



## Welcome to the January 2023 newsletter

The U4E newsletter provides a digest of the progress and upcoming developments of U4E and its partners. During the last quarter, we saw a continuing focus on capacity building activities and several high-profile events aimed at highlighting the key role of energy efficiency in mitigating climate change.

### News

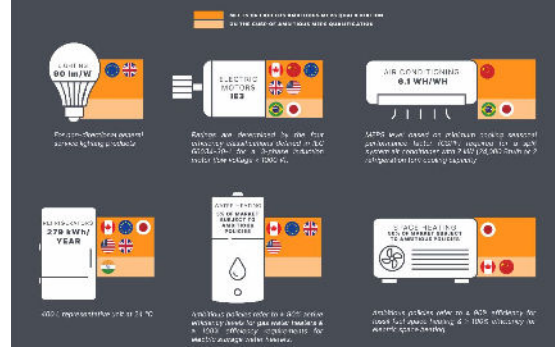


U4E's [model regulation guidelines for lighting, appliances and equipment](#) are designed to simplify the deployment, adoption and enforcement of energy efficiency regulations and incentive programmes by providing guidance on the essential elements, such as product scope, definitions, test methods and minimum efficiency levels, along with a template set

of ambitious minimum performance standards (MEPS) for national regulations. As was the case in two instances this quarter, they can also be used to specify the threshold levels for accessing support and as a benchmark for a country's ambition. In the recent [NDC4 Call for Proposals, Raising ambition in NDCs with Green Cooling](#), one of the entry requirements was that the applicant country's energy efficiency target values met at least low efficiency as specified in the U4E model regulation guidelines for split air conditioners and/or domestic and commercial refrigeration.

The new digital tool and report from CLASP, [World's Best MEPS](#), assesses

MEPS for six high energy-consuming appliances across ten of the highest greenhouse gas-emitting economies. Existing standards were categorized as exceeding/meeting or being on the cusp of meeting the recommended efficiency and energy consumption levels either outlined in the U4E model regulation guidelines for these appliances or benchmarks developed by CLASP through market analysis.



Collaboration also underpins the Africa Centre of Excellence for Sustainable Cooling and Cold-chain (ACES), with some exciting developments this quarter. At COP 27 in November, the Rwanda Environment Management Authority (REMA) for the Rwanda Ministry of Environment, and the UK

Department for Environment, Food and Rural Affairs (Defra) were pleased to sign a [statement of cooperation](#) with the International Finance Corporation (IFC) on behalf of ACES. This statement expresses the intent to facilitate collaboration with innovators participating in the IFC’s TechEmerge Sustainable Innovation Program (TS SCI) to demonstrate innovative technologies at the ACES headquarters campus. Earlier in the month, ACES was pleased to announce [Carrier Global Corporation](#) as its first formal industry partner. The collaboration will help to advance the Centre’s work on sustainable cold chain development in Africa and supports Carrier’s focus on [expanding the cold chain](#).

In October 2022, a [novel awareness campaign](#), designed specifically to target primary school children as a route to engaging their families and communities, was undertaken as part of [Sudan’s Energy Efficient Appliances and Lighting \(SEEAL\)](#) project. The project is designed to promote, demonstrate, deploy and transfer innovative low-carbon technologies, particularly high efficiency and usage-controlling lighting technologies and climate-friendly room air conditioners, to reduce both the strain on Sudan’s already over stretched electricity infrastructure and the increase in fossil fuel dependent power generation that will be required as the proportion of Sudan’s population with access to grid electricity increases and the demand for lighting and air conditioning products rises. The project is being implemented by Sudan’s Ministry of Energy and Oil and the Electricity Regulatory Authority (ERA), with support from U4E’s technical team and the [United Nations Development Programme](#), with funding from the [GEF](#).



## Events



During this quarter, U4E worked with partners to host several high-profile events. At the end of October, a [side event convened with Defra](#) at the *Thirty-Fourth Meeting of the Parties to the UN Montreal Protocol on Substances that Deplete the Ozone Layer* in Montreal highlighted the co-benefits of improving

energy efficiency in parallel with phasing out the use of HCFCs (hydrochlorofluorocarbons), such as mitigating the unavoidable increase in total energy consumption for these products as their use becomes more widespread and to allow the decoupling of economic growth from energy consumption. Analysis of data from the [U4E Country Savings Assessments](#) was used to highlight that while 21% of the total climate mitigation potential of room air conditioners comes from direct savings (via lower global warming potential refrigerants), 79% comes from indirect savings (via reduced electricity consumption).

