



# Success Factors for Energy Efficiency Overview of UNEP U4E Resources

**Mission Efficiency Charrette 2024**  
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# U4E Partner Organizations

## Manufacturers & Industry Associations



## Technical Organizations & Initiatives



## Funders & Financiers



# Success factors for Energy Efficiency deployment

Overarching strategies (NDC, transport, electrification...)  
Specific actions (Taxation, MEPS, energy subsidies...)

Policy

Awareness

Technology

Energy efficient = “expensive”  
Total Cost of Ownership?  
Energy Labelling helps

Technology driven changes  
(performance, price & reliability) e.g. LED, Solar PV, Heat pumps...batteries

Government (technical standards, financial models...)  
FI: overreliance on vendors  
Vendors: Depend on supply chain

Capacity

Finance

Government: budget priorities, financial management  
Vendors & end-clients: access?  
Attractiveness?

# Overview of U4E Tools and Guidance

Resources: [U4E website](#)

**U4E** COUNTRY SAVINGS ASSESSMENT

**China**

**LIGHTING**  
All Lighting

**COOLING**  
Residential Refrigerators, Commercial Refrigeration, Room Air Conditioners

**EQUIPMENT**  
Industrial Electric Motors, Distribution Transformers

**INTRODUCTION**  
The Country Savings assessments provide a summary of the benefits attained from improved energy efficiency and climate friendly lighting, cooling appliances, and equipment. A market transformation can be obtained through measures such as Minimum Energy Performance Standards (MEPS), product labelling, market monitoring and verification; and financial incentives. For each product, the analysis considers three different scenarios:

- Business As Usual:** Assumes that no actions are introduced and that the efficiency of products in the market continues to develop in line with historical trends in the absence of regulation.
- Minimum Ambition:** In which MEPS are introduced in line with the basic requirements of the United Nations Environment Programme (UNEP) United for Efficiency (U4E) Model Regulation Guidelines.
- High Ambition:** In which more ambitious actions are implemented in line with the highest levels proposed in the Model Regulation Guidelines.

More detailed breakdowns for lighting, cooling appliances and equipment can be found on the UNEP U4E website.

**REPORT CONTENTS**

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Clean Cooling COLLABORATIVE, Department for Environment Food & Rural Affairs, gef, UN environment programme

U4E Country Savings Assessment, China, July 2022

**UN environment**

**Updated motors policy guide is available now!**

Accelerating the Global Adoption of  
**ENERGY-EFFICIENT ELECTRIC MOTORS AND MOTOR SYSTEMS**

UN Environment - Global Environment Facility | United for Efficiency (U4E)

gef U4E environment programme

U4E POLICY GUIDE SERIES

**UN environment**

**PERFORMANCE TESTING OF LIGHTING PRODUCTS**

UN Environment - Global Environment Facility | United for Efficiency (U4E)

**UN environment**

SUPPLEMENT TO THE ELECTRIC MOTORS AND MOTOR SYSTEMS POLICY GUIDE:  
**"ACCELERATING THE GLOBAL ADOPTION OF ENERGY-EFFICIENT ELECTRIC MOTORS"**

**MODEL REGULATION GUIDELINES**

**ENERGY EFFICIENCY REQUIREMENTS FOR GENERAL PURPOSE ELECTRIC MOTORS**

UN Environment - Global Environment Facility | United for Efficiency (U4E)

gef U4E environment programme

## Country Savings Assessments

## Policy Guides

## Technical Guidance

## Model Regulations

**Why** is EE important?  
Which products should we prioritise?

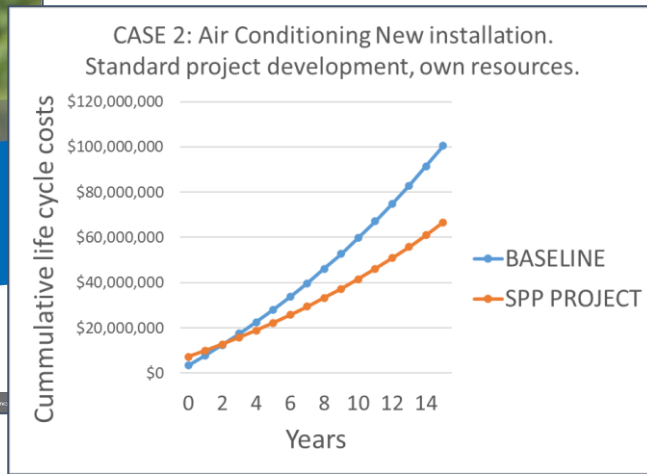
**Which** integrated policies and interventions should be considered? How have others done it?

