

Prof. B. Sudhakara Reddy

1. General Information

- 1.1 Name: Sudhakara Reddy Basireddy
- 1.2 Present Position: Professor
- 1.3 Education: Ph.D. (Indian Institute of Science, Bangalore)
- 1.4 Fields of interest: Energy Conservation and Demand Side Management, Renewable Sources of Energy, Energy-environment Nexus, Urbanisation, Transportation, Environmental Economics, and Natural Resource Management.

2 Research History

2.1 Editorial Responsibilities

Guest Editor:

International Journal of Global Energy Issues, Inderscience Publications, Switzerland (Vol 9, Nos. 4-6, 1997 and Vol 10, No.6, 1998).

International Journal of Environment and Pollution, Inderscience Publications, Switzerland (Vol 9, Nos.2/3, 1998 and Vol 10, No.6, 1998)

Energy Sources, Taylor and Francis, U.K. (Vol 20, Nos.4-5, 1998).

Editor, *IGIDR Annual Report (1995-96)*.

Member, Editorial Committee:

International Journal of Sustainable Development, Switzerland.

Reviewer:

Energy Conversion and Management, Pergamon Press, USA.

Energy – The International Journal

2.2 Scientific and Professional Societies

Dean, Indira Gandhi Institute of Development Research, Mumbai.

Member, Maharashtra State Planning Board (Energy), Govt. of Maharashtra, Bombay.

Member, Organising Committee, International Symposium on Energy and Environment, Trabzon University, Trabzon, Turkey

Team Leader, Energy Efficiency and Demand Side Management Committee, Ministry of Power, Government of India, New Delhi.

POST-DOCTORAL FELLOWSHIP, ASIAN INSTITUTE OF TECHNOLOGY, BANGKOK, THAILAND, IN THE PROJECT "ASIAN REGIONAL RESEARCH PROGRAM IN ENERGY, ENVIRONMENT AND CLIMATE (ARRPEEC)", 1996.

3 SELECTED PUBLICATIONS

3.2 Books

- 1) Jyoti K. Parikh, Sudhakara Reddy B, and Banerjee R, 1994, *Planning for Demand Side Management in the Electricity Sector*, Tata McGraw-Hill Publishing House, New Delhi.
- 2) B. Sudhakara Reddy, 1998, *Urban Energy Systems*, Concept Publishing House, New Delhi.

