

Sanjeev Banzal



PhD Scholar

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Supervisors:

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PROFILE

Sanjeev Banzal is working as the Director General, Education and Research Network India (ERNET India), an autonomous scientific society within the Ministry of Electronics and IT, Govt. of India. He is an ICT professional with more than 32 years of rich experience in policy making & advocacy at Department of Telecom, Bharat Sanchar Nigam Limited (BSNL), and Telecom Regulatory Authority of India (TRAI).

As the Director General of ERNET India, his main objective is to transform education sector using ICT particularly in rural and inaccessible areas of the country by providing the education institutes with digital infrastructure and connectivity.

PhD RESERACH

Title of PhD Thesis: Policy analysis on green energy for Telecom towers in India.

Brief about PhD Research:

India has about 1.2billion mobile subscribers which are provided mobile and broadband services using over 810,000 telecom towers. Power to the towers is fed mainly from Grid & Diesel Generator sets. As telecom towers consumes about 65% of the total power required to run telecom systems, they make substantial contribution to the emission of GHGs affecting the climate.

In the past for about 15 years, though efforts have been made to create policies on greening the telecom sector to reduce dependence, significant gaps persist including inconsistent renewable energy adoption and still high dependency on diesel generators.

This research will identify gaps between policies and implementation, challenges and barriers in adoption of green energy for the telecom towers and identifying areas of improvement. Addressing the concerns of the telecom towers industry by way of necessary policy interventions can align India's telecom sector with sustainable development goals, by reducing environmental impact and set a model for the green energy to the telecom sector.