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COURSE BROCHURE

Energy Futures Scenario Building Training Course

27 – 31 December 2026
Kuala Lumpur

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Energy Futures Scenario Building Training Course

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Energy Futures Scenario Building is a 1-week training course for strategy, planning and business development staff in energy companies, centred on one work product: a scenario set with a signpost watchlist that links each plausible future to the investment and workforce choices it would demand. Electrification, storage and hydrogen are moving faster than single-line forecasts can follow. Jupiter Prime Training runs this course for teams that must commit capital under deep uncertainty.

Why Energy Futures Scenario Building Matters Now

Three pressures make single forecasts fragile. Electric vehicles, heat pumps and data centres are reshaping demand curves, while falling battery costs change when and where power is worth most. Investors and lenders ask how a portfolio performs if hydrogen scales slowly or digital grids arrive early. Workforce planners need to know which skills a utility or gas network will need. A company that builds plausible, distinct futures and watches the right early signals can stage its commitments; one that bets on a single view risks stranded assets and missed openings.

Who Gains Most from Energy Futures Scenario Building

- Strategy staff who frame long-range questions for boards and executive committees
- Planning staff who translate demand outlooks into capacity, network and supply options
- Business development staff who screen new markets in storage, charging and low-carbon fuels
- Investment and portfolio analysts who test capital projects against alternative futures
- Workforce planners who anticipate skill shifts from new technologies and business models

A corporate strategy unit that brings planning and business development colleagues gains most, because scenarios change decisions when their users built them.

Energy Futures Scenario Building Capabilities

Participants move from trend lists to structured futures.

- Identify driving forces and critical uncertainties in electrification, storage and hydrogen — framing the focal question
- Build three or four internally consistent scenario narratives — executive strategy discussions
- Quantify demand and supply pathways for each scenario — capacity and network planning
- Design signposts and trigger points that show which future is unfolding — board monitoring

- Test investment options for robustness across scenarios — capital allocation committees
- Translate scenario implications into workforce and skills choices — human resources leaders

Key Energy Futures Scenario Building Terms

- Scenario — a plausible, consistent story of how the energy system could develop, used to test choices.
- Critical uncertainty — a highly influential and unpredictable driving force used to separate scenarios.
- Signpost — an observable indicator showing that one scenario is becoming more likely.
- Trigger point — a pre-agreed signpost threshold at which a company commits, delays or abandons an option.
- Robust option — an investment that performs acceptably across all scenarios, even if it is best in none.
- Electrification — the shift of transport, heating and industrial processes from direct fuel use to electricity.

Energy Futures Scenario Building Day by Day

Day 1: Forces Reshaping the Energy System

- Focal Question Framing — Setting The Horizon And Decisions Scenarios Inform
- Demand Driver Mapping — Population, Industry, Cooling And Data Centre Growth
- Electrification Of Transport And Heat — Load Shape And Peak Demand Shifts
- Storage And Flexibility Cost Curves — Value Of Shifting Energy In Time
- Hydrogen And Low-Carbon Fuel Pathways — Industrial Demand And Export Options

Day 2: From Uncertainties to Scenario Logic

- Driving Force Ranking By Impact And Uncertainty — Choosing Scenario Axes
- Two-Axis Scenario Matrix — Structuring Four Distinct Energy Futures
- Scenario Narrative Writing — Consistent Storylines For Executive Audiences
- Digital Grid And Customer Behaviour Assumptions — Decentralised Versus Central Futures
- Wild Card Identification — Low-Probability Shocks Outside The Main Scenarios

Day 3: Quantifying Energy Futures

- Scenario Demand Pathways — Converting Narratives Into Electricity And Fuel Volumes
- Supply Mix Implications — Generation, Storage And Network Build Requirements
- Price And Cost Envelopes — Ranges That Shape Project Economics
- Emissions Trajectories Per Scenario — Exposure To Carbon Pricing And Targets
- Sensitivity Testing Of Key Assumptions — Which Inputs Move Outcomes Most

Day 4: Investment and Workforce Choices

- Robustness Testing Of Capital Projects — Performance Across All Scenarios
- Real Options And Staged Commitments — When To Invest, Wait Or Exit
- Portfolio Hedging Across Business Lines — Balancing Legacy And New Energy Assets
- Workforce Skills Scenario Mapping — Future Roles, Retraining And Recruitment Needs
- Partnership And Market Entry Options — Positioning For Emerging Value Pools

Day 5: Practising the Scenario Signpost Watchlist

- Signpost Design And Data Sources — Indicators That Separate The Futures
- Trigger Point Setting — Linking Thresholds To Pre-Agreed Strategic Moves
- Applying Scenario Logic To A Live Case — Utility And Oil Company Examples
- Applying Robustness And Workforce Findings — Ranking Strategic Options
- Scenario Set And Signpost Watchlist Completion — Owners, Indicators And Review Cycle

Applying Energy Futures Scenario Building After the Course

- Run an uncertainty ranking session to agree the scenario axes for the next strategy cycle.
- Test the largest planned capital projects against each scenario for the investment committee.

Energy Futures Scenario Building Questions FAQ

What is energy futures scenario building and why does it matter now?

Energy futures scenario building is the structured creation of several plausible energy system futures to test strategy. It matters now because electrification, storage and hydrogen are advancing at uncertain speeds, so a single forecast can mislead investment and workforce choices.

Which roles gain most from energy futures scenario building training?

Strategy, planning and business development staff gain most, along with investment analysts and workforce planners. You benefit if you frame long-range questions or argue for capital projects.

How does this energy futures scenario building course differ from an energy planning course?

It focuses on contrasting futures and early signals rather than one optimised plan. An energy planning course usually builds a least-cost expansion path; here you build several futures, then test investments and skills against all of them.

What do you bring back from energy futures scenario building training?

You bring back a scenario set for your own company with a signpost watchlist, trigger points and owners. You also bring a repeatable robustness testing method.

Energy Futures Scenario Building: The Way Forward

The scenario set and signpost watchlist give strategy teams a shared view of how the energy system could unfold and what would show it happening. Its first use is the next capital allocation round, where it decides which projects to stage or defer. Planners track its signals each quarter. It is worth revisiting when a signpost crosses its trigger point.