

UNEP GEF PIR Fiscal Year 2023

Reporting from 1 July 2022 to 30 June 2023

1. PROJECT IDENTIFICATION

1.1. Project details

Identification Table		GEF ID: 9337	Umoja no.: S1-32GFL-000616 / SB-009919
Project Title		Global project to leapfrog markets to energy efficient lighting, appliances and equipment	
Duration months	Planned	48 months	
	Extension(s)	31 March 2023 (+13 months)	
Division(s) Implementing the project		UNEP, Economy Division, Energy & Climate Branch, Climate Change Mitigation Unit	
Executing Agency(ies)		UNEP, Economy Division, Energy & Climate Branch, Global Climate Action Unit	
Names of Other Project Partners		Global Climate Partnership Fund, International Copper Association, Philips Lighting BV (now Signify), Osram, CLASP, National Lighting Test Centre China, BSH Hausgeräte GmbH, Carbon Trust, Mabe, Copenhagen Centre for Energy Efficiency, Hitachi, ABB, IEA-4E, UNDP, Arcelik A.S., IIEC, GIZ, Energy Efficiency Services Limited, Neonlite, Whirlpool, Natural Resources Defense Council, Topten, BASE, LBNL, Electrolux, Sanhua Holdings Ltd, GREE, AFREC (African Energy Commission), OLADE (Latin American Energy Organisation), Efficiency Valuation Organisation EVO, ACE (ASEAN Centre for Energy), African Regional Energy Centres: ECREE (West Africa), SACREE (Southern Africa), EACREEE (East Africa) and The African Development Bank (AfDB)	
Project Type		Full Size Project	
Project Scope		Global	
Region		Global	
Countries		Global	
Programme of Work		PoW 2018-2019, Subprogramme 1 Climate Change	
GEF Focal Area(s)		Climate Change	
UNSDCF / UNDAF linkages		N/A – this is a global project	
Link to relevant SDG target(s) and SDG indicator(s)		SDG-7: Ensure access to affordable, reliable, sustainable and modern energy for all Target 7.3. Global Energy Intensity Target 7.a. Clean Energy Research and Technology Target 7.b. Investment in Energy Efficiency	
GEF financing amount		US\$ 3,100,000	
Co-financing amount		US\$ 18,677,000	

Date of CEO Endorsement		16 November 2017
Start of Implementation		15 March 2018
Date of first disbursement		27 March 2018
Total disbursement as of 30 June 2023		US\$ 3,018,459 ¹
Total expenditure as of 30 June 2023		US\$ 3,018,459
Actual Mid-Term Review Date		June 2021
Completion Date	<i>Planned</i>	28 February 2022
	<i>Revised</i>	31 March 2023
Expected Terminal Evaluation Date		June 2023 (completion date) – TE timeline to be revised by UNEP Evaluation Office based on other Child Projects completion
Expected Financial Closure Date		May 2024

1.2. Project description

The United for Efficiency (U4E) initiative addresses Sustainable Development Goal Seven on Affordable and Clean Energy for All. U4E supports developing countries and emerging economies with moving their markets to energy-efficient lighting, appliances and equipment. U4E is a global public-private partnership which brings together a diverse range of stakeholders. U4E develops globally applicable tools and resources that have commitment from a range of stakeholders (NGO, manufacturers, governments, technical institutions, etc.), provides training to policymakers and practitioners and supports countries to develop and implement energy efficiency projects.

The objective of the project is to mitigate climate change by transforming national and regional markets to energy-efficient products, through two components:

Component 1: Support partner countries to develop and implement energy efficiency policies framework

Component 2: Increasing the ambition of the Global Partnership on Efficient Appliances and Equipment

1.3. History of project revisions

Version	Date	Main changes introduced in this revision
Rev 0 (CEO ED)	April 2017	
Rev 1	March 2018	During the signature of the internal legal agreement, the budget was revised to reflect a refined execution strategy (i.e. adjustments to project personnel/consultants/subcontractors Terms of Reference; extension of the project duration from 3 to 4 years in order to provide continuous support to the country child projects) and convert the budget from IMIS to UMOJA coding structure.

¹ The total disbursement was overstated in previous PIRs. The values for cumulative disbursements in the GEF portal data by June 2022 and June 2023 need to be revised to be aligned with the values in the PDF version of this 2023 PIR. The actual cumulative disbursement by June 2022 is US\$ 2,856,377.35 (and not US\$ 3,030,215.64 as reported last year), and the one by June 2023 is US\$3,018,459 (and not US\$ 3,030,215.64 as reported in the portal for system validation purposes).

Rev 2	April 2018	The project was further revised to: reflect changes in subcontract, amend ToRs, introduce revised workplan and extend the completion duration until March 2022.
Rev 3	July 2020	The project revised the budget at mid-point of the project implementation to take into consideration significant co-finance contributions the project leveraged over the first 2 years of implementation.
Rev 4	July 2021	The technical completion date was revised to 31 March 2023 and the budget updated accordingly, taking into account additional leveraged contributions.

