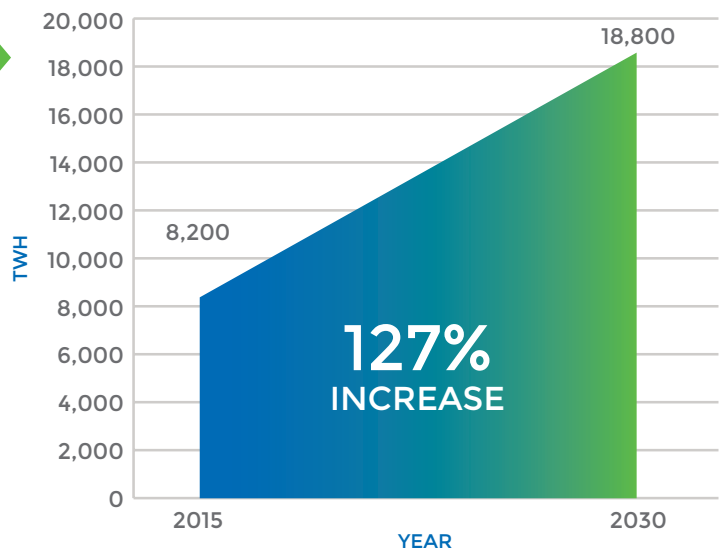


## Simple Ways to Achieve **ENERGY EFFICIENCY**



Annual electricity consumption (TWh) of all products in developing and emerging economies is expected to increase by 127% if no new policy actions are taken.



## PRODUCTS AVAILABLE

Developing and emerging economies can reduce national electricity consumption by up to 20% with improvements in the energy efficiency of products covered by United for Efficiency.

### POTENTIAL EFFICIENCY IMPROVEMENT

Room Air Conditioners:  $\geq 30\%$

Indoor & Outdoor Lighting: 40 - 90%

Electric Motor Systems: 20 - 30%

Residential Refrigerators: 30 - 60%

Distribution Transformers: up to 25%



Room Air Conditioners



Residential Refrigerators



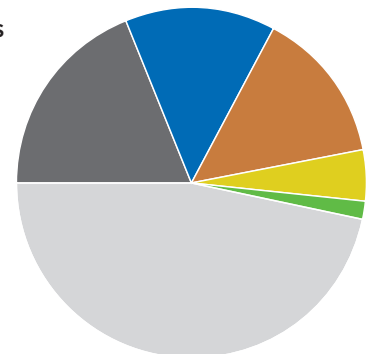
Indoor & Outdoor Lighting



Distribution Transformers



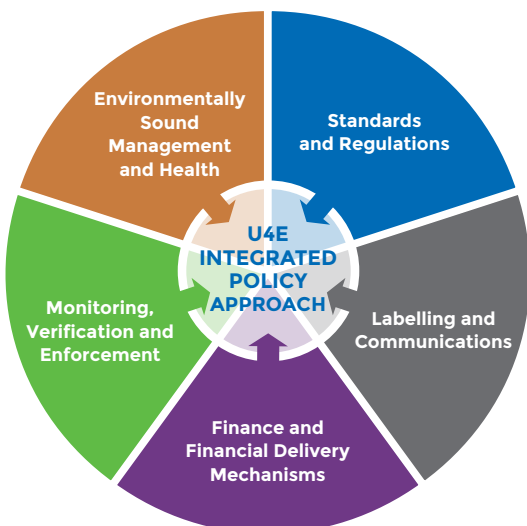
Electric Motors & Motor Systems



Together these products consume over half of the world's electricity.



A widespread and lasting market transformation requires the following elements:



### STANDARDS & REGULATIONS

- Specify energy efficiency and other requirements necessary for a product to be sold in the market, including mandatory Minimum Energy Performance Standards (MEPS), test procedures and definitions based on international best practices.

### LABELLING & COMMUNICATIONS

- Support standards by ensuring that requirements are clearly and consistently conveyed.
- Help purchasers understand performance and other attributes so they can make informed decisions.
- Raise awareness of the benefits and activities associated with market transformation activities.



