

NPC Consultant Professional Profile

I. Personal Information

Name : P. R. Rajkamal
Date of Birth : 04th July 1988
Current Position & Domain : Deputy Director, Energy Management
Office Location : Regional Directorate - Hyderabad
Languages : Tamil (Read-Write-Speak),
English (Read-Write-Speak),
Telugu (Speak)
Contact : rajkamal.pr@npcindia.gov.in; 040 – 2473 3473;



II. Professional Summary

Seasoned Energy Management Consultant with a decade and a half of experience years in efficiency, sustainability, and cost reduction. Expertise in energy audits, regulatory compliance, and resource optimization. Proven track record of delivering substantial energy savings and promoting sustainability. Conducts impactful training programs and assists in GHG projects. Skilled at cross-functional collaboration, leveraging emerging technologies, and driving significant energy-saving initiatives.

III. Areas of Expertise

Primary Domains : Energy Management and Sustainability
Specialized Skills : Energy and Water Audits, Resource Conservation Studies, ISO 50001 and M&V Study
Industry Focus : Aluminium, Cement Plants, Pharmaceuticals, Chemicals, Thermal Power Plants, Textile Plants, Railways, Engineering Industries, MSME Cluster Studies and Buildings.

IV. Professional Experience

Current Position: Deputy Director **Organisation:** National Productivity Council, Hyderabad

Duration: March'2023 – Present

Key Responsibilities:

- Strategic role in productivity enhancement: Led energy audits, sectoral energy mapping, and water conservation assessments, optimizing energy and resource utilization for increased productivity
- Specific areas of consultation /expertise: Specialized in energy and CO2 footprint assessment, as well as water footprint evaluation
- Leadership and team management aspects: Served as Team Lead and Lead Team Member
- Key projects and initiatives led:
 - **Training Program:** Lead team member for executing National Level Capacity Building Program for State Designated Agencies (SDAs) under the Bureau of Energy Efficiency. Also led Capacity

Building Programs for officials of the Hyderabad Metropolitan Water Supply and Sewerage Board (HMWSSB).

Previous Position: Assistant Director **Organisation:** National Productivity Council, Hyderabad

Duration: Oct'15 – March'2023

Key Responsibilities:

- Strategic role in productivity enhancement: Led energy audits, sectoral energy mapping, and water conservation assessments, optimizing energy and resource utilization for increased productivity
- Specific areas of consultation /expertise: Specialized in energy and CO2 footprint assessment, as well as water footprint evaluation
- Leadership and team management aspects: Served as Team Lead and Lead Team Member
- Key projects and initiatives led:
 - **Detailed Energy Audits:** Led and contributed to energy audits and conservation studies at Ultra Tech Cement (11 plants) and KCP Cements (1 plant).
 - **Hindalco Industries Audits:** Lead team member for detailed energy audits and conservation studies at Hindalco Industries Ltd. & Hindalco Aditya Aluminium.
 - **Granules Pharma Study:** Conducted detailed energy audits and conservation studies at Granules Pharma, Hyderabad as a lead team member.
 - **IoT Demonstrations:** Involved in demonstrating and implementing energy efficiency through IoT in SMEs for Andhra Pradesh State Energy Conservation Mission (APSECM).
 - **Deepak Nitrate Audits:** Team member for energy audit and conservation studies at three units of Deepak Nitrate in Hyderabad.
 - **Aurobindo Pharma Study:** Contributed to detailed energy audits, conservation studies, and M&V study at four units of Aurobindo Pharma in Hyderabad.
 - **NTPC Water Balance and Compressed Air Studies:** Team member for water balance studies and compressed air studies at various NTPC plants.
 - **New Mangalore Port Trust:** Lead team member for water balance study at New Mangalore Port Trust.
 - **Building Energy Audits:** Conducted various building energy audits as a lead team member.
 - **KTPS Audit:** Team member for the mandatory energy audit study at Kothagudem Thermal Power Station (KTPS).
 - **MSME Walk-through Audits:** Conducted 75 walk-through audits for MSME units for the FTCCI and Yes Bank as part of CSR.
 - **Training Courses:** Lead faculty for intensive preparatory training courses for aspiring Energy Managers/Energy Auditors.

