Department of Information Technology and Electrical & Electronics Engineering

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AICTE

Sponsored

SUSTAINABLE AND ENERGY EFFICIENT SOLUTIONS (ICSEES – 2026)

January 5th – 7th, 2026
SVCE, Pennalur, Sriperumbudur

About the Conference

The International Conference on Sustainable and Energy Efficient Solutions (ICSEES 2026) aims to bring together researchers, academicians, industry experts, and policymakers to explore innovative and sustainable approaches toward global energy goals.This platform emphasizes emerging technologies, renewable energy systems, artificial intelligence, data science applications, smart grids, green computing, and sustainable manufacturing.By fostering interdisciplinary collaboration, ICSEES 2026 seeks to promote energy efficiency, carbon reduction, and resource optimization for a sustainable future.

Conference Themes & Topics

🔋 Power Generation and Integration

- Smart Grid Technologies
- Renewable Energy Integration
- Microgrids and Peer-to-Peer Energy Trading
- Energy Harvesting Systems

⚡ Energy Storage and Conversion

- Battery Energy Storage Systems (BESS)
- Supercapacitors & Ultracapacitors
- Power Electronics for Renewable Energy
- EV Charging Infrastructure

💡 Energy Efficiency & Demand Management

- Energy-Efficient Motor Drives
- Demand Side Management (DSM)
- Building Automation & Smart Homes
- Power Quality Improvement

🚀 Emerging Technologies and Innovations

- Wireless Power Transfer
- AI and Machine Learning in Energy Systems
- Hydrogen & Fuel Cell Technologies

🤖 AI & Machine Learning for Energy

- Energy Demand Forecasting
- Predictive Maintenance & Anomaly Detection
- Reinforcement Learning for Energy Optimization
- Smart Building Energy Management

☁️ Cloud Computing & IoT for Energy

- IoT-based Smart Energy Monitoring
- Energy-Efficient Cloud Data Centers
- Blockchain for Energy Transactions

📊 Data Science & Analytics in Energy

- Big Data for Renewable Energy
- Energy Consumption Behavior Analytics
- Carbon Footprint Tracking Tools

🛠️ Software Systems and Simulation

- Simulation Tools for Smart Grids
- Energy-Aware Software Development
- Mobile Apps for Energy Conservation

🚗 Smart Mobility and Transport Systems

- Routing Algorithms for EVs
- EV Fleet Management Using AI

🔐 Cybersecurity and Privacy in Energy Systems

- Security in Smart Grids & SCADA Networks
- Privacy-Preserving Energy Data Sharing

About SVCE

Sri Venkateswara College of Engineering (SVCE), established in 1985, is a premier self-financing institution managed by the Sri Venkateswara Educational and Health Trust.The college offers 13 UG and 8 PG programs, with 11 research centers approved by Anna University for MS (by Research) and Ph.D. programmes.Approved by AICTE and affiliated to Anna University, Chennai, SVCE attained Autonomous status in 2016 and is NAAC-accredited.The campus is located in a serene environment, 37 km from Chennai on the Chennai–Bangalore National Highway (NH4), Pennalur, Sriperumbudur.

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