

Capital Budgeting and ROI Analysis for Renewable Power Projects

COURSE OVERVIEW

This course offers a structured approach to evaluating renewable power projects using financial modelling, capital allocation, and risk-adjusted investment analysis. Participants will learn to identify and measure key financial metrics such as NPV, IRR, payback period, and LCOE. The course covers how developers, investors, and policymakers apply capital budgeting tools to compare projects, prioritize investments, and secure financing. Through hands-on exercises and case studies, delegates will build financial models, run scenario analyses, and assess returns across various renewable energy portfolios.

WHO SHOULD ATTEND?

This course is designed for renewable energy project developers, financial analysts, investment officers, utility managers, policymakers, and consultants who are involved in planning, financing, and managing energy projects. It is particularly beneficial for professionals in project finance, asset management, and corporate sustainability teams seeking to deepen their knowledge of capital budgeting principles, risk evaluation, and performance measurement.

COURSE OUTCOMES

Delegates will gain the skills and knowledge to:

- Apply key financial metrics such as NPV, IRR, and payback period to assess project viability.
- Construct and analyze cash flow models for renewable energy investments.
- Analyze project lifecycle costs using Levelized Cost of Energy (LCOE) frameworks.
- Use digital tools and Excel-based models to forecast project profitability and performance.
- Integrate ESG and sustainability metrics into investment decision-making.
- Communicate investment outcomes effectively to stakeholders and financiers.

KEY COURSE HIGHLIGHTS

At the end of the course, you will understand;

- The fundamentals of capital budgeting in the renewable energy context.
- How to apply ROI and IRR methodologies to assess renewable power project profitability.
- The relationship between project cash flow structures and investment returns.
- The integration of sustainability indicators into financial performance analysis.
- Best practices in financial modeling for renewable energy feasibility and ROI assessment.
- Case studies demonstrating successful capital allocation strategies in solar, wind, and hybrid power investments.

All our courses are dual-certificate courses. At the end of the training, the delegates will receive two certificates.

1. A GTC end-of-course certificate
2. Continuing Professional Development (CPD) Certificate of completion with earned credits awarded.