



BULLETIN



Prof.Dr.D.ELANGO,FIE
Chairman

Dr.J.BALAMURUGAN,FIE
Honorary Secretary

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From the Chairman's Desk.....



Dear Fellow Engineers,

My heartfelt greetings to all my esteemed members!

It is with immense pride and profound gratitude that I extend my heartfelt thanks to all members of The Institution of Engineers (India) Tamil Nadu State Centre on the prestigious occasion of the 40th Indian Engineering Congress, held at NIT, Durgapur, on 20th December 2025, during which the Institution of Engineers (India), Tamil Nadu State Centre was honoured with the Best State Centre Award for the year 2024–25.

This remarkable achievement is a collective success, made possible through the dedication, commitment, and active participation of our members. Once again, I offer my sincere thanks to each one of you. I am confident that the proud legacy of IEI, Tamil Nadu State Centre will continue to flourish and attain even greater milestones in the years ahead.



The Best State Centre Award being received from the Chief Guest, Dr. Ajaykumar, Chairman, Union Public Service Commission, during the 40th Indian Engineering Congress by Dr. G. Ranganath, Immediate Past President, IE(I); Dr. V. Karthikeyan, Immediate Past Chairman, IE(I) TNSC; Er. D. Gokul, Immediate Past Honorary Secretary, IE(I) TNSC; and Prof. Dr. D. Elango, Chairman, IE(I) TNSC.



TNSC Team honoured with the Best State Centre Award

I am delighted to share that the Institution of Engineers (India), Tamil Nadu State Centre celebrated Energy Conservation Week for the first time from 13th to 19th December 2025. The programme was graced by Dr. Kishor Kumar Tripathy, Member Secretary, Auro Bharati, Sri Aurobindo Society, Pondicherry, as the Chief Guest, and Dr. V. S. Sriraja Balaguru, Assistant Executive Engineer, TNPDC, as the Guest Speaker. The week-long celebration featured various engaging activities such as a Guest Lecture, Drawing Competition, Poster Presentation, Pitch Presentation, and Debate, encouraging awareness and participation across all sections.

Further, I am pleased to inform you that the Founders' Day was celebrated on 22nd December 2025 at the IE(I), TNSC Auditorium, Chennai.

The event was graced by Dr. J. Daniel Chellappa, Eminent Nuclear Scientist, Chennai, as the Chief Guest, and Er. D. Suresh, popularly known as "Solar Suresh", a noted Green Enthusiast, as the Guest of Honour.

I also request all current Corporate Members to complete the "Know Your Membership (KYM)" form to help us update and maintain an accurate membership database. Your cooperation is vital for ensuring seamless communication and effective delivery of member benefits. The completed form may be submitted in person at the IE(I) Tamil Nadu State Centre office or sent via email to ieitamilnadu@gmail.com or tncs@ieindia.org.

With warm regards,

Prof.Dr.D.ELANGO, FIE.,
Chairman, IE(I) TNSC

From the Hon. Secretary's Desk.....



Dear Corporate Members,

Greetings from the Institution of Engineers (India) Tamil Nadu State Centre !

Engineering Era – A Call for Unified Action and Sustainable Innovation

We are living in a true **Engineering Era A Call for Unified Action and Sustainable Innovation** — where progress is driven not by isolated effort, but by strong professional networking and interdisciplinary collaboration. From the wheel to intelligent robots in Industrial Revolution 5.0, every breakthrough is powered by connected engineering knowledge.

I invite engineers from all disciplines to share efficiency improvement practices from their respective domains. Engineering is not just invention- it is continuous improvement, performance optimization, and strict quality adherence. We - across nearly 15 major engineering disciplines, cross

learning can significantly improve systems and processes.

Japan, even after WWII devastation, rebuilt itself through disciplined and sustainable engineering — from pottery to automobiles, from music instruments to global quality systems like 5S and certification frameworks.

