

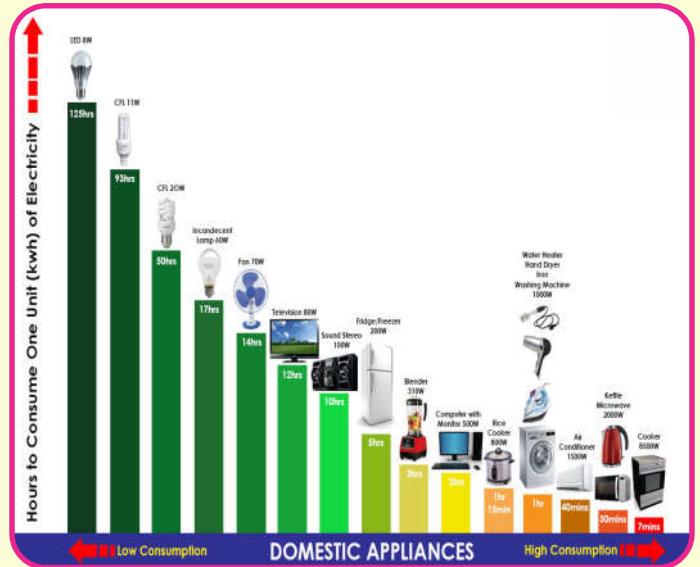
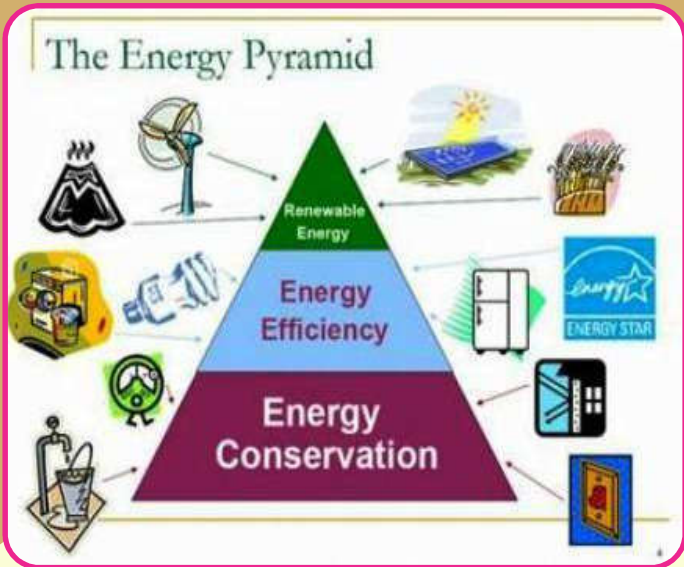
Estd : 1994

INDUSTRIAL ENERGY AUDIT

K.L.N. College of Engineering

Department of Electrical and Electronics Engineering

Pottapalayam - 630 612
Sivagangai District, Tamilnadu



Centre of Excellence Energy Audit Division

Dr. S. Venkatanarayanan M.E., Ph.D., MBA., M.Phil., MISTE., MIEEE

Professor and Energy Consultant, Member IEEE

Department of Electrical Electronics Engineering

Email ID : venjeyeee@gmail.com

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ABOUT THE COLLEGE

Vision

To become a Premier Institute of National Repute by Providing Quality Education, Successful Graduation, Potential Employability and Advanced Research & Development through Academic Excellence.

Mission

To Develop and Make Students Competent Professional in the Dynamic Environment in the field of Engineering, Technology and Management by emphasizing Research, Social Concern and Ethical Values through Quality Education System.