2. OVERVIEW OF PROJECT STATUS

2.1. UNEP Subprogramme(s)

Insert the Subprogramme(s) and biennia of the PoW to which the project contributes	Specify the relevant Outcome(s) & Indicator(s)
Climate stability: Countries increasingly transition to low-emission economic development pathways and enhance their adaptation and resilience to climate change	<p>Outcome 1(B): Countries and stakeholders have increased capacity, finance and access to technologies to deliver on the adaptation and mitigation goals of the Paris Agreement.</p> <p>Indicator (ii): Amounts provided and mobilized in \$ per year in relation to the continued existing collective mobilization goal of the \$100 billion commitment through to 2025 with UNEP support</p>
<p>22 countries have adopted new national EE policies [regulations] to date:</p> <ol style="list-style-type: none"> 1. Adoption by Chile of Lighting, Refrigerators and Waste Electrical Equipment Regulations [Semester 1 2019, S1 2021 and S1 2022], as well as Higher Efficiency Lighting Public Procurement Purchasing Specifications for Street Lighting (including for the Chile Dark Sky Reserve) [S1 2020] 2. Adoption by Rwanda of Cooling Regulations [S1-2019] 3. Adoption by Cote D'Ivoire of Lighting Regulations [S1-2019] 4. Adoption by Kazakhstan of Motors Regulations [S1-2019] and Refrigerator Regulations [S1-2020] 5. Adoption by Türkiye of Motors Regulations [S1-2019] 6. Adoption by China of Cooling Regulations [S1-2019 and S1-2021] 7. Adoption by Pakistan of Lighting Regulations and Higher Efficiency Lighting Public Procurement Purchasing Specifications (all lighting sectors) [S1-2020] and a new 2022 national energy efficiency and conservation policy and new regulations for cooling appliances and motors [S1 2022] 8. Adoption by India of SPP Cooling Regulations (Air Conditioners) [S1-2020] 9. Adoption by Georgia of Energy Efficient Public Procurement legislation (lighting and appliances) [S1 2022] 10. All 10 ASEAN countries adopted updated air conditioner regulations, via their regional ministerial forum (U4E supported update, MEPS levels S2 2021). 11. In addition, South Africa has announced the development of new lighting MEPS. The regulation will come into force during 2024. 12. Adoption by Indonesia of first regulations for lighting [MEPS] and public procurement [HEPS] for lighting in all sectors. [S2-2022] <p>An additional 19 countries² have committed to and will shortly adopt national EE policies. An additional one country (South Africa) has also endorsed MEPS on refrigerator and air conditioners, but is not counted here as South Africa has also announced new lighting MEPS and is thus counted among the above countries:</p> <ol style="list-style-type: none"> 13. 7 Southern African countries (Botswana, Eswatini, Lesotho, Malawi, Namibia, Zambia, Zimbabwe) have concluded GCF projects with roadmaps which schedule the implementation of MEPS and labels by 2024/2025 on residential refrigerators and distribution transformers. 	

² Botswana, Comoros, Democratic Republic of Congo, Eswatini, Lesotho, Madagascar, Malawi, Mozambique, Namibia, Seychelles, Tanzania, Zambia, Zimbabwe, Brazil, Cuba, El Salvador, Honduras, Tunisia, Sudan. Each country is only counted once, even though some of them have national and regional activities to implement policies (such as Botswana, Eswatini and others, see bullet point 13 and 14).

14. 14 SADC countries (Botswana, Comoros, Democratic Republic of Congo, Eswatini, Lesotho, Madagascar, Malawi, Mozambique, Namibia, Seychelles, South Africa, Tanzania, Zambia, Zimbabwe) have endorsed regional MEPS and labels on residential refrigerators and air conditioners, which will be implemented through national MEPS and labels
15. Brazil will introduce, by 2025, its first mandatory commercial refrigerator regulations [MEPS] which were enabled through a recently completed GCF project.
16. Cuba, El Salvador and Honduras will introduce shortly updated air conditioner regulations [MEPS] and public procurement measures [HEPS] through recently completed GCF projects.
17. Tunisia is expected to enforce new MEPS and Labels regulation for lighting by the end of 2023, with the introduction of changes proposed during the project.
18. Sudan has advanced with approval and endorsement of the MEPS and labels regulations for fans, evaporative coolers, room air conditioners and refrigerators.

A further 4 U4E supported countries are in the process of elaborating new national EE policies [regulations]:

19. Bolivia is progressing its first regulations for lighting [MEPS] and public procurement [HEPS] for lighting in all sectors
20. South Africa is progressing update of its refrigeration appliances regulations
21. Libya is progressing its first regulations for lighting and cooling appliances [MEPS]
22. The Gambia is progressing with the development of MEPS for refrigerators and air conditioners.

[Section to be shared with relevant Regional and Global SubProgramme Coordinators]

2.2. GEF Core Indicators (for all GEF 6 and later projects):

GEF Core Indicators	Indicative expected Results
<p>The project team estimated cumulative avoided emissions of 32,600,724 tons CO₂e and energy saved of 166,450,428,229 MJ for 2020 to 2030. The estimates are calculated using the U4E Country Savings Assessment to keep a harmonized approach across all countries and to use a methodology that has been reviewed by a range of experts.</p> <p>In order to enable a comparison of the savings since the Mid-Term review, the same numbers as in 2021 were used for the above estimate. Since the Mid-Term review the estimates increased by 2,967,560 tons CO₂e and 18,059,779,381 MJ (2021 savings were at 29,633,164 tons CO₂e and 148,390,648,848 MJ of energy) and exceed thus the below noted targets.</p> <p>In 2022, the Country Saving Assessments were updated. When using the new Country Saving Assessment numbers, the savings for 2030 are lower as the model assumes an implementation of policies only by 2024 and thus does not account for the savings that were achieved by this project through the countries that adopted policies already. However, in 2040 the following savings are estimated: 88,523,640 tons CO₂e and 442,541,076,688 MJ.</p> <p>As noted in previous PIR's the estimates account only for the countries supported under each outcome and selected product (e.g. lighting, refrigerators, air conditioners, electric motors and distribution transformers). This overall approach was agreed at CEO Endorsement of the global project, which allocates only a portion of the savings to project 9337 (ranging from 2% to maximum of 15% depending on which outcome(s) the country participates).</p>	
Indicator	Expected values at End-of-project
Core Indicator 6 - Greenhouse gas emission mitigated	30,644,000 tCO_{2eq} (between 2020 to 2030)
Core Indicator 6.2 - Emissions avoided Outside AFOLU	30,644,000 tCO _{2eq} (between 2020 to 2030)
Core Indicator 6.3 - Energy Saved	153,861,087,866 MJ (between 2020 to 2030)

2.3. Implementation status and risk

	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
PIR #	1 st	2 nd	3 rd	4 th	Final
Rating towards outcomes (section 3.1)	S	HS	HS	HS	HS
Rating towards outputs (section 3.2)	S	HS	HS	HS	HS
Risk rating (section 3.3)	L	L	L	L	L

During this last reporting period (July 2022-June 2023), the global project continued to complete and over complete many of the activities/outputs to lead to the project's intended outcomes.