Our nation, though historically exploited, is now gifted with one of the world's largest human resources, in our Tamil Nadu State Centre connecting over 30,000 engineers together nationally connected with more than 2.5 lakh professionals. Yet more than 1.5 lakh engineers graduates every year from South India alone - we must bridge this integration gap. **Membership Drive by all the local centers is the need of the hour in all means.**

We must unite to build a structured pathway for futuristic and sustainable engineering development. Since everything is powered by energy — industry, mobility, and even space missions — engineers must actively support sustainable energy efforts.

As we mark 100 years of engineering legacy, the next step is to build a unified digital technical knowledge repository — functioning like a virtual university under the IEI banner — to support future innovators.

Let us energize and unify the engineering community for sustainable progress and technological leadership.

பொறியியல் காலம் – ஒருங்கிணைந்த செயலும் நிலையான புதுபிக்ககும் தன்மையை ஊக்குவிக்க அழைப்பு

நாம் உண்மையான பொறியியல் காலம் – ஒருங்கிணைந்த செயலும் நிலையான புதுபிக்ககும் தன்மையை ஊக்குவிக்க அழைப்பு – தனிப்பட்ட முயற்சியால் அல்ல, வலுவான தொழில்முறை வலையமைப்பு மற்றும் பல்துறை ஒத்துழைப்பால் முன்னேற்றம் உருவாகிறது. சக்கரத்திலிருந்து Industrial Revolution 5.0 இன் புத்திசாலி ரோபோட்டுகள் வரை, ஒவ்வொரு முன்னேற்றமும் இணைந்த பொறியியல் அறிவால் உருவாகியுள்ளது.

அனைத்து துறைகளிலுமுள்ள பொறியாளர்கள் தங்கள் துறைகளில் செயல்திறன் மேம்பாட்டு முறைகளை பகிர்ந்து கொள்ள அழைக்கிறேன். பொறியியல் என்பது கண்டுபிடிப்பில் மட்டும் இல்லை – தொடர்ச்சியான மேம்பாடு, செயல்திறன் உயர்வு, மற்றும் தரநிலைகள் கடைபிடிப்பதில்தான் உள்ளது.

நமது 15 முக்கிய பொறியியல் துறைகளில் பரிமாற்றக் கற்றல் நடைமுறைப்படுத்தப்பட்டால், மொத்த அமைப்புகளும் செயல்முறைகளும் பெரிதும் மேம்படும்.

இரண்டாம் உலகப்போருக்குப் பிறகு பெரும் அழிவை சந்தித்த ஜப்பான் கூட கட்டுப்பாடான மற்றும் நிலையான பொறியியல் நடைமுறைகள் மூலம் மீண்டு வளர்ந்தது – மண்பாண்ட கலை முதல் கார்கள் வரை, இசைக்கருவிகள் முதல் 5S போன்ற உலக தர மேலாண்மை முறைகள் வரை.

வரலாற்று ரீதியாக சுரண்டப்பட்ட நமது நாடு, இப்போது உலகின் மிகப்பெரிய

மனித வளங்களில் ஒன்றைப் பெற்றுள்ளது. நமது TNSC, 30,000க்கும் மேற்பட்ட பொறியாளர்களை தேசிய அளவில் 2.5 லட்சத்திற்கும் மேற்பட்ட நிபுணர்களுடன் இணைக்கிறது. இருப்பினும், தென்னிந்தியாவிலிருந்து மட்டும் ஒவ்வொரு ஆண்டும் 1.5 லட்சத்திற்கும் மேற்பட்ட பொறியாளர்கள் பட்டம் பெறுகிறார்கள் - இந்த ஒருங்கிணைப்பு இடைவெளியை நாம் நிரப்ப வேண்டும். **அனைத்து உள்ளூர் மையங்களிலும் உறுப்பினர் சேர்க்கை என்பது எல்லா வகையிலும் காலத்தின் தேவையாகும்.** 

எதிர்கால மற்றும் நிலையான பொறியியல் வளர்ச்சிக்கான திட்டமிட்ட பாதையை உருவாக்க நாம் ஒன்றிணைய வேண்டும். தொழில், போக்குவரத்து, விண்வெளி முயற்சிகள் அனைத்தும் ஆற்றலால் இயங்குகின்றன – ஆகவே நிலையான ஆற்றல் முயற்சிகளில்பொறியாளர்கள் செயலில் ஈடுபட வேண்டும்.

