Effective Finance Modelling in the Power Industry Course

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Boston, Massachusetts (USA)



Effective Finance Modelling in the Power Industry Course

Ref: 20222759_211586 Location: Boston, Massachusetts (USA) Fees: 5900 GBP

Course Description

This comprehensive 1-week course equips participants with advanced financial modelling skills tailored for the power industry. Attendees will learn to develop sophisticated models for energy projects, analyze risks, and make informed investment decisions. The course covers industry-specific considerations, best practices in model construction, and practical applications.

Learning Objectives

- Develop robust financial models for power industry projects
- Apply industry-specific valuation techniques and metrics
- Conduct sensitivity and scenario analyses for risk assessment
- Integrate regulatory and market factors into financial projections
- Optimize capital structures for energy investments
- Create dynamic dashboards for decision-making support

Course Modules

Day 1: Foundations of Power Industry Financial Modelling

- Overview of power industry economics and market dynamics
- Key financial metrics and KPIs for energy projects
- Building flexible and scalable model structures
- Best practices in financial model design and documentation

Day 2: Revenue and Cost Modelling for Power Projects

- Modelling electricity generation and capacity factors
- Forecasting energy prices and demand
- Structuring operating and maintenance costs
- Incorporating regulatory frameworks and subsidies

Day 3: Capital Expenditure and Financing Structures

- Modelling capital expenditures for various power technologies
- Structuring debt and equity financing options
- Calculating cost of capital in the energy sector
- Optimizing capital structure and project returns



Day 4: Risk Analysis and Scenario Planning

- Sensitivity analysis for key project variables
- Monte Carlo simulation for probabilistic outcomes
- Scenario planning for market and regulatory changes
- Stress testing financial models

Day 5: Advanced Topics and Model Integration

- Modelling power purchase agreements PPAs
- Integrating environmental, social, and governance ESG factors
- Creating dynamic dashboards for decision support
- Case study: Comprehensive power project financial model

Practical Wins for Participants

- Ability to build comprehensive financial models for power projects
- Enhanced skills in risk assessment and scenario analysis
- Improved decision-making capabilities for energy investments
- Proficiency in creating insightful financial reports and presentations

