

Tools and Resources to Support Comprehensive Market Transformation

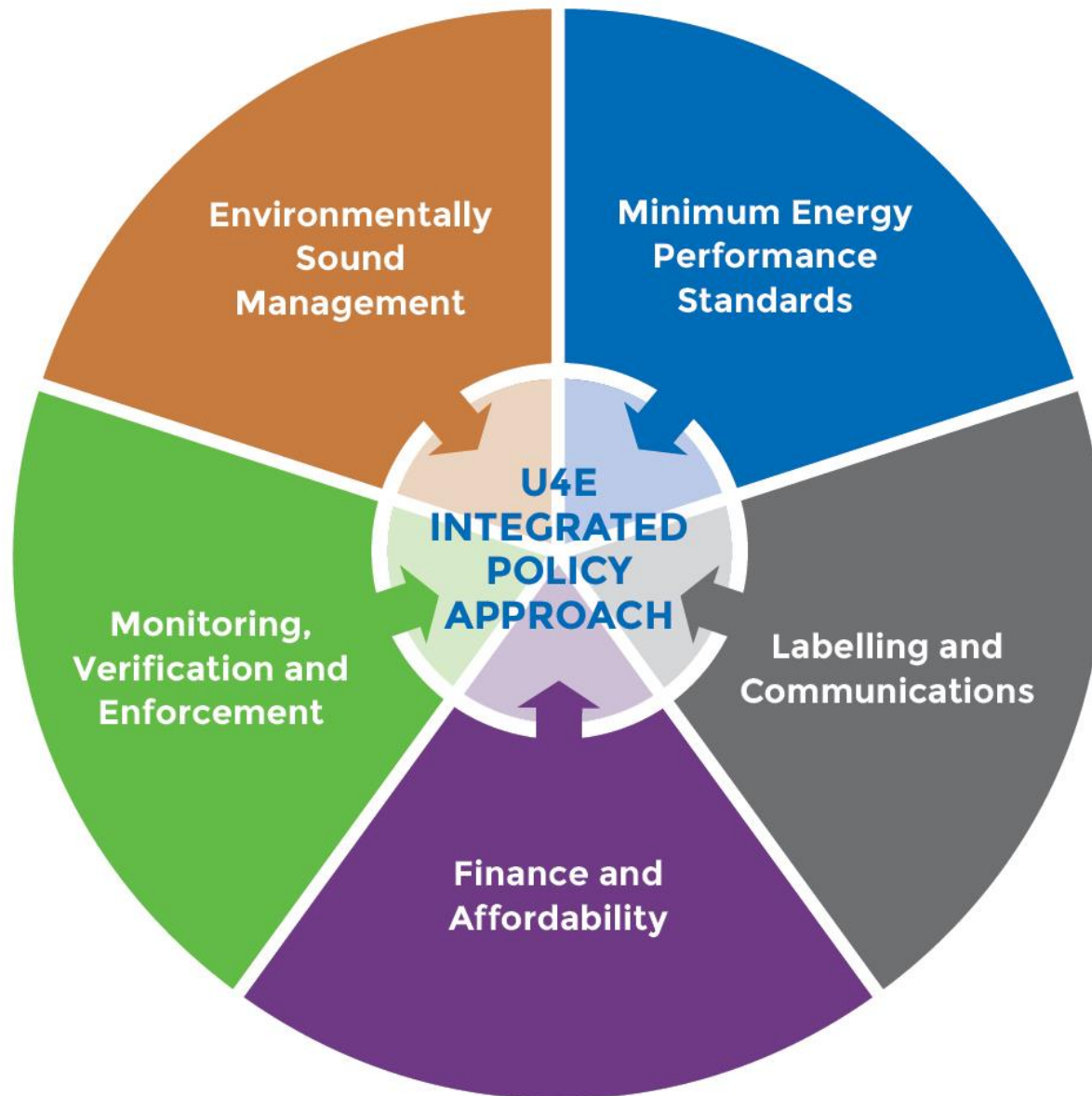
IEA Energy Efficiency Training Week

Paris, France

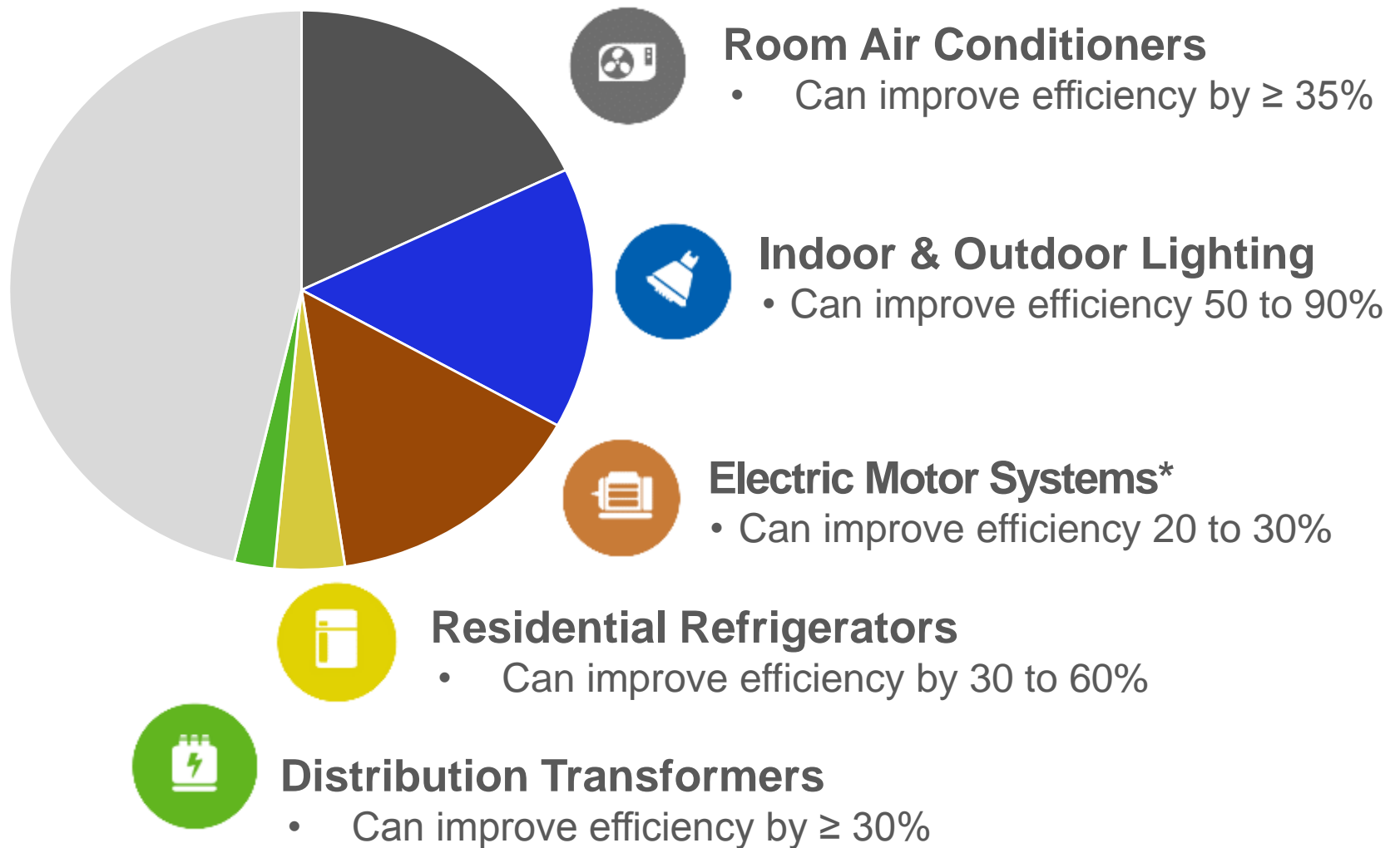
23 May 2019



Take a Holistic Approach



Products That Use >50% of Global Electricity



Sources: International Energy Agency; Lawrence Berkeley National Laboratory; UN Environment

Method: Approximate savings in 2030 in emerging & developing economies if today's best available technologies are adopted

*Electric motors systems use over half of global electricity, some of which is accounted for in ACs and Refrigerators

National Engagement

Assess Needs and Priorities

- ✓ Review the Country Savings Assessment
- ✓ Consider the NDC, HPMP, energy plan
- ✓ Consult key officials and stakeholders on aims / ambition
- ✓ Explore existing mechanisms to leverage

Identify & Help Secure Resources



Provide Technical Support

- ✓ Market assessment and analysis
- ✓ MEPS and labels recommendations
- ✓ Market monitoring tools & techniques
- ✓ Conformity assessment
- ✓ Capacity building
- ✓ Communications & outreach
- ✓ Etc.



