

# CURRICULUM VITAE OF MR. VELAYUTHAM V, ENERGY AUDITOR

## VELAYUTHAM V

Deputy Director

**NATIONAL PRODUCTIVITY COUNCIL**

**Mobile: +91-9094426110**

**Under Ministry of Commerce & Industry, Government of India**

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A Certified Energy Auditor from Government of India, with a positive thinking and ability to effectively address multiple market segments in the field of Energy Management, Sustainability, Climate Change, Project Management and Training with an overall experience of 16 years. The area of core competencies & professional strengths includes the following listed below:

• Energy Audit & Conservation Study	• Energy Management System (ISO 50001)
• Performance Evaluation of Industrial System & Utilities	• Monitoring & Analysis of Energy Usage
• Performance Evaluation of Electric Generation, Transmission and Distribution Systems.	• Energy Monitoring & Evaluation
• Building Energy Management	• Training on Energy Audit & Technologies
• Sustainability	• Project Management

### Professional Highlights

Organization : <b>National Productivity Council, Gol</b>	Work Experience: 15 years and 06 months
<b>Deputy Director</b> : 08 <sup>th</sup> February 2016 to Till Date Assistant Director : 04 <sup>th</sup> August 2009 to 07 <sup>th</sup> February 2016	
Job Responsibility: Execution of Energy Consultancy Projects, Project Management and Handling of Training Programs.	

### -----Key Contributions-----

#### Energy Audit & Conservation Studies/Performance Evaluation:

- Carried out Energy performance study, Energy Audit and Conservation Studies, Water Conservation Studies for different Thermal Power Stations and refinery in India.
- Executed more than 50 energy audits covering process, engineering & service industry. The sectors covered are chemical, textiles, dairy, paper, sugar, tyre, steel, cement, fertilizers, pumping, automobiles, railways, power plant, large hotel and commercial buildings.
- A Team Member in an all-India study, for “Energy Consumption and Energy Conservation Potential in four Sectors namely; “Agriculture Pumping, Municipal (Water Works & Lighting Services), SME Clusters and Commercial Buildings” for Bureau of Energy Efficiency (BEE).
- A Team Member in Baseline Energy Audit Study for Designated consumers under Perform Achieve & Trade (PAT) Scheme of BEE  
PAT Scheme is one of the flagship programs of Government of India under National Mission on Enhanced Energy Efficiency announced in 2008. PAT Scheme intent to save around 10 MTOE of commercial energy in 9 Industrial Sectors (Power, Steel, Aluminum, Cement, Fertilizer etc.) of India. Incentives are awarded in form of a tradable commodity for which the prices are regulated by market-based mechanism. The scheme kicked off in year 2011 by initiation in form of Baseline Energy Audit for target fixation for its first cycle of 2012-15
- Conducted baseline feasibility study for commissioning of 2 MW SPV power generation at Indian Institute of Management Tiruchirappalli campus and Indian Institute of Technology Madras campus.
- Involved in verification of star rating of buildings under the Bureau of Energy Efficiency Scheme for “BEE Star Ratings of Buildings”
- Conducted exclusive harmonics study for southern railways at Thiruvallur and Valathoor substation.
- Involved in the “Evaluation Study of Biogas Power (Off – Grid) Generation Programme” for Ministry of New and Renewable Energy (MNRE), Government of India.
- Involved as a team member to develop Virtual Reality assistance-based training program in partnership with GIZ for rendering practical training across PAN India.

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## Energy Conservation Planning & Monitoring:

- Monitoring and Verification under Perform Achieve & Trade (PAT) Scheme of BEE:

After completion of first PAT cycle in March 2015, Evaluated the energy performance of Designated consumers with all Normalizing factors and certifying the normalized energy consumption level under the Monitoring and Verification cycle.

