



Asia-Pacific  
Economic Cooperation

# Capacity Building Workshop on Energy Efficiency and Conservation Policy **Members' Journey with MEPS**

## Implementing MEPS in Chinese Taipei Challenges, Solutions, and Future Directions

Regulatory Authority



經濟部能源署

Energy Administration,  
Ministry of Economic Affairs

Implementing Agency



ITRI

Industrial Technology  
Research Institute

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# Outline

- Overview of CT equipment energy efficiency policy
- Incentives: Home appliance replacement subsidy
- Enforcement: AI-assisted online market surveillance
- Current challenges & future directions

# Overview of CT Equipment Energy Efficiency Policy

|              |  Regulation                                                 | Information                                                                                                                                                                                    |  Incentives                                                                                                                                                   |
|--------------|----------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Policy tools | Phase out inefficient equipment and set performance rules                                                                                    | Guide consumers toward energy-efficient choices                                                                                                                                                | Make efficiency attractive to speed up tech replacement                                                                                                                                                                                          |
| Programs     | <ul style="list-style-type: none"><li>● Minimum Energy Performance Standard (Energy Administration Act: Articles 14, 19-1, 21, 24)</li></ul> | <ul style="list-style-type: none"><li>● Energy Efficiency Ranking Labeling (Energy Administration Act: Articles 14, 19-1, 21, 24)</li><li>● Energy Conservation Labeling (Voluntary)</li></ul> | <ul style="list-style-type: none"><li>● Home Appliance Replacement Subsidy</li><li>● Equipment Replacement Subsidy for service sector</li><li>● Motor, Pump &amp; Fan Efficiency Subsidy</li><li>● Energy Performance Contract Subsidy</li></ul> |

**Note:** Policy framework refers to the 「IEA Energy Efficiency Policy Toolkit」

# Current Status of Equipment EE Policy

| Name            | Minimum Energy Performance Standards (MEPS)                                         | Energy Efficiency Rating Labeling                                                     | Energy Conservation Labeling                                                                    |
|-----------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|
| Nature          | Compulsory                                                                          | Compulsory                                                                            | Voluntary                                                                                       |
| Launch Date     | December 1981                                                                       | July 2010                                                                             | December 2001                                                                                   |
| Purpose         | Ban the <b>import</b> or <b>domestic sale</b> of low-efficiency products.           | Provide <b>consumers</b> with <b>EE information</b> to support saving choices.        | Use simple labels to promote efficient products for <b>consumers</b> and <b>manufacturers</b> . |
| Number of items | <b>33 items</b>                                                                     | <b>17 items</b>                                                                       | <b>50 items</b>                                                                                 |
| Label           |  |  |            |

# Incentives: Home appliance replacement subsidy

## Challenges

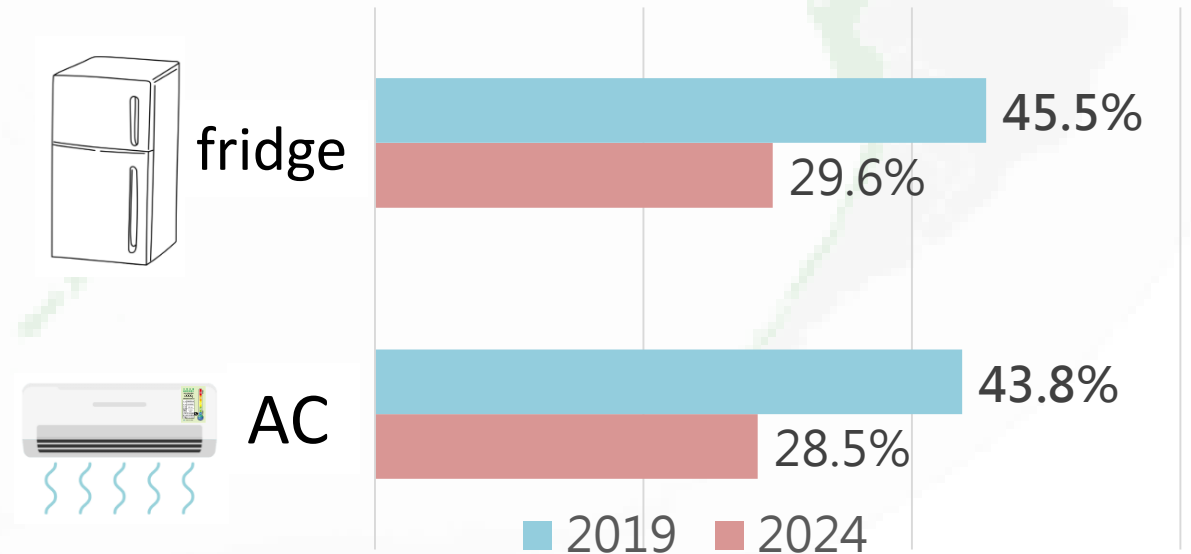
- Many appliances are over 10 years old (AC 43.8%, fridge 45.5%)
- Old units are often **resold** in the **second-hand market** instead of properly recycled

## Measures

### Home Appliance Replacement Subsidy

- **Eligibility:** Level 1 efficiency
- **Appliance:** AC and fridge
- **Amount :** NT\$3,000 per unit
- **Verification:** “**Waste Appliance Recycling Form**” issued by the Ministry of Env.

### Share of AC and fridge Over 10 Years Old



**Source:** Energy Administration, MOEA / ITRI, 2025 Household Electricity Consumption Survey (2025)

# Enforcement: AI-assisted online market surveillance

## Challenges

- Online platforms list many **non-compliant products**, misleading consumers.
- Manual online inspections are **labor-intensive** and **costly**.

## Measures

### Web-crawler inspections using image & text recognition

|                 | Before                                                 | After                                                    |
|-----------------|--------------------------------------------------------|----------------------------------------------------------|
| Resources       | 7 full-time staff conducting manual online inspections | Automated AI-assisted online inspection system+1~2 staff |
| Pages inspected | 40,000 pages/year                                      | 500,000 pages/year                                       |

# Current Challenges & Future Directions

## Current Challenges

- **Industry–efficiency trade-off:** raising MEPS can improve energy savings, but **domestic appliance manufacturers** face cost and competitive pressures
- **Harmonization** of **test methods** & **mutual recognition** of test data
- **Difficulties in changing consumer behavior** : even when consumers purchase high-efficiency products, **poor usage habits** limit **actual energy savings**.

## Future Directions

- Continuous **review** of MEPS and **rating standards**
- Strengthening **public education** & **behavior-oriented** policies

# Thank You

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# Appendix: Milestones of the CT Equipment EE Policy

**1981**

**Minimum Energy Performance Standards (MEPS)**



**2001**

**Energy Conservation Labeling**



**2010**

**Energy Efficiency Rating Labeling**



**2023**

**Home Appliance Replacement Subsidy**



**2030**

**Target**

- Full LED lighting
- MEPS of ACs and fridge to meet current EE Level 3