Previous Position: Technical Expert **Organisation:** Asia Society for Social Improvement and Sustainable Transformation (ASSIST), Chennai

Duration: July'2013 – September'2015

Key Responsibilities:

- Role: Technical Expert
- Specific areas of work/expertise: Execution of Energy Audit and Training Program
- Leadership and team management aspects: Worked as a Team Lead & Team Member
- Key projects and initiatives led:
 - **Resource Optimization Study:** Conducted as a team member in textile industries in Bangladesh.
 - **Capacity Building for Rural Youth:** Lead team members in executing programs aimed at empowering rural youth to become entrepreneurs.
 - **Resource Optimization Study:** Conducted for electroplating industries to promote sustainable consumption and production.

Previous Position: Analyst **Organisation:** Development Environenergy Services Ltd. (DESL), New Delhi

Duration: April'2012 – July'2013

Key Responsibilities:

- Role: Analyst
- Specific areas of work/expertise: Execution of Energy Audit
- Leadership and team management aspects: Worked as a Team Member
- Key projects and initiatives led:
 - **Energy Efficiency Study:** Conducted at **Dubai International Airport** as a team member.
 - **Energy Efficiency Study:** Carried out for forging, casting, and automotive industries as a team member.

Previous Position: Energy Engineer **Organisation:** Dalkia Energy Services Limited (DESL now renamed as EFS Facilities Services (India) Pvt. Ltd., Chennai

Duration: January'2011 to April'2012

Key Responsibilities:

- Role: Energy Engineer
- Specific areas of work/expertise: Execution of Energy Audit
- Leadership and team management aspects: Worked as a Team Member
- Key projects and initiatives led:
 - **Energy Efficiency Study:** Conducted for textile, dye, and chemical industries as a team member.
 - **Energy Efficiency Study:** Carried out at Apollo Tyre Manufacturing Company as a team member.

V. Major Project Experience in NPC [For each significant project, include:]

Project Title: Mandatory Energy Audit

Client Name: Ultratech Cements Limited (11 plants) and KCP Cements Ltd. (1 plant) **Type:** Private **Sector:** Cement

Role: Team Leader in some plants and Lead Team Member in others

Duration: Each plant project lasted 2 months, from start to completion.

Problem Definition: Mandatory Energy Audit in Integrated Cement Plant with Thermal Power Plant

Project Title: Mandatory Energy Audit

Client Name: Hindalco Industries Limited and Hindalco Aditya Aluminium **Type:** Private **Sector:** Aluminium

Role: Lead Team Member

Duration: Each plant project lasted 2 months, from start to completion.

Problem Definition: Mandatory Energy Audit in Integrated Aluminium Plant along with Thermal Power Plant

Project Title: Detailed Energy Audit

Client Name: Aurobindo Pharma Limited (4 plants), Hetero Labs Limited (1 plant) and Granules India Limited (1 Plant) **Type:** Private **Sector:** Pharmaceutical

Role: Lead Team Member

Duration: Each plant project lasted 2 months, from start to completion.

Problem Definition: Detailed Energy Audit in Pharma Unit

Project Title: Capacity Building Programs for the Officials of Hyderabad Metropolitan Water Supply and Sewerage Board (HMWSSB) – (40 plus programs)

Client Name: Telangana Renewable Energy Development Corporation Limited (TGREDCO) **Type:** Government **Sector:** Public Utilities

Role: Lead Team Member

Duration: Each training program lasted 2 days

Problem Definition: Hands-on Training Program in Utility System

Project Title: Energy Audit Conservation Study

Client Name: Ordnance Factory Board Medak (OFMK) **Type:** Government **Sector:** Defence Tank Manufacturing

Role: Team Member

Duration: The Project lasted 2 months, from start to completion.

Problem Definition: Energy Audit in Utility System

Project Title: Energy Audit Conservation Study

Client Name: Bharat Heavy Electricals Limited (BHEL) and Bharat Dynamics Limited (BDL) **Type:** Government **Sector:** Defence Manufacturing

Role: Team Member

Duration: Each plant project lasted 2 months, from start to completion.