- The approval of the [Ministerial Decree for minimum energy performance standards \(MEPS\)](#) and energy labels for light emitting diodes (LEDs) marked a significant milestone for **Indonesia's** Global Environment Facility (GEF) A D L I G H T , Advancing Indonesia's Lighting Market to High Efficient Technologies, project. The decree, which was officially approved by the Minister of Mineral and Energy Resources on 5 July 2022, specifies the scope of the MEPS and energy labels, thereby providing the legal basis for their implementation. It sets the minimum luminous efficacy of the LED MEPS at 80 lumens per watt which, in keeping with the ASEAN goal of regional harmonization of MEPS for lighting products, aligns with the ASEAN regional lighting harmonisation level.
- On World Ozone Day on 16 September 2022, the [Barbados National Cooling Strategy](#) was made publicly available by the Ozone Unit team at the Ministry of Environment and Natural Beautification (MENB) following its national approval earlier in the year. The strategy is a product of the collaborative effort of the National Ozone Depleting Substances and Hydrofluorocarbon Management Programme of MENB and the Caribbean Cooling Initiative (C-COOL), a Clean Cooling Collaborative funded project led by the United Nation's Environment Programme (UNEP) United for Efficiency (U4E) team, with contributions provided by key stakeholders from governmental and non-governmental organisations during consultations, meetings and the document development and review stage.
- Analysis of the 2022 update of UNEP-U4E's Country Savings Assessments estimates that, if all developing and emerging economies adopted minimum energy performance standards (MEPS) for six key product areas, over 910 TWh of electricity consumption could be saved annually in 2040, equivalent to 416 large power stations or more than the total current consumption of Türkiye, Indonesia and South Africa combined. The associated climate benefits include mitigating 820 million tonnes of CO2 annually and a USD 130 billion saving for consumers on their electricity bills annually. The updated assessments were released in September 2022 and for the first time include details of the savings potential for commercial refrigeration. They also include information on other potential opportunities for savings from additional steps such as the use of occupancy and daylight sensors and dimming controls for lighting, control systems, sensors and thermal zoning for air conditioning, variable speed drives for motors and improved management practices for distribution transformers. For more information, see the Country Savings Assessments [factsheet](#) and explore [assessments](#) for 156 countries.
- U4E Supported the Third Global Climate & SDGs Conference on strengthening synergies between the Paris Agreement on Climate Change and the 2030 Agenda for Sustainable Development during the period. It focused on the progress made over the last few years on synergistic action in raising climate ambition towards the 1.5 degrees goal of the Paris Agreement while putting the world on the right track for achieving the Sustainable Development Goals by 2030. U4E contributed two technical briefs (on [Delivering Efficient Power Supply Networks for all in the Southern Africa Region](#) and [Transforming Global Markets to Energy Efficient Lighting and Appliances](#)) in support of the conference.
- U4E's collaboration with the Multilateral Fund for the Implementation of the Montreal Protocol over the duration of the project on increasing support to partner countries to develop and implement energy efficiency cooling policies frameworks in the context of the Protocol and the Kigali Amendment in particular, resulted in a **new specific cooling efficiency funding support decision by the Executive Committee of the Multilateral Fund, amounting to \$20 M per year (Dec 2022)**. The funding will support cooling equipment manufacturers to upgrade energy efficiency production facilities and to support national MEPS policy development & institutional strengthening for the many developing countries still without current international level minimum energy performance standards policies for cooling appliances and equipment. [Criteria for pilot projects to maintain and/or enhance energy efficiency of replacement technologies and equipment in the context of HFC phase-down \(decision 90/50\(b\)\(i\)\)](#)
- A funding of [\\$5.1 million \(£4 million\) to drive down the emissions of harmful hydrofluorocarbons generated by outdated air conditioning units, cooling refrigeration and cold supply chains was announced after the reporting period \(on 20 April 2023\) by the UK Department for Environment, Food & Rural Affairs \(Defra\)](#). The funding will support the African Centre of Excellence for Sustainable Cooling and Cold Chain (ACES), based in Kigali, Rwanda, which delivers training to farmers, healthcare workers and technicians to uptake more climate friendly and energy-efficient cooling. The UK government announced the funding ahead of a reception in No.10 Downing Street for climate scientists serving on the Independent Assessment Panels for the UN Montreal Protocol, along with members of the UNEP U4E African Centre of Excellence for Sustainable Cooling and Cold Chain project team, UK academia and representatives of NGOs and the private sector – as well as government representatives.

- A further funding was received in February 2023 through the Clean Cooling Collaborative for the [ASEAN cool initiative](#). The funding enables the acceleration of the ASEAN Regional Policy Roadmap for Energy Efficient Room Air Conditioners by providing technical assistance and capacity building on Minimum Energy Performance Standards (MEPS) and labels in the region. In addition, the project will provide in-depth assistance for Singapore and Malaysia to adopt the new MEPS levels for air conditioners.

During this reporting period (the last one of the project), U4E progressed several key global and regional outputs. A few of the areas to highlight are:

- During the reporting period several technical study tours were organized in order to share experiences and best practices between countries. This includes:
 - **Rwanda & Kenya Study Tour to UK:** As part of a [study tour](#) to the UK in September 2022, ACES Rwandan and Kenyan partners visited cold stores, ACES partner Cranfield University, as well as Birmingham Energy Innovation Centre (BEIC) at Tyseley Energy Park. The tour culminated in The Local to Global Cold chain Summit hosted by the University of Birmingham on 29 September 2022 where the University of Birmingham and the Indian State of Haryana signed a Memorandum of Understanding (MoU) to develop a Haryana Centre of Excellence on crop post-harvest management and sustainable cold chain which builds on the model for ACES.
 - **Tunisia Study Tour to France:** During October 2022, in preparation for making the final specifications to purchase the photometry equipment necessary for testing lamps, senior staff from Tunisia's National Agency for Energy Management and the national test laboratory, CETIME, [spent four days on a study tour in France](#) to develop a fuller understanding of the technical features and quality of the key measurement systems required to effectively equip a photometric test facility to undertake the testing required to underpin the regulation of energy efficiency of lighting products in Tunisia. The study tour, which included two days at the Laboratoire National de Métrologie et d'Essais (LNE) just outside Paris and one day at LED Engineering Development, an accredited private test facility for lighting products in Toulouse,
 - **Pakistan Study Tour to Thailand:** In August, representatives from several key government agencies and test facilities from Pakistan, including the Ministry of Science and Technology, the Pakistan Council of Scientific and Industrial Research (PCSIR), National Institute of Electronics (NIE) and the Centre for Energy Research and Development (CERAD) [spent four days](#) at the Electrical and Electronics Institute (EEI) in Bangkok, Thailand to reinforce and develop national capabilities for lighting product testing.
 - **Indonesia Study Tour to Thailand:** 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 the national capabilities for undertaking the testing required to underpin regulations for energy efficiency of lighting products in Indonesia.
 - **Brazil Study Tour to the Netherlands:** In January 2023, the first ever commercial refrigeration technical study tour for Brazilian stakeholders was held. The three days training took place at the Re/genT testing laboratory in the Netherlands and aimed to increase the familiarity of testing laboratory personnel, local manufacturers, national laboratories and key public institutions, with the testing standards that will be used as reference for the upcoming new energy efficiency policies in Brazil: ISO 23953: Refrigerated display cabinets, ISO 22043: Ice-cream freezers, ISO 22044: Beverage coolers.
- Capacity Building and workshop activities were also core during this year's project implementation, including:
 - Awareness rising and dialog workshop on Sustainable Public Procurement in Sudan. July 2022
 - Capacity Building on MEPS and Labels, on 26th October 2022 (Honduras) and 3rd November (El Salvador)
 - Capacity Building on Monitoring Verification and Enforcement (MVE) mechanisms. The training was delivered in both virtual and in person sessions, which took place the 20th,

