



Institute of Maintenance Management Education



COURSE ON RENEWABLE ENERGY PROJECT FINANCING



INTRODUCTION

Renewable energy is the energy for the future. As the worldwide installed capacity of renewable energy projects increase, there is need of professional training in the technical and financial aspects of renewable energy. The course on Renewable Energy Project Financing is a body of knowledge designed for various executives in the field of energy, operation, maintenance, projects, etc. who wish to sharpen their financial and analytical skills in renewable energy and aim to update their knowledge of project financing.

The course will deepen the understanding of various technologies in renewable energy – why project financing is needed, how project financing helps the developers and how project is modeled and analyzed.

BRIEF DETAILS OF COURSE COVERAGE

The course covers a wide variety of issues ranging from technical, financial and overall project structuring. The contents of the course are briefly noted as below:-

Basics of Finance

Chapter 1: Time Value of Money – Concept, Understanding Timelines, Frequency of Compounding, Annuities, Perpetuity, Present and Future Values of Uneven Cash Flows, Amortization, Funding an Investment Plan, Cash Flow Additivity Principle; Discounted Cash Flow Applications – Difficulties with the IRR Rule, Calculating Rate of Return of an Investment; Chapter 2: Probability and its Concepts – Basic Terminologies, Properties of Probability, Unconditional and Conditional Probabilities, Independent Events and Mutually Exclusive Events, Rules of Probability, Calculating Expected Values, Variance, Covariance and Correlation; Chapter 3: Financial Statements - Income Statements, Components of Income Statements, Presentation Format, Depreciation and Amortization, Common Size Income Statements, Margin Ratios; Balance Sheets – Elements of Balance Sheets, Presentation Formats, Current Assets and Current Liabilities, Non-current Assets and Non-current Liabilities, Shareholder's Equity, Common-size Balance Sheets, Liquidity and Solvency Ratios; Cash Flows - Types of Cash Flows, Direct and Indirect Methods, Common-size Cash Flow Statements, Free Cash Flow to Firm (FCFF) & Equity (FCFE) and Performance & Coverage Ratios.

Financial Analysis

Chapter 4: Techniques in Financial Analysis – Tools and Techniques in Financial Analysis, Calculate and Interpret Activity, Liquidity, Solvency, Profitability and Valuation Ratios, Dupont Analysis, Calculating Sustainable Growth, Calculating Business Risk; Chapter 5: Capital Budgeting – Capital Budgeting Process and Principles, Evaluation of Projects Using NPV, IRR and Payback Methods, Hurdle Rates, Conflict Project Rankings, Multiple IRR and No IRR Problems; Chapter 6: Weighted Average Cost of Capital (WACC), Optimal Capital Budget, Capital Asset Pricing Model (CAPM), Dividend Discount Model, Bond Yield with Risk Premium Model, Project Beta and Cost of Capital, Calculating Break Points.

Renewable Energy Technologies

Chapter 7: Overview of RE Technologies – Solar, Wind and Biomass.

Renewable Energy Project Financing and Evaluation

Chapter 8: Overview of Project Financing – What is Project Financing, Rationale of Project Financing, Advantages and Disadvantages, Project Viability Analysis, Contracts and Agreements, DCF Analysis, Sources of Funds; Chapter 9: Financial Modeling of RE Projects - Preparing an Assumption Sheet, Preparing Cash Flow Projections, Calculating Project's Debt Repayment Capacity, Calculating Project IRR, Preparing Scenarios, Case Study in MS-Excel.

MODUS OPERANDI

The course is conducted through distance mode. Complete set of course materials are despatched to the candidates after registration. After going through the course contents thoroughly, candidates complete their answers for the questions at the end of each chapter and send back their answer papers to IMME within the stipulated period. The answers could either be sent in a soft copy or a hard copy. Finally, based on the performance evaluation criteria, successful candidates are awarded REPF certificates.

DURATION OF THE COURSE

3 months

PARTICIPATION

Executives and professionals from energy and related fields.

REGISTRATION DETAILS

To obtain registration details for the Course on Renewable Energy Project Financing, please mail to immeinstitute@gmail.com thereby giving your particulars, such as name, designation, company, address and mobile no.

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