# **Accreditation of ESCOs**



### Background

- Energy saving potential in the range of 23% -46% has been identified through energy audits conducted in public buildings
- The potential is largely untapped, partly due to lack of effective delivery mechanisms for energy efficiency.
- Implementation of EE interventions are hampered by institutional, procedural and process barriers, particularly the inability of energy managers to assess and guarantee energy savings in a manner that can provide comfort and confidence to the users.
- The overall energy efficiency market under performance contract in India has the potential to save about 54 billion units of electricity annually.



### **Barriers to Energy Efficiency**

- Lack of information about comparative energy use.
- Risk due to lack of confidence in performance of new technologies.
- Higher cost of EE technologies.
- Asymmetry in sharing of costs and benefits-especially in building sector.



### **Energy Service Companies (ESCOs)**

- Develop, design and finance Energy Efficiency projects.
- Install and maintain the energy efficient equipment involved.
- Measure, monitor and verify the project's energy savings
- Assume the risk that the project will save the amount of energy guaranteed.



### **Need for Accreditation**

- An exercise for expanding the number of existing ESCOs through an open invitation and evaluation process was taken up by BEE.
- In order to create a sense of credibility amongst the prospective agencies that are likely to secure the services of an ESCO as well as the financial institutions, a process of rating ESCOs was taken up through CRISIL and ICRA.
- Rating was carried out in terms of success in implementation of energy efficiency projects based on performance contracting, availability of technical manpower, financial strength, etc.



### **Methodology followed**

- A set of criteria was devised to evaluate :
  - Business Risk Factors- essentially track record and market position in ESCO/energy management businesses
  - Organizational Risks- ability of the management to gear up for ESCO contracts
  - Financial Risks- financial strength of the company to invest in ESCO projects
- Data provided by the ESCOs being graded were the primary source of information. Information available with BEE was also utilized
- Extensive interaction with key functionaries of the companies, bankers and auditors



### **Key areas evaluated**

- Track Record and Market Position (Weightage : 20 %)
  - Years in the ESCO/energy management business
  - Number and nature of energy audits carried out till date.
  - Client Profile
  - Number of different industries served.
  - Order book strength as measured by ratio of current order book/previous years turnover.
  - Number of energy management projects completed.
  - Certification and quality systems.
  - Technology tie-ups.
  - Patents held by the company.
  - R&D facilities.



### **Key areas evaluated**

Organizational risks

(Weight age : 40% points)

- Constitution, ownership structure and parentage
- Management evaluation and quality of organizational structure, internal control and systems.
- Employee strength in terms of numbers, qualification and experience.
- Number of certified energy auditors.
- Maximum number of projects handled at a time.



### **Key areas evaluated**

- Financial risks *(Weight age : 40% points)* 
  - Annual turnover from the ESCO/energy management business
  - Profit margins of the ESCO business.
  - Overall financial strength as reflected by the capital structure and debt servicing indicators like net cash accruals/total debt
  - Receivables management.
  - Financial flexibility arising from access to cash flows/profits from other business.



## **Grading Scale**

ICRA / CRISIL- BEE Grading	Definition	Score
GRADE 1	Very High	85 and above
GRADE 2	High	70-84
GRADE 3	Good	55-69
GRADE 4	Below Average	40-54
GRADE 5	Poor	0-39



### **The ESCO Grading Distribution**

55 per cent of the graded entities have above average execution capability in 2009 against 70 per cent in 2008.



### **Advantages of Accreditation**

- •Availability of adequate and proper manpower: The availability of experienced technical personnel
- •Financial capability: The company's cash flows, funding pattern, profitability for the past and also the ongoing projects
- •Financial flexibility: The ability to raise additional sources of finance for expansion.
- •Technical due diligence: The exercise of accreditation of ESCOs by BEE through rating agencies CRISIL/ICRA would help in providing the technical due



### **Advantages of Accreditation**

- •Enhance Credibility: enhance credibility to the nascent industry and increase investor confidence
- •Extensive Rating: overcoming the barrier of inadequate information about the 'ESCO based performance contracting'.
- •**Potential ESCOs**: New organisations that have a potential to become ESCOs are adequately addressed through these ratings
- •**Create larger pool** : increase the number of ESCOs and encourage market transformation.
- •Market Position : The market position of the ESCO in terms of the total existing business and his position as compared to its competitors.



### **Advantages of Accreditation**

- •The competitiveness of the contractor: achievements of the targeted savings in energy and the price will affect his market position.
- •Quality of projects executed: The quality of future projects in terms of achievements of the targeted efficiencies within the budgeted cost
- •Successful project implementations in the private sector ESCOs in India have executed a large number of meaningful projects in energy efficiency over the past three years.
- •Better awareness creation could spur larger energy efficiency projects- Energy users would be better placed if there were some guidelines available on the need and requirement for undertaking such projects.
- •Weak financial strength constrains growth of ESCOs- to execute its first project, a large seed capital is an essential requirement.



### Impact of Accreditation

- Growing participation of companies in related areas
  - Manufacturers of solar energy products
  - Power distribution companies
  - Manufacturers of automation products
  - Consultants and project advisors
- Mix of large and small and medium enterprises
  - Enjoy good reputation among clientele
  - Executed large number of projects
  - Thrust on energy efficient products being used in projects
  - Focus on using renewable energy
  - Increasing use of technology to optimize power consumption



### **Impact of Accreditation**

- Significant energy savings almost 30%
  - ESCO usually meet their commitments on energy savings
- Benefits are tangible
  - Energy savings can be calculated
  - Easy buy-in from the customer
- Size is not a determinant of technical capability
  - Smaller-sized ESCO have executed complex projects
- Passionate and enthusiastic responses from ESCO
  - Passion about the business
  - Ability to see the long term potential of energy efficiency projects
  - Business with a strong cause



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