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Rs.2000/- per participant and Rs.600/- per student participant. The group discounts of 25% for Group of 3 participants, and 35% for group of 4 or more participants. The fee waivers for the Authors/Invited Delegates/IPHE Members are also available.

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Call for Paper

The state of art & research works is invited from experts, engineers/other stakeholders in this field. The authors shall submit their papers on A4 size paper in "Times Roman Font" 10pts. with titles in 14 pts (capital bold letters) and sub- headings in 12 pts. (capital bold letters). The margins - one inch both sides, top one & half and bottom one inch. Author's name in 12 pts font, regular & centered, spacing of one line in different sections may be provided.

Last date for Submission - 8th January 2018

Email: singhaljc@gmail.com; cc: rakesh1653@gmail.com

Advertisement/Souvenir

It is proposed to bring out an exclusive souvenir with selected papers/ articles on current practices and place an advertisement in the souvenir. The rates for the advertisement are as follows:

Full page: **Rs. 25,000/-**, Half page: **Rs. 15,000/-**

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Note: **DD/Cheque may be drawn in favor of 'Institution of Public Health Engineers' at New Delhi OR through Cash/ NEFT/ Online Transfer to: 'Institution of Public Health Engineers'; Bank Name: Bank of Maharashtra; Address: Shahajahan Rd, UPSC, New Delhi-11**

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http://ipheindia.org/forth_coming_events

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"National Seminar on

Energy Efficient Green Options: Water and Waste Water Systems"



Date : 18th January, 2018 (Thursday)

**Venue : Seminar Halls, India International Centre,
40 Max Mueller Marg, New Delhi - 110 003**

**Organized by Institution of Public Health Engineers,
Delhi Regional Centre, Delhi,**

Seminar: Overview

Drinking water and wastewater systems consumes huge energy. These utilities can save 15 to 30 percent energy by incorporating energy efficient practices into their water and wastewater plants. This saving can become highly significant looking at the massive growth envisaged for serving a billion plus population. A report of CPCB (2014), estimates present sewage treatment capacity of 23277 MLD, which is slated to grow at a rapid pace. At present, over 1000 Sewage Treatment Plants are working or in the stage of commissioning. Further, thrust is forthcoming with massive financial allocations for installation of such systems under Namami Ganga Projects and other river cleaning projects. The pumping and aeration operations account for considerable energy consumption. Energy consumption in the wastewater industry are rising in India due to many factors viz. Compliance requirements of more stringent effluent regulations may lead to the use of more energy intensive technologies. Natural solar radiation has been used and will continue to be used, either directly or indirectly, in wastewater treatment. Stabilization ponds and solar detoxification—is typically used for wastewater treatment in many countries. Solar evaporation remains the simplest technology for desalination of salty waters, and solar radiation works effectively for water disinfection. Solar PV generates electricity, which can be used to power pumps, ultraviolet (UV) systems, photo catalysis, reverse osmosis (RO), and conventional surface-water treatment systems. Similarly, wind energy can be used to either pump water mechanically (using windmills). The electricity produced from the wind turbine can be used to energize pumps, treat or disinfect water. Windmills start pumping at speeds between 2.5 and 3.5 m/s, while electrical wind turbines need an average wind speed of 5–6 m/s to become competitive with windmills for water-pumping applications. Water and wastewater utilities are increasingly looking for innovative and cost-effective energy management opportunities to reduce operating costs (through energy efficiency/audit), mitigate contributions to climate change through adoption of renewable energy/energy saving, and increase the resiliency of their operations particularly in locations with unreliable grid supply. There is no dispute that some extraordinary urgent actions are warranted for adopting/ testing innovative approaches/technologies that show potential for energy savings and relatively short payback periods. Pilot studies may be carried out in Smart city utilities and later extended to the rest of the country.

Keeping in view the need of the hour, IPHE, Delhi Regional Centre (DRC) intends to organize a one-day Seminar to bring various domain experts on one platform to put forth innovative ideas, scientific analysis and come out with effective green energy solutions as smart options.

