



AI-Assisted Energy Efficiency and Sustainability Course

10 – 14 October 2027
Tashkent

AI-Assisted Energy Efficiency and Sustainability Course

Ref: 263_122729 **Date:** 10 – 14 October 2027 **Location:** Tashkent **Fees:** 4500 Euro

Overview

AI-Assisted Energy Efficiency and Sustainability Course is a five-day foundation course for energy managers, sustainability engineers, facilities professionals, utilities teams, maintenance leaders, and environmental analysts, who leave with an AI-Assisted Energy Efficiency Improvement Plan. Participants establish baselines, interpret consumption, load, and equipment signals, prioritize opportunities, compare scenarios, apply measurement and verification, track sustainability indicators, and assign human review. Agile Leaders Training Center provides training in AI-assisted energy efficiency and sustainability.

Who Should Attend

- Energy teams responsible for consumption, baselines, and performance
- Sustainability teams responsible for resource and emissions indicators
- Facilities teams responsible for building and asset energy use
- Utilities teams responsible for load and operational signals
- Maintenance teams responsible for equipment condition and interventions
- Performance teams responsible for measurement, verification, and reporting

The course assumes participants work with energy or asset information and leaves out machine-learning development, control-system programming, detailed engineering design, energy audits, and equipment installation.

Departments and Industries

The course supports reviewed energy-efficiency decisions across facilities and operational assets.

- Energy management and sustainability functions
- Facilities, maintenance, and engineering teams
- Utilities and environmental performance functions
- Manufacturing, energy, and infrastructure organizations
- Healthcare, hospitality, and education organizations
- Government and commercial property organizations

Learning Objectives

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



- Apply decision boundaries to AI-assisted energy use cases
- Analyze baselines, consumption, load, and equipment signals
- Prioritize efficiency opportunities using validated evidence
- Compare operational, cost, and sustainability scenarios
- Evaluate measurement, verification, and human review needs
- Build an AI-Assisted Energy Efficiency Improvement Plan

Course Agenda

Day 1: Energy Scope and Baselines

- Energy Boundary and Use-Case Register
- Energy Source and Meter Map
- Energy Performance Indicator Selection Sheet
- Baseline Variable and Adjustment Register
- Data Quality and Access Checklist

Day 2: Consumption and Asset Signals

- Consumption Pattern Classification Table
- Load Profile and Peak Demand Map
- Equipment Energy Signature Review
- Anomaly Evidence and Context Log
- Operational Constraint and Comfort Register

Day 3: Efficiency Opportunities

- Energy Opportunity Identification Board
- Technical and Operational Feasibility Matrix
- Cost, Saving, and Risk Assumption Sheet
- Opportunity Priority and Dependency Grid
- Human Validation and Approval Gate

Day 4: Scenarios and Verification

- Energy Improvement Scenario Set
- Load, Cost, and Emissions Tradeoff Table
- Measurement Boundary and Option Selection
- Savings Adjustment and Verification Log
- Sustainability Indicator and Owner Scorecard

Day 5: Energy Improvement Practice

- Suggested Exercise: Define Energy Scope and Baselines
- Suggested Exercise: Interpret Load and Equipment Signals
- Suggested Exercise: Prioritize Efficiency Opportunities
- Suggested Exercise: Compare Scenarios and Verification Methods
- Capstone Exercise: AI-Assisted Energy Efficiency Improvement Plan

Practical Exercises

The course uses suggested activities that convert energy evidence into reviewed improvement actions.

- Suggested activity: define energy boundaries, map meters, select indicators, and document baseline variables and data quality
- Suggested activity: classify consumption, analyze load profiles, interpret equipment signatures, and validate anomalies against context
- Suggested activity: compare efficiency opportunities by feasibility, savings assumptions, risks, dependencies, and review needs
- Suggested activity: build scenarios, select measurement options, record adjustments, and assign sustainability indicators and owners

FAQs

Who suits AI-assisted energy efficiency training?

AI-assisted energy efficiency training suits energy, sustainability, facilities, utilities, maintenance, and performance teams. It assumes experience with energy or asset information and requires no programming.

How does AI-assisted energy efficiency differ from an energy audit?

AI-assisted energy efficiency focuses on data signals, baselines, opportunities, scenarios, human review, and monitoring. An energy audit includes formal site inspection and engineering assessment and is outside this course.

Which data supports AI-assisted energy efficiency decisions?

Useful data includes utility bills, interval meters, equipment readings, schedules, weather, production, occupancy, setpoints, maintenance records, tariffs, costs, emissions factors, and operational constraints with defined ownership.

Why is measurement and verification needed for energy improvements?

Measurement and verification separates observed change from baseline conditions, adjustments, weather, production, occupancy, and unrelated effects. It helps teams test whether an improvement delivered the expected result.



What belongs in an AI-Assisted Energy Efficiency Improvement Plan?

The plan includes boundaries, meters, indicators, baselines, variables, signals, opportunities, assumptions, scenarios, constraints, measurement methods, adjustments, review gates, owners, sustainability measures, and monitoring actions.

Conclusion

Participants take back an AI-Assisted Energy Efficiency Improvement Plan connecting baselines, consumption, loads, equipment signals, opportunities, scenarios, verification, and sustainability measures. The plan makes assumptions, decision rights, and ownership visible. It supports traceable efficiency actions, reviewed energy decisions, and monitored performance improvement.