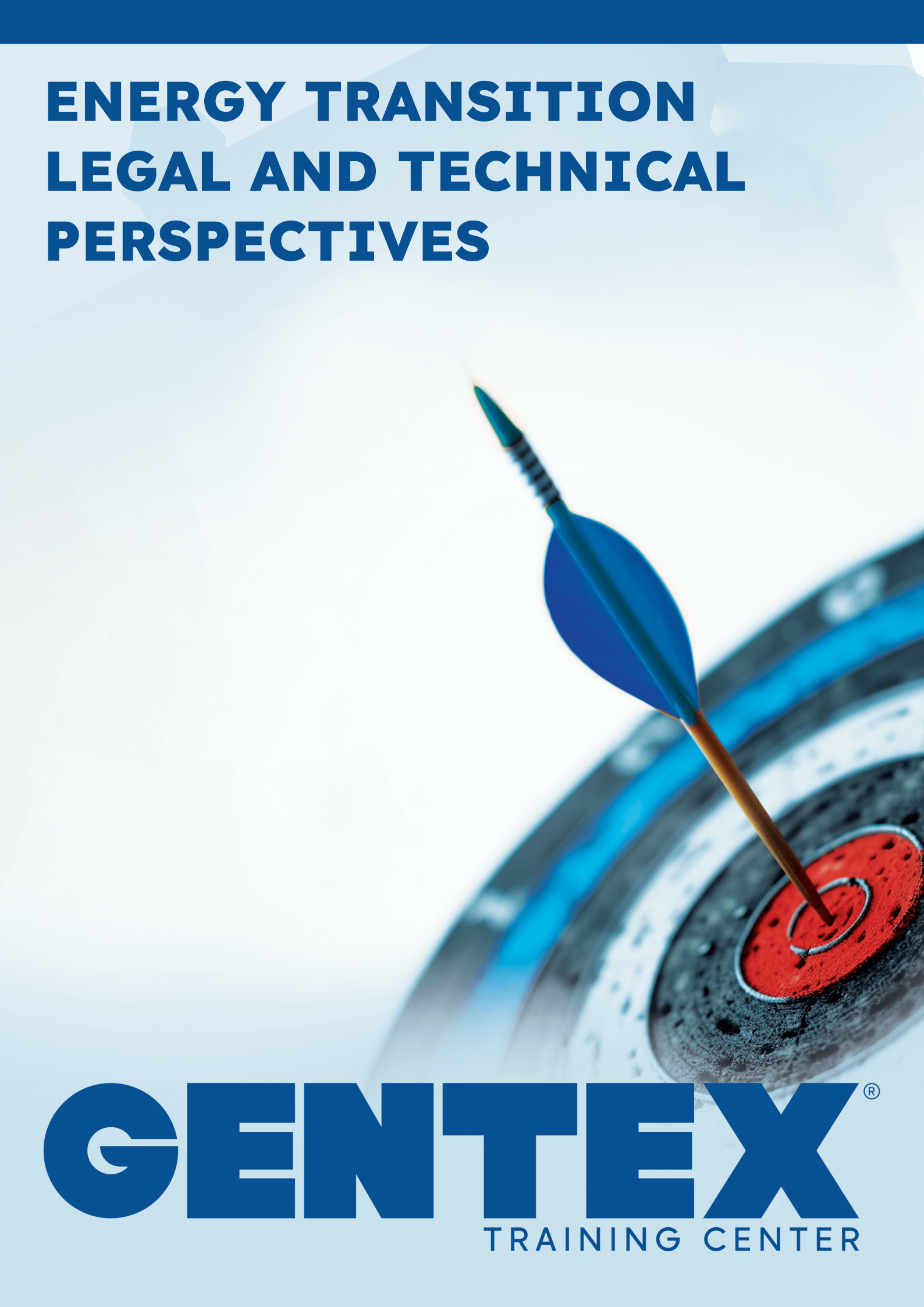
ENERGY TRANSITION LEGAL AND TECHNICAL PERSPECTIVES



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Introduction

Energy Transition Legal and Technical Perspectives examines how the shift to low-carbon energy reshapes regulation, contracts, and engineering practice. This Training Course covers decarbonisation targets, renewable project structures, carbon markets, and grid integration. Participants study power purchase agreements, environmental permitting, hydrogen and storage regulation, and climate disclosure duties. Furthermore, the programme connects legal frameworks to technical realities through project cases and regulatory comparison. As a result, delegates leave able to advise on energy transition projects with both legal and technical fluency.

Energy Transition Legal and Technical Perspectives Course Objectives

- Define the energy transition and its main technological pathways.
- Interpret climate policy frameworks including the Paris Agreement and NDCs.
- Explain carbon pricing, emissions trading, and carbon border mechanisms.
- Structure renewable energy projects and supporting contractual models.
- Analyse power purchase agreements and grid connection requirements.
- Apply environmental permitting and impact assessment obligations.
- Assess hydrogen, battery storage, and carbon capture frameworks.
- Comply with climate disclosure rules including TCFD and ISSB standards.
- Evaluate energy transition risk in contracts and investment decisions.
- Advise on just transition, community, and workforce obligations.