3.3 Journal Publications

1. B.Sudhakara Reddy, Sustainable Energy Planning for India Revisited, Energy and Development (forthcoming)
2. B.Sudhakara Reddy, Urban Transportation Systems in India: A Tale of two cities”, *Energy for Sustainable Development*, Vol 4, No 1, 2000.
3. B.Suhakara Reddy, “The Prospects for Demand Side Management in India”, *Energy-The International Journal* (forthcoming)
4. B.Sudhakara Reddy and P.Balachandra, “Development of Efficient Network system for domestic lighting”, *Energy Economics* (forthcoming)
5. Barriers to the adoption of electricity efficient technologies (with R. M.Shrestha), *The International Journal of Energy research*, Vol. 22, 1998.
6. Energy efficient options: techno-economic potentials for mitigating GHG emissions, *International Journal of Environment and Pollution*, Vol. 9, 1998.
7. B.Sudhakara Reddy and Ram M.Shrestha, 1998, "Barriers to the adoption of electricity efficient technologies", *The International Journal of Energy research*, Vol. 22, pp. 257-270.
8. B.Sudhakara Reddy and Jyoti K.Parikh,1997, "Economic and Environmental Impacts of DSM programmes", *Energy Policy*, Vol. 25. No 3, pp 349-356.
9. B.Sudhakara Reddy, 1997, "The flow of energy in an Urban Society", *Energy Sources*, Vol. 19, No. 3, pp. 271-294.
10. B.Sudhakara Reddy, 1996, "Economic evaluation of Demand Side Management Programmes", *Energy- The International Journal*, Vol. 21, No. 6, pp. 473-482.
11. B.Sudhakara Reddy, 1996, "Modeling of competing technologies in the residential sector", *Energy Conversion and Management*, Vol. 37, No. 1, pp. 117-125.
12. Jyoti K.Parikh and B.Sudhakara Reddy, 1996, "Demand side management plan for industrial sector of Maharashtra", Compendium on "*Energy efficiency and Renewable Energy Policies and practices in developing Countries*", Washington.
13. P.V.Srinivasan and B.Sudhakara Reddy, 1996, “Electricity Demand Management through pricing Scope and Options”, *International Journal of Global Energy Issues*, Vol. 8, No. 5/6, pp. 453-468.
14. Jyoti K. Parikh, B.Sudhakara Reddy, Rangan Banerjee and S.Koundinya, 1996, "DSM Survey in India: Awareness, Barriers and Implementability", *Energy- The International Journal*, Vol. 21, No. 10, pp. 955-966.
15. B.Sudhakara Reddy, 1995, "A multilogit model for fuel shifts in the residential sector", *Energy- The International Journal*, Vol. 20, No.9, pp. 929-936.
16. B.SUDHAKARA REDDY, 1995, "ELECTRIC WATER-HEATER VS SOLAR WATER-HEATER: A CASE STUDY", *ENERGY CONVERSION AND MANAGEMENT*, VOL. 36, NO. 11, PP. 1097-1106.
17. B.Sudhakara Reddy, 1995, “Electricity Pricing and load management for Maharashtra”, *Energy Sources*, Vol. 17, No. 2, pp. 337-358.
18. R.Ramanathan and Sudhakara Reddy, 1995, “Conservation and deferral potentials of demand side management programmes”, *The International Journal of Energy Research*, Vol. 19, No. 5, pp. 493-505.
19. B.Sudhakara Reddy, 1995, “An econometric analysis of energy use in Urban Households”, *Energy Sources*, Vol. 17, No. 2, pp. 359-372.
20. B.Sudhakara Reddy, 1995, “The concept and evaluation of Demand Side Management”, *International Journal of Global Energy Issues*, Vol. 7, No. 1/2, pp. 48-55.
21. B.Sudhakara Reddy, 1995, “Appliance electricity consumption in the residential sector - An economic approach”, *Energy Sources*, Vol. 17, No. 2 pp. 179-193.
22. B.Sudhakara Reddy, 1995, “Consumer discount rates and energy carrier choices in urban households”, *The International Journal of Energy Research*, Vol. 20, No4, pp. 187-195.
23. J.P.Painuly and B.Sudhakara Reddy, 1995, "Barriers in Energy Conservation", *Energy Sources*, Vol. 18, No. 3.
23. Amulya Kumar N Reddy and B.Sudhakara Reddy, 1994, “Substitution of energy carriers for cooking in Bangalore”, *Energy - The International Journal*, Vol.19, No. 5, pp. 561-572.

24. B.Sudhakara Reddy, C.Dattatri and M.Siddhartha Bhatt, 1985, "Energy conservation in bath-water heaters", *Research and Industry*, Vol. 30, No. 1, pp. 9-12.
25. M.Siddhartha Bhatt, and B.Sudhakara Reddy, 1983, "Design of energy efficient solid fuel domestic stoves", Part II- Energy loss calculations, *Research and Industry*, Vol. 28, No. 1, pp. 9-12.
26. M.Siddhartha Bhatt, and B.Sudhakara Reddy, 1983, "Design of energy efficient solid fuel domestic stoves", Part III- Optimisation of parameters, *Research and Industry*, Vol. 28, No. 1, pp. 12-24.
27. B.Sudhakara Reddy, 1995, "Transportation, Energy and Environment: A case study of Bangalore", *Economic and Political Weekly*, Vol. XXX, No. 3. pp.161-170
28. R.Ramanathan and B.Sudhakara Reddy, 1998, "Efficiencies of Energy flow in Bangalore", *Energy Management*.