நூற்றாண்டுகளை (103 வருடங்கள்) கடந்த பொறியியல் பாரம்பரியத்தை கொண்டாடும் இந்த காலத்தில், அடுத்த படியாக அனைத்து தொழில்நுட்ப தரவுகளையும் ஒருங்கிணைக்கும் டிஜிட்டல் அறிவுக்களஞ்சியத்தை உருவாக்க வேண்டும் – அது IEI குடையின் கீழ் செயல்படும் மெய்நிகர் பல்கலைக்கழகம் போல இருந்து எதிர்கால கண்டுபிடிப்பாளர்களுக்கு வழிகாட்டியாக இருக்க வேண்டும்.

நிலையான முன்னேற்றத்திற்கும் தொழில்நுட்ப முன்னணித்தலைமையிற்கும் பொறியியல் சமூகத்தை ஒன்றிணைத்து ஊக்குவிப்போம்.

முனைவர். ஜெ . பாலமுருகன், FIE
கௌரவ செயலாளர்

ENERGY CONSERVATION DAY

13th December 2025

The Tamil Nadu State Centre of The Institution of Engineers (India) observed Energy Conservation Day on 13th December 2025 at 5.00 p.m. at the IE(I) TNSC Auditorium, Chennai.

At the outset, Prof. Dr. D. Elango, Chairman, IE(I) Tamil Nadu State Centre, welcomed the gathering and highlighted the importance of energy conservation in today's context.

Dr. Kishor Kumar Tripathy, Member Secretary, Auro Bharati, Sri Aurobindo Society, Puducherry, graced the occasion as the Chief Guest. In his address, he emphasized that energy conservation has become a national and global priority. The growing demand for energy, coupled with environmental concerns, necessitates responsible production, efficient usage, and conscious consumption of energy. He stressed that energy conservation is no longer optional but essential for sustainable development and urged the participants to treat it not as a one-day observance but as a lifelong commitment. He encouraged young minds to contribute ideas and innovations that would shape the future of energy in the country. The dignitaries were honoured with shawls and mementos.



Prof. Dr. D. Elango, Chairman honoured the Chief Guest Dr. Kishor Kumar Tripathy, Member Secretary, Auro Bharati, Sri Aurobindo Society, Pondicherry

Dr. V. S. Sriraja Balaguru, M.E., Ph.D., Assistant Executive Engineer, TNPDC, was the Guest Speaker for the programme. He delivered an insightful presentation using PowerPoint, beginning with the basic concept that energy is the ability to do work and work involves the transfer of energy from one form to another. He explained the present scenario of energy conservation and elaborated on the concept of sustainable energy, describing it as a “three-legged stool” comprising:

- Conservation – use less
- Improved efficiency – doing more with less through technology
- Renewable energy – investing in the future



Dr J Balamurugan, Honorary Secretary honoured the Guest Speaker Dr.V.S.Sriraja Balaguru M.E,PhD , Assistant Executive Engineer/TNPDC

He highlighted the environmental impacts of emissions such as SO_x, NO_x, carbon, and other greenhouse gases from thermal power stations and chemical, fertilizer, and petroleum industries. These emissions lead to serious environmental issues including greenhouse effect, global warming, ozone layer depletion, acid rain formation, radiation hazards, and health problems. He also explained how secondary pollutants result in acid rain, which is highly harmful to living beings.

The speaker further discussed the Government of India's identification of ten designated consumer sectors that consume large amounts of energy, measured in MTOE, and explained the role and importance of BEE, SDA, and Designated Consumers (DCs). He elaborated on Demand Side Management (DSM) concepts such as peak clipping, valley filling, and load shifting.

