



*Training Course:
Energy Value Creation*

*28 October - 1 November 2024
Accra (Ghana)*

Training Course: Energy Value Creation

Training Course code: EW234783 From: 28 October - 1 November 2024 Venue: Accra (Ghana) - Training Course Fees: 7140 € Euro

Introduction

This training course aims to provide the knowledge and skills to analyze and evaluate investment decisions to distinguish value-creating from value-destroying ventures. Finding energy resources is an uncertain business. Historically, many ventures failed, yet some successful projects also led to business success and significant value creation. Then, what is a good project opportunity?

The answer is likely multi-dimensional; it is about understanding disciplines from subsurface to economic, comprehensive coverage that eventually reflects our understanding of the value potentials of energy projects

Course Objectives:

By the end of this Energy Value Creation training course, the participants will be able to:

- Understand the principles of finance and economic decision analysis in the energy business
- Gain skills in effective formulation of investment decisions
- Understand the challenges of investment under uncertainty
- Gain skills in using analytical tools, including probabilities and decision trees
- Apply the knowledge and skills to the analysis of value-creating decisions

Target Audience:

- Analysts working on feasibility analysis of energy projects
- Engineers involved in the investment decision process
- Managers with responsibility or interest in the investment decision process
- Decision-makers within corporations or government bodies
- Individuals interested in expanding their skills and knowledge in the field of energy value creation

Course Outline:

Day 1

PRINCIPLES OF CORPORATE FINANCE AND VALUE CREATION

- Introduction to Energy Value Chain
- Analysis of decision making and corporate objectives
- Understanding uncertainty in Energy Projects
- Modelling Uncertainty
- Using probability to encode uncertainty
- Economic Consideration: Informed Analysis for value-creating decisions

Day 2

FROM UNCERTAINTY TO VALUE

- Comparative Analysis of Value
- Comparisons of Value Across Time
- Comparison of value across various levels of uncertainty
- Risk vs Uncertainty: Theory and Practice
- Principles of Discounted Cash Flow

Day 3

PROJECT CASH FLOWS, UNCERTAINTY, AND RISK

- Technical and Market Risks
- The Effect of Diversification
- Risk-Return Tradeoffs
- The Capital Asset Pricing Model CAPM
- Discounting Risk Premiums

Day 4

PROJECT APPRAISALS

- Uncertainty, risk, and financial return at Project and Portfolio Level
- Financing Leverage and its Effect
- General Investment Analysis, Energy Markets, and Prices
- Estimation of the Discount Rate
- Introduction to certainty-equivalent approach to investment analysis

Day 5

CHALLENGES IN THE ENERGY LANDSCAPE

- Managerial flexibilities and uncertainty
- Energy commodities and exchanges, market instruments to hedge risk
- Decision trees as a modeling and communications tool
- An integrated approach to valuation and analysis of value creation
- Future Challenges: environmental issues, emission taxes, and emission markets

Registration form on the Training Course: Energy Value Creation

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