In December 2022, in parallel with OLADE Energy Week 2022, U4E hosted a [regional energy efficiency seminar for Latin American countries](#) to highlight the importance of energy efficiency as the foundation for tackling the current global climate and energy crisis. To improve understanding of the benefits of an energy efficient market transformation and the tools that are available to achieve it, the U4E seminar shared the experiences and results of the implementation of projects undertaken in the region, with the financial support of the [Green Climate Fund](#) (GCF), so that other countries can profit from the valuable lessons learned and adopt energy efficient and environmentally friendly appliances and equipment in their respective countries.



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## Capacity Building



In December 2022, a [specialist technical workshop](#) provided training for laboratory staff and technical energy efficient officials in Cuba to facilitate implementation of improvements to the existing monitoring verification and enforcement aspects of national efficiency regulations for air

conditioners, specifically on seasonal energy efficiency metrics and inspections and enforcement of energy efficient labels. This was undertaken as part of the [GCF Readiness Programme](#)-funded project, [Leapfrogging to Energy-Efficient and](#)

In November 2022, representatives from the key stakeholder organisations involved in monitoring, verification and enforcement activities in Indonesia spent four days at the Electrical and Electronics Institute (EEI) in Bangkok, Thailand to reinforce and develop national capabilities for undertaking the testing required to underpin regulations for energy efficiency of lighting products in Indonesia. The [study tour](#) was undertaken as part of the [GEF-funded \*Advancing Indonesia's Lighting Market to High Efficient Technologies \(ADLIGHT\)\*](#) project, which aims to reduce electricity demand and related greenhouse gas (GHG) emissions by promoting increased use of high efficiency lighting technologies by transformation of the national market.



In October 2022, Tunisia moved closer to establishing minimum energy performance standards (MEPS) and labels for energy efficient lighting through a [workshop and series of meetings](#) convened by ANME, the Tunisian National Agency for Energy Management, and U4E as part of the

[GEF-funded, \*Leapfrogging Tunisia's Lighting Market to High Efficiency Technologies\*](#) project. The workshop was designed to update key Government stakeholders on the status of the project and officially present U4E's MEPS and labels proposal. The workshop included representatives from the Ministry of Industry, Mines and Energy, Ministry of Environment, Ministry of Trade and Export Development, Tunisian Customs and CETIME, the Technical Centre for Mechanical and Electrical Industries, local lighting manufacturer representatives along with ANME.

## Resources



U4E's [Model Regulation Guidelines for Energy-Efficient and Climate-Friendly Commercial Refrigeration Equipment](#) provide guidance for assisting developing and emerging economy governments that are considering a voluntary, regulatory or legislative framework requiring new refrigeration

equipment the types commonly used in commercial applications to be energy efficient and to use refrigerants that have lower global warming potential compared with typical legacy refrigerants. Copies of the guidelines are now available in French and Spanish, as well as English.

Pakistan's [GEF](#)-funded project "[Delivering the Transition to Energy Efficient Lighting in Residential, Commercial, Industrial, and Outdoor Sectors](#)" was formally launched in February 2019. The project, through the U4E team of experts, provided technical assistance to the National Energy Efficiency and Conservation Authority (NEECA) in the promotion, demonstration, deployment, and transfer of innovative high efficiency and usage-controlling lighting technologies. A new [case study](#) provides details of three pilot projects undertaken as part of the project, which demonstrate the energy saving and GHG reduction potential of implementing lighting regulations and green procurement practices to accelerate the uptake of high-efficiency LED lighting technologies and smart controls.



The [Advancing Indonesia's Lighting Market to High Efficient Technologies \(ADLIGHT\)](#) project aims to reduce electricity demand and related greenhouse gas emissions by promoting increased use of high efficiency lighting technologies through the transformation of the national market. A new [factsheet](#) provides summary details of the project and its objectives.

## Partner Spotlight



[CLASP](#) is an international non-profit organization which focuses on appliance and equipment energy performance and quality, to mitigate and adapt to climate change and expand access to clean energy. CLASP has been a U4E partner since the programme was founded and has contributed to the development and review of many of U4E's resources for developing countries and emerging economies, including our policy guides and model regulation guidelines, and has partnered in national level projects.

## UPCOMING EVENTS

**8 FEBRUARY 2023 and 15 FEBRUARY 2023**

**CLASP webinars: How to Achieve the World's Best MEPS  
North America, Africa and Europe and Asia**

*Panel discussion and launch of report on the technology solutions and policy actions governments can take to improve the efficiency of the highest energy-*

*consuming appliances and equipment. Each webinar will feature a different panel of guests with region-specific experiences.*

For further details on any of these events, please email us at [unep-u4e@un.org](mailto:unep-u4e@un.org).

United for Efficiency (U4E) is a global initiative supporting developing and emerging economies to switch to energy-efficient lighting, appliances and equipment. It is a public-private partnership convened by UNEP and brings together a range of stakeholders who are united in a common cause to improve energy efficiency in developing and emerging economies.

#### With thanks to our funders



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