In his concluding remarks, he shared practical tips and Do's and Don'ts for energy conservation and emphasized that industries must adopt RRR – Reduce, Reuse, Recycle and DDD – Digitalization, Decentralization, and Decarbonization, to achieve smart and sustainable industrial solutions.

Dr. J. Balamurugan, Honorary Secretary, IE(I) Tamil Nadu State Centre, proposed the vote of thanks. He expressed sincere gratitude to the Chief Guest for his inspiring and thought-provoking address and thanked the Guest Speaker for sharing valuable technical insights. He also acknowledged all dignitaries, participants, and organizers for their contribution to the successful conduct of the programme. The winners list of the competitions held during Energy Conservation Week, coordinated by Dr. V. Muthukumar, Honorary Secretary, IE(I) KLC, will be intimated in the next publication.

IE(I) TNSC Founders Day 22nd December 2025

The Institution of Engineers (India), Tamil Nadu State Centre (IE(I) TNSC), originally established as the Southern India Centre at Chennai on 22nd December 1922, entered its Centenary Year on 22nd December 2022, marking a historic milestone in its illustrious journey.

In continuation of this legacy, Founders' Day was celebrated on 22nd December 2025 at 6.00 p.m. at the IE(I) TNSC Auditorium, Chennai.

The programme commenced with the rendition of Tamilthai Valthu, followed by the lighting of the solar lamp. Prof. Dr. D. Elango, Chairman, IE(I) Tamil Nadu State Centre, delivered the welcome address.

The event was graced by Dr. J. Daniel Chellappa, Eminent Nuclear Scientist, Chennai, as the Chief Guest, and Er. D. Suresh, popularly known as "Solar Suresh," a noted Green Enthusiast, as the Guest of Honour. The dignitaries were felicitated with shawls and mementos.

Dr. V. S. Sriraja Balaguru, Joint Secretary, IE(I) TNSC, introduced the Guest of Honour, highlighting Er. D. Suresh's remarkable contributions towards sustainable and eco-friendly living.



Honouring the Guest of Honour Er.D.Suresh

In his address on "My Eco Home – An Experiment in Sustainable Living" Er. D. Suresh explained sustainability as living without depleting natural and groundwater resources. He shared his personal experience of developing a unique eco-friendly home, which stands as one of the few such successful models in India.

His home integrates rainwater harvesting, rooftop solar power systems, domestic biogas, terrace kitchen gardening, hydroponics, an air-to-water generator, and effective dry waste management practices. He emphasized that these are not new innovations but revived traditional practices, proving that sustainability can be simple, cost-effective, and environmentally responsible. He strongly encouraged practical implementation rather than limiting sustainability to concepts or ideas, inspiring the audience to adopt eco-friendly practices in their daily lives.

Er. Mallika, Industrialist, introduced the Chief Guest, Dr. J. Daniel Chellappa, outlining his distinguished contributions to nuclear science and technology.

In his address, Dr. J. Daniel Chellappa highlighted India's remarkable journey in nuclear science and technology, built on vision, perseverance, and self-reliance. He emphasized that nuclear science today extends far beyond power generation, playing a crucial role in healthcare through nuclear medicine, agriculture through radiation-based technologies, industry through non-destructive testing, and national security through strategic applications.



Honouring the Chief Guest Guest Dr. J. Daniel Chellappa

He stressed that engineers and scientists bear the responsibility of deploying these technologies safely, ethically, and for the greater benefit of society. He also noted that institutions like IE(I) play a vital role in inspiring the next generation of engineers to think innovatively and act responsibly. He commended the Tamil Nadu State Centre for its proactive initiatives, professional programmes, and dedication to

strengthening the engineering fraternity, which are essential for national development and maintaining professional excellence.



A View of Audience

Dr. J. Balamurugan, Honorary Secretary, IE(I) Tamil Nadu State Centre, proposed the vote of thanks. He expressed heartfelt gratitude to the Chief Guest and Guest of Honour for their gracious presence and for delivering inspiring and thought-provoking addresses that added great value to the historic Founders' Day celebration. He remarked that their insights beautifully reflected the noble vision of the Institution's founders and the enduring role of engineers in nation-building.