**How** to analyze data, test products, enforce regulations?

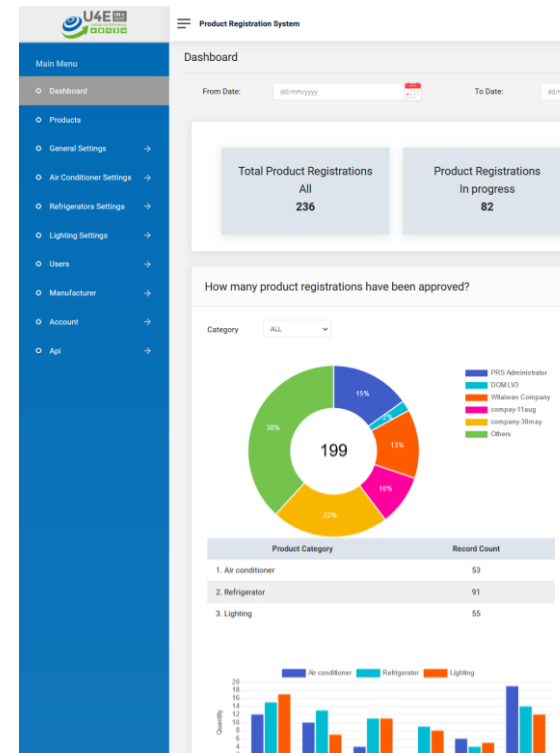
**Which** scope, performance, safety, testing, etc. are a good starting point for MEPS & labels?

# Overview of U4E Tools and Guidance

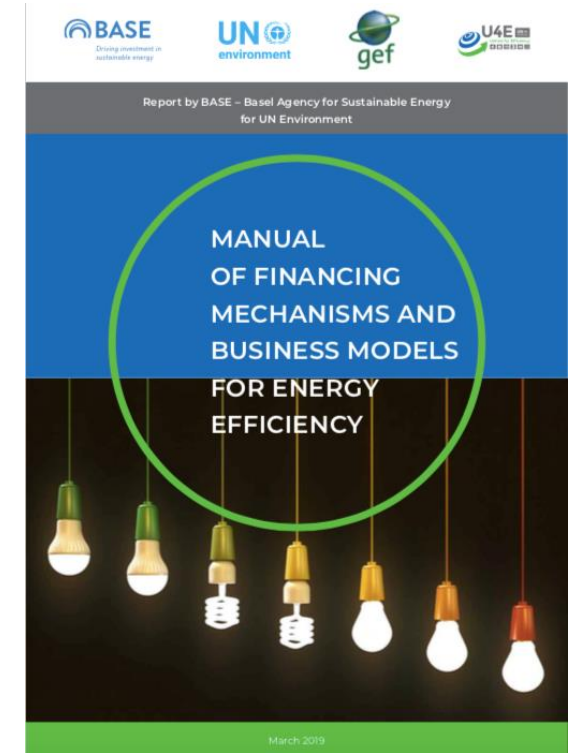
Resources: [U4E website](#)



Sustainable Public Procurement



Product Registration System



Financial Mechanisms

**Which** products are claimed to meet the Model Regulation Guidelines and where are they available?  
**How** to assess their benefits for end users?



**How** to monitor the market, enhance enforcement, and share information?



**How** to address higher first costs, risk, access to capital, & other barriers?



# Contact

TRANSFORMING MARKETS TO ENERGY-EFFICIENT PRODUCTS



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