	<p>23rd and 26th September (Honduras), the 29th September and 15th November (El Salvador) and 8th and 9th December 2022 (Cuba).</p> <ul style="list-style-type: none"> ○ Capacity Building on MVE and Environmental Sound Management 23 and 24th August 2022 (Bolivia) ○ MEPS and Labels technical workshop, 18th October 2022 (Tunisia). ○ Stakeholder consultation workshop on scaling up energy-efficient and climate-friendly cooling in Nigeria's NDC Revision on 30th March 2023. ○ ESM technical mission and MEPS, Labels and SPP training in Tunisia. Between 29th May and 1st June 2023. ○ Technical PWG and wrap up project meeting, plus technical visit to CEPEL (Brazil), which took place in Rio de Janeiro 14th and 15th June 2023. ○ MVE virtual training on Conformity Assessment and Testing standards for INMETRO delegates in Brazil on 13th, 14th and 24th February 2023. <p>The activities and deliverables of the Global U4E Project (#9337) have all been completed and in many cases overachieving in terms of deliverables (for example cases studies completed, publication completed, events participated in, support to national child projects, etc.). As highlighted in section 3.3., some National Child Projects have started later than expected, such as the one in South Africa, and/or progressed slowly due to COVID-19. U4E has engaged with the national projects through events, workshops and training to understand how U4E can best support the national child projects to meet the objectives of the project. While the GEF project was completed, the U4E initiative still continues its activities and has received funding through several donors to do so.</p> <p>By the end of the Global Project (#9337) in March 2023, the Chile child project (#9496) was completed, most of the other child projects will be completed by 2024 except from Tunisia (extended up to 2025-Q1), Malaysia (stalled), Kazakhstan (on hold), and South Africa (started this year). More information on the status of the national child projects are summarized in Annex IV for further details.</p> <p>[section will be uploaded into the GEF Portal]</p>
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2.4. Co-financing

<p>Planned Co-finance Total: \$18,677,000</p> <p>Actual to date: \$20,162,932</p>	<p>During this final reporting cycle, the project obtained a total of \$8,509,585 co-financing (in-kind) for a project total of \$20,162,932 (108% of the planned co-financing). In total 26 organizations/companies contributed co-financing to the project, including from NGOs, governments, manufacturers and financial institutions. This reporting period included significant co-financing from funding governments (UK Department for Environment Food and Rural Affairs - DEFRA) and philanthropies (including Clean Cooling Collaborative (formerly Kigali Cooling Efficiency Program), which demonstrates the financial sustainability of the project beyond the project closure.</p>
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2.5. Stakeholder engagement

<p>Stakeholder engagement</p>	<p>U4E convenes a range of stakeholder consultations at the national, regional and global level to bring together governments, industry, financial institutions, NGOs, academic institutions and consumer groups for the development and implementation of activities to support the market transformation to energy-efficient lighting, appliances and equipment. In terms of stakeholder</p>
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	<p>engagements specifically related to the U4E global project during this reporting period:</p> <ul style="list-style-type: none"> • Technical Consultations – Brings together experts and stakeholders for input into development of U4E tools and resources. <ul style="list-style-type: none"> ○ Offgrid Refrigeration Model Regulation Development: August 2022, September 2022 ○ Harmonized Standard (HS) and National Codes Guideline development: throughout 2^o semester 2022. ○ Awareness raising and dialog workshop on Sustainable Public Procurement in Sudan. July 2022. ○ Technical workshops on MVE and Environmental Sound Management. August 2022. ○ Technical assistance in the revision and guidance for the ongoing work on Refrigerators and Lighting Central American Technical Regulation (RTCA): throughout 2^o semester 2022 ○ Stakeholder consultation workshop on scaling up energy-efficient and climate-friendly cooling in Nigeria's NDC Revision on 30 March 2023. ○ Update of SPP Lighting Guideline with addition on technical specifications for Photovoltaic Solar Lighting: throughout Q2 2023. • Regional Meetings – Brings together regional blocks of countries and experts for the development of harmonised policies for energy-efficient products. <ul style="list-style-type: none"> ○ Southern African Power Pool (SAPP) Meeting on distribution transformers, refrigerators and air conditioners: October 2022 ○ Latin American Regional Seminary in Energy Efficiency in the framework of the Energy Week: Panama City on 13-14th December 2022. The event gathered regional countries to discuss the importance of energy efficiency as the foundation for tackling the current global climate and energy crisis and present the results from the U4E - GCF projects. <p>Extensive additional stakeholder consultation was ongoing at the national level through national projects (funded by GEF STAR allocation and other funding sources). As an example, in Indonesia, extensive stakeholder consultations in the form of focused group discussions with representatives from relevant line ministries, manufacturers, industrial associations, think tanks, civil societies, consumer groups and academia were organized at National levels during the first half of 2022 for formulating LED lighting MEPS. Further engagement in the form of awareness workshops on social, energy and economic benefits of implementing MEPS within the stipulated timeframes were conducted in different Indonesian districts till Q2, 2023.</p>
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2.6. Gender

