

MODEL REGULATION GUIDELINES

BACKGROUND

Based on data from the United Nations Environment Programme (UNEP) United for Efficiency (U4E) 2022 country savings assessments, energy consumption is expected to increase by 41% by 2040. Consequently, dramatically increased greenhouse gas emissions are predicted. Energy-efficient technologies that are already available offer impressive energy improvements. In fact, energy-efficiency is one of the most effective ways to reduce electricity consumption and to mitigate climate change.

AIM

The U4E Model Regulation Guidelines are intended to:

- Help accelerate the adoption of robust MEPS and energy labels where they do not exist and facilitate the revision of outdated policies.
- Set a minimum efficiency baseline to prohibit future sales of inefficient products.

They provide guidance to assist Governments in developing countries and emerging economies that are considering a voluntary, regulatory or legislative framework for use with incentive programmes, public procurements, minimum energy performance standards, energy labels and other such market transformation interventions.

They contain details of the essential elements for a sustainable transition, including product scope, definitions, test methods, minimum efficiency levels and a set of minimum performance requirements, along with information on market surveillance measures to ensure consumers can purchase quality efficient products with confidence.. They have been developed for the five focus products of U4E: lighting, room air conditioners, refrigeration (both commercial and residential), electric motors and transformers.



LIGHTING



REFRIGERATION



AIR CONDITIONERS

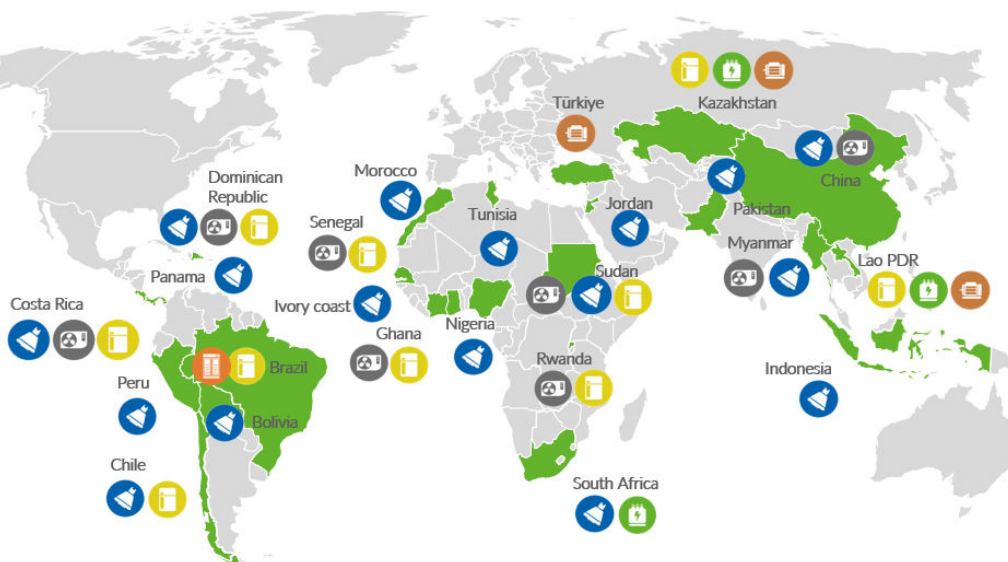


DISTRIBUTION TRANSFORMERS



ELECTRIC MOTORS

DEPLOYMENT OF U4E's MODEL REGULATIONS GUIDELINES TO SUPPORT THE GLOBAL MARKET TRANSFORMATION TO ENERGY-EFFICIENT TECHNOLOGIES



Completed and ongoing regional efforts in MEPS harmonization

ASEAN
(Association of Southeast Asian Nations)



SADC/EAC
(Southern African Development Community/ East African Community)



Brunei, Cambodia, Indonesia, Lao PDR, Malaysia, Myanmar, the Philippines, Singapore, Thailand and Vietnam

Angola, Botswana, Comoros, Democratic Republic of Congo, Eswatini, Lesotho, Madagascar, Malawi, Mauritius, Mozambique, Namibia, Seychelles, South Africa, United Republic of Tanzania, Zambia and Zimbabwe

Kenya, Burundi, Rwanda, South Sudan and Uganda

Disclaimer: The designations used and the presentation of the material in this publication do not imply the expression of any opinion on the part of UNEP concerning the legal status of any country, territory, city or area or of its authorities, or concerning delimitation of its frontiers or boundaries.