## Training Programs / Workshops Handled:

- Organized several training programs on Awareness for Energy Conservation, Energy Management System (ISO 50001), Energy Manager & Energy Auditors, Designated Consumers and Workshop on Energy Conservation Building Code (ECBC) etc.
- Imparted training to more than 300 junior, middle and senior level executives for public and private organizations.
- Organized several practical training programs on Energy Conservation & Audit in the "Centre of Excellence for Training in Energy Efficiency" for Energy Manager and Energy Auditors for various National and International organizations.
- Organized customized training programs on Harmonics for Power Plant Engineers, Distribution Engineers and other private & public sector organizations.
- Organized and imparted Preparatory Training Course for candidates appearing for Energy Manager & Auditor certification examination.
- Delivered lectures and motivational speeches to various universities and engineering colleges in the area of productivity and energy management.
- Handled HRM training program for junior, middle and senior level employees of Airport Authority of India at Mangalore.
- Organized and coordinated various international conferences in the field of energy efficiency involving participants from various countries.
- Organized tailor-made programs and in-house training programs as per the request from the client.

## Project Management

- Establishment of Centre of Excellence in Energy Efficiency at Chennai** under Indo-Japan mutual collaboration to meet the international standards state of art training in Energy efficiency. A unique training facility available in south Asia pacific. It has all industrial utilities for providing Practical training /live demo on industrial energy conservation (Pumps, Fans, Compressors, Furnace and Boiler, R&AC, Lighting, Motors etc).

As a project coordinator from Indian side, handled complete project management, starting from site clearance, soil testing, design approval, fabrication of structures, supervised the construction activity, reviewed the project weekly with site engineer, assisted in commissioning of equipment, monitoring and evaluation of equipment performance, assisted in custom clearance and the project was successfully commissioned on time and practical training is imparted to National /International participants.

- Establishment of HVAC system at F-Block under "Centre of Excellence for Training in Energy Efficiency" at AIP Chennai** in collaboration with M/s. Asia Society for Social Improvement & Sustainable Transformation (ASSIST) and M/s Regin to facilitate new training area in "Building Energy Efficiency"

As a project coordinator from Indian side, handled complete project management, assisted in commissioning of equipment, monitoring and evaluation of equipment performance

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- **Establishment of 20kWp Roof Top Solar PV Power plant at AIP Chennai (Project worth USD 0.5 million)**  
Lecture Block under demonstration project of China Productivity Centre through M/s. Kenmec under APO provision along with M/s. Cares Renewables.

As a project coordinator from Indian side, Co-ordinated setting up and commissioning of the plant. The inauguration of the commissioned facility was done on 25th April 2017. The initiation led to more ties in green sustainability.

- **Handled 11<sup>th</sup> and 12<sup>th</sup> Plan Project Activities under “World Class Center for Excellence for Research and Training in Productivity and Quality” (WCCPQ). (Project worth USD 10 million)**

Involved in the project planning stage, preparation of design specifications, preparation of tender document, release of advertisement, selection of vendors, Monitored the project execution in all stages as per the scope stipulated in the tender document, seeking of clearance from various department, maintenance of financial head.

As a plan project coordinator facilitated establishment of various buildings, civil structures, industrial equipment's like pump, fan, compressor, DG set, industrial lightings, furnace, open burner, cooling tower etc.

## Publications

### Guidebooks on Energy Efficiency:

- A team member for the revision of following Guidebooks (4<sup>th</sup> Edition) on Energy Efficiency for the purpose of National Certification Examination. (Published by Bureau of Energy Efficiency, Govt of India, 2015)
  1. General Aspects on Energy Management and Audit.
  2. Energy Efficiency in Thermal Utilities.
  3. Energy Efficiency in Electrical Utilities.
  4. Energy Performance Assessment of Equipment & Utility Systems.