Gender mainstreaming	<p>The U4E Gender Mainstreaming Implementation Plan, available through the U4E website, continues to be the key reference document on U4E's gender mainstreaming activities.</p> <p>In order to investigate transferrable lessons, the U4E Communications and Gender Lead attended several virtual, gender-related events:</p> <ul style="list-style-type: none"> • Gender and Energy Compact HLPF 2022 Side Event: Interlinkages between SDG5 and SDG7 - Closing gender data gaps to inform energy decision making, which focused on raising awareness about the gender data gap in the energy sector and presenting various initiatives that work in this direction. • UN CC: Learn (UN Climate Change Learning Partnership) Fireside Chat: Why we need to talk about gender in climate change, which presented an informal Q&A session with Nina Jeff, Academy Associate at Chatham House working on the gender perspective of climate change policy. • Climate Week NYC Event: Strengthening Gender Integration for Fast and Effective Climate Action, which discussed ongoing efforts with
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	<p>industry leaders and advocates to integrate gender into climate action strategies, highlighting case studies and best practices, citing the <i>Women in Renewable Energy (WIRE) Network</i> as an exemplar.</p> <ul style="list-style-type: none"> • InformMEA: Introductory Course to Gender and the Environment, which provided a general introduction to gender and the environment, with a particular focus on the way gender has been addressed under multilateral environmental agreements (MEAs), including in relation to access to resources; participation in relevant decisions; mainstreaming; and access to support. • IEA webinar: <i>Addressing the Gender Dimensions of Clean Energy Transitions</i>, which discussed the numerous gender dimensions and questions at the heart of the transition of energy systems, including the state of the art of research about the gendered impacts of clean energy policies and the key policy levers to drive an inclusive and gender equitable energy transition, drawing on examples and lessons learned from around the world. • SEforALL webinar: <i>Gender Responsive Cooling: Using Data to Build Resilient Livelihoods</i>, which provided a good practical summary of the need for disaggregation of data on energy use by gender and the insights that this can bring, helping to inform the tailoring of projects and support. <p>Relevant gender-related topics were brought to the attention of U4E stakeholders, primarily through the U4E Twitter account. For example, they were encouraged to take part in the first Global Survey of Women in RACHP (refrigeration, air-conditioning, and heat-pumps), and were signposted to the preliminary results shared at the Women in Cooling forum in Bangkok in July 2022 and to the final report released in January 2023; they were introduced to the new networking web service created by the International Network for Women in Cooling (INWIC) to establish a global community of women professionals working in the cooling sector, including air conditioning, refrigeration, and heat pump industries.</p>
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2.7. Environmental and social safeguards management

Environmental and social safeguards management	<p>U4E continues to coordinate with multilateral environmental agreements on other environmental issues that are considered and supported through the project. This includes the Montreal Protocol on Substances that Deplete the Ozone Layer (for synergies in air conditioners and refrigerators – including the hosting of a capacity building programme over 2018-19); Minamata Convention on Mercury (for synergies in mercury in CFLs); Stockholm Convention on Persistent Organic Pollutants (for synergies in PCBs in older transformers); and the Basel Convention and Bamako Convention (for synergies on mitigating shipment of used products into Africa which many find to be waste).</p> <p>During the reporting period U4E, updated its Country Saving Assessments with a new design to facilitate the understanding of the benefits of energy-efficiency. The assessments include among others also the financial savings that are possible due to the replacement of old products with more energy-efficient products. These savings concern especially population in poverty who can save considerable amounts of money through new refrigerators, air conditioners and lighting. In addition, the Country Saving Assessments were also updated to include an additional analysis beyond energy-efficiency standards to present a holistic approach to keep the impact of the five targeted products (air conditioners, refrigerators, lighting, motors and distribution transformers) as low as possible for the environment. Moreover, the assessments also include savings for direct greenhouse gas emissions due to leakages in air conditioners and refrigerators, which are known to have a vast negative impact on the environment.</p> <p>In addition, U4E continued to help citizens who don't have enough money to afford new and energy-efficient refrigerators with a financial scheme. The</p>
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	<p>scheme, that is among others employed in Chile offers consumers a discount of up to 35% for a new refrigerator. This enables for example to store vitally important medicaments safely and helps to decrease food waste.</p> <p>[section will be uploaded into the GEF Portal]</p>
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2.8. Knowledge management

Knowledge activities and products	<p>All files and records from U4E projects are saved on a common Microsoft OneDrive that is accessible to the global U4E team. For external audiences, the project keeps the U4E website updated with the latest publication, news stories, and project updates. During this reporting period U4E added new resources to support the lighting project in Pakistan (case studies – Pilot Demonstration Projects Successfully Completed in Pakistan and Pakistan Capacity Building Study Tour in Thailand) and the updated Country Savings Assessments (Factsheet and methodology and assumptions document), along with an introduction to the Africa Centre of Excellence for Sustainable Cooling and Cold-Chain, the report (Sustainable and Resilient Cold-Chains: The 2050 Imperative) from the Local to Global Cold-chain Summit and an overview of the advancing Indonesia's Lighting Market to High Efficient Technologies (ADLIGHT) project (factsheet advancing Indonesia's lighting market to high-efficient technologies). In addition, project publications from projects in Cuba, Indonesia, Sudan, the Caribbean, East Africa, ASEAN, Brazil, Nigeria and Rwanda and the presentations from Defra and U4E MOP34 Side Event: Economic Growth Through Policy Harmonization, the IEA training for future generations of energy efficiency professionals and the Latin American Regional Seminary on Energy Efficiency plus capacity building events in Indonesia, Cuba, Honduras, El Salvador, Brazil, Bolivia and Tunisia were added to the website. Moreover, U4E shares regularly the information on its knowledge products through events, such as during the Global Energy Transition Workshop 2023.</p> <p>The update of 156 U4E Country Savings Assessments, with the addition of data on commercial refrigeration along with an update of the entire analysis to include for new data collected through projects and updated macroeconomic data, was completed during this period. To complement this, the Our Approach section of the website was updated to include updated infographics to illustrate the potential savings achievable in each of U4Es five key product areas.</p> <p>In addition, some amendments were made to the website to improve useability. The Home page was updated to give greater visibility to U4E's key tools and projects and increase flexibility to showcase particular projects, and the Publications section was updated to include a section for programmatic documents to provide access to generic U4E documents such as the U4E Gender Mainstreaming Implementation Plan.</p> <p>U4E coordinates also regularly with similar initiatives (e.g. SET Alliance, Super Efficient Appliance Deployment initiative – SEAD, International Energy Agency, regional centres, etc.) to encourage use and reference of the U4E tools to ensure the sustainability beyond project completion.</p> <p>As described further below, U4E convened and participated in several trainings, workshops and outreach events to communicate on the existing U4E Tools and Resources.</p>
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2.9. Stories to be shared

