

Special Issue in IJE on:

Climate change effects and Energy development of Bangladesh

Motivations:

The effects of climate change and global warming is evident. Bangladesh is one of the worst victims of global warming. More than 30% of Bangladesh may go under water, above 40 million people have to be shifted to a different place. There is increased risk to human health due to the outbreaks of various infectious diseases, decrease in crop yields due to the loss of cultivable lands as well as increment of temperature which will have a devastating effect in country's food security.

The quality of human life depends to a large degree on the availability of energy sources. However, the present dependence on the fossil-fuel (petrol, gasoline, diesel, oil, coal or gas) based energy systems draws the major concerns in terms of high emission of green house gases (GHGs) and also due to the running out of these sources gradually. Bangladesh is facing a severe electricity crisis for over a decade. Electricity generation almost entirely depends on fossil fuels, mainly natural gas (85 % of total). Total installed electricity generation capacity is 4500 MW of which only 75% are available (25% system loss). It covers only 43% of the total population with par capita electricity consumption of only 165 kWh, which is the lowest in the world. With the growing rate of population and improvement of lifestyle, the electricity demand is increasing by more than 8% annually. Therefore, there are huge plans for the development in energy and power sectors. The main aim regarding the development of power sector should be the production of electricity through renewable and green sources of energy.

The aim is to address all the scientific development in the areas of climate change effects and energy and power development of Bangladesh in this special issue of International Journal of Environment. It will give a proper platform for scientists working in these areas to exchange their latest findings, news, ideas and thoughts. This special issue will be mainly based on some selected articles from the '1st International Conference on Climate change effects and Energy development of Bangladesh (ICCEB)' which was held in the University of Bonn Germany on 21-23 July, 2011. Besides these, some scientifically sound articles will be also accepted after the normal peer review process of the journal.

List the main topics on which submissions to the Special Issue should focus:

Area A: Climate change effects

- a. Climate Hazards and Livelihoods
- b. Climate Change and the Environment
- c. Climate Change and the Geographical Evolution
- d. Climate Change and Public Health
- e. Impact of Climate Change on Agriculture and Livestock
- f. Climate Change and Migration
- g. Climate Change and Human Rights Violation
- h. Adaptation and mitigation of climate change
- i. Flood control and adaptation, River issues and water pollution
- j. Waste management, Air and other pollutions
- k. Forest and biodiversity conservation, Fisheries and marine biology

Area B: Energy and Power development

- a. Electricity problems, generation and development processes
- b. Nuclear power plants
- c. Green/renewable energy sources (Solar energy, Wind power, rain, tides, geothermal energy, biomass, bio-fuel, etc.)
- d. Battery technology (Experimental and Theoretical)
- e. Fundamental Experimental and/or Theoretical study (such as spectroscopic properties, electronic properties, ionic transport and diffusion mechanism, surface and interface properties, corrosion resistance, etc.) regarding Energy development
- f. Low-cost efficient light sources, Green Electronics, Solar-based water supply, Bioenergy, etc.

Last date of Article submission: 5 December, 2011 (those who are not related to the ICCEB, you may also submit your original works!)

Submission Details: Please strictly follow the template provided in International Journal of Environment
<http://benjapan.org/ije/submission.html>

Guest Editors

1. Mazharul M Islam
Secretary, ICCEB-2011
Coordinator, BEN Germany
Mulliken Center for Theoretical Chemistry
University of Bonn, Beringstrasse 6, 53115 Bonn, Germany
2. Wolfgang-Peter Zingel,
Chairman, ICCEB, 2011
Department of International Economics South Asia Institute, Heidelberg University
3. M. Muhibur Rahman
Former Professor, Department of Chemistry, University of Dhaka, Bangladesh

Please submit your papers to the following addresses:

1. Mazharul M Islam
Guest Editor, IJE's Special Issue on "Climate change effects and Energy development of Bangladesh"
Secretary, ICCEB-2011
Coordinator, BEN Germany
Mulliken Center for Theoretical Chemistry
University of Bonn, Beringstrasse 6, 53115 Bonn, Germany
Email: conf-sec@icceb.info
<http://www.icceb.info/2011/home/journal-special-issue.html>
2. M. Ahad
Editor-in-Chief, IJE
Coordinator, BENJapan
Kyushu Institute of Technology, Japan & University of Dhaka, Bangladesh
Email: [atiqahad \[use@mark\] univdhaka.edu](mailto:atiqahad [use@mark] univdhaka.edu)
<http://iciev.org>
<http://ijcvsp.com>
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<http://benjapan.org/IJE>
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