Solar Energy Policy and Regulation Training Course

Professional Development Training Course Outline

Category	Renewable Energy	**Duration**	5 Days
Base Fee	$1,500 USD	**Delivery Mode**	Online / On-site Hybrid

Course Introduction

Solar Energy Policy and Regulation Training Course provides a practical, policy-focused understanding of how governments, regulators, utilities, investors, developers, and energy professionals can accelerate solar energy deployment, energy transition, climate resilience, energy security, and sustainable development while maintaining reliable and affordable electricity systems. The course examines the regulatory architecture behind utility-scale solar PV, rooftop solar, distributed generation, net metering, energy auctions, power purchase agreements (PPAs), grid connection, open access, energy storage, tariffs, licensing, environmental compliance, local content, and consumer protection. Current policy priorities increasingly emphasize not only renewable-energy capacity growth but also grid integration, flexibility, storage, supply-chain resilience, critical minerals, and regulatory compliance.

Participants will explore how effective solar policy frameworks and regulatory instruments influence investment, affordability, competition, innovation, and grid stability. Particular attention is given to emerging variable renewable energy (VRE) challenges, including forecasting, ancillary services, transmission constraints, battery energy storage, and market design. Kenya provides an especially relevant learning context: its regulatory framework includes 2024 net-metering regulations, while recent national planning emphasizes renewable-energy integration, energy storage, competitive procurement, and grid modernization. The course therefore combines international best practice with applied case studies to help participants translate policy concepts into actionable regulatory strategies, bankable project frameworks, and effective solar-energy governance

Programme Curriculum

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Course Objectives

By the end of the course, participants will be able to:

1. Understand solar energy policy frameworks and their role in accelerating the energy transition.
2. Analyze renewable energy legislation, regulations, licensing regimes, and compliance requirements.
3. Evaluate solar investment policies and their impact on private-sector participation.
4. Design effective net-metering, distributed-generation, and rooftop-solar frameworks.
5. Assess feed-in tariffs, renewable energy auctions, competitive procurement, and PPAs.
6. Develop regulatory approaches for utility-scale solar PV and grid-connected projects.
7. Address VRE integration, grid flexibility, forecasting, and system reliability.
8. Evaluate battery energy storage systems (BESS) and emerging storage regulations.
9. Understand electricity tariffs, open access, ancillary services, and electricity-market reform.
10. Integrate climate policy, decarbonization, ESG, and net-zero objectives into solar regulation.
11. Assess environmental, social, land-use, local-content, and community-impact requirements.
12. Apply regulatory impact assessment, stakeholder engagement, and evidence-based policymaking.
13. Develop forward-looking solar policy roadmaps that support energy security, affordability, innovation, and sustainable development.

Target Audience

1. Energy policymakers and government officials
2. Energy regulators and public-sector decision-makers
3. Solar PV developers and renewable-energy companies
4. Utility executives and grid-planning professionals
5. Energy lawyers, compliance officers, and consultants
6. Investors, financiers, and project-development professionals
7. Engineers and technical energy specialists

8. Researchers, academics, NGOs, and sustainability professionals

Course Modules

Module 1: Solar Energy Policy, Energy Transition and Regulatory Governance

- Global **solar energy policy trends** and the evolution of renewable-energy governance.
- National energy strategies, climate commitments, **NDCs**, and net-zero pathways.
- Roles of ministries, regulators, utilities, system operators, and market institutions.
- Policy instruments supporting **solar deployment and energy security**.
- **Case Study:** Kenya's transition toward a higher share of clean energy and the policy challenge of integrating increasing variable renewable generation.

Module 2: Solar Legislation, Licensing and Regulatory Compliance

- Energy laws, regulations, licensing categories, and institutional mandates.
- **Generation licensing, grid connection, permits, approvals, and compliance**.
- Regulatory requirements for utility-scale and distributed solar projects.
- Environmental, land-use, safety, technical, and consumer-protection obligations.
- **Case Study:** Kenya's electricity-market regulations governing solar generation, procurement mechanisms, and VRE operation.

Module 3: Solar Tariffs, Net Metering and Distributed Energy

- **Net metering**, self-generation, rooftop PV, and distributed energy resources.
- Tariff structures, compensation mechanisms, and consumer economics.
- Technical and regulatory requirements for grid-connected customer generation.
- Consumer eligibility, metering, interconnection, and dispute-resolution mechanisms.
- **Case Study:** Kenya's 2024 Net-Metering Regulations, including eligibility for renewable systems below 1 MW and defined capacity limits for different customer categories.

