



## **AGENDA**

# **Expert Workshop on Low Emission Development Strategies in Delhi**

**ISARD@ITPI Headquarter  
IP Estate, New Delhi**

**21 May 2018**

**Organized by:**

**Indian Society for Applied Research & Development**



## Introduction

Given their growing scale and significance, cities in the Asia-Pacific region will have to be active in the global fight against climate change if it is to be effective. Municipal authorities in these cities therefore have a significant scope to pursue urban Low Emission Development Strategies (LEDS) and clean energy initiatives in ways that will also foster economic development. Because of the global significance of Asia-Pacific region, policies and programs, facilitating large-scale adoption and deployment of clean and renewable energy will need to play a central role in this area.

Since August, 2017, a research project, entitled "Multiple Benefits Assessment of the Low Emission Development Strategies in Asia Pacific Cities" has been approved to receive funding from the APN (Asia-Pacific Network) under CRRP (Collaborative Regional Research Program) and started at the Institute of Advanced Energy (IAE), Kyoto University, to demonstrate how clean energy policies and programs can help achieve multiple urban energy, environmental, health and economic benefits in a cost-effective way in Asia-Pacific urban area. This research will center primarily on cities of: Tokyo, Shanghai, Seoul, Delhi, Sydney and Kuala Lumpur. The details of this research project are available at:

(Project URL: <http://www.apn-gcr.org/resources/items/show/2078>)

As a part of aforesaid research project, this workshop will be held Indian Society for Applied Research & Development, Delhi to provide insights on successful ways to promote, design and implement the low carbon urban energy system in Delhi.

## Aim and Purpose of this workshop

The main objective of this expert workshop is to enable a sufficient amount of dialogue between scientists and policy-makers in order to discuss about the following central issues regarding the LEDS in Delhi:

### 1) Determine the phase of development of the LEDS

- Direction of the industry
- Speed of adoption
- Workforce development (Incentives and needed strategies)

### 2) Holistic understanding of the expert's opinions on the interrelated barriers to the LEDS

- What are the most important barriers to the development of LEDS in Delhi?
- What measures can be implemented to overcome these barriers?



## Network Coordinators:

### India

- Dr. Ajeet Prasad, Secretary, ISARD
- Dr. Mahendra Sethi, Research Advisor
- Prof. Dr. Shovan K. Saha, Dean, SoAP, Sharda University, Greater Noida

### Japan

- Dr. Hooman Farzaneh, Principle Investigator, Associate Professor, Kyushu University
- Dr. Benjamin McLellan, Assoc Professor, Graduate School of Energy Science, Kyoto Univ.

## Invited Participants and Speakers:

1. Dr. Mohd Arif, Green India Mission, MoEFCC, Govt of India
2. Prof. Dr Sewa Ram, School of Planning & Architecture, Delhi
3. Ms Geetali Tare, New Delhi Municipal Corporation
4. Prof. Dr Meenakshi Dhote, School of Planning & Architecture, Delhi
5. Deepak Gupta, Shakti Foundation
6. Swati Aggarwal/ Manish Shrivastava TERI
7. Dr. Rohit Azad, Jawaharlal Nehru University, Delhi
8. Saurabh Trivedi, Climate Policy Initiative
9. Shilpi Mittal, GD Goenka University, Gurgaon
10. Shri M. Rajgopal, President, ISARD, New Delhi
11. Dr. A.K. Sen Gupta, Consultant, WHO, ADB
12. Dr. Divya Sharma, Oxford Policy Management
13. B.V. L. Rao, Former Director, Planning Commission
14. Sushma Goel, Lady Irwin College
15. Dr S.D. Tiwari, Environment Expert, Delhi-NCR
16. Research scholars and students from SPA, JMI, etc.

## A Brief Profile of Speakers and Key Participants



### **Dr. Hooman Farzaneh**

Dr. Hooman Farzaneh is an Associate Professor at Kyushu University. As Principal Investigator, he is currently involved in conducting the research project on Low Emission Development Strategies in Asia-Pacific Cities for APN. In the past, he has served the Institute of Advanced Energy (IAE), Kyoto University, Japan and the United Nations University - Institute for the Advanced Study of Sustainability, Tokyo. He is particularly interested in issues related to quantitative and qualitative analysis focusing on developing research patterns of low carbon energy scenarios and policy implementations designed to tackle air pollution problems in both regional and local scales.