Stories to be shared	<p>A selection of articles published during the reporting period illustrate some key milestones in U4E's work:</p> <ul style="list-style-type: none"> • U4E-ACE ASEAN member states workshop takes forward recommendations for updating room air conditioner MEPS in the region • How Chile is putting its ageing refrigerators out to pasture
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	<ul style="list-style-type: none"> • Multi-million funding boost for experts leading research into sustainable cooling in Africa • Capacity building in Indonesia supports development of new MEPS and energy labels • Updated Country Saving Assessments identify large energy, climate and financial benefits • Major milestone in Indonesia's transition to energy-efficient lighting achieved • Study tour in Thailand boosts Pakistan testing laboratory capacities • Tunisia moves closer to a 50% saving on lighting energy with preparation of new mandatory MEPS and labels regulations, higher performance, eco-efficient lighting products across all sectors • Pakistan pilot projects demonstrate the benefits of retrofitting with high-efficiency LED lighting • Indonesia boots monitoring, verification and enforcement capability with technical study tour in Thailand • U4E hosts regional energy efficiency seminar in parallel with OLADE energy week 2022 • Specialist training in Cuba extends accuracy of national MVE testing for air conditioners • Brazilian stakeholders benefit from the first ever U4E commercial refrigeration study tour • U4E model regulation guidelines support development of new mandatory energy-efficiency standards for lighting in South Africa
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3. PROJECT PERFORMANCE AND RISK

*Based on inputs by the Project Manager, the **UNEP Task Manager**³ will make an overall assessment and provide ratings of:*

- (i) Progress towards achieving the project Results(s)- see section 3.1*
- (ii) Implementation progress – see section 3.2*

Section 3.3 on Risk should be first completed by the Project Manager. The UNEP Task Manager will subsequently enter his/her own ratings in the appropriate column.

3.1 Rating of progress towards achieving the project outcomes

³ For joint projects and where applicable ratings should also be discussed with the Task Manager of co-implementing agency.

Project objective and Outcomes	Indicator	Baseline level	End-of-project target	Summary by the EA of attainment of the indicator & target as of 30 June 2023	Progress rating ⁴
Objective: To mitigate climate change by transforming national and regional markets to energy efficient products.	Indicator 1: Number of countries with measurable market transformation in three energy efficient products	<u>Baseline 1:</u> 0	<u>Target 1:</u> 32 countries ⁵ (by 2031)	<p>While the GEF project 9337 has completed its activities, the U4E initiative continues to support several countries on transforming national/regional markets to energy efficient products. As of this reporting, another two countries (Indonesia and South Africa) have adopted national EE policies. Thanks to these policy adoptions a total of 40 countries will have visible market transformations by 2031. This number is comprised of:</p> <ul style="list-style-type: none"> • 10 countries⁶ have adopted national energy efficiency policies to date. • 7 Southern African countries⁷ have concluded GCF projects with roadmaps to implement MEPS and labels on residential refrigerators and distribution transformers. • 14 SADC countries⁸ have endorsed MEPS and labels on residential refrigerators and air conditioners. • 4 Latin American countries⁹ completed GCF Readiness projects during the period for the implementation of strategic market transformation projects for U4E products utilizing their GCF Readiness national allocations. • Tunisia is expected to enforce new MEPS and Labels regulation for lighting by the end of 2023 and Sudan has advanced with approval and endorsement of the MEPS and labels regulations for fans, evaporative coolers, room air conditioners and refrigerators. • All 10 ASEAN countries adopted updated air conditioner regulations, via their regional ministerial forum (U4E supported update, MEPS levels S2 2021). • 19 additional countries¹⁰ are effectively progressing the implementation of energy efficiency policies under strategic market transformation projects utilizing the integrated policy approach or key elements thereof. • 	S

⁴ Use GEF Secretariat required six-point scale system: Highly Satisfactory (HS), Satisfactory (S), Marginally Satisfactory (MS), Marginally Unsatisfactory (MU), Unsatisfactory (U), and Highly Unsatisfactory (HU).

⁵ 16 countries from the 50 countries not directly supported by the project and 16 countries directly supported by the project

⁶ Chile (lighting and refrigerators), China, Côte d'Ivoire, Georgia, Indonesia, India, Kazakhstan (Motors and Refrigerators), Pakistan, Rwanda, Türkiye

⁷ Botswana, Eswatini, Lesotho, Malawi, Namibia, Zambia, Zimbabwe.

⁸ Botswana, Comoros, Democratic Republic of Congo, Eswatini, Lesotho, Madagascar, Malawi, Mauritius, Mozambique, Namibia, Seychelles, South Africa, Tanzania, Zambia, Zimbabwe.

⁹ Cuba, El Salvador, Honduras and Brazil

Project objective and Outcomes	Indicator	Baseline level	End-of-project target	Summary by the EA of attainment of the indicator & target as of 30 June 2023	Progress rating ⁴
Outcome 1.1: Countries and regions have successfully implemented market transformation projects.	<u>Indicator 1:</u> Number of countries with on-going market transformation projects with support from U4E	<u>Baseline 1:</u> 15 countries ¹¹	<u>Target 1:</u> 25 countries	40 countries ¹² from previous periods and baseline, and 4 additional during this reporting period ¹³ . During this reporting period U4E completed support for the GCF-World Bank Cooling Facility with Bangladesh, Kenya, (already included in above countries), North Macedonia, and Sri Lanka as well as Malawi and Panama (both already included in above countries). In addition, 7 GCF Readiness projects were completed during the period including: Botswana, Eswatini, Lesotho, Malawi, Namibia, Zambia and Zimbabwe.	HS
Outcome 1.2: Increased capacity of 25 countries' officials to develop and implement projects and policies to advance energy efficiency of lighting, appliances, and equipment	<u>Indicator 1:</u> Number of countries officials who have attended U4E training, that have developed and implemented projects and policies to advance energy efficiency of lighting, appliances, and equipment	<u>Baseline 1:</u> 0	<u>Target 1:</u> 25	During this reporting period, U4E organized larger trainings in Brazil, Cuba and Indonesia (see activity 1.2.2.3 for more details). As Indonesia is already counted as part of the 32 countries, these are an additional 2 countries. U4E continued also to support the 32 countries ¹⁴ already counted in previous periods. These countries have: <ul style="list-style-type: none"> • Received U4E training • Developed and implemented projects to advance energy-efficient lighting, appliances & equipment • Developed and/or implemented policies to advance energy-efficient lighting, appliances & equipment 	HS

¹⁰ *Caribbean-Cooling Project Countries:* Bahamas, Barbados, Jamaica, St Lucia, Dominican Republic; *Eco-Fridge Project Countries:* Ghana, Senegal; *U4E-GCF Readiness Project Countries:* Rwanda, The Gambia, Lao People's Democratic Republic; *GEF National Project Countries:* Costa Rica, Indonesia, Myanmar, Morocco and South Africa. In addition, Bolivia, South Africa, Libya and The Gambia.