Module 4: Renewable Energy Auctions, PPAs and Investment Frameworks

- **Renewable energy auctions** and competitive procurement models.
- PPA structures, risk allocation, bankability, and contractual safeguards.
- Feed-in tariffs versus competitive bidding.
- Investor confidence, tariff predictability, and regulatory certainty.
- **Case Study:** Kenya's policy direction toward operationalizing renewable-energy auctions and competitive, least-cost power procurement.

Module 5: Grid Integration, VRE and Energy Storage Regulation

- Regulatory challenges associated with **variable renewable energy**.
- Grid flexibility, forecasting, dispatch, curtailment, and ancillary services.
- **Battery Energy Storage Systems (BESS)** and storage-market regulation.
- Transmission planning, distribution modernization, and grid-code compliance.
- **Case Study:** Kenya's emerging focus on flexibility, storage, ancillary services, and open access as solar and other VRE sources expand.

Module 6: Solar Investment, Financing, ESG and Sustainable Development

- **Solar project finance**, risk allocation, and enabling investment environments.

- Public-private partnerships, blended finance, green finance, and climate finance.
- ESG requirements and responsible solar-project development.
- Local content, domestic manufacturing, employment, and inclusive energy transition.
- **Case Study:** Kenya's policy emphasis on local manufacturing hubs, investment mobilization, and reducing reliance on imported VRE technologies.

Module 7: Solar Markets, Energy Security and Policy Innovation

- Solar deployment as a tool for **energy security, affordability, resilience, and access**.
- Electricity-market design, open access, competition, and market participation.
- Critical minerals, clean-energy supply chains, and industrial policy.
- Digitalization, smart grids, data governance, and emerging regulatory technologies.
- **Case Study:** The IEA's 2026 assessment of energy policy, highlighting energy security, resilient clean-energy supply chains, critical minerals, and accelerated renewable deployment as major policy priorities.

Module 8: Future Solar Regulation, Circular Economy and Policy Roadmaps

- **Solar PV end-of-life management, recycling, reuse, and circular-economy regulation**
- Policy responses to solar-panel waste and sustainable supply chains.
- Regulatory innovation for emerging solar technologies and business models.
- Stakeholder consultation, regulatory impact assessment, and policy monitoring.
- **Case Study:** Global solar PV expansion and emerging policy responses to end-of-life panel management and recycling.

Training Methodology

- Interactive lectures and presentations.
- Group discussions and brainstorming sessions.
- Hands-on exercises using real-world datasets.
- Role-playing and scenario-based simulations.
- Analysis of case studies to bridge theory and practice.
- Peer-to-peer learning and networking.
- Expert-led Q&A sessions.
- Continuous feedback and personalized guidance.

Register as a group from 3 participants for a Discount

Send us an email: info@fineskilltrainingcenter.org or call *+254769199797*

Certification

Upon successful completion of this training, participants will be issued with a globally- recognized certificate.

Tailor-Made Course

We also offer tailor-made courses based on your needs.

Key Notes

a. The participant must be conversant with English.

b. Upon completion of training the participant will be issued with an Authorized Training Certificate

c. Course duration is flexible and the contents can be modified to fit any number of days.

d. The course fee includes facilitation training materials, 2 coffee breaks, buffet lunch and A Certificate upon successful completion of Training.

e. One-year post-training support Consultation and Coaching provided after the course.

f. Payment should be done at least a week before commence of the training, to Fineskill Training Center account, as indicated in the invoice so as to enable us prepare better for you.

Upcoming Scheduled Sessions

Start Date	End Date	Location	Price
21 Sep 2026	25 Sep 2026	Online	$1,000
21 Sep 2026	25 Sep 2026	Physical	$1,500
21 Sep 2026	25 Sep 2026	Physical	$0
21 Sep 2026	25 Sep 2026	Physical	$0
21 Sep 2026	25 Sep 2026	Physical	$0
21 Sep 2026	25 Sep 2026	Physical	$0
21 Sep 2026	25 Sep 2026	Physical	$0
21 Sep 2026	25 Sep 2026	Physical	$0

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