### Refresher Course Guidebook for Certified Energy Managers and Auditors:

- A team member for developing a Guidebook on latest development and advancements in the field of Energy Efficiency for the purpose of National Certification Examination. (Published by Bureau of Energy Efficiency, Govt of India, 2018)

### Guidebook for Energy Management Centre, Kerala

- A team member for developing a handbook on energy conservation opportunities for various utilities and sectors. (Published by Energy Management Centre, Govt of Kerala, 2017)

## Confidential Works Handled

In addition to the regular activities, I was designated as Group Head for Examination Cell for conduct of various confidential examination and recruitment process.

Few examinations handled are given below:

- **National Certification Examination for Energy Managers and Energy Auditors:**  
As per the energy conservation ACT, 2001, Bureau of Energy Efficiency is empowered to specify regulation for certification of Energy Manager and Energy Auditor and Certification exam is conducted by National Productivity Council on behalf of Bureau of Energy Efficiency every year in around 29 Centre's, across the country, which includes 56-time bound activities and strict confidentiality to be maintained.
- **Refresher course for Qualified Energy Managers and Energy Auditor:**  
Refresher course for renewal of certificate for already qualified auditors was conducted once in a year across PAN India.
- **Airport Authority of India**  
Projects was executed for southern and western region for setting up of question papers for various posts for departmental examination and recruitment.

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Previous Employer Details	
Organization: <b>GET Energy &amp; Automation</b>	02 <sup>nd</sup> July 2007 to 01 <sup>st</sup> August 2008
Job Title: <b>Assistant Engineer</b>	Work Experience: 1 year 1 Month
Job Responsibility: Energy Consultancy and Substation Automation.	
Certifications	
➤ <b>BEE Certified Energy Auditor –</b> <b>Qualified the National Certification Examination for Energy Managers &amp; Auditors- EA- 21266</b>	
➤ <b>Energy Management System (ISO 50001:2011 LA)</b> Successfully completed the Energy Management Systems (ISO 50001:2011) Lead Auditor Course conducted by, SGS India Pvt. Ltd. (an IRCA Certified Training Course)	

Training/Workshops/ Short Term Course Attended
1. Attended Practical Training Course in Energy Efficiency, Japan, Sumitomo Corporation, Japan & National Energy Development Organization (NEDO), Japan (2010)
2. Attended 2017- India Taiwan Collaboration Summit conducted on Green Technologies Forum
3. Self-Learning e-Course on Material Flow Cost Accounting (ISO 14051) organized by Asian Productivity Organization.
4. Self Learning e-Course on Occupational Health and Safety Management System (OHSAS 18001) organized by Asian Productivity Organization.
5. Attended 11th South Asia M&V Training and Certified Measurement & Verification Professional (CMVP) training at Chennai.
6. Attended LEED certification program

Areas of Interest
➤ Sustainable Development
➤ Renewable Energy
➤ Energy Management and Recovery
➤ Green building and Building Management System
➤ Project Management with monitoring and evaluation

Education & Certification	
<b>Master's in Project Management</b> From Alagappa University, Karaikudi, Tamil Nadu (First Class with Distinction)	<b>2020-22</b>
<b>Post Graduate Certificate in Energy Management</b> X Batch, 04 <sup>th</sup> August 2008 to 03 <sup>rd</sup> August 2009 from Dr. Ambedkar Institute of Productivity (AIP), National Productivity Council (NPC), Chennai with (First Class).	<b>2008-09</b>
<b>Bachelor of Engineering in Electrical and Electronics Engineering</b> from Anna University, Chennai with (First Class).	<b>2003-07</b>

Personal Profile	
Name	Velayutham V
Date of Birth	18 <sup>th</sup> February 1986
Sex	Male
Address	Gold Stone Inn Apartment, C Block, 2 <sup>nd</sup> Floor, SF8, Chelliamman Rd, Udayar Palayam Nagar, Chennai, Tamil Nadu 600058

I hereby declare that the above given particulars are true to my knowledge and belief.

Date: 07<sup>th</sup> February 2025

Place: Chennai, Tamil Nadu, India

  
(Signature)