### **Dr. Benjamin McLellan**

Ben McLellan is Associate Professor at the Graduate School of Energy Science, Kyoto University (Japan) where he is teaching postgraduate students in the International Energy Science Course. Before arriving at Kyoto, Ben worked at CSRM as a post-doctoral researcher and research fellow (2006-2010), mainly focused on projects for the Centre for Sustainable Resource Processing – particularly SUSOP® (Sustainable Operations). He has a PhD (Chemical Engineering) and BE (Chemical Engineering Hons I) / BA (Spanish) from The University of Queensland. His PhD was focused on improved techniques for localisation of sustainability indicators for hydrogen energy systems. With regards to research, Ben's work covers a wide range of areas – including energy, sustainable development, design, sustainability indicators, environmental impact, energy policy, low-carbon technologies, materials and minerals. Apart from his role at Kyoto University, he is co-Chief Editor of the International Journal of Sustainable Futures for Human Security (J-SUSTAIN) and on the international editorial board of the International Electronic Journal of Nuclear Safety and Simulation.



### **Dr. Mahendra Sethi**

Dr. Mahendra Sethi is an urban environment expert exploring the role of cities at the interface of GEC with a focus on developing countries. A recipient of 2013-14 United Nations University (UNU-IAS) PhD Fellowship and Visiting Scholar at Kyoto University in Japan. Earlier, Dr Sethi has edited the research journal *Urban India* for NIUA, involved in research studies, development consultancy, appraisals and formulation of spatial-environmental plans for governments, private sector and international organizations like World Bank & WWF. Bears interest in global sustainability, policy and governance, environmental planning, megacities, sustainable transport, optimization models, green technologies and eco-development in mountainous areas. Offered Govt of India's GATE Scholarship (2005-07), Liverpool University Scholarship (2005) and currently advising research activities of ISARD.



**Dr Shovan K. Saha**

Professor Shovan K. Saha, Sharda is currently Dean, School of Architecture and Planning (SAP) and School of Art, Design and Mass Communication Studies (SADMS), Sharda University, Greater Noida. He has about 40 years professional, academic and research experience, 1970 till date, November 2013. He Joined SPA New Delhi as faculty in 1980 in the Department of Urban Planning. Worked as Research Fellow in United Nations Centre for Regional development (UNCRD), Nagoya (1988-90, 1992) and also obtained Dr. Engg. from Kyoto University (1992) Japan. Has been Advisor to NTNU, Trondheim, Norway, Visiting Professor in Aichi Gakuin University, Japan, Institute of Engineering, Kathmandu. Presented and published papers in various national and international journals. While holding academic and research positions, worked on various prestigious professional projects in India and abroad.



**Dr Sewa Ram**

Dr. Sewa Ram is Professor, Transport Planning, School of Planning and Architecture, New Delhi. He is an alumnus of IIT Delhi, SPA Delhi. He completed B.Tech from IIT Delhi, M.Planning (Transport) and Ph.D. from SPA, New Delhi. His area of interest includes transport engineering, transport design, transport infrastructure, planning and design of sustainable transport system and road Safety. He has been actively involved in formulation of several IRC codes. To his credit, he has several international and national research publications and presentation. He was coordinator of Research Symposium in Urban Mobility India Conference 2013. He was the member of International draft committee, EST forum, UNCRD. He was one of the member of Technical Core Group of TCPO on formulation of Urban and Regional Development Plan Formulation Guidelines (URDPFI) Guidelines. Dr.Ram is coordinator of module of Traffic Engineering for course of Accredited Road Safety Auditor course conducted by IAHE, ARRB and MoRTH, GOI



