

Bio-sketch

Dr. Shobhakar Dhakal is one of the two Executive Directors of the Global Carbon Project, an international scientific programme under the sponsorship of Earth System Science Partnership (ESSP, www.essp.org) which is hosted by CSIRO Canberra (Australia) and NIES Tsukuba (Japan). The Global Carbon Project is dedicated to the better understanding of carbon cycle science and its management. Dr. Dhakal is leading the Project's flagship activity titled urban and regional carbon management (www.gcp-urcm.org) and is involved in synthesis activities on various aspects of carbon cycles. He is also a Visiting Associate Professor of the Graduate School of Environmental Studies of the Nagoya University, Japan.

Dr. Dhakal's core interests are on carbon management and carbon cycle analyses to clarify big picture and particularly the carbon flows in cities. He is very active in China's energy and carbon analyses. His secondary interests are on urban sustainability, voluntary carbon market and carbon mitigation potential assessment of various sectors. Dr. Dhakal works largely at the interface of science and policy in which he deals with the research community in global change science as well as the policy community.

He is currently Leader of the research project titled "Validating spatially explicitly scenarios from urban and regional levels" which is a part of a multi agency multi-year research project on "Next Generation Climate Change Scenario" funded by Global Environmental Research Funds of the Ministry of Environment Japan. He is also a Sub-theme Leader for a research project titled "Design of Low Carbon Cities" funded by the Global Environmental Research Fund of Ministry of Environment Japan.

Dr. Dhakal is currently involved in a number of international assessments including the Global Energy Assessment, International Panel on Cities and Climate Change Assessment, Urban Energy and CO₂ Assessment and Modeling of International Energy Agency, and the activities of the China Council for International Cooperation in Environment and Development. In the past he provided technical support to the UN inter-city environmental cooperation mechanism endorsed by the World Summit for Sustainable Development (WSSD) under UN/ESCAP. He was involved in the past with UNEP, UNESCAP, International Energy Agency, ICLEI, sustainability science, and many other forums and networks in Asia and beyond.

Dr. Dhakal contributes many articles in journals and others. He has been guest editor of special issues of some journals and a regular reviewer of articles for Energy Policy, Climate Policy, Energy and Buildings, Ecology and Health, International Review of Environmental Strategies, Ecological Economics, Journal of Environment and Development, and Sustainability Science.

Before joining the Global Carbon Project in 2006, Dr. Dhakal worked as a Senior Policy Researcher and Project manager of the Urban Environmental Management Project of the Institute for Global Environmental Strategies since 2000. Dr. Dhakal holds a Ph.D. on urban energy and urban warming mitigation from the University of Tokyo, a Masters degree in Energy Economics and Planning from the Asian Institute of Technology Bangkok, and an undergraduate degree on power system engineering from the Regional Engineering College Surat (renamed as National Institute of Technology) in India. He also studied at Massachusetts Institute of Technology and the University of Hong Kong as a graduate student.

Recent Publications

- Towards a Low-Carbon Society and its Relevance to Mountainous Regions (with Anil Raut), *Asia Pacific Mountain Network Bulletin*, Volume 9 , Number 1, Summer 2008, International Centre for Integrated Mountain Development (ICIMOD), Kathmandu.
- Contributions to Chapter 8 Energy Use in Cities, In *World Energy Outlook 2008*, International Energy Agency, Paris, 2008 (Leader for China and Asia analyses).
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- Dhakal, Shobhakar and Anil Raut (2008). Potentials and bottlenecks of CDM- A case of developing country, Nepal, Submitted to *Energy Policy*, Elsevier Publication.
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- Comment infléchir les émissions de CO2 dans quatre megalopolis d'Asie, *LaRevueDurable*, Dossier Vivre Ensemble En Megalopole, Numero 14, Fevrier-Mars 2005, Bimestriel, France (In French)
- Dhakal, Shobhakar (2005). De-coupling of Urban Mobility Need from Environmental Degradation in Singapore. In "Urban Infrastructure - An Introduction", Edited by Y Chandra Sekhar, pp 198-226, The ICFAI University Press, Hyderabad, India. 2005, ISBN 81-7881-552-4 (http://www.icfaipress.org/Books/urbannfrastructure_contents.asp).
- Dhakal, Shobhakar (2004). Urban Energy Use and Greenhouse Gas Emissions in Asian Mega-cities: Policies for a Sustainable Future, Institute for Global Environmental strategies, Hayama, Japan, 2004 December. Available for download at <http://enviroscope.iges.or.jp/modules/envirolib/view.php?docid=18>).