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Question 1

What paid services could AIEM deliver for BEE? Before attempting to answer this question it may help to read the Energy Conservation Act at least 5 times to understand what services BEE has to deliver and what duties and responsibilities BEE has under the Act.

Answer

I felt very happy after going through the thought process. As a matter of fact this association is going to form in future and this shall be one of the support arm of BEE for effective implementation of Energy Conservation Act'2001 in the time to come. If the success of any organization is taken into account, then it shows participation from end user and the member of this association shall be the mouth piece of various end users.

Before I could go to the possible paid service for Energy Manager (hence forth shall be referred as EM) by BEE, as per my understanding of Energy Conservation Act'2001 the following are the area in which BEE is working at present.

- a) Energy Consumption Standard and Labelling for Equipment and appliances
- b) Develop list of designated Consumer to meet specific energy consumption norms
- c) Specify certification of Energy Manager and Accreditation of Energy Auditing firms
- d) Preparation of Energy Conservation Building Codes for new Commercial Buildings
- e) Maintain Central EC fund
- f) Undertake promotional activities in co-ordination with Centre & State level agencies
- g) Development of Energy Service Companies (ESCOs)
- h) Transform the market for Energy Efficiency and create awareness through measures etc.

To discharge these responsibilities, the functions of BEE are divided into three categories:

- I. Regulatory
- II. Market Development
- III. Information Management and other enabling functions etc.

Considering above fact, the EM can do following activities:

- During Standard & Labelling manufacture shall give test value/ theoretical value, Energy Manager shall give actual value and Energy Manager shall disseminate the information upto the user point. When actual value found to be more impressive than theoretical value and latest standard and labelling may be up graded accordingly.
- BEE can only take input from various sources, market and utilize the same to modify its standard. However, EM shall implement it in real ground.
- Moreover, it may happen that some area may skip/ not possible to identify theoretically and EM can identify such unnoticed areas as well.
- During audit, lot of data shall be generated and an EM can play to create lot of ideas for implementing it on experimental basis.
- Prescribe a standard theoretically is bit easy. However, in real field lot of problem arises. So EM shall be the voice of public/ user to interface with BEE.
- EM plays a major role for implementation



- In designing of course material, EM can help a lot by providing lot of case studies. It is the best way to make this learning more effective.
- Instead of books, preparatory training course etc, which is tedious for the learner at this stage. However e-learning process, e- interactive session shall be best suited solution, for which EM contributes a lot.
- EM can play an important role to design ECBC and its improvement in a continuous basis by up- grading the practical experiences.
- The validation of designated consumer and proper advice with energy audit reports for implementation at ground shall be only possible, when EM motivates/ involve various responsible people in this process from designated consumer side.
- EM can engage/ convince lot of companies for save and pay scheme for implementing/promoting Energy Conservation measure. Later on, this same company may be converted to ESCO in due course of time with support from BEE.

A. Regulatory

In this function, EM can give lot many feedbacks as like

- I. Input on real implementation process/ problem on standard labeling of various designated equipment and appliances shall help BEE to think in this direction.
- II. EM by experience design better implementation plan for ground realities.

B. Market development

- I. Field experience shall evolve lot of new testing methods, certification process.
- II. Device/ design efficient curriculum for upcoming new generation.
- III. Though up-gradation is a continuous process, but it needs dissimulation of information at a faster rate and EM can do a lot in this regard.

C. Information Management and other enabling function

- I. EM can be part of any awareness program organized by BEE.
- II. AIEM can create a forum to bring ESCO into a common fold for effective implementation of Energy Conservation Technology.
- III. AIEM be one of the bodies like other agencies to effectively implement BEE objectives.

As per my understanding, EM is confined to a particular industry and EA has got a wide spectrum. However, EM and Energy Auditor shall be part of AIEM.

Under Energy Conservation act'2001, EM/EA has certain roles & responsibilities and they are part of AIEM. So considering this fact, AIEM can render following services for BEE:

1. The awareness campaign in each company/Industries/individuals through a structural approach.
2. With regulatory framework, effective implementation of various requirement of Energy Conservation Act'2001 in a decentralized manner.
3. As an outcome of the discussion/interaction with end user, AIEM shall discuss with BEE for necessary modification in standard/governance to implement effectively on ground.
4. Propagate a lot to bring many companies working for Energy conservation areas into ESCO field and AIEM shall act as a buffer between End user & ESCO.
5. Bring lot of field experience into R&D hall for developing/promoting new experiences as a standard up gradation on continuous basis.
6. Magic eye to feed BEE what is happening in field.
7. Organizing Seminars/Conferences on different areas to give stress on a particular field.
8. Involve in regulatory framework modification process.

Question 2

Based on the duties and responsibilities of an energy manager, what services or benefits should AIEM offer to certified energy managers?

Answer

As per act, the responsibilities & duties of Energy Manager are given below:

Responsibilities

- Prepare an annual activity plan and present to management concerning financially attractive investments to reduce energy costs
- Establish an energy conservation cell within the firm with management's consent about the mandate and task of the cell
- Initiate activities to improve monitoring and process control to reduce energy costs
- Analyse equipment performance with respect to energy efficiency
- Ensure proper functioning and calibration of instrumentation required to assess level of energy consumption directly or indirectly
- Prepare information material and conduct internal workshops about the topic for other staff
- Improve segregating of energy consumption data down to shop level or profit centre of a firm
- Establish a methodology how to accurately calculate the specific energy consumption of various products/services or activity of the firm
- Develop and manage training programme for energy efficiency at operating levels
- Co-ordinate nomination of management personnel to external programs
- Create knowledge bank on sectoral, national and international development on energy efficiency technology and management system and information denomination
- Develop integrated system of energy efficiency and environmental up gradation
- Wide internal & external networking
- Co-ordinate implementation of energy audit/efficiency improvement projects through external agencies
- Establish and/or participate in information exchange with other energy managers of the same sector through association

Duties

- Report to BEE and State level Designated Agency once a year. The information with regard to the energy consumed and action taken in the recommendation of the accredited energy auditor, as per BEE Format.
- Establish an improved data recording, collection and analysis system to keep track of energy consumption.
- Provide support to Accredited Energy Audit Firm retained by the company for the conduct of energy audit.
- Provide information to BEE as demanded in the Act, and with respect to the tasks given by a mandate, and the job description.
- Prepare a scheme for efficient use of energy and its conservation and implement such scheme keeping in view of the economic stability of the investment in such firm and manner as may be provided in the regulations of the Energy Conservation Act.

Based on above duties and responsibilities, AIEM shall give following services or benefits to EM:

1. Dissimilate experiences gain from the industry to other members of AIEM as an expert/guest speaker. Also the same can be part of Seminar related to particular industry personals.
2. Dissimilation of knowledge in up-coming technologies to AIEM, which ultimately to be conveyed to BEE for necessary action.
3. Attitudinal problem is one of the major issues to handle in Indian condition. So to implement Energy Conservation measures an effective way needs to be invented to suit the different industry.
4. EM personally can work on specialized area like developing effective format, testing method, systematic approach to a problem etc. to suit to different industry.
5. Being association member, every individual has to be abiding by ethics of its objective & shall have to contribute for its betterment.
6. Design & develop specific energy consumption index of respective company, Indian standard, International standard and ultimately set target to suit it in Indian scenario.

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