This seminar is intended to serve as a forum to focus on the present innovations being made in the development and application of alternate/ renewable sources of energy for water and wastewater infrastructures in India with the help of relevant case studies and best practices for meeting the challenges in the planning, implementation, operation & maintenance processes of these systems.

Who Should Participate

This endeavour is open to those who are concerned with growing energy needs and associated problems. IPHE-DRC would like to invite Scientists from DST/CSIR/Technical Institutes; Professionals & Academicians, energy auditors; Senior officers from, Ministry of Drinking Water Supply and Sanitation/ New & Renewable Energy and their State nodal agencies & channel partners/ Water Resources, RD & GR/Environment, Forest & Climate Change; manufacturers/ dealers of water/wastewater machineries; Senior Engineers of State Public Health Engg./Water Supply & Sewerage Deptts./Boards, Municipal Corporations; administrators, Programme Managers of Municipal Corporations/ Local Bodies, Environmentalists, Urban Planners, Regulators; public & private corporates. Social scientists from NGOs and Civil society activists etc. are also invited to participate. The students & young professionals are especially encouraged to attend the deliberations. It is expected that more than 150 delegates would attend this important Seminar.

Expert Speakers

The prime objective of this one-day endeavor is to raise the public awareness on Energy efficiency and use of Renewable energy options by bringing together various experts/stakeholders on one platform.

Experts from academic institutes, researchers in the field, scientists, engineers with operational experience and social scientists having expertise in the respective domains are going to discuss various facets of the issues during this Seminar.

The List of speakers would include the Senior Engineers/ Officers from Ministries of New & Renewable Energy; Drinking Water Supply and Sanitation; State Renewable Energy Agencies/ Central, State PSUs; Academic/ R&D Institutions; Manufacturing Industries/ Sectoral Companies; IPHE; IE(I); IWWA; IWE etc., B.E.E /BIS/ National Productivity Council, State PHED/Local Bodies/Jal Santhans, Consultant /Professionals/other Stakeholders

Scope and Structure of Seminar/ Themes

Presentation of Papers& Reports /Case Studies/ Discussions by the expert speakers, programme managers/ administrator & regulators would be covered under different associated themes.

- Concept of Energy Efficiency and Energy Audit
- Approved BEE equipment used in Water/Wastewater Systems
- ICT, Control System and automation of operation for energy economy
- Application of renewable energy option for water and wastewater system and Exploring wiser energy options in STP/ETP
- Case study on Financial and Environmental implications of Energy Efficient, Energy Optimization, Smart and Green option of O&M of Water and Wastewater system
- Optimal use of Electro-Mechanical equipment in conveyance system in water / wastewater and Industrial effluent treatment.

Outcome of Seminar

Recommendations as a way forward of this seminar will be drawn which would be useful to the Government in drawing up a road map for adopting green energy options in the government sponsored programmes to enhance cost effectiveness and sustainability of the services and much beneficial to concern agencies including private players as well.

About the Organizers

Institution of Public Health Engineers (IPHE), India (www.ipheindia.org): IPHE, India is a non-profit & premier forum of public health and environmental engineers of the country Established in 1972 as a modest society, today IPHE has 16 regional centres in the country with its headquarters located in Salt Lake City, Kolkata. The membership of the institution is open to public health and environmental engineers or equivalent. The institution undertakes a diversified spectrum of activities such as organizing seminars, symposia, workshops and training courses; undertaking R&D projects, consultancy services and publication of quarterly technical journals.

IPHE India, Delhi Regional Centre, has been active from the early 1980s. In 1996 under the chairmanship of P.T. Gurnani, former Chief Engineer, Delhi Jal Board (DJB), the Delhi Centre had organized the Water Engineering and Development Centre (WEDC) international conference titled 'Reaching the Unreached: Challenges for the 21st Century' which was inaugurated by the then Hon'ble Prime Minister H D Deve Gowda. There were over 125 international delegates, over 400 national delegates and about 119 papers were presented. The present executive council of IPHE, Delhi Centre assumed office on October 31, 2011 under the leadership of Dr. Dinesh Chand, who is also working as Additional Adviser, Ministry of Drinking Water and Sanitation, Government of India and has organized several major workshops/seminar/conferences for 75-200 participants and many other lectures/ talks.