

WORKSHOP ON CLIMATE CHANGE AND HOTEL INDUSTRY CDM OPPORTUNITIES

June 18, 2005
Hotel Mandovi, Goa

ORGANIZED BY



**INTEGRATED RESEARCH AND ACTION FOR DEVELOPMENT (IRADe),
NEW DELHI**

SUPPORTED BY



**MINISTRY OF ENVIRONMENT & FORESTS
NEW DELHI**

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Summary report “Climate change and Hotel Industry – CDM Opportunities”

I. Background

With the Kyoto protocol coming into force from 16th February 2005, legally requiring all signatories to achieve different emission reduction targets by 2012, there has been a considerable interest in Clean Development Mechanism (CDM)¹ opportunities in different sectors. 122 countries signed the “Kyoto Protocol” in 1997 to form an alliance and structure in the fight against climate change. India has ratified the Kyoto Protocol on greenhouse gas emissions. India has moved swiftly on Clean Development Mechanisms (CDMs) and is positioning itself as a leading developing country in terms of the number of projects accorded to it by the CDM (Clean Development Mechanism) Executive Board, as per the provisions of the Kyoto Protocol. So far India has received 70 CDM projects.

Tourism is one of India’s most important and fastest growing industries. As one of the world's largest industries, and one that heavily depends on the climate and environment for its success, the tourism industry could be faced with huge costs as global warming begins to influence decisions about when and where people will go on holiday. Hotel industry is an integral part of the tourism sector and is one of the major energy intensive industries. Almost all big and small hotels are trying to pursue the best practices to enhance their energy and environment performance. Thus, there is an opportunity, as most of these efforts could become potential CDM projects. Hence a one-day workshop was organized by Integrated Research and Action for Development (**IRADe**) to address the issue of CDM opportunities in hotel industry.



(From left to right) Dr. N.P.S Varde, Director and Jt. Secretary, STE Goa, Shri R. K Sethi, Director, MOEF Delhi, Dr. Kirit Parikh, Member Planning Commission, Dr. Jyoti Parikh, Dr. B.D Sharma

¹ The Clean Development Mechanism (CDM) was proposed as a part of the ‘flexibility mechanisms’ of the Kyoto protocol. These mechanisms of the protocol were devised to assist Annex 1 countries to fulfill their commitments in a flexible and co-operative manner. At the same time they provided an opportunity for developing countries, not bound to reduce their emissions under the protocol, to participate in the process of global GHG mitigation.



Inaugural Session: Dr. N.P.S Varde addressing and welcoming the participants



Inaugural Session: Shri R. K Sethi giving a keynote address

II. Objectives

The overall objectives of the workshop were to understand the linkages between global climate change, hotel industry and CDM opportunities leading to sustainable development. And, also to provide a platform for participants to discuss and interact with policymakers' representatives of public and private sectors dealing with the hotel industry.

Also, the workshop was an effort to address the following issues:

- From the perspective of hotel industry, what are the main issues of concern in regard to the CDM?
- What kind of support and facilitation is needed for CDM projects to succeed or be implemented in the hotel industry?

III. Outcomes of the workshop

- Participants from various ministries and hotels of Goa and Delhi attended the workshop. Participants were from Department of Science, Technology and Environment (STE) Goa, Goa University, India Tourism Development Corporation (ITDC), various hotels of Goa (Marriot resort, Mandovi hotel etc.), York International Corporation, Reliance Energy Limited (REL), and various hotels of Delhi (ITC hotels, Marriott Welcom Hotel).
- Participants were made aware of the recent developments in the field CDM and also the CDM opportunities available in Hotel industry.

IV. Recommendations

The participants made the following recommendations:

- All the participants regarded the workshop as very informative and they suggested having more such conferences in other large cities.
- It was suggested that more emphasis should be given on ESCO, which can implement the energy efficiency projects, provide financing and avail CDM benefits.
- It was felt that there is a need for an institutional arrangement for bundling of small-scale projects.
- It was suggested that one group of hotels or some institution should take up the first project on hotels. This could lead to several projects.
- Some of the hotel representatives were totally unaware about the CDM possibilities and they expressed their appreciation for gaining insight on CDM through the workshop.
- It was suggested that a good team of energy efficient experts and CDM experts should come together for CDM projects in Hotel industry.

Annexes

ANNEX – I: Proceedings of the workshop

1. Workshop Inauguration

1.1 Introductory and welcome remarks

The workshop was inaugurated by Dr. Kirit Parikh, Member, Planning Commission. He expressed his pleasure and congratulated Integrated Research and Action for Development (IRADe) for organizing the workshop. Dr. N.P.S Varde, Director & Joint Secretary, Department of Science, Technology and Environment (STE), Goa welcomed the participants. Dr. Varde emphasized the importance of tourism to Goa and also highlighted the opportunity of the hotels in earning carbon credits. Mr. R.K Sethi, Director, Ministry of Environment and Forests, gave a keynote address lucidly explaining the environmental concerns of climate change and the threat that looms large on the earth due to climate change. He gave an account of history of Kyoto Protocol. He further stressed the benefits that the Indian industries especially hotels stand to gain by CDM projects with the Kyoto Protocol coming into force. Next, Prof. Jyoti Parikh, Executive Director, IRADe, gave an introduction to the workshop. Dr. B.D Sharma, Senior Advisor, IRADe, concluded the session with a vote of thanks.

