

# **International Conference Green Power VI**

## **Green Power for Sustainable Development**

Held on 17-18<sup>th</sup> November 2009 at Silver Oak Hall, India Habitat Center,  
New Delhi-110003

Summary Record :

International conference Green Power VI Green Power for Sustainable Development was organized by Council of Power Utilities (CPU) & KW Conferences supported by FIVE International Organizations, WEC, CIGRE, ICOLD, ICID, WASER , CHINA SOCIETY for Hydropower Engineering & China Institute of Water Resources and Hydropower Research. IFS Solutions, PGCIL, IBM, Crompton Greaves Limited were the sponsors of the conference.

**The earlier Conferences on Green Power were :**

- 1st International Conference on -Green Power-The need for 21st Century at New Delhi (India) in February 1997
- 2<sup>nd</sup> International Conference on Accelerated Development of Hydro Power Resources 21<sup>st</sup>. Century at Three Gorges Project Site, China in October 1999
- 3<sup>rd</sup> International Conference on Eco Friendly and Efficient Power Development in the New Century at New Delhi (India) in November 2001
- 4<sup>th</sup> International Conference Sustainable Energy Development for Improved Quality of Life at New Delhi in October,2003
- 5<sup>th</sup> International Conference Development And Management Of Resources & Energy Security” at New Delhi in Feb, 2006

Shri C.V.J.Varma, President CPU welcomed the Guests and the participants at the inaugural session. Dr. Chandan Chowdhury, Chief Executive Officer, IFS Solutions as Principal Sponsor & Prof. Gao (The former President of IWHR) China on behalf of Dr.Jia Jinsheng, President ,ICOLD offered greetings , Shri H.L Bajaj, Member ATE inaugurated the conference & Dr. G.D Gautama, Principal Secretary (Power & Renewable Energy) Govt. of West Bengal delivered Keynote address.

This was followed by a Panel Discussion - Green Power for Sustainable Development Ms Alison Bartle, Aqua-Media International Limited was the Chairperson and the other Panelists were:  
Mr. D.P. Bhargava, Director (Technical), NHPC Ltd., Prof. Gao Jizhang (The former President of IWHR) , Prof. Bibek Bandyopadhyay, Scintest G/ Adviser, MNRE Mr. Luis Berga, Hon President, ICOLD, Mr. Vivek, Senior Principal - Energy, Utilities and Services Infosys & Mr. Tim Greisinger, Vice President, IBM China.

Session wise Keynote Speakers are given below:

The Session chairpersons for Seven Technical Sessions were Mr. V. Raguraman, Former Principal Adviser, CII, Mr. K. Vijayanand, Managing Director, APGENCO, Prof. Luis Berga, Hon President, ICOLD, Dr. Uddesh Kohli, Former CMD, PFC, Mr. P. Abraham, Former Secretary Power, M Lakshmi Narain, Energy Adviser, NPTI Nagpur & Dr. Hari Ram Sharma, Chief Technical Principal □HYDRO TASMANIA CONSULTING INDIA PVT.LTD.

**New and Renewable Technologies- Wind Energy & Solar Energy** -Mr. V. Raguraman, Former Principal Adviser, CII –“ Role of Nuclear Power In tackling climate change”, Prof. Bibek Bandyopadhyay, Director, Solar Energy Centre, Ministry of Non-Conventional Energy Sources –“Solar Energy Utilization in India”, Prof. Gao Jizhang (former President of IWHR), . Guo Jun and Cai Jindong “Development of Renewable Energy in China -- a Strategy from

being Hydropower-Focused to Balanced Emphasis on both Wind and Water Energies" , Mr. Anil Patni, DGM spoke for Mr. Anjan Ghosh, Head Sales & Mktg./,Tata B.P. Solar India Ltd "Tata B.P.Solar India's initiatives for development Solar Power". & Ms.Namrata Mukherjee, Manager, Mercados Energy Markets India Pvt. Ltd "Grid and Market Integration of Wind and Solar Power in India-Opportunities and issues"

**Clean coal technology, Biomass and Hydro - Carbon** -Mr. K. Vijayanand, Managing Director, APGENCO " Apgenco's Initiatives and future strategies," Mr. N.C.Jha, Director, Coal India Ltd., "Fuel Option for future Power Generation in India", Mr. Abhiram Sharma, Chief Operating Officer (Coal), Bharat Aluminum Co. Ltd. "ENERGY EFFICIENCY and CLIMATE CHANGE" Mr. G.S.Bindra, GM incharge, BHEL "HIGH EFFICIENCY POWER GENERATION TECHNOLOGIES", Mr. Sanjay Gambhir, Head- Plant Design & Piping, Doosan – "Technical Improvements & Modernization of Existing Plants", Mr. R. K. Anand, Sr. D.G.M BHEL, "Sustaining old Thermal Power Stations in Green Power Era - Need for revisiting approach"

**Hydro Power Development – A Green Energy - Future Scenario** -Prof. Luis Berga, Hon President, ICOLD, "Role of Hydro Power in 2009" Mr. F. Lemperiere, Chairman, Hydrocoop (Hydro-Cooperation)-"World Energy along the Century Possible solutions for India, China and Europe", Mr. Sultan ALAM, Consultant , France "Sediment Management in Hydro and Irrigation Storage Reservoirs", Mr. M. Gopalakrishanan, Secretary General, ICID - "Challenges in meeting the Millennium Development Goal 1 (MDG1)".