3.3. Conferences Proceedings

1. Energy Efficiency in the household sector, paper presented at the International Conference on Mechanical Engg., Bangladesh University of Engineering and Technology, Dhaka, Bangladesh, 26-29 December, 2001
2. Residential Energy Efficiency Programmes – Problems and Policies, paper presented at the International Conference on Operations Research and Development, 16th -18th May, 2001, Krug National Park, Johnsburg, South Africa.
3. Participation, Transparency and Accountability in IFIs, talk at Transcending Post-Seattle Angst - Premiere Conference, *January 8 - 9, 2001 Ottawa, Canada*
4. Strategies for the utilisation of natural gas in South Asia, delivered a lecture at the innagural session of the Third South Asia Geological Congress, Lahore, 23rd-26th September, 2000.
5. B.Sudhakara Reddy, 2000, Energy efficiency and environmental implications: the dimensions of social challenge, 27th Symposium of International Committee for the History of Technology, ICOHTEC 2000, August 22 - 26, 2000 , Czech Technical University, Prague
6. B.Sudhakara Reddy and Jyoti K.Parikh, 1996,"Economic and Environmental Impacts of DSM programmes", IFORS Conference, London, UK.
7. B.Sudhakara Reddy, 1995, The Prospects for DSM in India, 1995, International DSM Conference, Florida, USA.
8. Sdhakara Reddy, 1994, "Efficient Utilisation of Renewable Sources of Energy", Florence World Energy Research Symposium", July 6-8, Florence, Italy.
9. Sudhakara Reddy, 1993, Marketing Strategies for DSM, 5th DSM conference, Philadelphia, USA.
10. Jyoti K. Parikh, Rangan Banerjee, B.Sudhakara Reddy, and S.Balakrishnan, 1993, "Long-term perspective for DSM options for the high-tension industrial sector of Maharashtra", 6th DSM Conference, Sept 20-22, Switzerland.

a. Project Reports

- 1) B.Sudhakara Reddy, 2000, Barriers to the adoption of renewable energy technologies, prepared for the United Nations Env't. Programme, Denmark.
- 2) B.Sudhakara Reddy, 1997, "Barriers to the adoption of efficient electricity technologies, report prepared for School of Environment", Resources and Development, Asian Institute of Technology, Bangkok, Thailand.
- 3) B.Sudhakara Reddy, 1995, "Energy Efficient Options: Techno-Economic Potential for Mitigating Greenhouse Gas Emissions", prepared for Energy Management Centre, Ministry of Power, Government of India, New Delhi.

4. Training Programmes Conducted

1. **"FACULTY UPGRADATION PROGRAMME" FOR THE UNIVERSITY COLLEGE TEACHERS (AT THE POST GRADUATION LEVEL) IN THE AREA OF ENVIRONMENTAL ECONOMICS (OCT OBER 11 – NOVEMBER 5, 2000)**

2. **“Urban Environmental Management”** for the Officials of Urban Management Institutions.

5. Consultancy

United Nations Development Programme, New Delhi.

United Nations Environment Programme, RISO, Denmark

Ministry of Power, Government of India.

Maharashtra State Electricity Board, Mumbai.

Canadian International Development Agency

Swedish International Development Agency

United States Agency for Industrial Development

6. Projects directed and associated

Demand Side Management Planning, Maharashtra State Electricity Board and United States Agency for Industrial Development, New Delhi, India (completed).

Development of Socio_economic Accounting for Tree Growers Cooperative Societies, Canadian International Development Agency, Canada (completed).

Introduction of Environmental Economics into Decision-making, United Nations Environment Programme, New York (completed).

Environmental Management Capacity Building Technical Assistance Project, World Bank, Washington (ongoing)

Barriers to the Adoption of Renewable Technologies, United Nations Environment Programme, Denmark (completed).

Participatory Models of Development, Canadian International Development Agency (on going).