2. Technical Session I Chair: Dr. N.P.S Varde

2.1 Presentation on Perspectives of Climate Change and Hotel Industry

Prof. Jyoti Parikh, Executive Director, IRADe presented an overview on climate change and hotel industry. She stressed on the fact that climate change leads to vulnerability as well as opportunity. She also elaborated the threats faced by the global coastal systems due to rising sea level. The presentation clearly defined that the threat encompasses a large variety of issues for Goa ranging from beach erosion due to sea level rise, salt water intrusion in ground water and river systems, loss of fishery and consequently income etc. It also laid emphasis on impact of climate change on the tourism industry and vice versa. However, scope of energy efficiency and renewable energy is large in the tourism industry especially hotels which can be tapped to mitigate the pollution from hotel industry and also create opportunities for qualifying for certified emission reduction under CDM. She said that India has taken a dynamic initiative with Indian DNA having cleared the maximum number of (70) projects in the world.

2.2 DNA – Scope and Achievements

Mr. R.K Sethi, Director, Ministry of Environment and Forests, gave an account of historical aspects from UNFCCC to Kyoto Protocol to the current system of obtaining carbon credits. He gave an insight on implementation of facilitating CDM and also National CDM Authority. Mr. Sethi elaborated the project cycle of CDM and the sectors where it can be implemented. He gave an account of state wise CDM projects in India. The potential in renewable sector and the present scenario of CDM was also discussed. He pointed out the criteria used by DNA in approving project.

3. Technical Session II Chair: Mr. R.K Sethi

3.1 CDM Opportunities in Hotel Industry

Dr. B.D Sharma, Senior Advisor, IRADe gave a presentation exploring the opportunities for CDM projects in hotel industry. He gave an overview as to how hotel industry is an integral part of tourism and also gave a lucid explanation of energy consumption in hotel industry. He stressed on benchmarking of hotel industries in order to save energy and also in conserving the environment. CDM opportunities in hotel industry was also discussed by him along with elaborate and detailed examples of energy conservation options in hotels such as energy saving by multiple glazed windows and renewable energy options like ground source heat pump, solar hot water system, root zone system etc. He also advocated for simplified procedure for bundling of projects.

3.2 Bundling of small-scale projects

Mr. Nishant Bhardwaj, General Manager, IT Power India, New Delhi presented the bundling of small scale projects. His presentation gave an insight into the various aspects of bundling. He gave detailed explanations about the projects that can be bundled, bundling organizations etc. He further elaborated his point by giving case studies of biomass bundled project and solar bundled project.

4. Technical Session III Chair: Dr. Jyoti Parikh

4.1 Energy Efficiency in ITDC Hotels

Mr. Rajiv Makin, General Manager, ITDC hotels, New Delhi gave a presentation on energy efficiency in ITDC hotels. He gave a detailed account of the tourism industry in India with details of total international tourists, hotel industry, foreign exchange earnings etc. He also gave the present energy consumption scenario in the hotel industry and energy saving measures that can be practiced. The role of operational support such as commitment by top management in energy saving practices and the possible energy saving opportunities were also elaborated in the presentation. The methods and modifications for energy saving in various departments such as engineering, food and beverages, house keeping, front office and laundry were given to emphasize the practical methods of energy efficiency.

4.2 Case studies: PDDs

CDM Project on Energy Efficiency Initiatives at Lotus Suites and the Orchid Hotel, Mumbai

Dr. Anish Chatterjee, Development Alternatives described the CDM project on energy efficiency initiatives at Lotus Suites and the Orchid Hotel, Mumbai. Dr. Chatterjee gave a detailed description of technology installed along with the energy saved as well as the cost saved at two environmentally sensitive hotels i.e., Orchid hotel and Lotus Suites, Mumbai. He also gave an account of baseline and the calculation of emission before and after implementation of CDM activity. The various additionalities and barriers present to implement new technologies were explained with the help of examples from the two hotels. The presentation was concluded with an overview of sustainable development factors, indicators and the aspects that much be considered for designing CDM activity in order to achieve sustainable development.

5. Open Discussion:

Mr. R.K Sethi, Dr. Jyoti Parikh and Dr. B.D Sharma led open discussion. All participants actively participated in the discussion.

Issue: Do the EE measures refer only to existing hotels?

In reply to the above query Dr. Jyoti Parikh said that even a new hotel can go for extensive measures such as solar paneled roofs, swimming pools etc. and claim carbon credits, thereby bridging the gap needed to make such measures cost effective.

Shri R.K Sethi, Member Secretary, DNA promised his cooperation and help. He said that the currently available baselines on websites are not mandatory and could be project specific.

Shri Rajiv Makin pointed out that the staff has to be involved at all levels, especially at lower levels, for successful implementation. Internal democratic approaches will serve CDM better.

Mr. Avtar Singh Walia, Marriot hotel, Delhi said that they are implementing some EE programmes and hope to take up more after listening to the workshop.