**IT Solutions & HR** -Dr. N.S.Saxena, DG, NPTI, " Contribution of NPTI for Knowledge management and improving the skills of individuals", Mr. P. M. Bhardwaj, Director (Production) –"IT for socioeconomic Development" Instrumentation Limited". Dr. Chandan Chowdhury, Chief Executive Officer, IFS Solutions India Pvt. Ltd, Role of IT for Green Power IFS Prospective" **Mr.Reji Kumar**, Head-Energy & Utilities, **IBM Private Limited**, " IT Solutions for Greening " Mr. A.B.L. Srivastava, Director (Finance), NHPC Ltd- "Assets management & Project financing"

**Greening of T&D and Distributed Generation for Rural Electrification** -Mr. P. Abraham, Former Secretary Power "Efficient Distribution Initiative- present and future scenario" ,Mr S. Ramesh, Chief Engineer (EI & TA)/ Mr D.C. Krishnamurti, KPCL- "KPCL initiative for development of solar power for distributed generation" Mr. Makranad Arvind Kale , Senior Associate Energy, Utilities and Services, Infosys "Smart Grid and Green Power : An Emerging Relationship"

**Energy efficiency, Environment Ecology** - Ms. Neerja Mathur, Chief Engineer, Central Electricity Authority- "Energy Security", Lakshmi Narain, Energy Adviser, NPTI Nagpur " Energy Reduction through Improved Maintenance Practices" Mr. Surendra Prasad, DGM CENPEEP, NTPC. Ltd. "Energy & Efficiency Management" , Dr. S.K.Dube , DGM, NTPC Ltd "Ash Utilization"

**Renewable Energy (Opportunities & Challenges ) & Contractual Aspects** -Dr. Hari Ram Sharma, Chief Technical Principal □HYDRO TASMANIA CONSULTING INDIA PVT.LTD – "Clean and Renewable Energy Sources with reference to Hydro and Ocean Energy", Mr. V. Subramanian, Chief Executive, CARPI "First Geomembrane installation in Hydro Power Cannal in India", Mr. S.A.Mathew, Scientist &Unit Chief(i/c), Center for Wind Energy Technology Chennai "Wind Turbine Technology in India & Its Impact ", Ms Ekaterina F. Sultanova , Sr. Environmental Engineer of Tidal Power Centre, RushHydro, NIIES-" (JSC "Scientific Research Institute of Energy Structures" (JSC NIIES) "New technologies of tidal power plants construction in Russia" ,Ms Suchitra Chitale, Managing Partner, Chitale & Chitale Partners. "Policy & Contractual issues of Green Power Supply "

There were 41 presentations, with 175 participants including 15 international participants from various national & international organizations. such as Hydro Power & Dams, ICID, ICOLD, RusHydro NIIES, , *HYDROCOOP, France* , Hydro Nepal, CEA, BHEL, NHPC Ltd ., NTPC Ltd., PGCIL, Power Finance Corporation Ltd., Satluj Jal Vidyut Nigam Limited, ABBLtd., Kalki Communication Technology *CAPRI TECH* , AP Transco ,*Uttar Gujrat Vij Co*, Hydro Pvt. Ltd, Asian Institute of Technology, Tehri Hydro Development Corporation, IFS Solution India Pvt.

Ltd., IBM, Sardar Sarovar Narmada Nigam Ltd., Uttar Gujarat Vij Company Ltd., BSES Yamuna Power Ltd., Environmental Resources (Group) Pvt. Ltd., Energtica India., Economic Research India Ltd., Jaypee Group,, KLG Systel Ltd., JSC NIES, Hydel Engineering Products, Madhya Gujarat Vij Company Ltd., Kimaya Energy Ltd., Crompton Greaves Ltd., Aryavat Gramin Bank, , Reliance Infrasture – EPC, ABB Ltd., NDPL, a number of Power utilities, developers & project authorities.

Organizers express gratitude to Shri H.L.Bajaj, Member ATE & Dr. G.D Gautama, Principal Secretary (Power & Renewable Energy) Govt. of West Bengal for their address during inaugural session ,the Session Chairpersons, Keynote speakers & paper presenters for their valuable contribution. Organizers also acknowledge with thanks the support of M/s IFS Solutions, PGCIL, IBM & Crompton Greaves Limited. for sponsoring the conference , M/s Carpi, IFS, IBM Crompton Greaves Limited for their participation as Exhibiters and Media partners and press .