Course Methodology

- Interactive workshops using real energy transition project cases.

- Structured comparison of legal regimes across jurisdictions.
- Technical briefings on renewables, storage, hydrogen, and grid systems.
- Guided analysis of power purchase and support scheme contracts.
- Facilitated discussion of climate disclosure and carbon market mechanics.
- Action planning that converts each session into a workplace commitment.

Who Should Take This Course

- Legal counsel and regulatory affairs professionals.
- Energy and utility project developers.
- Renewable energy engineers and technical leads.
- Sustainability, ESG, and climate officers.
- Commercial, finance, and investment analysts.
- Government energy policy and regulator staff.
- Consultants advising on energy transition projects.

Energy Transition Legal and Technical Perspectives Course Outlines

Day 1: The Energy Transition and Climate Policy Framework

- Defining the energy transition and its drivers.
- The Paris Agreement, NDCs, and net-zero commitments.
- National energy strategies and decarbonisation roadmaps.
- Renewable targets, renewable portfolio standards, and support schemes.

- Carbon pricing, emissions trading systems, and border adjustments.
- Regulatory bodies and energy market liberalisation.
- Comparative review of transition policy across regions.

Day 2: Renewable Energy Projects and Contracts

- Solar, wind, and hybrid project structures.
- Site control, land rights, and permitting requirements.
- Power purchase agreements (PPAs) and tariff mechanisms.
- Feed-in tariffs, contracts for difference, and auctions.
- Grid connection agreements and curtailment risk.
- Engineering, procurement, and construction contracting.
- Operation and maintenance agreements.

Day 3: Technical Perspectives on Generation, Storage, and Grid

- Renewable generation technology fundamentals.
- Battery energy storage systems and grid services.
- Grid stability, flexibility markets, and demand response.
- Smart grids, metering, and distributed generation.
- Transmission planning and interconnection queues.
- Hydrogen production, transport, and storage systems.
- Carbon capture, utilisation, and storage basics.

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Day 4: Environmental, Permitting, and Disclosure Obligations

- Environmental impact assessment and permitting processes.
- Protected areas, biodiversity, and land use constraints.
- Emissions reporting, MRV systems, and verification.
- Climate disclosure: TCFD, ISSB, and CSRD requirements.
- ESG reporting and greenwashing risk controls.
- Water use, waste, and circular economy obligations.
- Community consultation and social licence requirements.

Day 5: Hydrogen, Carbon Markets, and Transition Strategy

- Hydrogen regulation, certification, and offtake agreements.
- Carbon markets, credits, and Article 6 mechanisms.
- Article 6 project structures and corresponding adjustments.
- Just transition, workforce, and community provisions.
- Transition risk in contracts, financing, and investment appraisal.
- Corporate transition planning and internal governance.
- Personal action plan and continuous improvement.

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Conclusion

By successfully completing Energy Transition Legal and Technical Perspectives, participants will have acquired a practical command of climate policy, renewable project structures, carbon markets, and climate disclosure rules. They will know how to interpret PPAs and grid agreements, apply permitting obligations, and assess technical constraints in transition projects. In addition, the course prepares delegates to weigh legal risk against engineering reality in investment decisions. As a result, they return to work ready to advise on energy transition work with confidence. Gentex Training Center delivers this Training Course with a practical, standards-based approach.

FAQs for the Energy Transition Legal and Technical Perspectives course

Q1 What is the "Energy Transition Legal and Technical Perspectives" course about?

It is a five-day programme that explains the legal and technical dimensions of the shift to low-carbon energy. It covers climate policy, carbon pricing, renewable project contracts, grid integration, storage and hydrogen, permitting, and climate disclosure obligations.

Q2 What are the key benefits of the "Energy Transition Legal and Technical Perspectives" course?

Participants gain the ability to read transition projects from both legal and technical angles, spot regulatory risk early, and structure contracts that hold up under changing policy. They also learn to assess carbon market options and prepare climate disclosures that withstand scrutiny.

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Q3 What skills will I gain from the "Energy Transition Legal and Technical Perspectives" course?

Climate policy and carbon market analysis, renewable project structuring with PPA and grid agreements, permitting and environmental compliance assessment, and climate disclosure with transition risk evaluation.

Q4 What tools, methods, or standards are covered in the "Energy Transition Legal and Technical Perspectives" course?

The course covers the Paris Agreement and NDCs, emissions trading systems and carbon border adjustment mechanisms, power purchase agreements (PPAs), contracts for difference, feed-in tariffs, grid connection agreements, environmental impact assessment, emissions MRV systems, TCFD, ISSB, and CSRD disclosure standards, hydrogen certification frameworks, and Article 6 carbon market mechanisms.

Q5 How is the "Energy Transition Legal and Technical Perspectives" course applied in real-world practice?

Delegates apply it through renewable project due diligence, PPA drafting and review, permitting applications, grid connection negotiations, carbon market strategy, climate disclosure reporting, and transition risk assessments. They also use it to advise boards on policy exposure and to structure joint ventures with technology partners.