

Brief CV

Name: Sivanappan Kumar (S. Kumar)

Title/position: Professor in Energy

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For detailed information regarding Professor Kumar's academic activities, research involvement, publications, etc, please visit www.faculty.ait.ac.th/kumar

Sivanappan Kumar is Professor at the Energy Program, Department of Energy, Environment and Climate Change, School of Environment, Resources and Development, Asian Institute of Technology (AIT).

In his academic career of three decades, he has been involved in teaching, research, training, and outreach in the areas of renewable energy resources and technologies, climate change and greenhouse gas mitigation, and energy and sustainable development. He also has held senior academic positions at the institute during this period.

Teaching: He has taught a wide variety of courses for students at masters and PhD level dealing with energy resources, energy technologies, solar energy, design of energy systems, energy and climate change, sustainable development, as well as on energy issues and communication.

Currently, he is teaching the following courses: Energy access in rural and isolated areas; Energy efficiency for sustainable energy transition; Energy technology, transition and sustainability; Solar electricity systems: Design, installation and performance evaluation.

Student supervision: He has supervised twenty three doctoral students and one hundred and eighteen masters students, from twenty countries in Asia and Europe.

Publications: He has published more than seventy book chapters/monographs and more than one hundred peer reviewed journal articles. He has presented more than seventy five papers in conferences, seminars and workshops, and more than forty key note lectures. For details, please visit www.faculty.ait.ac.th/kumar

Scopus h index: 33; Number of citations: 3274. g index: 57.

Sponsored projects: Professor Kumar has extensive experience in carrying out research and research collaboration in

- South Asia (Afghanistan, Bangladesh, Bhutan, India, Nepal, and Sri Lanka),
- South East Asia (Cambodia, Indonesia, Laos PDR, Malaysia, Myanmar, Philippines, Thailand, and Vietnam),
- Central Asia (Kazakhstan, Uzbekistan, Moldova), and
- China and Mongolia.

His research has been in the areas of renewable energy resource assessment, solar thermal and photovoltaic technologies, energy efficiency in buildings and industries, Technology Needs Assessment for greenhouse gas mitigation, energy access, low carbon and smart cities, low carbon energy systems and green growth, and Sustainable Development Goals. He has been involved as principal investigator in more than ninety projects sponsored by development agencies, governments, private sector, UN agencies and non governmental organisations with a total budget of more than US\$ 9.5 million. The type of sponsored activities were in research and development, equipment testing and capacity building programmes.

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Outreach: He is the Editor of International Energy Journal (formerly RERIC International Energy Journal), a quarterly publication. He served as Vice Chair of the Prosper.Net Board during 2016 – 2018. He was a Guest Professor at Tongji University, Shanghai, PR China. He was Secretary of the International Association for Solar Energy Education (IASEE) during 1997-1999.

He has provided his expertise to the following organisations; UN (UNDP, UNESCO), CANMET, ADBI, Economic Research Institute for the ASEAN and East Asia (ERIA), EEP in the Mekong, etc.

Administration: He served as the Vice President for Academic Affairs at AIT during April 2013 – March 2019. He had also served as Dean of the School of Environment, Resources and Development at AIT during October 2005 – August 2009. He has also served as Chair, Doctoral Progress Review Committee and Energy Program Coordinator.

Education: Professor Kumar received his B. Eng (Honours) in Mechanical Engineering from Government College of Technology (Coimbatore), University of Madras, India; Master of Engineering (Energy Technology) from Asian Institute of Technology (AIT), Thailand; and Ph.D from Institut National Polytechnique de Toulouse, France.

Earlier, he was

- Reader at the School of Energy, Environment and Natural Resources, Madurai Kamaraj University, Madurai, India, and
- Program Research Fellow of the International Centre of Theoretical Physics (ICTP) at the University of Ancona, Ancona, Italy.

Research Areas: renewable energy resources and technologies, energy and sustainable development, and climate change mitigation

For detailed information, please visit For details, please visit www.faculty.ait.ac.th/kumar, or contact kumar@ait.ac.th

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