TANENERGY SUMMIT 2025
16th December 2025



Prof. Dr. D. Elango, Chairman, IE(I) TNSC and Dr. J. Balamurugan, Honorary Secretary, IE(I) TNSC, participated in the programme and were felicitated with mementos.

The 15th Edition of FICCI's TANENERGY Summit 2025 concluded successfully on 16th December 2025 at Hotel Ramada Plaza, Guindy, Chennai with 225+ participants coming together to deliberate on "Green Energy & Green Manufacturing: Driving Tamil Nadu's One-Trillion-Dollar Growth Vision."

The Institution of Engineers (India) Tamil Nadu State Centre was the supporting partner of the event.

The summit opened with a Welcome Address by Dr. GSK Velu, Chairman, FICCI Tamil Nadu State Council & CMD, Trivitron Healthcare / Neuberg Diagnostics Group, followed by the theme address by

Mr. M. Nandakumar, Convener – Energy Panel, FICCI TNSC & MD, Nanwin Energy LLP.

Key inaugural session contributions included:

Shri. Hans Raj Verma, Director General, COSIDICI

Mr. Aravind , VP, UEDUCATE Global Pvt Ltd

Dr A Sivathanu Pillai, President-PMA India , Fmr CEO, Brahmos

Mr. R. Venkatesh, Founder Director, Soltrium Power Pvt Ltd

Shri. M.K. Narayanan, Former National Security Adviser to the Prime Minister of India – Keynote on the role of nuclear energy

Mr. R Shanthakumar, Founder & CEO eclouds energy LLP, who made concluding remarks.

Dr. J. Balamurugan, Honorary Secretary, IEI – Tamil Nadu State Centre, served as a panelist for the session on “Renewable Energy Transition,” which was moderated by Mr. M. Nandakumar, with valuable insights shared by Mr. P. Rajenthiran (Everrenew Energy) and Mr. S. K. Mishra (Indian Oil Corporation Ltd.).

Deliberations are well focused:

- Tamil Nadu’s growth, especially through MSME participation
- Reaching net zero target
- Enhancing of nuclear power capacities and ways to take it forward technologically with various policy initiatives
- Repurposing of old fossil fuel plants with potential nuclear plants
- Energy transition aligned with India’s national goals
- AI and technology enablers for the energy sector
- Reaching out to more stakeholders and deepening engagement
- Valuable global perspectives from distinguished speakers joining from various organisations in India and UAE & USA

The deliberations were well focused on India’s growth and development. A significant and positive outcome was the inclusion of CII DNAs, which further strengthened the association with FICCI. As a result, FICCI members expressed their willingness to actively participate in IEI activities and to enroll as members. It was also agreed that a Memorandum of Understanding (MoU) would be signed with FICCI to formalize this collaboration.

Know Your Member (KYM)

Dear Corporate Members,

We request all Corporate Members to kindly complete the **Know Your Membership (KYM)** form to enable us to update and maintain an accurate and comprehensive membership database.

The KYM form is available on the IE(I) website: www.ieindia.org.

Your cooperation in this matter is essential to ensure seamless communication and uninterrupted access to member services and benefits.

After duly completing the form, you are requested to submit it by email to datamemb@ieindia.org / ieitamilnadu@gmail.com or tnscc@ieindia.org

We look forward to your prompt support and cooperation.

Forthcoming Events

07 th February 2026	Guest Lecture on the theme " Integration of Chemical Engineering and Biotechnology in Sustainable Products Development"	06.00 pm	Online Zoom Meeting
23 rd February 2026	Guest Lecture on the theme "5G Technology: Architecture, Applications, and Future Scope"	06.00 pm	Online Zoom Meeting
27 th & 28 th Feb 2026	All India Seminar on "Nanomaterial from Research to Industry"	09.00 am – 04.00 pm	Sathyabama Institute of Science and Technology, Chennai

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Bulletin

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