

A heritage – Bengal's very own



The Bengal Chamber of Commerce and Industry

Development is meaningful only when it is composite and inclusive of the diverse parameters that drive growth.

In the new environment of society, industry and business, the need for corporates to internalize and demonstrate their responsibilities to the society in which they operate is no longer a matter of debate.



The Bengal Chamber of Commerce and Industry

Relief during Bihar Drought 1967, Khem Kharan 1965



**TO THE AID OF THE DISTRESSED PEOPLE OF BIHAR
AFFECTED BY THE DROUGHT OF 1967**
A villager in a drought affected area of Bihar smiles as she carries fuel to prepare the food offered by the Relief Team of the Bengal Chamber.



PLOUGHING OPERATIONS THROUGH TRACTORS KHEM KARAN
as part of the rehabilitation of Khem Karan, a village in the Punjab, devastated during the Indo-Pakistan conflict of 1965. This Project was undertaken by Assocham with the active financial support of the Bengal Chamber.



Cyclone Aila Relief, 2009



Global warming: Causes and effects

Earth's temperature has risen about 1 degree Fahrenheit in the last century. The past 50 years of warming has been attributed to human activity.

Burning fuels such as coal, natural gas and oil produces greenhouse gases in excessive amounts.

Greenhouse gases are emissions that rise into the atmosphere and trap the sun's energy, keeping heat from escaping.

The United States was responsible for 20 percent of the global greenhouse gases emitted in 1997.

Most of the world's emissions are attributed to the United States' large-scale use of fuels in vehicles and factories.

During the past 100 years global sea levels have risen 4 to 8 inches.

Some predictions for local changes include increasingly hot summers and intense thunderstorms.



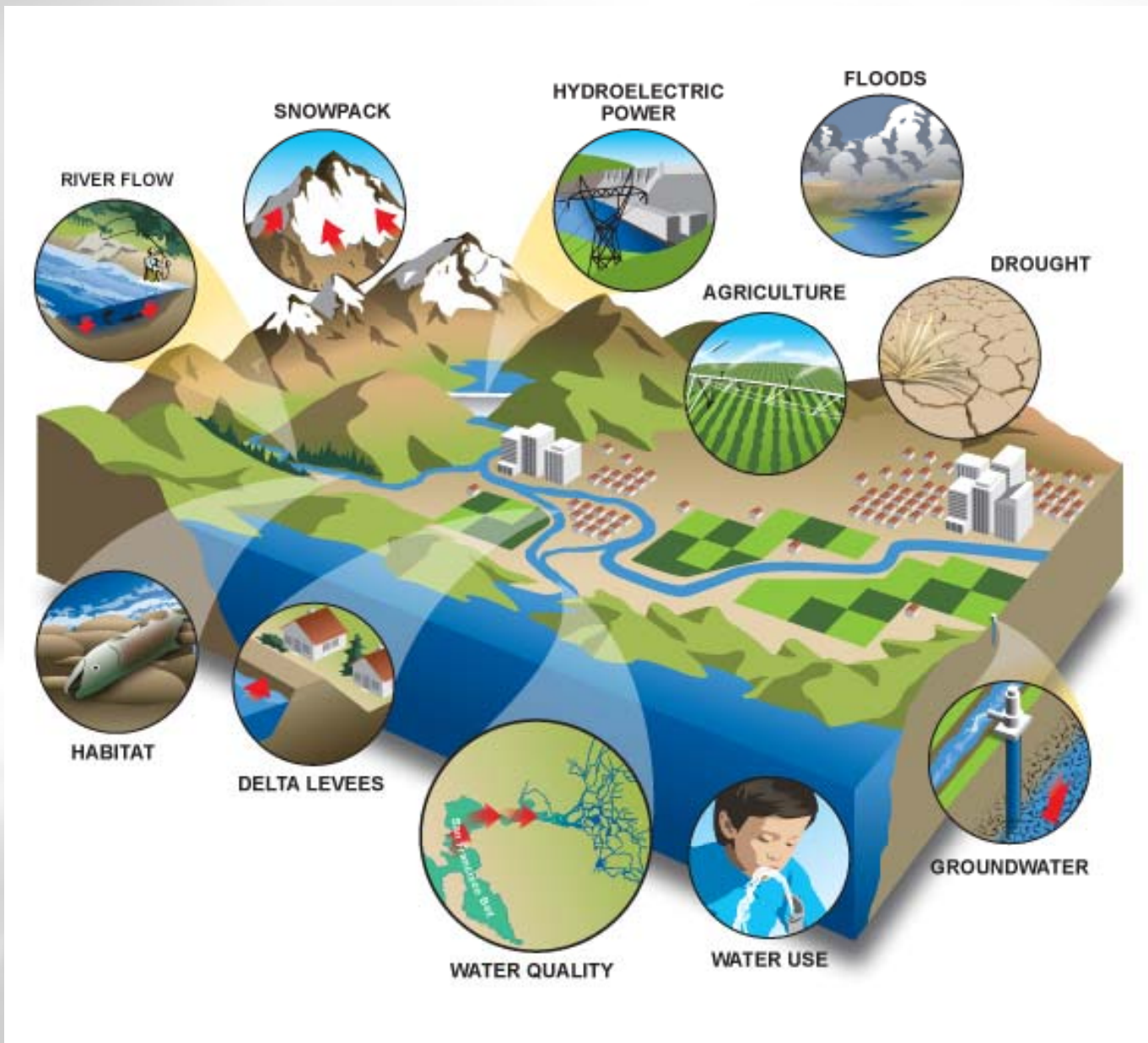
Damaging storms, droughts and related weather phenomena cause an increase in economic and health problems. Warmer weather provides breeding grounds for insects such as malaria-carrying mosquitoes.

