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**Dr. Shiv Kumar Dube**, Senior Fellow, TERI

**Mr. Gopi Kanta Nayak**, Additional GM, NETRA, NTPC

## Conference Coordinator

**Dr. Shresth Tayal**, Fellow, TERI

## About Host

**TERI**, Headquartered in New Delhi, India, is an autonomous, not – for – profit international organization and think tank, actively engaged in multidisciplinary research on natural resources management and conservation, for more than three decades. TERI has an extensive global outreach, with presence in North America and Europe and active presence in CIS countries, Central Asia and Middle East, South Asia, Japan and Africa. Through its research, TERI has made significant contribution to the society.

**NTPC** is India's largest power utility with an installed capacity of 47,178 MW, plans to become a 128,000 MW company by 2032. Established in 1975, NTPC aims to be the world's largest and best power major. NTPC has comprehensive Rehabilitation & Resettlement and CSR policies well integrated with its core business of setting up power projects and generating electricity. The company is committed to generating reliable power at competitive prices in a sustainable manner by optimising the use of multiple energy sources with innovative eco-friendly technologies thereby NTPC is contributing to the economic development of the nation and upliftment of the society.

## Sponsorship Details

Category	Amount	
	INR	USD
Session Sponsorship	800 000	15 000
Diamond	600 000	12 000
Platinum	400 000	10 000
Gold	200 000	8 000
Silver	100 000	5 000

Sponsors may contact at the address given below

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# Reducing Water Footprints of Thermal Power Plants in India

5 and 6 December 2016

*Conference in Technical Collaboration with  
NTPC Energy and Technological Research Alliance  
(NETRA)*

*Supported by  
Shakti Sustainable Energy Foundation*



## VENUE

India Habitat Centre, Lodhi Road, New Delhi

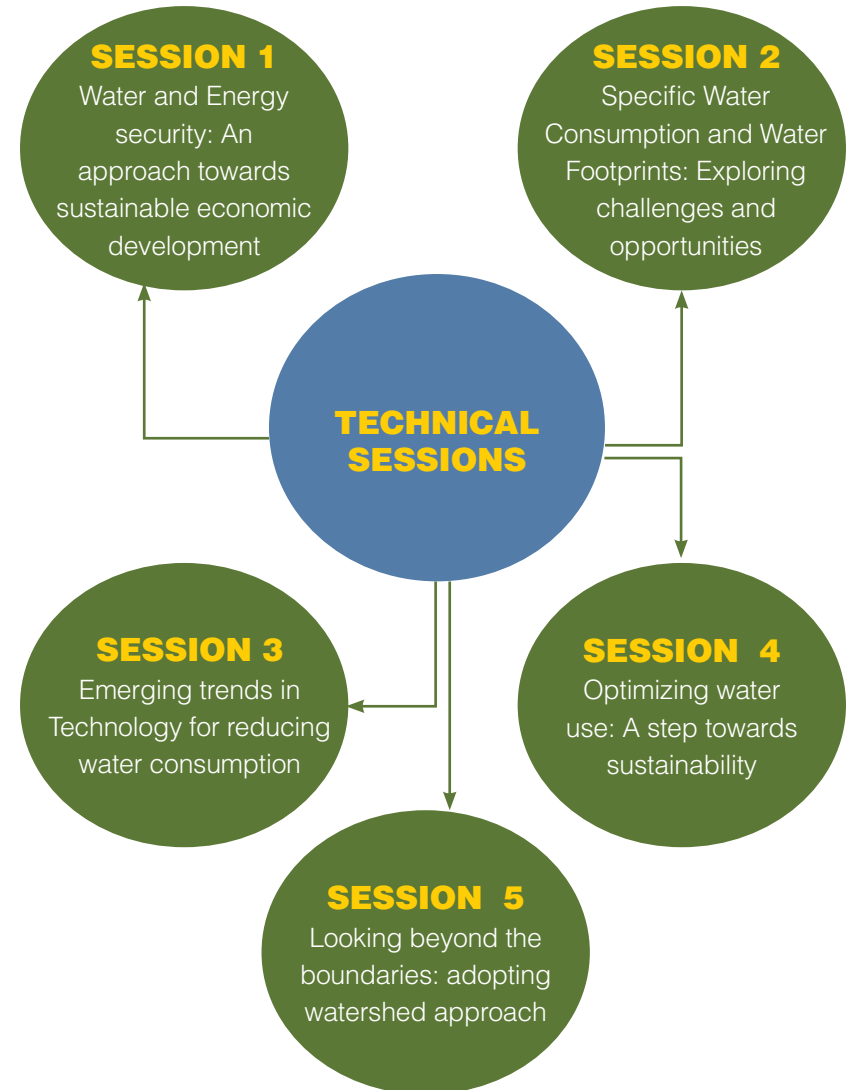
## Background

Thermal Power Plants are reported to be accounting for 87.8% of total industrial water consumption in the country. Average consumptive water requirement for coal based plants with wet cooling towers in India is about 5-6 m<sup>3</sup>/h per MW. As such, thermal power production in the country is consuming at least 16.8 million m<sup>3</sup> of water per day at 80% load factor, which is equivalent to per capita water requirement of about 20% population of the country.

Ministry of Environment, Forests and Climate Change has stipulated rules for water consumption by thermal power plants, and has asked them to reduce their maximum specific water consumption to 3.5 m<sup>3</sup>/hr per MW by 2017. Once implemented, it has a potential to save water equivalent to per capita water requirement of about 8% population of the country.

However, considering the increase in thermal power production capacity under the normal scenarios, the benefits accrued due to reduction in specific water consumption will be limited. With future increase in demand for water from other sectors, overall water scarcity may resurface and reducing specific water consumption by thermal power plants will only be a temporary respite. Hence, a more holistic approach dealing with the reduction and offsetting the impacts of direct water footprints of thermal power plants is required, which may ultimately lead to water neutral electricity production in the country.

Considering this significance, The Energy & Resources Institute (TERI) in technical collaboration with NTPC Energy Technology Research Alliance (NETRA) is organising a conference to explore challenges and opportunities for reducing water footprints of thermal electricity production in the country.



## Registration

For registration, please send your details (Name, Organization, Designation, Address, Cell No. and Email) to the conference coordinator. Registration will be confirmed by the organisers through mail.

