

# Dr Thirugnana Sambandam

EnMS Auditor

## Contact

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## Skills

IRCA Accredited ENMS Auditor

BEE Accredited Energy Auditor

Energy Usage Analysis

Energy conservation strategies

## Languages

Tamil, English Hindi



Adept individual with more than 25 years working as Energy Management Professional, Team Leader, Teacher and Researcher. Conducted 300+ Energy Audits, 25 Research Publications and wrote One Book. Provide Training in the area of Energy Management in

Utilities. Conduct IA and Full Scale Audit for ISO 50001-2018. Customer-oriented team player with expertise generating optimal satisfaction levels while building profits and client generation. Research outcome are available at : [https://scholar.google.co.in/citations?hl=en&user=QH-zD\\_oAAAAJ&view\\_op=list\\_works&sortby=pubdate](https://scholar.google.co.in/citations?hl=en&user=QH-zD_oAAAAJ&view_op=list_works&sortby=pubdate)

## Work History

2019-09 -  
2020-03

### Associate Director- Energy

GSH India Pvt.td (Integrated Facility Management),  
Chennai, Tamilnadu

- Conducted Energy and EnMS (ISO 50001) Audits at client's site to minimize resource usage and implement Energy Management System
- Lead teams of up to 5 personnel, supervising daily performance as well as training and improvement plans.
- Supported continuous process and performance improvement for utility management and Energy Conservation
- Oversaw business calendar of events and scheduled key initiatives.
- Trained and developed department leaders and management staff for specific projects and ongoing operational needs.
- Assisted senior leadership in managing all aspects of operations terms of Energy Consumption and CO2 Emission Mitigation
- Engaged analytical subject matter experts outside project teams to drive troubleshooting of critical process-related deviations and enhance process improvements.
- Liaised with technical counterparts to exchange data and maintain communication.
- Networked with local and regional businesses to promote partnerships and drive growth.

- Assisted with internal and external audits and inspections by liaising with representatives in regards to EnMS implementation

2017-12 -  
2019-08

### **Professor - Mechanical Engineering**

*Bannari Amman Institute Of Technology, MADURAI, TAMIL NADU*

- Used variety of learning modalities and support materials to facilitate learning process and accentuate presentations, including visual, aural and social learning modalities.
- Shifted between informal and formal methods of teaching to create multi-layered web of learning, incorporating experiments, practical activities, discussions and projects into lessons.
- Offered career assistance to students by conducting mock interviews, providing relevant job opportunities and teaching networking skills and strategies.
- Evaluated and supervised student activities and performance levels to provide reports on academic progress.
- Applied innovative teaching methods to encourage student learning objectives.
- Generated grant proposals to gain funding for Energy and CO<sub>2</sub> Emission Mitigation research, winning **DST/ Constancy projects**.
- Created lesson plans for courses, modifying throughout year to meet time constraints and specific interests of class.
- Stayed abreast of developments within Energy Conservation and Energy Efficiency to improve curriculum, develop new research and share with colleagues and students
- Conducted engaging in-class discussions to facilitate learning and encourage participation.
- Monitored student use of Energy Audit Instruments and equipment for safe and effective handling.

2008-09 -  
2017-11

### **Associate Professor - Mechanical Engineering**

*Kalasalingam Academy Of Higher Education And Research, MADURAI, TAMIL NADU*

- Made contributions in curricular development and innovation in teaching strategies, including incorporation of new technologies for learning and grading.
- Graded assignments and examinations, recording grades in grade book and reporting to primary course instructor on average performance and students requiring special attention.
- Sustained professional contact with colleagues and engaged in continuing professional activities to upgrade and augment existing skills or develop new ones.
- Helped students to develop and demonstrate broad, integrative and specialized knowledge, essential habits of mind, communicative fluency and effective problem-solving skills.
- Impartially evaluated papers, projects and homework assignments of students, delegating grading to teaching assistants when appropriate.
- Created lesson plans for courses, modifying throughout year to meet time constraints and specific interests of class.

1995-03 -  
2009-08

### **Chief Manager & Head-Tech**

*National Small Industries Corporation - GOI, Guwahati & Rajkot, Assam & Gujarat*

- Established and administered annual budget with effective controls to prevent overages, minimize burn rate and support sustainability objectives.
- Managed internal operational standards and productivity targets
- Directed training and retraining of employees to boost performance and enhance business results.
- Modernized and improved operational procedures to increase efficiency and profitability while tightly controlling costs such as labor and preventing waste.
- Maintained financial accuracy
- Evaluated existing operations and current market trends to identify necessary improvements and capitalize on changes.
- Defined clear targets and objectives and

communicated to other team members.

- Estimated expected changes in business operations and made proactive adjustments to employee schedules and inventory levels to address needs.
- Coordinated all companies, business executives and site leadership teams by interacting effectively and establishing communication best practices.
- Planned marketing initiatives and leveraged referral network to promote business development.
- Directed group of 25 associates handling daily and complex requirements of Technical Services department.

1993-01 -  
1995-02

### **Lecturer - Mechanical Engineering**

*North Eastern Regional Institute Of Sc & Tech, Nirjui, Arunacha Pradesh*

- Developed semester outlines and instructional plans for each class session to comply with stated course objectives.
- Collaborated with Colleagues to create dynamic, ongoing curriculum development and instruction improvement program.
- Taught diverse student population by employing various learning styles and abilities.
- Evaluated and revised lesson plans and course content to facilitate and moderate classroom discussions and student centered learning.

## **Education**

2009-01 -  
2013-12

### **Ph.D.: Energy Consumption And CO2 Emission Mitigation**

*Kalasalingam Academy Of Education And Research - India*

1989-06 -  
1991-12

### **Master of Technology: Energy Conservation And Management**

*School Of Energy - Trichy*

1982-06 -  
1986-05

### **Bachelor of Engineering: Mechanical Engineering**

*Thiagarajar College Of Engineering - Madurai India*