Source: Environmental Protection Agency

NATE OWEN/STAFF



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Facts...

- Some 500 million Indians live without electricity!
- India's per capita commercial energy consumption is about 20% of the world average, 4% that of the US and 28% that of China.
- Sustained GDP growth of 8-9% a year is essential to enable India over the next 25 years to lift the bottom 40% of her citizens to an acceptable level of economic & social well being.
- ***This will require provision of modern energy to them. Realistically, this can only come from fossil fuels, which will increase GHG emissions.***



- The income-energy paradox.
- The problem is compounded by the fact that at least in the next 25 years, there is not much scope for the country to move away from conventional fossil fuel (mostly Coal) based power generation.
- Lead by example.
 - Therefore, build up competitive advantage by,
 - Conserving energy;
 - Implementing environment-friendly practices and processes;
 - Adopting green technology in industry and business.
- Our philosophy:
 - Balancing growth with ecological stability without moving away from the profit motive.
 - Embrace the environment not as supplier of raw materials, but as a sustainer of life.





Copenhagen to Mexico

- The Copenhagen Accord – A parallel track.
- Is a voluntary 20-25% cut in emission intensity feasible?
- Clauses in the Copenhagen Accord suggest that all domestic actions by India may be open to international consultations and analysis. This in effect might lead to binding commitments.
- A time-bound agreement required.
- Simultaneously, the need is to provide adequate funding to developing countries for switching over to alternative sources of energy and mitigating GHG emissions.



Options...

- The major consumer of energy, the industrial sector, would have to bear the brunt of emission intensity cuts.
- Energy efficiency target being set for designated consumers, which are energy intensive industries.
- Eight core “national missions” as part of India’s National Action Plan on Climate Change identify measures in eight different realms that promote our development objectives while also yielding co-benefits for addressing climate change effectively.
 - National Solar Mission
 - National Mission for Enhanced Energy Efficiency
 - National Mission on Sustainable Habitat
- White Certificates: The proposed ‘energy saving certificate’ could be made into a tradable instrument. The market for this is above USD 10 billion.