Market Assessment Questionnaire

The findings from this form will be used to update the Country Savings Assessment. <http://www.united4efficiency.org/resources/country-savings-assessment/> for each country and a new tool for tracking progress on the Right Approach to the Market Process.

In addition to completing as many sections as possible, please also attach any other relevant information that may be informative for UN Environment regarding your market. There are no values for your completion. Please kindly send the requested information to patrick.blanchard@unep.org.

Country Name: _____

Primary point of contact who completed the form (Name, Position, and email address): _____

Electricity Price (in USD \$/kWh or local): _____

Q1: Quantifying the Equipment Entering the Market Each Year

Year	Quantity Reported	Quantity Manufactured	Additional Comments
2014			
2015			
2016			
2017			
2018 (estimate)			
2019 (estimate)			
2020 (estimate)			

Q2: Total Value of the Equipment Sold Each Year

Year	Total Value of Units Sold (USD or local)	Additional Comments
2014		
2015		
2016		
2017		
2018 (estimate)		
2019 (estimate)		
2020 (estimate)		

Q3: Technology Characteristics

Type of Air Conditioner sold in the country	Market Share (% of market or number of units sold)	Average size of cooling capacity (kW)	Average unit energy consumption (kWh/year)	Average Seasonal Energy Efficiency Ratio (SEER)
Wall mounted split packaged system				
Portable nonducted packaged system				
Window unit				
Other (specify)				
Total				

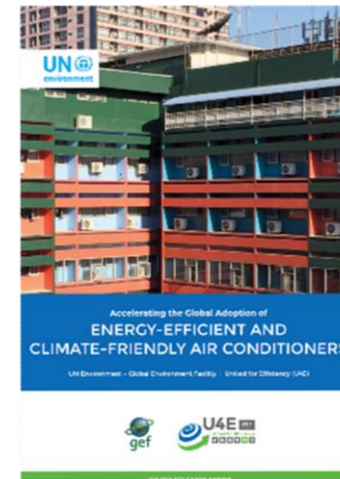
What is the quantity and performance of products in the market?

Country Savings Assessment



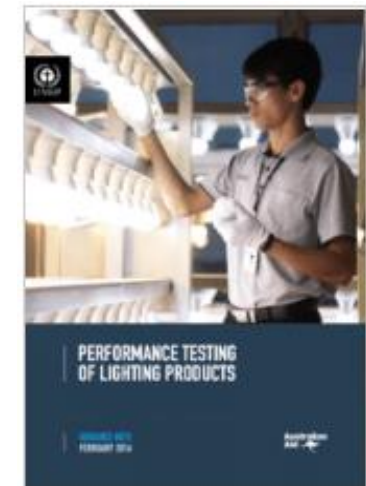
Why is EE important?
Which products should we prioritise?

Policy Guides



Which policies and programs work best?
How have others done it?

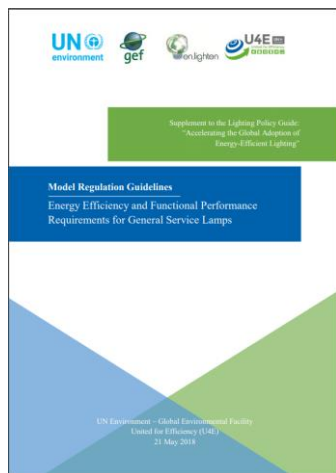
Technical Guidance



How to monitor the market, test products, and enforce regulations?

Tools and Guidance www.united4efficiency.org/resources

Model Regulations



Which performance, safety, testing, and labelling requirements should we mandate?

Financial Mechanisms



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

Product Registration System

The image shows a screenshot of a web-based form for product registration. It is divided into two main sections: 'RATED VALUES' and 'GENERAL SPECIFICATIONS'. The 'RATED VALUES' section includes input fields for 'Rated Min. Voltage', 'Rated Max. Voltage', 'Rated Min. Frequency', 'Rated Max. Frequency', 'Number of phases', 'Rated power input - cooling', and 'Rated capacity - cooling'. The 'GENERAL SPECIFICATIONS' section includes dropdown menus for 'Type of air distribution' (set to 'Non-Ducted') and 'Type of refrigerant' (set to 'R152A'), and a checkbox for 'Does the air-conditioner have variable output capacity (eg Inverter)?' (set to 'No'). A green arrow points from the 'Financial Mechanisms' section to this form.