A Brief History of the College

K.L.N. College of Engineering is the first self-financing Co-educational Engineering College in Madurai, started in 1994 by Munificence of Philanthropist and well-wishers in Sourashtra Community which is a linguistic minority in Tamilnadu. This college is sponsored by the committee of eminent industrialists and academicians led by enthusiastic, educationalist and industrialist (Late) Thiru K.L.N. Krishnan. This college has the approval of All India Council for Technical Education, New Delhi and is affiliated to Anna University, Chennai. We offer seven UG Courses, B.E, Mech, EEE, ECE, CSE, AUE, EIE & B.Tech IT and Seven PG Courses, M.E. CAD / CAM, PSE, CS, CSE, CS, CSE, CSE (N/W), MBA & MCA & PhD Full Time & Part Time Programmes

The Department of Electrical and Electronics Engineering

Started offering B.E. in Electrical and Electronics Engineering in the year 1994. Started offering M.E. in Power Systems Engineering in the year 2005. Accredited in March 2004 (First time) and Re-accredited (Second time) by National Board Accreditation, New Delhi. Re-accredited (Third time) National Board Accreditation, New Delhi. Recognized Research Centre Approved by Anna University, Chennai with effect from December 2012, and offering guidance for M.S & Ph.D. (Full time/Part time). Both UG and PG programs are permanently affiliated to Anna University, Chennai with effect from December 2012.

HISTORY OF THE DEPARTMENT

B.E. - Electrical and Electronics Engineering		M.E. - Power Systems Engineering		Ph.D.	
Year of start & History of Intake	1994, with an intake of 40	Year of start & History of Intake	2004, with an intake of 18	Year of Recognition as Research Centre	2012
	1996, with an intake of 60		2012, with an intake of 24	First Renewal	2015, upto December 2018
	2002, with an intake of 90				
	2011, with an intake of 120				
Both UG & PG programs are permanently affiliated to Anna University, Chennai.					
Accreditation status					
First Accreditation	Second Accreditation	Third Accreditation		Fourth Accreditation	
3 YEARS W.E.F. 19-3-2004	3 YEARS W.E.F. 19-7-2008	2 YEARS W.E.F. 05-08-2013		Academic Year 2016-17,2017-18 and 2018-19, i.e., upto 30-06-2019	

Energy Audit

An energy audit is an inspection, survey and analysis of energy flows, for energy conservation in a building, process or system to reduce the amount of energy input into the system without affecting the output(s). In industries, Hotels, Hospitals, Residential Buildings, Colleges, Schools, Banks, Theatres, HT, LT, LTCT, Mills, SIDCOS & Etc., an energy audit is the first step in identifying opportunities to reduce energy expense. The testing will be conducted as per the standard of IEC, IEEE, IEC, BS, IS for the industries enable to find out the losses and minimizing methods. We verify all AMC records about the activities carried out by the contractor for smooth functioning of the equipments.

Electrical Energy Audit

Electrical Energy Audit forms an integral part of an Industrial Energy use. Electrical Energy Audit consists of Studying, Assessing, Measuring and Analysing electrical utilities. In a typical Plant the electrical utilities consists of Generators, EB incoming, Transformers, Power Distribution System, Metering and Monitoring System, Motors, Blowers, UPS, Batteries, Stabilizers, Fans, APFC, Maximum Demand Controllers, Air Conditioners, Compressors, Pumps, Lighting, Lightning arresters, Earthing, Solar Power Plants, On grid, Off grid & Net metering Etc. This all equipments will be tested based on the specification of the equipments.

Electricity Bills

Further to this analysis of electricity bills, energy consumption trends, bench-marking in line with process requirement is also carried out.

Benefits of Energy Audit

Reduces Electricity Bills, Increase energy efficiency, Reduce energy usage, Improve indoor air quality, Produce consistent interior temperatures, Reduce interior drafts, Improve humidity control & ventilation etc.

Our Work

Our Energy audits will evaluate your facility “as a whole”, to consider a wide range of available facilities (Electrical, Mechanical, Envelope and Water).

The audit will not only inform you of opportunities but provide you with financial analysis. This will enable prioritization based on financial benefit and return on investment.

Provide you with solid, easy to understand technical information regarding the proposed energy conservation measures.

A good quality audit will analyze your historical energy use and find potential issues using statistical methods.

Provide you with emissions analysis to help you understand the benefits of your decisions from an environmental standpoint.

Understand where energy is used and which areas are worth focusing on the most.

The cost-benefit analysis of the audit suggestion would help decision makers prioritize opportunities and evaluate them as investments.

Training will be provided for the users, operators, Engineers

The Suggestion and Details will be given through our Department of EEE, K.L.N. College of Engineering with expert opinions.