Bengal Chamber Environment and Energy Conclaves *Of the industry, for the industry, by the industry*

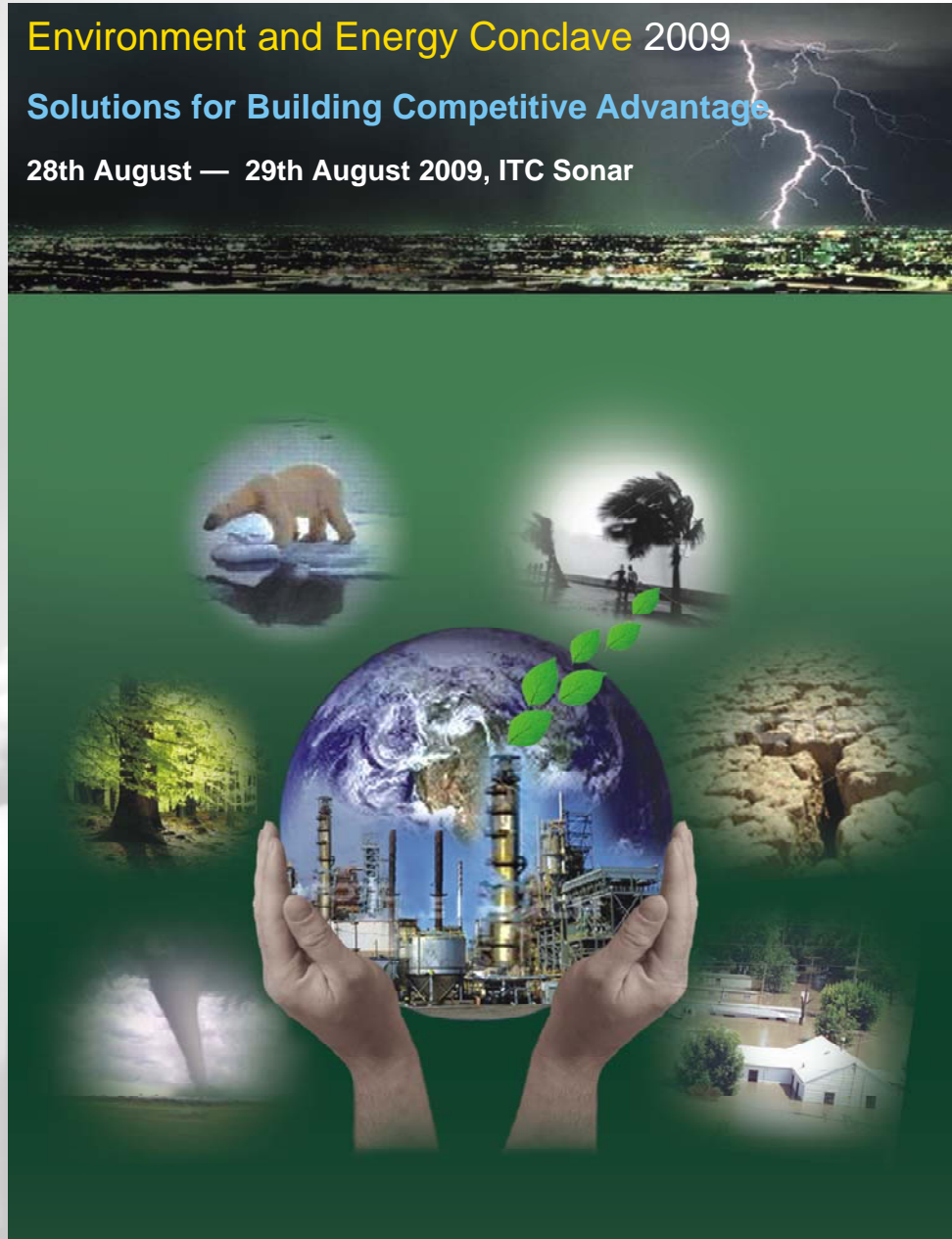
- Create awareness on global and local environmental issues.
- Discuss importance of conservation and efficiency practices.
- Minimizing climatic impact of industrial operation while not deviating from profit motive.
- Impart training and create a knowledge bank on harnessing new opportunities and practices in technology.



