

# Energy Management

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## Coordinator

Mr. Arindam Dutta

## Admission Criteria & Selection Procedure

The minimum qualification for admission to the Course is a Bachelor's Degree with Honors in Science / Business Administration or Bachelor's Degree in Engineering / Technology / Law or its equivalent from any University recognized by the University of Calcutta.

Although such graduates are eligible to apply for MBA-PS Courses, however preference for specialization is given to the graduates as indicated below:

B.E/B.Tech in Engineering, AMIE, Science Graduate (Physics, Chemistry, Mathematics and Economics) / Bachelor in Business Administration or Bachelor / Master in Computer Applications.

The applicants for the admission to the MBA-PS Course are required to take MAT / CAT / CMAT / JEMAT / GATE/ GMAT. The candidates short listed on the basis of cut-off-marks in the above selection tests would be required to appear for a Group Discussion and Personal Interview at IISWBM, Kolkata. The final selection of candidates will be strictly on the basis of merit.

## Scope of Employment

- ✚ Supply Side Energy Manager in Power Industries
- ✚ Demand Side Energy Manager in almost all fields of economic activities such as Refinery & petrochemicals, Housing, Real Estate & Construction, Cement,

Pharmaceuticals, Infrastructure, Manufacturing, Chemicals, Automobile, Mining, Iron & Steel and many more.

- ✚ Domain expert of Carbon and Energy Management in various software companies
- ✚ Green Building Sector
- ✚ Domain expert for Energy Monitoring & SCADA
- ✚ Energy Analyst in reputed consultancy firms
- ✚ Renewable Energy Sector( Mainly Solar, Small Hydro, Wind and Biomass)

For the first time in India, only the students of MBA PS with Energy Management at IISWBM will be automatically eligible to appear in Certified Energy Manager Examination (International) of the Association of Energy Engineers (USA) – the widely recognized certification in Europe and Middle-East as well. This would enhance the global reach of students’ placement. The examination (<http://www.aeecenter.org/i4a/pages/index.cfm?pageid=3351> accessed in December 2016) will be conducted at IISWBM.

In the case of India, the employment opportunities in renewable energy sector would increase many fold by the year 2015 (short term) and also by 2020 (medium term). A ‘bottom-up’ approach has been adopted to arrive at the employment opportunities. The following table shows estimated employment considering moderate growth in each of the sectors as Scenario 1 and high growth as Scenario 2.

Scenarios	Estimated Current Employment (No.)	Estimated Employment by 2015 (No.)	Estimated Employment by 2020 (No.)
Scenario 1 (Moderate Growth)	3,50,000	5,89,000	10,51,000
Scenario 2 (High Growth)		6,99,000	13,95,000

( Source: "Human resource development strategies for Indian Renewable energy sector", MNRE,2010)

### Students’ Achievements and Events

- ❖ Student’s secured admission in Energy Management course will be eligible International Students Scholarship delivered by Association of Energy Engineers (AEE) USA. Every year 2-3 students from Energy Management Department received the international scholarship with other premier institutes of the world like North Carolina State University(USA), University of Houston(USA), New York Institute of Technology(USA), University of Petroleum and Energy Studies(INDIA) etc.( For detail refer [www.aeeindia.org](http://www.aeeindia.org))



*Energy Management student receiving international scholarship award*

- ❖ Every year IISWBM energy management with AEE-India Chapter observes "National Energy Conservation Day" on 14<sup>th</sup> December supported by "Ministry of New & Renewable Energy (Govt. of India), IREDA" & other esteemed government & private organizations. Students of Energy management took a vital part of organizing events and exhibition in the event.



Exhibition organized by students

- ❖ The energy department from its inception doing various research, consultancy and energy studies funded by various Govt. and esteemed Private organizations like Coal India Ltd., Power Finance Corporation Ltd., IREDA, WBPDC, WBSEDCL, Kolkata Municipal Corporation etc. Students are the workforce for the projects, so they get a chance to learn and earn during the study.



Students measuring power in a Substation



Field visit at  $4\text{kW}_p$  Solar Roof top power plant