K.L.N.COLLEGE OF ENGINEERING
Pottapalayam 630 612 , Sivagangai District



Department of Electrical and Electronics Engineering
Accredited by NBA, New Delhi

100th ENERGY AUDIT Consultancy Programme
On 31.07.2017 10:00 AM at



SCIENTIFIC AGRICULTURE LABORATORY (P) LTD

3/196, Natham Main Road, Manthikulam Vilakku, Karavanur Post, Madurai - 625 014, Tamil Nadu, India

Mr K.Muthukumar
Director - Technical Marketing/SAL
Mrs.Saranya Muthukumar
Director/SAL

Dr.K.N.K.Ganesh B.E.,Ph.D.(Hon).,
Secretary and Correspondent /KLNCE
Er.K.N.K.Karthik
President /KLNCE

Dr.S.Venkatarayanan
Professor/EEE & Energy Consultant
Mr.P.Thangaraj
AEE(Rtd)/TANGEDCO/Madurai

Mr.G.Ramesh Senior, Maintenance coordinator/SAL
Mr Rajaram, Senior, Production Co ordinator/SAL
Mr. Kamaraj,S. Senior HR Coordinator/SAL

Dr.A.V.Ram Prasad, Principal,K.L.N.C.E
Dr.S.M.Kannan, Professor & HOD/EEE



Energy Audit at M/s.P.K.S.Engineering Kappalore Madurai



PEACE Awareness program at Perambalore for General Manager DIC, Perambalore



Energy Audit Awareness program at Theni along with The Collector , Petroleum conservation and research Associations (PCRA)and DIC Theni



Energy Audit at a Home at Kochadai



Promotion of Energy Audit and Conservation of Energy (PEACE) training program for Industries at Rameswaram On behalf of District Industries centre, Ramanathapuram



Energy Audit PEACE Training program and valedictory function along with General Manager, DIC Madurai



IEEE HUB CONGRESS AT THIAGARAJAR COLLEGE OF ENGINEERING MADURAI



Promotion of Energy Audit and Conservation of Energy (PEACE) with Collector Madurai and GM,DIC, Madurai for the promotion of Energy Audit



Electrical Engineers A Grade Association Meeting at Courtralam , Thirunelvel District



