

OSeMOSYS Energy System Modeling Training

Master energy system modeling and policy analysis using OSeMOSYS to design sustainable energy strategies.

Course Overview

OSeMOSYS Energy System Modeling Training

Learn to use **OSeMOSYS (Open Source Energy Modelling System)** to analyze, optimize, and plan energy systems. This course takes you from understanding energy system modeling concepts to implementing models for national, regional, or organizational energy planning. You will learn scenario analysis, cost optimization, and policy impact assessment for electricity, renewables, and energy transition strategies.

The training emphasizes practical application, enabling you to confidently use OSeMOSYS in research, consultancy, development planning, and corporate energy strategy.

What You Will Learn

- ✓ Understand the principles of energy system modeling and optimization
- ✓ Implement energy system models using OSeMOSYS
- ✓ Conduct scenario and sensitivity analysis for policy and investment decisions
- ✓ Model renewable energy integration and energy transition pathways
- ✓ Automate repetitive tasks and model runs
- ✓ Generate professional tables, charts, and visual outputs
- ✓ Interpret model results for reports, presentations, and strategic planning

Skills You Will Gain

- Independent energy system modeling and scenario analysis
- Optimization of energy supply, demand, and costs
- Renewable energy integration and transition modeling
- Professional visualization and reporting of model results
- Ability to provide actionable insights for energy policy and investment decisions

Who Should Attend

This training is suitable for:

- Energy analysts, policy researchers, and planners
- Researchers and postgraduate students in energy, economics, and environmental studies
- Development practitioners and consultants
- Corporate energy managers and strategy teams
- Anyone interested in applied energy system modeling and planning

Training Format

- Mode: Physical / Online (Live Instructor-Led)
- Duration: 1–2 weeks (Flexible schedule)
- Certification: Certificate of Completion provided
- Materials Provided: OSeMOSYS scripts, datasets, templates, and resources

Why Train With Us

- Experienced instructors with real-world energy modeling and planning experience
- Hands-on exercises using real energy system datasets
- Small class sizes for personalized guidance
- Post-training mentorship and support available
- Corporate training packages available