Environment and Energy Conclave 2009

Solutions for Building Competitive Advantage

28th August — 29th August 2009, ITC Sonar



The Bengal Chamber of Commerce and Industry

Speakers and Topics

Inaugural Session

Shri Shyam Saran, Special Envoy of Prime Minister
Prof. (Dr.) Bikash Sinha, Former Director, SINP & VECC, Department of Atomic Energy
Mr. Sanjay Wadvani, OBE, Deputy High Commissioner of Britain in Eastern Region
Dr. R K Pachauri, Chairman, IPCC and Director General, TERI (video address)

Session I: Decoupling industrial growth from environmental degradation – Actionable strategies

Prof. N.R. Banerjee, Chairman, WEBEL
Mr. Sutanu Ghosh, Managing Director, Ghosh, Bose and Associates
Mr. S.R. Ghosh, EVP & Head-Plant/Projects, Haldia Petrochemicals
Mr. Sanjib Bezbaroa, Senior Specialist-Corporate EHS, ITC

Session II: Harnessing sustainability for profit – The bottom line on sustainability

Shri Partha S Bhattacharyya, Chairman, Coal India
Mr. Arun Mittal, Vice President, OEM – Auto, Exide
Mr. S. K. Pati, Chief, Power System, Tata Steel
Mr. S Padmanaban, Senior Energy Advisor, USAID
Dr. A.S. Unnikrishnan, Scientist F and DU Leader, Physical Oceanography, National Institute of Oceanography

Session III: Industry-Academia Discussion Forum: From fundamental research to actionable strategies in endeavouring for a carbon positive corporate organization

Shri M K De, IAS, Chairman & Managing Director, WBSEDCL
Dr. Rintu Banerjee, Professor, Agricultural & Food Engineering Department, Indian Institute of Technology, Kharagpur
Prof. Joyashree Roy, Professor of Economics, Jadavpur University
Shri S P Gon Chaudhuri, Managing Director, West Bengal Green Energy Development Corporation
Mr. P K Basu, Director-Technical, CESC Limited

Session IV: CEO's Roundtable: 2012- A likely beginning to new emission reduction commitment including India: Responses and strategies by India Inc.

Mr. Alope Mookherjea, Chairman, Flakt (India) Limited; Hon. Consul, Sweden, & Past President, BCCI
Mr. Pierre Jonette, CEO, ArcelorMittal Design & Engineering Centre
Mr. M S Unnikrishnan, Managing Director, Thermax
Mr. Amitabha Mukhopadhyay, President & CFO, Tata AutoComp Systems

Session V: Clean technologies in industry – R&D and application

Prof. Sujay Basu, Director, Centre of Energy and Environment Management
Mr. Karim Kassam, Director, Business and Corporate Development, Ballard Power Systems (Canada)
Mr. Debabrata Sanyal, Consultant, Descon Limited
Dr. Kalyan Sen, Professor Emeritus, BESU
Mr. Niranjan Khatri, General Manager – Welcom Environ Initiatives, ITC Welcomgroup
Prof. S S Chakraborty, Chairman -cum-Managing Director, Consulting Engineering Services (Represented By: Dr. A S Ray, Chief General Manager)
Dr. Dieter Feldmann, Project Manager Globalization, Europäische Funk-Rundsteuerung GmbH (EFR, Germany)

Session VI: Managing the corporate carbon footprint – Traditional and new approaches

Mr. Dibyendu Basu, Managing Director, DC Industrial Plant Services Private Limited
Mr. Prabir Chatteraj, Additional Director & Chief Coordinator (ER), PCRA
Mr. A B Chakraborty, Group General Manager – Chief CMG & Chief CSR, ONGC
Dr. Dipankar Dey, Associate Dean (Research), IBS, Kolkata