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



Outreach and Events

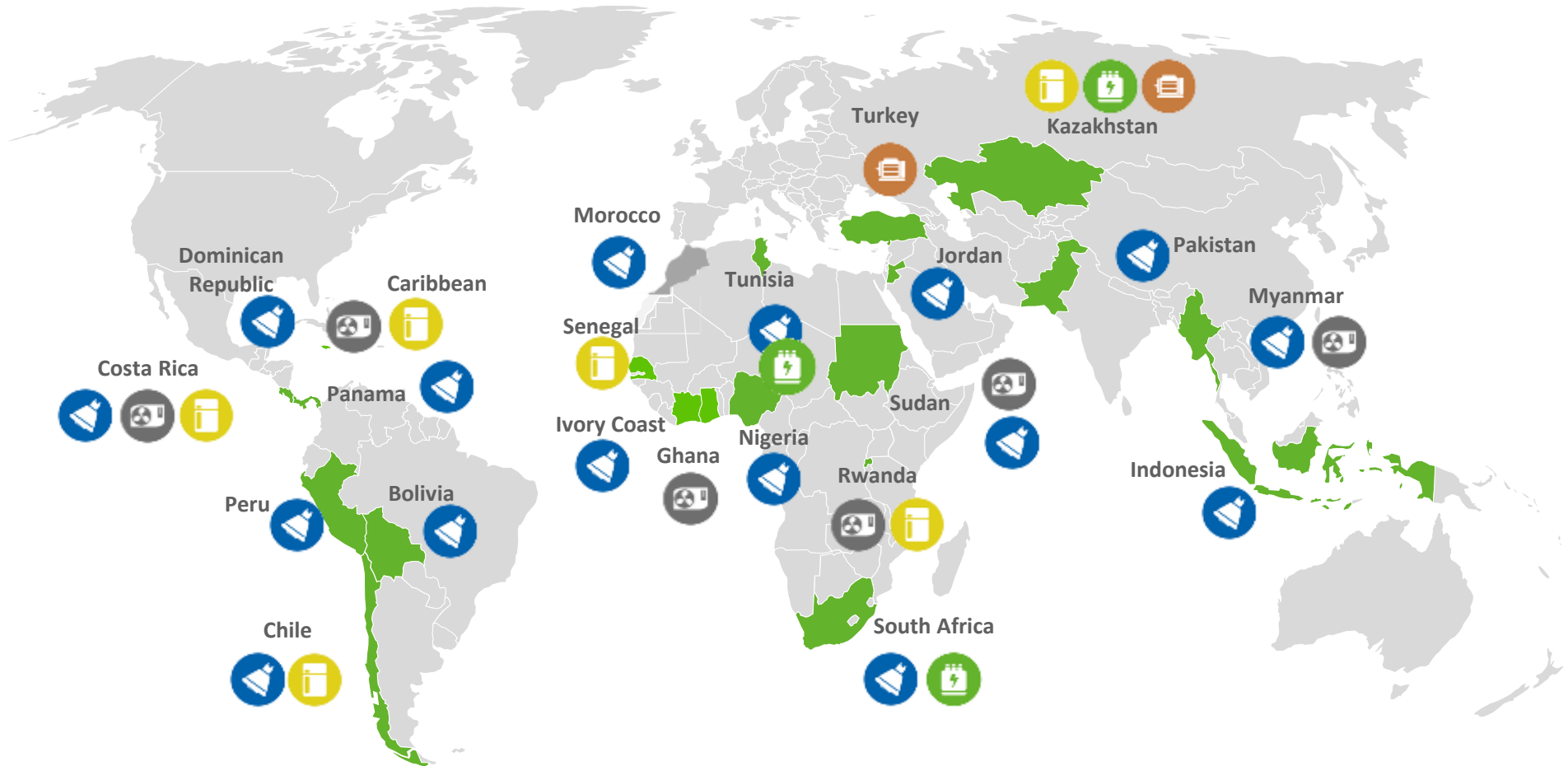


COP24 KATOWICE 2018
UNITED NATIONS CLIMATE CHANGE CONFERENCE



https://www.youtube.com/watch?v=uLj5XtE_BMs

Global Experience



Partner Organisations

MANUFACTURERS & INDUSTRY ASSOCIATIONS



TECHNICAL ORGANISATIONS & INITIATIVES



Funders & Implementing Agencies





Contact

TRANSFORMING MARKETS TO ENERGY-EFFICIENT PRODUCTS



NAME

Brian Holuj



PHONE

+33 1 44 37 42 60



EMAIL

brian.holuj@un.org



ROLE

U4E Cooling
Lead