¹¹ 15 baseline countries are: Chile, China, Costa Rica, Cote d'Ivoire, Indonesia, Kazakhstan, Morocco, Myanmar, Panama, Pakistan, Peru, South Africa, Sudan, Tunisia, Türkiye

¹² 25 countries during previous reporting periods: Bahamas, Barbados, Botswana, Brazil, Brunei, Cambodia, Cuba, Dominican Republic, Honduras, Jamaica, El Salvador, Eswatini, Ghana, Lao PDR, Lesotho, Malawi, Malaysia, Namibia, Rwanda, Saint Lucia, Senegal, Singapore, Tanzania, Zambia, Zimbabwe.

¹³ 4 new countries including Bangladesh, Kenya, North Macedonia and Sri Lanka.

¹⁴ 6 countries in the PIR 2021 including Sudan, Türkiye, Philippines, Malaysia, Thailand, Vietnam. 15 countries in PIR 2020: Argentina, Cambodia, Colombia, Cuba, Dominican Republic, Ecuador, Ghana, Indonesia, India, Kazakhstan, Lao People's Democratic Republic, Peru, Senegal, Tunisia, Uruguay, in addition to the 11 reported in PIR 2019: Bahamas, Barbados, Chile, Cote d'Ivoire, Jamaica, Morocco, Myanmar, Pakistan, Rwanda, Saint Lucia and South Africa.

<p>Outcome 2.1: Countries commit to advancing energy efficiency of lighting, appliances, and equipment.</p>	<p><u>Indicator 1:</u> Number of countries that have committed to transform markets to energy-efficient products</p> <p>Note – A country will be counted by:</p> <ul style="list-style-type: none"> - Signing U4E Country Partnership Form - Official communication (letter, press release, etc) that they will take action on energy efficient lighting, appliances and/or equipment - Development of national/regional project (GEF, GCF, etc) with U4E on energy efficient lighting, appliances and/or equipment 	<p><u>Baseline 1:</u> 30</p> <p><i>Additional baseline information:</i></p> <ul style="list-style-type: none"> - 27 countries have committed to the U4E “Establishing the Foundations of a Partnership to Accelerate the Global Market Transformation for Efficient Appliance and Equipment” Initiative (30 expected by the end of the project). - Outreach campaign on U4E initiative and SEforALL platforms. <p>U4E resources, tools and assessments available on the U4E website</p>	<p><u>Target 1:</u></p> <ul style="list-style-type: none"> - Mid-term: 50 - End of project: 75 	<p>U4E continues to support the 80 countries that committed during previous periods. This and two new countries resume to the following:</p> <p>5 new countries GCF Readiness projects were commenced to implement full market transformation to energy efficient Air Conditioners and Commercial Refrigerators during the period: Namely Rwanda and The Gambia.</p> <p>1 region and 2 in-country projects have received support from the ClimateWorks Clean Cooling Collaborative, through the ASEAN Cool initiative (led by U4E), which includes in-country projects in Singapore and Malaysia and regional coordination activities to implement air conditioner MEPS.</p> <p>The African Union, covering 55 countries continued the joint 5 year U4E programme that started in 2020 -The African Energy Efficiency Programme, with funding support from the EU-AU joint Sustainable Energy Programme. The EU agreed to provide new TA support during the reporting period under it's 'Africa Europe Green Energy Initiative (AEGEI)', commencing with the formulation of a detailed African Union Energy Efficiency Strategy– (AfEES) in 2023.</p> <p>In LAC the U4E Partnership with OLADE has enabled the U4E Model Regulation to reach the 27 member countries through their official communication channels, and OLADE have supported detailed outreach to a further 2 member countries for new energy efficient appliance projects in Latin America under the GCF Readiness programme during the period [Ecuador and Colombia] in addition to the 4 countries from last reporting period.</p>	<p>S</p>
<p>Outcome 2.2:</p>	<p><u>Indicator 1:</u></p>	<p><u>Baseline 1:</u></p>	<p><u>Target 1:</u></p>		<p>HS</p>

Regional harmonization of standards	Number of regions with endorsed roadmaps, action plans, or strategies for harmonization of standards for at least 1 of the U4E focus products (lighting, air conditioners, refrigerators, electric motors or transformers)	0 <i>Additional baseline information:</i> Regional harmonization completed on energy efficient lighting in the Pacific, Central America, West Africa, and Southeast Asia. In addition, regional harmonization has been completed on air conditioners in Southeast Asia (ASEAN SHINE)	4	<p>4 regions – Africa (including East and Southern Africa), Southeast Asia and Latin America.</p> <p>Progress during this period:</p> <ul style="list-style-type: none"> • Southern Africa and Eastern Africa: The SADC countries have successfully voted in February 2023 during a first round on the MEPS and labels for room air conditioners and residential refrigerators to be implemented in the region. Beyond the project reporting, another round of voting confirmed in July 2023 the endorsed the policies for both products with a 100% positive votes from the region. The EAC region continued to lag behind due to a lack of funding. For this reason, U4E provided funding to EACREEE to enable the meetings that are necessary for the consultation and endorsement of the policies in the region. This allowed the organization of a regional meeting of EACREEE with the Uganda standards body and U4E which will be held on July 17th- 21st 2023. Thereafter, the member states will start the national consultation process. • Southeast Asia: U4E finalized the regional product registration database for the ASEAN region and successfully transferred the ownership to ACE on 15 December 2022. The regional database will be a regional gateway for tracking and sharing data on energy-efficient products. While currently it is confined to lighting, air conditioners and refrigerator products, there is a provision to expand the product portfolio in the future. The regional database was a 2-year effort to develop in collaboration with the ASEAN Centre for Energy and the International Institute for Energy Conservation, with several capacity building workshops and feedback sessions with member states. The database was also introduced to Singapore during two calls as they'll be one of the frontrunners in implementing it. During the course of the year additional calls with ASEAN countries are planned. In addition, a regional workshop on Promotion of Higher Efficient Air Conditioners – Regional Policy Roadmap was organized on July 7, 2022, with an overarching aim to review the technical recommendations on the regional policy roadmap and harmonizing the MEPS and testing standards of air conditioners and agree on the next steps for national implementation. 	
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PIR FY 2023 – Global U4E Project