Energy Audit at Unit Trust of India, Madurai



**Energy Audit at M/s.MEDNOB HEALTH CARE
Madurai**



**Energy Audit at M/s. ANNAPOORNA TOWERS
Madurai**



**Energy Audit at M/s.VETRI CINIMAS
Madurai**



**Energy Audit at M/s.TEMPLE CITY
Madurai**



**Energy Audit Training Programme
Rameshwaram**



**Energy Audit Training Programme
Perambalur**



**Energy Audit Training Programme
Kovilpatti**



**Energy Audit Training Programme
Namakkal**



**Energy Audit at M/s.Bargavi Textiles
Kappalore, Madurai**

**Energy Audit at M/s.MM Hospital,
Namakkal**



**M/s Ramanujam Mill
Owner Residence
Theni District**



**M/s Thambis
Theatre Cumbum
Theni District**



**M/s Krishna
Theater, Theni
Theni District**



**M/s Bargavi
Textiles, Kappalore,
Madurai**



**M/s Vetri cinemas
Madurai**



**M/s Ansell,
Bommanasandra
Bangalore**



**M/s. Scientific Agricultural
Laboratory, Madurai**



**M/s Tamilnadu
Theological college,
Madurai**



**M/s CDD Center,
Madurai**



**M/s J-Cup
Residency,
Thirunagar Madurai**



M/s Agriya Chemical , Madurai



M/s Temple City Hotel Dreams, Surveyor colony Mattuthavani, Madurai



M/s Temple City Hotel, Mattuthavani, Madurai



M/s Gokul Industries, Theni District



M/s Jeyaraj Industries , Periyakulam, Theni District



M/s Vikram Multi speciality Hospital, Madurai



M/s Apollo First Med Hospital, K.K.Nagar, Madurai



M/s TVS and Sons PVT Ltd, 211, South veli street Madurai



M/s I-TAS, Palanganatham, Madurai



M/s IK Engineering Solutions, Kappalore Madurai District



**M/s Sharon Solar Solutions,
Thiruparangundram, Madurai.**



**M/s Maheswari Industries,
Uranganpatty,
Madurai District**



**M/s Arunachalam Lathe Industries,
Uranganpatty, Madurai District**



**M/s Meenakshi Urangan patty,
Madurai District**



**M/s Mookan Rice Mill,
Uranganpatty, Madurai**



**KS Hospital, Near Anna Bus stand,
Madurai-625020**



**Visited University of Nottingham
Kuala Lumpur Malaysia
Kuala Lumpur Malaysia**



**Visited CDAC, Power Electronics Group
Thiruvananthapuram, Kerala**



**M/s Pondicherry Engineering College,
Pondicherry, Hotel Accord, Pondicherry
as ICCPEAT2017 International conference
SESSION CHAIR Energy Assessment Methodology**



**M/s Madanapalle Institute of Technology & Science ,
Angallu (Village), Madanapalle-517325,
Chittoor District, Andhra Pradesh**



**M/s J.S.Publication, Mattuthavani,
Madurai- 625007**



**IEEE, Madras Section At
CEG's TAG Auditorium SB Introduction and
Energy Audit Speech For all IEEE Members**



**M/s Jawahar wood , Thankkankulam,
Madurai**



**M/s Vasundra Textiles
Shed 9,**



**M/s Standard Enterprises
Kappalore, Madurai**



**Vijay polymer, unit-II, SIPCOT, Nilakottai
Dindigul**



**M/s Jeyareng Textiles,
Theni For PhD work
Of Mr.A.Sahayaraj**



**M/s Amway India Enterprises Pvt. Ltd.,
SIPCOT, Nilakottai Dindigul**



**M/s Aurolab,
Veerapanchan, Madurai.**



**M/s Shanlax press,
Madurai**



**M/S Jeevan Nission,
Thoppor, Madurai**



**M/s Jawaharlal and Co,
Vasanthanagr, Madurai**



**Star Biological, Kappalore
Madurai**



**AAA College of Engineering
Sivakasi**



**M/s Dhaya Calibrations,
Andalpuram, Madurai**



**M/s Bagathsing Furniture,
Thanakkankulam, Madurai**



**M/s AVN Hospital,
Vilacherry, Madurai**



**M/s Raj weaving Shed No 18, Unit – II,
SIDCO Industrial Estate
Kappalore, Madurai**



**M/s Raj weaving Shed No 18, Unit – I,
SIDCO Industrial Estate
Kappalore Madurai**



**TANGEDCO
Industrial Meet on energy saving and safety,
SIDCO, Kappalore Madurai District**



TANGEDCO
Industrial Meet on energy saving and safety,
Dindigul



M/s Port trust Hospital,
Chennai



M/s Magnum Imaging and Diagnostics.
Trichy



M/s Kreative India,
Trichy



Arulmigu Subramaniay swamy temple
Thiruparangundram, Madurai



M/s Keswik Public School,
Madurai.



M/s Hotel Times,
Madurai



M/s Kaveri Mahal,
Madurai.



M/s Jeyaraj Automobiles and Deepthi Agencies
Madurai.



M/s Jeyaland School ,
Jeyaraj Nagar, Madurai.



