

# Synergising Innovations in Clean Energy and Green Transportation Technologies for the Sustainable Future



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## Abstract

Sustainable development of cities and towns is expected to be considerably dependent on the use of clean energy and green transportation system with objectives for reducing pollution, minimizing congestion, improving efficiency, reliability, and quality. Innovations in energy conservation, energy efficiency, clean and renewable energy technologies along with smart grid, micro grid, smart meters, and the use of artificial intelligence have been reported worldwide. Autonomous electric vehicles and zero-emission green vehicles have started making inroads in metro and megacities. Therefore, synergizing innovations in clean energy and green transportation technology have a crucial role in transforming the sustainable connectivity of the future. Such synergy can substantially improve air quality, environment, connectivity, and efficiency. This presentation highlights innovations in clean energy and green transportation technologies, policies, and practices for such transformation. Current trends, potential research & development projects, technology policy and governance issues which various stakeholders can collaborate on and how youths can be engaged in inspiring and enriching such programmes will, also, be discussed.

## Biography

**Dr. Deepak L. Waikar** (Managing Partner for EduEnergy Consultants LLP, Singapore, and Training Adviser for Tacstra Solutions Pte Ltd, Singapore, and Vice Chair of the IEEE Education Society Singapore Chapter) has been involved in education, training, research, and management fields for almost three decades. As Assistant Director of National Power Engineers Training Institute, Nagpur India, he was extensively involved in various aspects of training & development. He has authored/co-authored book chapters, research articles, and policy papers on power, energy, management, and education related topics. He has served on various committees of **professional bodies** such as **Chairman** of the IEEE, Power Engineering Chapter, Singapore, and Vice Chairman of **World Energy Council**, Singapore. He is a recipient of the IEEE Power Engineering Society's **Outstanding Power Engineers' Award** 2003 and the SP-Green Buddy Award 2004. Dr. Waikar has been a member of the Board of Examiners of the **Singapore Certified Energy Manager's** programme. He has delivered invited presentations on power, energy, education, management, and leadership related topics at the international conferences, seminars, and forums in North America, Australia-New Zealand, Europe, and Asia. Dr. Waikar is a Senior Member of the IEEE USA and a life member of the Institution of Engineers, India. Dr. Waikar completed **Ph.D.** (the National University of **Singapore**, **M.S.** (the University of Saskatchewan, **Canada**) and Professional Development Certificate of University Teaching (University of Newcastle, **Australia**). He also obtained PG-DBM (**Nagpur** University), M.Tech. (**IIT-Banaras** Hindu University) and B.E. (The **Government** Engineering College, Aurangabad) in **India**, respectively. His interests include **Sustainable Energy Leadership** Development, Re-inventing & **Transforming** Education, **SMART** Model for Talent Development & Leadership, **Innovative Project Design**, Management, and **Sustainable** Development. <https://www.linkedin.com/in/dr-deepak-waikar-640a6521/>