# BENEFITS OF ENERGY EFFICIENCY

- Stable and resilient grids to minimise power cuts
- Reduced electricity consumption and demand to enable existing capacity to reach more consumers
- Lower utility bills so customers have more money to spend on other priorities
- Cleaner air for healthier people and clearer skies
- Better productivity so businesses are more competitive
- A major contribution toward climate change mitigation to meet the 2°C climate target.



**10% DECREASE**  
IN GLOBAL ELECTRICITY  
CONSUMPTION



**\$350 BILLION**  
INCREASE IN ECONOMIC  
DEVELOPMENT



**\$500 BILLION**  
SAVINGS IN POWER  
GENERATION



**1.25 BILLION  
TONNES**  
REDUCED IN CO<sub>2</sub>  
EMISSIONS ANNUALLY

## THE NEED FOR ACTION

United for Efficiency is working with developing and emerging economies to get the most out of their electricity by accelerating adoption of energy-efficient lighting, appliances, and equipment.

Most of the older products in use, and many new products sold today, waste a large amount of electricity. This leaves less money for residents, businesses, and governments to spend on other priorities.

Out-dated technologies also cause more air pollution, strain electricity grids, and impact the climate in more profound ways than energy-efficient alternatives.

Continued rapid growth in sales, coupled with long lifetimes of up to 40 years for some products, will lock-in significant electricity waste for decades to come unless robust policies are adopted around the world.

Now is the time to ensure high-performance products take over and become the norm.

This transformation will make it possible for hundreds of millions of families to save money on their utility bills, help businesses thrive through greater productivity, enable utilities to meet growing demand for electricity, and assist governments in reaching their economic and environmental ambitions.



### FINANCE & FINANCIAL DELIVERY MECHANISMS

- ▶ Help address the higher purchase price of energy-efficient products.

### MONITORING, VERIFICATION & ENFORCEMENT

- ▶ Oversee products sold in the market, verify compliance, and enforce the requirements
- ▶ Report on the results so that consumers and businesses trust and benefit from market transformation activities.

### ENVIRONMENTALLY SOUND MANAGEMENT & HEALTH

- ▶ Ensure products do not cause undue harm to people or the planet.
- ▶ Handle any hazardous material (e.g. mercury, refrigerants, PCBs) according to global best practices.

United for Efficiency's Integrated Policy Approach is a proven pathway for countries to move their markets to energy-efficient products.

## SUPPORT

United for Efficiency provides countries with tailored technical support with transforming their markets. This support is available at three levels..



### GLOBAL

- 150 Country assessments
- 6 Policy guides
- 30 Lighting documents
- Other tools and resources
- [united4efficiency.org](http://united4efficiency.org)



### REGIONAL

- Regional market assessment
- Regional policy roadmap
- Regional harmonisation
- Regional training for policymakers and practitioners



### NATIONAL

- National action plan
- Help develop funding proposal
- Technical assistance with implementation

## IMPACT

### A few examples from recent projects

#### CHILE

In 2015, Chile was the first of five supported countries in the region to complete the phase out of inefficient incandescent lamps.

#### WEST AFRICA

In 2014, West African countries agreed on a regional lighting strategy to accelerate the penetration of efficient products in the market. Incandescent technologies were phased out, a common market surveillance system with an accredited laboratory, and a harmonised mandatory labelling and certification scheme for efficient grid and off-grid lighting were established.

#### SOUTHEAST ASIA

In 2016, all 10 countries of the Association of Southeast Asian Nations (ASEAN) agreed to harmonise regulations for LED lighting following their successful implementation of room air conditioner regulations.

## GET INVOLVED

[United4efficiency.org](http://United4efficiency.org) • [U4E@un.org](mailto:U4E@un.org) • +33 1 44 37 42 57

### FOUNDING PARTNERS



### MANUFACTURING PARTNERS



### TECHNICAL ORGANISATIONS & INITIATIVES



Cover Photos: left (2) - Marietta Barsocchini Dellafori, right - Arçelik A.Ş.