Session VII: Talk Show – Pushing the frontiers of energy

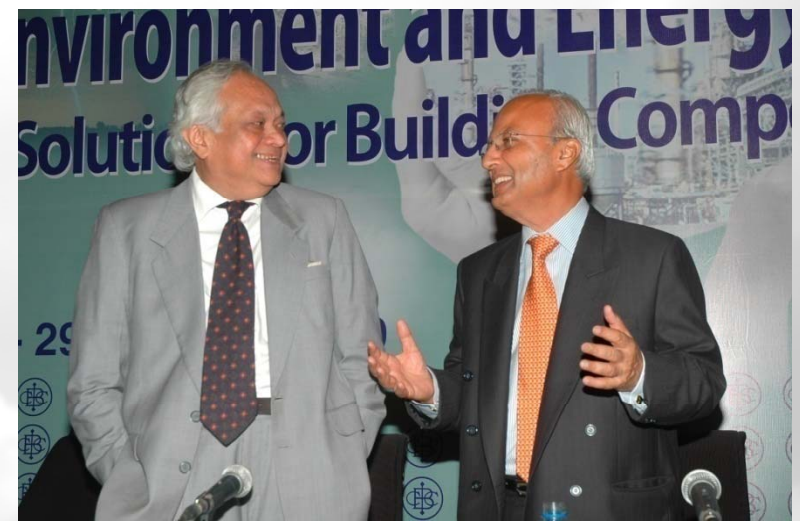
Mr. Nazeeb Arif, VP, Corp. Comm., ITC
Dr. G D Gautama, IAS, Principal Secretary, Deptt. of Power and Non-Conventional Energy Sources, GoWB
Dr. R R Sonde, CTO and EVP – Research, Technology & Innovation, Thermax



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Mr. Anup Singh, President, BCCI (left) with Shri Shyam Saran, Special Envoy of Prime Minister.



Mr. Anup Singh sharing an anecdote with Prof. (Dr.) Bikash Sinha renowned physicist and Former Director, Saha Institute of Nuclear Physics and Variable Energy Cyclotron Centre.



At the podium during the Inaugural Session: Mr. Sanjay Wadvani, OBE, British Deputy High Commissioner in Eastern Region.



The Talk Show on Pushing the Frontiers of Energy L-R: Dr. R R Sonde, Chief Technology Officer and Executive Vice President – Research, Technology & Innovation, Thermax Limited; Mr. Nazeeb Arif, Vice President, Corporate Communications, ITC Limited and Dr. G D Gautama, IAS, Principal Secretary, Department of Power and Non-Conventional Energy Sources, Government of West Bengal





L-R: Shri M K De, IAS, Chairman & Managing Director, West Bengal State Electricity Distribution Company Ltd. and Shri S P Gon Chaudhuri, Managing Director, West Bengal Green Energy Development Corporation Limited during the Industry Academia Discussion Forum.



Prof. N.R. Banerjea, Chairman, WEBEL conducting a technical session.



Shri Partha S Bhattacharyya, Chairman, Coal India Limited.



Mr. M S Unnikrishnan, Managing Director, Thermax Limited.



Mr. Pierre Jonette, CEO, ArcelorMittal Design & Engineering Centre P. Ltd.



Dr. Dieter Feldmann, Project Manager Globalization, Europäische Funk-Rundsteuerung GmbH (EFR, Germany).





The Bengal Chamber of Commerce and Industry

Around 220 participants each day

Feedback

"I wish to congratulate you on the successful conclave. It was useful for me, too, to interact with people from business and media." ***Shri Shyam Saran, Prime Minister's Special Envoy***

"It was my pleasure to speak at the Bengal Chamber's Environment and Energy Conclave and I thank you for the opportunity to share a stage with such eminent experts in the field." ***Sanjay Wadvani, Deputy High Commissioner of Great Britain (Eastern India)***

Overall: "An excellent and outstanding programme with great content, speakers and hospitality of BCCI deserves special mention."



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ENERGY CONCLAVE 2008



*Energy in the Age of
Climate Change
Efficiency, Conservation and New Options*

Friday, 22nd August 2008 & Saturday, 23rd August 2008
ITC Hotel - The Solar - The Luxury Collection
395 Maidan Avenue, Opp. Science City, Kolkata 700 046



THE BENGAL CHAMBER OF COMMERCE AND INDUSTRY



The Bengal Chamber of Commerce and Industry

Speakers and Topics

Inaugural Session

Shri Anil Razdan, IAS, Union Power Secretary
Dr. Kirit S Parikh, Member, Planning Commission
Shri Sunil Mitra, IAS, Additional Chief Secretary, GoWB

Climate Change & Industry – Impact and Measures

Shri Malay K De, IAS, CMD, WBSEDC
Mr. Sanjoy Kumar Chakraborti, ED, CESC
Mr. Subhash Rustagi, EVP, EHS, ITC
Mr Sudipta Das, Partner, E&Y
Mr. Surojit Bose, Assc. Director, PwC

