



Course Syllabus

Appliance Energy Efficiency Policy

1. Description

Energy-efficient equipment and appliances benefit both consumers and governments; increasing efficiency lowers energy costs, enhances energy security, helps expand access to energy services and reduces harmful emissions. Recent evidence shows that energy efficiency policies have helped halve the energy consumption of key appliances in the longest-running appliance efficiency programmes. In the countries with the longest running appliance energy efficiency policies, the policies have contributed to reduction in energy consumption of key appliances by half.

This course aims to prepare participants to successfully advance appliance energy efficiency policy. It does so by introducing the fundamentals to effectively design and implement an energy efficiency policy package by integrating regulations, information, and incentives to move appliances towards higher efficiency standards.

The course consists of seven modules that, together, provide a comprehensive approach to engage and challenge course participants to consider the many decisions and options involved in advancing energy efficiency policy. Participants in the course will, on completion, have a solid understanding of the “big picture” as well as the tools to leverage their own expertise to contribute to advancing energy efficiency in appliances and equipment.

2. Target Groups and Participants

This course is intended for a diverse audience, catering to individuals such as policymakers, congressional staffers, NGO employees, business owners, and concerned citizens. It aims to encourage them to think critically about existing energy efficiency policies and explore avenues for enhancement.

3. Learning Objectives

This course aims to prepare participants to successfully advance energy efficiency policies for appliances and equipment. It does this by explaining how policy can reduce energy use and introduces the principals of the design and implementation of an energy efficiency appliance policy package, integrating regulations, information, and incentives to drive appliances towards higher efficiency levels.

Specific objectives:

- Providing participants with a vision of the “big picture”,
- Providing enough details to engage productively on any of the topics, and
- Providing resources for information and collaboration.

On completion, participants will be able to answer the following questions:

- What is meant by energy efficiency appliance policy? What policies can be used to reduce energy use in appliances?
- What is an energy efficiency policy package, and how can it be designed and implemented to promote large scale deployment of energy efficiency appliances?
- What are Minimum Energy Performance Standards and how do they work?
- What are Energy Labels? How can they be designed to be more effective?
- Why might one need policies in addition to Minimum Energy Performance Standards (MEPS) and energy labels, and what benefits can these additional policies provide?



- What market data is needed for energy efficiency appliance policy and how to select the right sources in each case?
- What is necessary for an effective compliance system and how to encourage voluntary compliance and deter non-compliance?
 - What is meant by evaluation? How can policymakers use evaluation to make appliance energy efficiency policies more effective?

4. Methodology

This course is based on the MOOC model (massive online open course), which means that its content and activities are available through Open Edx platform 24 hours a day, 7 days a week. This offers flexibility, enabling learners to review materials and progress at their own pace, accommodating their work schedules.

Spanning approximately 20 hours, the course is divided into 7 thematic modules. All modules become accessible to students from the course's commencement. Each participant bears the responsibility of self-managing their learning process. This entails following the course content, setting an individual pace, and dedicating adequate time and focus to the materials. Viewing videos, completing readings, and responding to evaluations are essential components of the learning journey.

It is recommended to navigate through all modules and lessons sequentially for a comprehensive learning experience, as the lessons are designed to progressively build upon each other. Keeping notes on module and lesson content is encouraged, as this will aid in preparation for end-of-module evaluations and serve as valuable personal reference material in the future.

5. Content and Activities

This course is structured in 7 modules. Each module has several sub-themes as follows:

1. Introduction to Appliance Energy Efficiency Policy

- Energy efficiency policy in appliances and equipment
- Why is appliance energy efficiency policy important?
- Energy Efficiency Policy Packages
- Appliance Energy Efficiency Policy Package

2. Regulation: Minimum Energy Performance Standards

- What are Minimum Energy Performance Standards?
- Why are Minimum Energy Performance Standards important?
- How to set Minimum Energy Performance Standards
 - Prioritisation of products
 - Setting product coverage
 - Setting standards
- How do Minimum Energy Performance Standards affect product prices

3. Information: Insights into Energy Labels

- What are energy labels?
- Why are energy labels important?
- Types of energy labels: comparative and endorsement labels

- Label design and placement
- Product database for energy labelling
- Awareness raising

4. Incentives and Industry Transformation

- What are incentives?
- How incentives work with other policies
- The different types of incentives
- Examples of incentives
- Steps when considering incentives

5. Understanding the Market: data needs and data-collection methods

- Data needs in appliance energy efficiency policy
- Data sources
- Data collection
- Sources of ownership and usage data

6. Introduction to Compliance

- What is compliance?
- Why is compliance important?
- Steps to deter non-compliance
- Approaches to market surveillance and testing
- Responding to non-compliance

7. Introduction to Evaluation

- What is evaluation?
- Why is evaluation important?
- Evaluation processes
- How evaluation of appliance policies works
- Choosing an evaluation approach

6. Evaluation

Each module has a mandatory evaluation or activity that the participant must perform in order to complete the module.

From modules 1 to 7 there will be a final mandatory evaluation of the contents. These evaluations are 5-10 questions with 60 minutes to answer once it starts. To successfully pass these assessments, participants are required to provide accurate responses to a minimum of 75% of the questions.

Each participant has 8 attempts to pass each of the assessments. To pass the course the participant must pass all the evaluations.



7. Certification

At the end of the course, participants will receive a certificate. The certificate is issued when the student has successfully participated in at least an average of 75% of the course modules. This average is calculated by dividing the sum of the % of each module, by the number of modules in the course. It recognizes the student's participation in the course, access to the material of each lesson and / or fulfilment of the activities (mandatory or not). The certificate can be downloaded as a diploma in PDF format.

8. LinkedIn Group

Each participant is invited to join the IEA's LinkedIn group IEA Energy Efficiency Policy in Emerging Economies located [here](#).

This LinkedIn group has been created exclusively for alumni of the energy efficiency in emerging economy training weeks to stay connected, update one another on progress and strengthen the international community of energy efficiency policy practitioners.

As they take the course, we strongly encourage participants to use this LinkedIn group to ask any questions they may have about its content and energy efficiency in buildings.

9. Contact

For any queries related to the content please contact: energy.efficiency@iea.org.

For any technical issues, please contact our helpdesk at: support@abstract-technology.de.