

Salary Band 4	Energy Management Advisor
Professional 4T	
Reports to:	Component Manager Energy Efficiency, Nigerian Energy Support Programme (NESP)
Deputy:	--

A. Responsibilities

Under the general supervision of the Head of the Nigerian Energy Support Program (NESP), and under the direct supervision of the Head of the Energy Efficiency Unit (EEU), the NESP Energy Management Advisor (NEMA) will:

- Formulate and supervise the implementation of energy assessment projects in industry;
- Advise NESP partner institutions on the establishment of energy efficiency support mechanisms for industry;
- Support the establishment of an industrial energy management system (e.g. introduction of ISO 50001)
- Coordinate and monitor NESP energy efficiency pilot projects for industry and buildings
- Advice on best practice on EE and energy management

The following tasks, but not exhaustive tasks will be performed:

B. Tasks

- **Formulate and supervise the implementation of energy assessment projects in industry;**
 - Support the implementation of energy audit projects in the industrial sub-sector, through analysis and interpretation of energy demand and consumption data;
 - Support the Identification of energy key performance indicators (KPIs) in the industrial sub-sectors, and determine energy intensity;
 - Ensure that Peak demand, minimum load, load demand curve, and load profile are analysed, that energy consumption forecast, Greenhouse Gas (GHG) evaluation and possible cost benefits for pilot projects are conducted and performed;
 - Ensure Benchmarking and best practices;
 - Ensure, financial evaluation and modelling of selected pilot projects, and market analysis;
 - Formulate energy business plan;
- **Advise NESP partner institutions on the establishment of energy efficiency and energy management support mechanisms for industry**
 - Identify energy management financing mechanisms for the industrial sector in Nigeria;
 - Develop an energy audit tool box (An energy audit manual and tool) for the industrial sector in Nigeria;
 - Develop and implement energy awareness programs (EAP);
 - Determine training and education needs for energy management, and facilitate the provision of the learning process in coordination with NESP's Capacity Development Component;
- **Support the establishment of an energy management system in industry**
 - Establish an energy management system in the industrial sub-sector in Nigeria;
 - Integrate energy management and planning into operations' procedures;
 - Creation of a National framework for energy management in industry;
 - Creation/strengthening of energy management support structures (e.g. Nigerian Industry Programme for Energy Conservation (NIPEC));
 - Support the review, the scoping, and implementation process of energy management projects (prefeasibility-feasibility studies, development & engineering, construction & commissioning, economic & financial);
 - Organize/analyse/interpret energy management problems and provide cost effective solutions;
 - Ensure the setup of an effective energy management and information system (EMIS checklist);
 - Facilitate and supervise the integration and implementation process of ISO 5001 in the industrial sub-sector in Nigeria,
 - Act as ambassador for energy management in the industrial sub-sector in Nigeria.

– **General obligations**

The Energy management advisor:

- is familiar with all components of the programme, concepts and status of implementation and knows the corresponding experts and staff;
- represents the interest of the GIZ-assisted measure and always acts on its behalf;
- carries out important tasks for the programme, even if these are not explicitly cited in the job description
- updates information regularly on programme progress on the web based monitoring system and assists in the preparation of reports for the BMZ and EU

– **Other duties**

The Energy Management advisor will

- perform other duties and tasks at the request of the management

C. Required qualifications, competences and experience

Qualifications

- A university degree in the field of engineering (industrial, electrical, mechanical, energy technologies), or a university degree in energy management and planning, or any similar qualifications,
- Knowledge of energy saving opportunities, energy monitoring techniques
- Candidate must have at least 3- 5 years of professional experience in implementing energy efficiency measures or energy management planning, energy monitoring;
- You are familiar with the typical legal instruments for enhancing energy efficiency and have experiences in lobbying activities, and diplomatic approach to sensitive issues.
- Knowledge of federal, and other local laws, rules, policies, procedures and relevant codes applicable to energy efficiency;
- Proven experience and knowledge of national actors and institutions in the energy sector, particularly in the industrial sub-sector;
- Ability with advanced system architecture
- Candidate must enjoy networking with public and private sector actors, some of whom may have conflicting interests, and motivating them to contribute to the task at hand.

Other knowledge, additional competences

- Very good knowledge of English (speaking, writing) is required
- A very good working knowledge of Microsoft word, excel and power point.