Focus Power – Creating opportunities for sustainable industrial growth

Mr. M.K. Sengupta, GM, DSP
Mr. Mriganka Majumdar, ED, WBSEDC
Dr. R R Sonde, EVP, Thermax Limited
Mr. Rajiv Garg, Energy Economist, BEE, MoP, Gol
Mr. S K Dasgupta, VC, DCL

Energy options in India – Fossil fuel and new and renewable sources

Prof. Sujay Basu

The next steps – New Technology (Renewables: Solar, Wind, Waste to Energy, Biomass, Project Financing)

Mr. Arun Bhalla, EVP, PTC India
Mr. J Mukherjee, MD, GP Green Energy
Mr. Kanad Bose, Regional Head, Vestas
Mr. M S Unnikrishnan, MD, Thermax Limited
Mr. Ramanarayana Parhi, VP, Selco International
Shri S P Gon Choudhuri, MD, WBGEDC

The coal story

Dr. Kalyan Sen, BESU
Mr. P S Bhattacharyya, Chairman, Coal India
Shri P R Mandal, Advisor, Ministry of Coal, Gol
Mr. Purajit Roy, VP, EMTA Group

Tomorrow's Choice (Carbon Footprints,LPG)

Mr. Alope Mookherjea, Chairman, Flakt & IPP, BCCI
Mr. Kailash Mishra, Chairman & CEO, EG Gas Limited
Mr. M S Unnikrishnan, MD, Thermax Limited
Mr. Sudipta Das, Partner, E&Y
Mr. Tapan K Chakravarty, Consultant, Tata Steel



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Left to right: Shri Anil Razdan, Union Power Secretary; Mr. S Radhakrishnan, President, BCCI and Dr. Kirit Parikh, Member, Planning Commission (with the silver salver presented to Dr. Parikh recognizing his pioneering contribution in energy research and energy policy.

A session in progress: Right to left: Shri Subhash Rustagi, EVP, EHS, ITC; Mr. Sudipta Das, Partner, Ernst & Young; Mr. Surojit Bose, Associate Director, PwC; Shri M K De, CMD, WBSEDC; Mr. Sanjoy Chakroborti, ED, CESC.



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Left to right: Prof. Sujay Basu; Shri S P Gon Choudhuri, MD, WB Green Energy Dev. Corp; Mr. M S Unnikrishnan, MD, Thermax.



Shri P S Bhattacharyya, Chairman, Coal India addressing the Conclave. Dr. Kalyan Sen, Professor Emeritus, BESU looks on.





THE BENGAL CHAMBER OF
COMMERCE AND INDUSTRY

Presents

ENERGY CONCLAVE 2008

Energy in the Age of Climate Change
Efficiency Conservation and New Options

22nd & 23rd August 2008



The Bengal Chamber of Commerce and Industry

Environment and Energy Conclave 2010

From Copenhagen to Mexico –
Business Sustainability in Emerging Scenarios

Friday, 27th August – Saturday, 28th August 2010

ITC Hotel - The Sonar - The Luxury Collection

JBS Haldane Avenue, Opp. Science City, Kolkata 700 046



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- ❖ The objective of the 2010 Conclave is to provide the regional forum for visiting the scenarios governing the Indian economy and industry with the Climate negotiations this year in the background.
- ❖ Look at emerging scenarios that would confront industry and the business community.
- ❖ As a leading Chamber of Commerce, our concern is with respect to the cost of adaptation to Climate Change for the country, which is estimated at 2.6 per cent of India's GDP.
- ❖ Importantly, the Conclave will address and try to solve the specific challenges facing Indian industry in the realm of cutting the emission intensity by 20-25%. This is a huge challenge, especially since our growth momentum cannot be compromised with.



❖ **The Conclave will specifically visit the realities in the realm of energy and environment management for industry and bring to board solutions and best practices in the following areas:**

- Climate Change and Business Sustainability
- IPR and Climate Change
- Climate Change, Industrial Progress and the East
- International Perspectives on Climate Action (Focus: Carbon Policy)
- Indian Power Paradox – Options within Coal
- Innovative and Sustainable Technology by Conventional and Alternative Means
- Moving Forward After Copenhagen



Contact:

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