As described in the Model Regulation Guidelines, U4E encourages countries to follow an Integrated Policy Approach to transform their markets with efficient, quality lighting, appliances and equipment.

SUPPORTED BY VAST GLOBAL EXPERTISE

The development of the Model Regulation Guidelines involved close collaboration with many public and private stakeholders, all sharing the common objective to accelerate the transition towards energy efficient lighting, appliances and equipment. It has been reviewed by leading environmental groups, technical institutions, governments, regional institutions and by leading manufacturers.



ELECTRICITY SAVINGS FOR THE MAIN PRODUCT GROUPS IN 2040*



910 TWh of electricity consumption, which is equivalent to approximately:



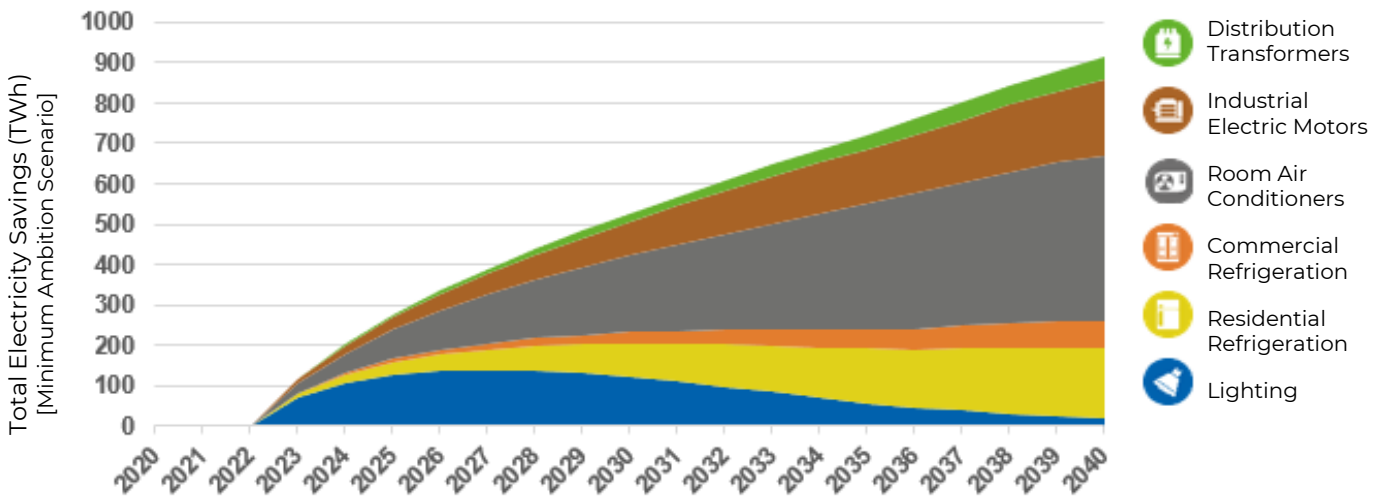
416 power stations [500 MW each]



820 million tonnes of CO₂



130 billion USD on electricity bills



* For the 156 countries included in the U4E Country Savings Assessments (2022 update), which are derived from the U4E Model Regulation Guidelines. <https://united4efficiency.org/countries/country-assessments>

GET INVOLVED AND FURTHER INFORMATION

Governments that are interested in transforming their markets to more energy-efficient and environmentally sound technologies are encouraged to contact U4E for additional guidance and an update on the status of energy-efficient policy developments around the world.

In 2023 and 2024, U4E will be developing Model Regulation Guidelines for fans, heat pumps and off-grid refrigeration. For more information about the Model Regulation Guidelines and other key energy-efficiency market transformation topics please visit our website at: united4efficiency.org