Problem Definition: Energy Audit in Utility Systems

Project Title: Energy and Water Audit Conservation Study

Client Name: National Institute of Rural Development & Panchayati Raj (NIRD&PR) **Type:** Government **Sector:** Building

Role: Team Member

Duration: The project lasted 2 months, from start to completion.

Problem Definition: Energy and Water Audit for the entire campus building

Project Title: Water Balance Study

Client Name: New Mangalore Port Trust (NMPT) **Type:** Government **Sector:** Port

Role: Team Member

Duration: The project lasted 2 months, from start to completion.

Problem Definition: Water Balance Study at Port and Colony

Project Title: Energy Audit Conservation Study

Client Name: National Mineral Development Corporation (NMDC) and Nizam's Institute of Medical Sciences (NIMS) **Type:** Government **Sector:** Building

Role: Team Member

Duration: Each plant project lasted 1 month, from start to completion.

Problem Definition: Energy Audit Study at Building

Project Title: Water Balance Study

Client Name: National Thermal Power Corporation (NTPC) Plants – Korba, Mouda, Anta **Type:** Government **Sector:** Power Plant

Role: Team Member

Duration: Each plant project lasted 1 month, from start to completion.

Problem Definition: Water Balance Study at Power Plant

Project Title: Compressed Air Study

Client Name: National Thermal Power Corporation (NTPC) Plant – Korba and NTPC Tamil Nadu Energy Company Limited (NTECL) **Type:** Government **Sector:** Power Plant

Role: Lead Team Member

Duration: Each plant project lasted 1 month, from start to completion.

Problem Definition: Compressed Air Study at Power Plant

Project Title: Energy Audit Study

Client Name: Himatsingka Linens, Karnataka **Type:** Private **Sector:** Power Plant

Role: Team Lead

Duration: Each plant project lasted 1 month, from start to completion.

Problem Definition: Energy Audit Study at Power Plant

Project Title: Energy Audit Study

Client Name: South Central Railway (SCR) **Type:** Government **Sector:** Railway

Role: Lead Team Member

Duration: Each plant project lasted 1 month, from start to completion.

Problem Definition: Energy Audit Study at Railway Carriage Workshop

Project Title: Energy Audit Study

Client Name: Kothagudem Thermal Power Station (KTPS) and Chhatisgarh State Power Generation Corporation Ltd. (CSPGL) **Type:** Government **Sector:** Power Plant

Role: Team Lead

Duration: Each plant project lasted 1 month, from start to completion.

Problem Definition: Energy Audit Study at Power Plant

Project Title: Energy Audit Study

Client Name: Deepak Nitrate (3 plants) **Type:** Private **Sector:** Chemical

Role: Team Member

Duration: Each plant project lasted 1 month, from start to completion.

Problem Definition: Energy Audit Study at Utility Systems

VI. Educational Background

Highest Degree:

- **Degree:** Post Graduation Certificate Program in Energy Management (PGPEM)
- **Institution:** Dr. Ambedkar Institute of Productivity, Chennai **Type:** Full-Time
- **Year:** November'2010
- **Specialization:** Energy Management

Bachelor's Degree:

- **Degree:** Bachelor of Engineering (B.E.)
- **Institution:** Kongu Engineering College (KEC), Affiliated to Anna University **Type:** Full-Time
- **Year:** May'2009
- **Specialization:** Mechanical Engineering

Additional Professional Qualifications:


- Certified Energy Auditor (EA-33371) by the Bureau of Energy Efficiency (BEE), Ministry of Power, Government of India.

Certification:

I, the undersigned, certify that to the best of my knowledge and belief, this CV correctly describes myself, my qualifications, and my experience. I understand that I shall be responsible for any willful misstatement described herein.

Date: 10.02.2025

Place: Hyderabad



[P. R. Rajkamal]

Profile Update History

Last Updated: [10.02.2025]

Next Review Due: [10.08.2025]