**State Bank of India,
Personal Banking, Madurai City Branch
Madurai**



**State Bank of India,
SME Branch,
Madurai**



**M/S Barkavi Textiles
Kappalur, Madurai.**



**M/S Ansell,
Bangalore**



**M/s Hayargreeva
school, Mayladumparai, Theni District**



**M/s Rajkumar Restaurant
Triplicane, Chennai**



**M/s Unnamalai Ammal Multispecialty
Hospital & Research Centre,
Kadamalaikundu, Theni**



**M/s Thiagarajan Automobiles,
IOC, South veli Street, Madurai**



**M/s Thiagarajan Automobiles,
IOC, Thallakulam, Madurai**



**M/s Aravind Eye Hospital,
Anna Nagar, Madurai**



**M/s Madurai City Hospital,
Sathamangalam, Madurai**



**M/s ACME Elastomer,
Kappalore**



**M/s Madurai ACME Enterprises,
Madurai**



**M/s Tusker Designer Tiles,
Kappalore**



**M/s Natchiar Silks,
Madurai**



**Mr.Rengarao /K.L.N.C.E Solar PPA,
Madurai**



K.L.N.C.E Solar PPA Meeting



KLN College Function



K.L.N.C.E A/C Power Saver



**M/S Man Make Tailors,
Near Madanagopalasamy temple street,
Madurai**



**M/S VSR(P) LTD, K.Pudur,
Madurai 625 007**



**M/S Chiamala Pressing,
K.Pudur, Madurai – 625 007**



**M/S Priya Complex, Anna Nagar,
Madurai - 625 020**



**M/S Mahendra Crushers,
Checkanurani (PO),
Madurai – 625 514**



**Aravind Eye Hospital,
Madurai**

Interaction for 100 th Program on Instrumentation



**SIDCO Association,
K.Pudur,
Madurai.**



**IVLR Concrete No 9, Madurai Ramnad Main Road,
Near Teppakulam Iravathanallur Madurai City,
Madurai - 625001**



**M/S TOUCH INFRAS,
MADURAI(Builders and Promoters)**



**Air conditioner Energy Testing at
M/S Meenakshi Mission Hospital
Madurai for Positive Power solution, Madurai**



**Pre Energy Audit Talk at
M/S Meenakshi Mission Hospital
Madurai for their Employees**



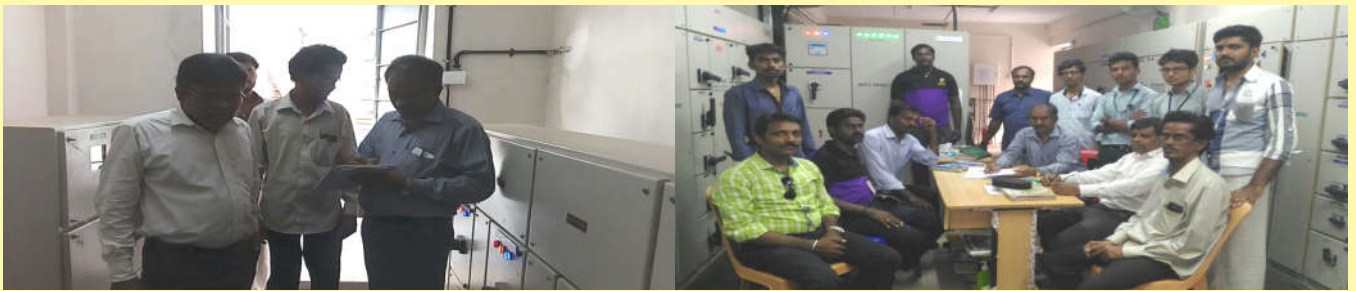
**J.K. Fenner (India)Ltd.,
Madurai- 625016.**



**M/S Vijay polymer, SIPCOT, Pallapatti (Post),
Nilakottai (TK), Dindigul District.**



**Sri Ayyanar Aqua Farm.,
Pudupatti, Othakadai, Madurai**



M/s Vetri Theatre, Villapuram, Madurai



News Paper - 2017 Clippings



IEEE & Energy Audit Activities

MADURAI



SIVAGANGAI



PROMOTION OF ENERGY AUDIT AND CONSERVATION OF ENERGY (PEACE)

In many of the MSME sectors, energy is often the single largest operating cost and consequently energy productivity is the key to their competitiveness and survival. Micro, Small and medium enterprises (MSMEs) are under tremendous pressure to increase productivity, maintain quality, and deliver within remarkable timeframes; at the same time, work alongside the rising cost of energy, material and other resources required for production, and remain competitive in the market.

Realizing the need to save energy, the Government have issued orders duly sanctioned for a special scheme vide G.O.Ms No 35 MSME (G) department dated 09.06.2017 for promoting energy efficiency in MSME units namely "PEACE" (Promotion of Energy Audit and Conservation Of Energy) . Under this scheme, suitable incentives will be given to MSME units based on Energy audit.

K.L.N College Of Engineering Centre Of Excellence Energy Audit Division, Department Of Electrical Electronics Engineering Is Promoting Energy Audit From Jan 2016. We Have Completed energy audit for 125 industries.

