

VIT[®]
Vellore Institute of Technology
(Deemed to be University under section 3 of UGC Act, 1956)
CHENNAI



Online International Conference on

“Sustainable Smart Cities Integrated with Clean Energy Sources (SCES 2024)”

Sponsored by

“Shastri Conference & Lecture Series Grant (SCLSG)-Shastri Indo-Canadian Institute (SICI)”

1-2, February, 2024

*Organized by Centre for Smart Grid Technologies & School of Electrical Engineering,
Vellore Institute of Technology, Chennai*

About SICI:

The Shastri Indo-Canadian Institute (SICI) is a unique bi-national organization, mandated by governments of India and Canada to promote, facilitate and nurture academic linkages, collaborations & exchanges, research partnerships, and networks on bi-national corridors. With its physical presence in New Delhi, India and Calgary, Canada, and a strong base of 154 Indian and 38 Canadian member institutions, for past 54 years, SICI is the only organization in the Canada-India higher education corridor that is instrumental in building and strengthening intellectual and cultural relationship through research and dialogue. Funded by the Ministry of Education, Government of India, it supports diverse disciplines including Social Sciences, Humanities, Science & Technology, Biotechnology, Agriculture, Arts, Literature, Culture, Law, Business, Economic Reform, etc. and covers all levels of higher education from undergraduate to postdoc and from faculty to collaborative research.

About VIT Chennai:

Being founded in 1984, VIT has made a mark in the field of higher education in India imparting quality education intertwined with extensive application-oriented research in a multi-cultural ambience. VIT was established with the aim of providing quality higher education in accordance with International Standards. It persistently seeks and adopts innovative methods to improve the quality of higher education on a consistent basis. VIT was established by the well-known educationalist and former parliamentarian, Dr. G. Viswanathan, Founder and Chancellor, a visionary who has transformed VIT into a center of excellence in higher technical education. Govt. of India recognized VIT as an Institution of Eminence (IoE). ARIIA, Govt. of India recognized VIT as a No. 1 Private University for Innovation. VIT Ranked among the top 601-700 Universities of the world and one of the top 3 Institutions in India (Shanghai ARWU Ranking 2022), Engineering and Technology subject areas of VIT are the 240th best in the World and the 9th best in India as per QS World University Rankings by Subject 2022, Ranked 173 in QS Asia University Rankings 2023. The 8th best University, the 11th best research institution, and the 11th best engineering institution in India (NIRF Ranking, Govt. of India 2023). VIT got NAAC Accreditation with an A++ grade in the 4th cycle. VIT Chennai is ably spearheaded by Vice Presidents Dr. Sekar Viswanathan, Dr. G.V.Selvam and Mr. Sankar Viswanathan, Assistant Vice President Ms. Kadhambari S. Viswanathan, and Vice-Chancellor Dr. V. S. Kanchana Bhaaskaran,

The focus is:

- To maximize the interactive industrial connectivity
- To create centers of excellence in niche areas
- To enrich technological and managerial human capital nurtured in a multicultural ambience.
- To provide a common platform for the agglomeration of ideas of personnel from various walks of life for learning enrichment
- To create opportunities and exploit the available resources to benefit industry and society
- To encourage participation in the National Agenda of knowledge building
- To foster international collaborations for mutual benefits in areas of research.

About SCES 2024:

Energy output is measured in smart cities to help with supply and demand analysis. Energy is created, stored, and distributed more effectively in this way. Renewable energy sources such as solar, wind, and geothermal will be effectively used to power the load in a community in a smart and sustainable way. Generation, storage, and consumption are all combined in smart grids. In order to compensate for power variations in the grid, particularly those caused by variable renewable energies, a central control system ideally coordinates them with one another. Information and communication technology (ICT) is present in a smart grid. This makes it possible for utilities and customers to communicate in real-time. By doing this, a more dynamic interaction in the flow of energy is produced, which in turn can help to produce a power supply that is more

efficient and sustainable. Therefore, smart cities have a range of options for using renewable energy sources, saving money, and reducing greenhouse gas emissions. Although there are many choices, there isn't a single, universal remedy for the existing cities. If the existing cities are to be strong and resilient in the future, these cutting-edge strategies must be incorporated with a strong commitment to the United Nations Sustainability Goals.

Conveners:



Dr. O.V. Gnana Swathika
Associate Professor,
Centre for Smart Grid Technologies,
Vellore Institute of Technology, Chennai,
TamilNadu, India . 600127
Email: gnanaswathika.ov@vit.ac.in

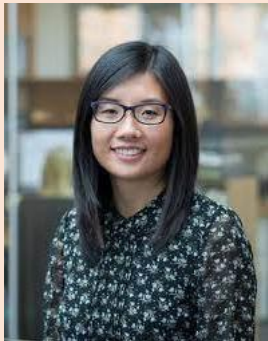


Dr.S.Angalaeswari
Associate Professor,
School of Electrical Engineering,
Vellore Institute of Technology, Chennai,
TamilNadu, India, 600127
Email ID : angalaeswari.s@vit.ac.in



Dr. V. T.Sreedevi
Director
Centre for Smart Grid Technologies,
Vellore Institute of Technology, Chennai,
TamilNadu, India, 600127
Email ID sreedevi.vt@vit.ac.in

Keynote Speakers:



Dr. Yu Chen,
Associate Professor,
University of British Columbia,
Canada



Dr.L.Ashok Kumar
BHAVAN & SYST FELLOW
Professor, Department of EEE,
PSG College of Technology,
Coimbatore-641004, TamilNadu,India.



Mr. K. Karthikeyan
Chief Engineering Manager,
Larsen & Toubro Ltd.,
Chennai, India



Mr. Karan Pande,
Field Sales Engineer,
Americas East at Power Integrations,
Canada



Mr. K. Boopathi,
Director & Division Head,
R&D and Resource Data Analytic and Forecasting,
National Institute of Wind Energy, India



Dr. G. Balamurali,
Executive Engineer, Load Despatch & Grid operation
TANTRANSCO, India



Mr. Francis Suresh Balan,
Director,
CGS Green Sustainergy Private Ltd,
India



Dr. D. Ezhilarasi,
Associate Professor,
National Institute of Technology,
Tiruchirappalli, India

Schedule for keynote session:

Date	9.30am-10.30am	10.30am-11.30 am	2pm to 3pm	3pm to 4pm
1 st February 2024	Mr. Karan Pande, Field Sales Engineer, Americas East at Power Integrations, Canada	Mr. K. Boopathi, Director & Division Head, R&D and Resource Data Analytic and Forecasting, National Institute of Wind Energy, India	Dr. G. Balamurali, Executive Engineer, Load Despatch & Grid operation TANTRANSCO, India	Dr. L. Ashok Kumar, Professor, Department of EEE, PSG College of Technology, India
2 nd February 2024	Dr. Yu Chen, Associate Professor, University of British Columbia, Canada	Mr. K. Karthikeyan, Chief Engineering Manager, Larsen & Toubro Pvt. Ltd., India	Mr. Francis Suresh Balan, Director, CGS Green Sustainergy Private Ltd, India	Dr. D. Ezhilarasi, Associate Professor, National Institute of Technology, Tiruchirappalli, India

Registration Link:

Interested participants are invited to attend the conference by registering in the below link before 25/1/2024. Conference link will be shared to the registered participants.

<https://tinyurl.com/SCI-SCES2024>