**Dr Rohit Azad**

Dr Rohit Azad teaches at Centre for Economic Studies and Planning, Jawaharlal Nehru University, New Delhi with specialization in Macroeconomic Theory, Monetary Economics, Growth Theory. Rohit Azad has been a Fulbright Visiting Scholar at The New School and the South Asia Institute, Columbia University recently as well as University of Massachusetts, Amherst earlier. He has worked on the US economy, especially focusing at the role inequality has played in contributing to the Global economic crisis, which was published as *It's Not Over* by the Oxford University Press. His areas of research include the corporate sector in India, monetary theory and policy and the political economy of growth and more recently on environmental issues



### Shilpi Mittal

Shilpi Mittal is a practicing architect, planner specializing in human habitat with over a decade of experience. In the past, she has been active in consulting and real estate portfolios in the private sector, serving organizations like IL&FS Property Management and Service Limited and Ansals API. Shilpi has also taught in graduate and post graduate courses in architecture, planning and urban studies. She is currently pursuing PhD at G.D. Goenka University in Quality of Life in Diverse Residential Neighbourhoods- A case of South Delhi. Shilpi has been a qualified GATE scholar in Architecture and Planning and alumni of School of Planning and Architecture, New Delhi.



### Rakesh Prashar

Mr. Prashar is Manager, Smart Enviro Systems and an empanelled member under the Swachh Bharat Mission and Survekshan by Government of India. As a need for society to find its comfort with clean and green environment campaign, he took voluntary retirement from T-Series after 30 long years of dedicated service and decided to be a part of *swachh bharat abhiyan* as an active member, for which he joined organizations like Smart Enviro Systems and Bapu Nature Cure Hospital and Yoga to closely connect with people. He also participated in campaigns to encourage citizens out of all the cause that aims to clean up streets, roads and infrastructure by picking up the niche segment i.e. decentralized organic waste composter.



### Kanagaraj Ganesan

Kanagaraj Ganesan is a licensed architect, Certified Measurement and Verification Professional (CMVP) and Energy Conservation Building Code (ECBC) Master Trainer with 10 years of experience in the field of building energy efficiency. He is a post-graduate from Indian Institute of Technology, Madras on “Building Energy Efficiency”, a Technical Director at Nuesch Development India and is working on developing indigenous concept of 2000 Watt Smart Cities in India. He is founder of Integrative Design Solutions Pvt. Ltd. (IDSPL) that focuses on mainstreaming “integrated design” for addressing sustainability in the built-environment through technical consulting, policy implementation and knowledge dissemination. In 2016-17, he had worked as a National Consultant for UNDP GEF (Global Environment Facility) – BEE (Bureau of Energy Efficiency) project on “Energy Efficiency Improvements in Commercial Buildings”. He is working as a consultant to All India Institute of Local Self Government to implement Energy Conservation Building Code in India, providing technical support to around 30 state owned government buildings to make them ECBC compliant. He is working on deep energy efficiency retrofitting of UN House in New Delhi.



## Workshop Programme

**9:30-10:00 am: Registration and Tea**

**10:00-10:05 am: Welcome Note**

**10:05-10:10 am: Inauguration by the Organizers**

**10:10-10:45 am: Introductory presentation by the network coordinators**

- Multiple Benefits Assessment of the LED Strategies in Asia Pacific Cities: Dr. Hooman Farzaneh
- LEDS workshops and progress: Dr. Benjamin McLellan
- Introduction to LED in Delhi: Dr. Mahendra Sethi

**10:45-11:30 am: Policy and Financial Perspective of LED in Delhi (Chair: Dr S.K. Saha)**

- Transport Systems and Air Quality in New Delhi (15 min): Dr Sewa Ram
- Breathing Green in Delhi: A Proposal for Carbon Tax (15 min): Dr Rohit Azad
- Q & As (15 min)

**11:30 – 11:45 : Tea Break**

**11:45-12:30 am: Research and Best Practices for a Greener Habitat (Chair: Dr B. McLellan)**

- Relevance of LED for Enhancing Quality of Life (15 min): Shilpi Mittal
- Decentralized Waste Treatment Solutions (15 min): Rakesh Prashar
- Experiences of Energy Efficiency in Built Environment (15 min): Kanagaraj Ganesan

**12:30 -12:55 pm: Group discussion on implications for Delhi (Chair: Dr Mahendra Sethi)**

**12:55 pm – Vote of thanks, followed by Lunch**