We Promote Energy Audit As Per The Government Guidelines

Awareness Programme

Awareness among MSMEs is the level of understanding about the importance and implications of energy audit and conserving energy. High awareness among MSMEs occurs when a significant proportion of the MSMEs agree that the energy audit and conserving energy is an issue that is of great importance to the financial performance and competitiveness of their enterprise.

Training Programme

The objective of the training programme is to enable MSMEs to establish the systems and processes necessary to improve energy performance, energy efficiency, and help reduce energy consumption and costs. The training programme enables the MSMEs to take a systematic approach towards achieving substantial improvement in energy management

Conduct Energy Audit

We are Conducting Energy Audit, MSMEs, LT & LTCT, HT Industries.
We have achieved prove and energy conservation for the consumers.
We suggest for reducing electricity bill, power factor penalty, Maximum Demand issues.

OUR TECHNICAL CO- ORDINATOR



ER. P.THANGARAJ

Assistant Executive Engineer Rtd.,
TNEB
Non Conventional Consultant

SHORON SOLAR SOLUTIONS

A Grade Electrical Contractor



SRI ANNAI LAKSHMI POWER SERVICES

Total Power Solution

Madurai - Theni



SUN ENERGY SYSTEMS

Save Energy - Save Cost - Save Environment

Chennai - Madurai



IMPULSE ELECTRO SYSTEMS

An Innovative Power Saver

Madurai - Ramanathapuram

Harvest Solar Energy, Conserve Water



TJ SOLUTIONS

Madurai



GREEN SOLAR TECHNOLOGY

Chennai - Covai - Trichy - Erode - Dindigul - Palani - Madurai



INTEGRATED - TRAINING AND ASSESSMENT SYSTEMS

MADURAI

OUR MAJOR CUSTOMERS

SBI



State Bank of India

PCRA



GOVT OF TAMILNADU



TANGEDCO



DISTRICT INDUSTRIES CENTRE



APPOLLO FIRST MED HOSPITAL



SAL



UNITED INDIA INSURANCE



CPA COLLEGE, BODI



TTS MADURAI



TVS



THE JAYARAJ GROUP



FENNER INDIA

JK Fenner



Estd. 1994

கே.எல்.என். பொறியியல் கல்லூரி K.L.N. College of Engineering

Pottapalayam-630612.(11 km from Madurai City) Sivagangai District,Tamilnadu,India.
(Sponsored by K.L.N. Sourashtra College of Engineering Council, Madurai)
Approved by AICTE, New Delhi and Affiliated to Anna University, Chennai.
Approved Research Center for MECH, EEE, ECE, CSE & MBA by Anna University.
Approved as Nodal Center for Quality Improvement Cell by Anna University, Chennai.
Accredited by NBA, New Delhi for B.E. - MECH, EEE, ECE, CSE and B.Tech - IT .
An ISO 9001 : 2015 Certified Institution - Sourashtra Linguistic Minority Institution

Counselling Code
5904

Amarar
Shri K.L.N. KRISHNAN



Founder President
(1918 - 2001)

Courses Offered

Name of the programmes approved by the AICTE

UG Programmes

- B.E. Mechanical Engineering (4thtime Accredited)
- B.E. Electrical and Electronics Engineering (4thtime Accredited)
- B.E. Electronics and Communication Engineering (2ndtime Accredited)
- B.E. Computer Science and Engineering (3rdtime Accredited)
- B.Tech. Information Technology (3rdtime Accredited)
- B.E. Automobile Engineering
- B.E. Electronics and Instrumentation Engineering

PG programmes

- Master of Business Administration
- Master of Computer Applications (2ndtime Accredited)
- M.E. CAD / CAM
- M.E. Communication systems
- M.E. Power Systems Engineering
- M.E. Computer Science and Engineering
- M.E. Computer Science and Engineering(WITH SPECIALISATION IN NETWORKS)

Ph.D Full Time & Part Time programmes

For Industrial & Domestic Energy Audit & Reduce Electricity Bill



Contact

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Dr. A.V. Ram Prasad M.E., Ph.D., MISTE., F.I.E.,

Principal
K.L.N. College Of Engineering
Ph : 0452 - 2090184