ANNEX II: Participation List

**IRADe: Climate change and Hotel Industry – CDM Opportunities
Hotel Mandovi, Goa, June 18 2005**

List of participants from various organizations

S.No.	Name	Designation	Organization
1.	Dr. N.P.S Varde	Director and Jt. Secretary(STE)	Department of Science, Technology and Environment, Goa
2.	Dr. Kirit Parikh	Member	Planning Commission, New Delhi
3.	Mr. R. K Sethi	Director	Ministry of Environment & Forests New Delhi
4.	Dr. Pranab Mukhopadhyay	Lecturer	Goa University Goa
5.	Mr. Rajiv Makin	General Manager	Ashok Reservation & Marketing Services, India Tourism Development Corporation, New Delhi
6.	Mr. Bonny Fonjeie	Chief Engineer	Bambolin Beach Resort Goa.
7.	Mr. Deelip Humraskar	Accounts Officer	Department of Science, Technology and Environment, Goa
8.	Mr. Manuel P D'Souza		Hotel Mandovi Goa Phone: 2224405
9.	Mr. Prasad P Gaitonde	Junior Engineer	Department of Science, Technology and Environment, Goa
10.	Mr. Vikas Kundra	Regional Manager	York International Corporation, Mumbai
11.	Mr. Melvin Fernandes	Manager Engineering	Vaiguinim Valley Resort, Goa.
12.	Mr. Anish Chatterjee	Environmental Scientist	Development Alternatives, New Delhi
13.	Mr. M. Durairaj	Officer on special duty	Reliance Energy Limited Goa
14.	Mr. Satej Kamat	Agriculture Officer	GSCST Department of Science, Technology and Environment, Goa
15.	Mr. Macchindra Kantankar	Project Coordinator	Department of Science, Technolgy and Environment, Goa.
16.	Mr. Dattaray Surve	Maintenance Executive	Sun Village Goa

17.	Mr. Anindya Majumdar	Laundry Manager	Goa Marriot Resort, Goa
18.	Mr. Nishant Bhardwaj	General Manager	IT Power India Pvt. Ltd. New Delhi
19.	Mr. Siva Kumar	Supervisor	ITC hotels ITC Maurya Sheraton N.Delhi-21.
20.	Mr. Avtar Singh Walia	Chief Engineer	Marriott Welcom Hotel New Delhi – 110017
21.	Mr. Prabhat	Student	Goa University
22.	Ms. Shilpa	Student	Goa University

Workshop on
“Climate change and Hotel Industry – CDM Opportunities”
Organized by
Integrated Research and Action for Development
June 18, 2005
At
Hotel Mandovi, Goa

Agenda

9:30 AM	Registration
10AM -10.45 AM	Workshop Inauguration
10AM -10.10 AM	Welcome address - Dr. N.P.S Varde, Director & Joint Secretary, Science, Technology and Environment (STE), Goa Inaugural Session - Chair Dr. Kirit Parikh, Member, Planning Commission
10.10AM – 10.30AM	Keynote address - Dr. Pradipto Ghosh, Secretary, Ministry of Environment & Forests (MOEF)
10.30 AM – 10.35 AM	Introduction to CDM workshop - Dr. Jyoti Parikh, Executive Director, IRADe
10.35AM – 10.45 AM	Vote of thanks - Dr. B.D Sharma, Senior Advisor, IRADe
10.45AM – 11.00 AM	Tea Break
	<u>Technical Session I</u> - Chair, Dr. N.P.S Varde, Director & Joint Secretary, STE, Goa
11.00AM – 11.15AM	Perspectives on Climate Change and Hotel Industry - Dr. Jyoti Parikh
11.15AM – 11.30AM	DNA – Scope and Achievements - Mr. R.K Sethi, Director, Ministry of Environment & Forests (MOEF)
11.30 AM – 11.50AM	Open discussion <u>Technical Session II</u> - Chair, Mr. R.K Sethi, Director, Ministry of Environment & Forests (MOEF)
11.50 AM – 12.10 PM	CDM Opportunities in Hotel Industry

12.10 PM – 12.30 PM - Dr. B. D Sharma, IRADe
Bundling of small scale projects
- Mr. Nishant, IT Power, New Delhi

12.30 PM – 1.00 PM **Open discussion**

1.00PM – 2.00PM **Lunch Break**

Technical Session III

- Chair, Dr. Jyoti Parikh, Executive Director, IRADe

2.00 PM – 3.00 PM CDM Opportunities

2.00 PM – 2.30 PM Energy Efficiency in ITDC Hotels
- Mr. Rajiv Makin, GM, ITDC Hotels, New Delhi

2.30 PM – 3.00 PM Case studies – PDDs
- Mr. Udit Mathur, Development Alternatives, New Delhi

3.00 PM – 3.15 PM **Open discussion**

3.15 PM – 3.30 PM **Tea break**

3.30 PM – 4.00 PM **Panel Discussion**

- Chair, Dr. Kirit Parikh, Member, Planning Commission

Panelists – Mr. R. K Sethi
- Dr. Jyoti Parikh
- Dr. B. D Sharma
