AND PACIFIC CENTRE FOR AGRICULTURAL ENGINEERING AND MACHINERY (UN-APCAEM), <http://www.unapcaem.org/Activities%20Files/A0801/02Programme.pdf> last accessed May 20, 2009

## **SHORT VIDEO PRESENTATIONS FOR RESEARCH DISSEMINATION**

<https://www.youtube.com/watch?v=o-x1B3JIjyQ>

<https://www.youtube.com/watch?v=gYXvGvv3fIY>

<https://www.youtube.com/watch?v=SyaVkTdYUIg>

<https://www.youtube.com/watch?v=rJtkQIdKtiq>

#### **TRAINING PROGRAMME UNDERTAKEN:**

Offered Training programme on Basic Statistics, Basic Theories of Economics, Economics of Sustainability for TERI Professionals, Mid Career Professionals from India and from other countries, CGE Modelling and its application in Policy

#### **COMPUTER SKILLS:**

- General Packages: MS-Excel (expertise in statistical Data Analysis tools, charts etc.), MS – Excel Stat, MS-Word, MS - Power Point
- Econometric packages:
  - E-VIEWS (regression, panel regression, time series analysis, forecasting analysis etc)
  - STATA – 9 (PCA ANALYSIS)
  - DEA (Data Envelopment Analysis) Firm Efficiency Calculation
  - Optimization Modeling in GAMS
  - Economy Multiplier Calculations through input output modeling techniques
  - Input Output Based Matrix based Multiplier Modelling
  - GEMPACK Software based CGE Modelling
  - @RISK SOFTWARE Applications for Monte Carlo Simulations
  - Systems Dynamics applying Stella
  - GAMS for conducting CGE modelling
  - STELLA
- Multicriteria Analysis:
  - Analysis of project based multicriteria research problems with the use of Expert Choice Software

#### **AWARDS:**

- Awarded the Best Research Paper award by WIPRO in the WIPRO Sustainability Summit of 2016 held in Bhubaneswar, Odisha
- Awarded the certificate of excellence and participation in the World Management Conference in 2017 organized by IIM Indore for the paper presentation

- Awarded for Excellence in Research Team Building for implementing a project titled – “Sustainable Energy Leadership Programme” supported by UNIDO (2014)
- Roll of Honor in TERI (2009)
- Awarded the Ford Foundation Scholarship by the Centre for International Trade and Development, School of International Studies, JNU.
- Awarded a special certificate of specialization on “Industrial Finance Theory” from Centre from Social Studies and Science Calcutta after completion of dissertation and course lecture series by Prof. Sugata Marjit, Prof. Kaushik Basu, Prof. Subhasish Ganguly, Prof. Maitreesh Ghatak
- Awarded the Merit Scholarship by West Bengal Government in the West Bengal Board of Secondary Examination
- Awarded the –“The Talent Award” in South Point High School IntraSchool Talent Award (1997)

#### **EDITORIAL BOARD MEMBERSHIPS:**

Editorial Board Member of The Journal - World Economy Study, International Academic Publishing Inc. (USA)

#### **REVIEWER**

Climate Policy Journal

Energy Policy Journal

#### **MEMBERSHIPS:**

- MENA (Middle East North Africa) WATER FORUM
- INSEE (Life Member of Indian Society of Ecological Economics)
- ISEE (Life Member of International Society for Ecological Economics)
- Review Committee of Green Growth Knowledge Platform