Project objective and Outcomes	Indicator	Baseline level	End-of-project target	Summary by the EA of attainment of the indicator & target as of 30 June 2023	Progress rating ⁴
				specifications and Communication campaign proposal.	

3.2 Rating of progress implementation towards delivery of outputs

Outputs / Activities ¹⁵	Expected delivery date ¹⁶	Implementation status as of 30 June 2022 (%)	Implementation status as of 30 June 2023 (%)	Progress rating justification ¹⁷ , description of challenges faced and explanations for any delay	Progress rating ¹⁸
Output 1.1.1:¹⁹ Five training packages to support countries' implementation of the U4E Integrated Policy Approach.	March 2023	80%	100%		S
Activity 1.1.1.1: Planning of training packages to be developed based on needs of the countries.	September 2018	100%	100%	Completed during prior period.	S
Activity 1.1.1.2: Development of training packages to provide countries and regions with guidance on implementation of the integrated policy approach (Including annotated Slides Deck, syllabus, and agenda) for lighting, refrigerators, air conditioners, electric motors and distribution transformers	September 2022	85%	100%	The training packages were completed with MVE aspects, along with the national product registration prototype and the regional product registration system that were finalized during this reporting period.	S
Activity 1.1.1.3: Design of the 5 training models (e.g. graphics, visuals, etc.)	September 2022	90%	100%	During this period, U4E produced an updated design for the Country Savings Assessments showing the quantitative benefits of energy-efficient products and included in all U4E trainings.	S
Activity 1.1.1.4: Translation of the 5 training modules to Spanish and French	July 2022	90%	100%	During this period, U4E translated the Southern Africa regional MEPS for Air Conditioners and Refrigerators into French. In addition, the Green Public Procurement Technical Guidelines and Specifications for Energy Efficient Lighting was translated into Spanish, the Street Lighting Energy Calculator was translated into Chinese, French, Portuguese and Spanish and the commercial refrigerators guidelines into French and Spanish.	S

¹⁵ Outputs and activities as described in the project logframe or in any updated project revision.

¹⁶ As per latest workplan (revision 4)

¹⁷ As much as possible, describe in terms of immediate gains to target groups, e.g. access to project deliverables, participation in receiving services; gains in knowledge, etc.

¹⁸ To be provided by the UNEP Task Manager

¹⁹ Information on expected date of output completion and progress made is a requirement.

Outputs / Activities ¹⁵	Expected delivery date ¹⁶	Implementation status as of 30 June 2022 (%)	Implementation status as of 30 June 2023 (%)	Progress rating justification ¹⁷ , description of challenges faced and explanations for any delay	Progress rating ¹⁸
Activity 1.1.1.5: Outreach of the training packages at U4E Workshops and U4E Website	March 2023	65%	100%	U4E training resources are continually highlighted via various media streams, including social media (Twitter), the U4E newsletter and in presentations/speeches by the U4E team and UNEP/partner's senior management. Presentations and overall training material are available to download at U4E's website and shared with attendees once the event/training are finalized. The outreach continued also beyond the GEF global project completion (in April 2023), UNEP U4E's model regulation guidelines were featured in a special session in the Energy Efficiency in Appliances and Equipment stream of the IEA Energy Efficiency Policy Training Week. ²⁰	HS
Output 1.1.2: Tools and resources developed and/or updated to support market transition to energy-efficient lighting, appliances and equipment	March 2023	100%	100%	Completed during prior period.	HS
Activity 1.1.2.1: Background research and mapping of existing tools and guidance resources from other initiatives and partners	September 2018	100%	100%	Completed during prior period.	S
Activity 1.1.2.2: Validation of 5 existing tools by UN Environment and U4E partners	March 2019	100%	100%	Completed during prior period.	HS
Activity 1.1.2.3: Development of 5 new tools, including the following on lighting, air conditioners, refrigerators, model registration system, transformers and motors [4 additional tools planned in revised WP]	August 2019 [April 2022]	100%	100%	Overall: 30 tools completed as of June 2023. No additional publications were completed during this reporting period.	HS

²⁰ <https://united4efficiency.org/training-future-generations-of-energy-efficiency-professionals/>

Outputs / Activities ¹⁵	Expected delivery date ¹⁶	Implementation status as of 30 June 2022 (%)	Implementation status as of 30 June 2023 (%)	Progress rating justification ¹⁷ , description of challenges faced and explanations for any delay	Progress rating ¹⁸
<p>Activity 1.1.2.4: Development of 2 case studies (4-6 pages) for each of the 5 target products, including on lighting, air conditioners, refrigerators, electric motors, and transformers</p> <p>[3 additional planned]</p>	<p>June 2020</p> <p>[Nov 2022]</p>	100%	100%	<p>32 case studies have been completed.</p> <p>During this reporting period, the project completed three case studies and a factsheet:</p> <ul style="list-style-type: none"> Next Generation of Brighter 'Eco-Efficient' Lighting Delivers Big Savings: Pilot Demonstration Projects Successfully Completed in Pakistan National Product Testing Laboratories Drive Eco-Efficiency: Capacity Building Study Tour in Thailand Promoting and implementing energy-efficient, environmentally friendly lighting in Pakistan: Developing a framework for an innovative financial mechanism. Factsheet: Advancing Indonesia's Lighting Market to High Efficient Technologies <p>See the Annex II for a summary of the Status of the Case Studies.</p>	HS
<p>Activity 1.1.2.5: Update of modelling on Country Savings Assessment on 150 countries on the 5 target products, including on lighting, air conditioners, refrigerators, electric motors, and transformers</p> <p>[2 additional updates planned]</p>	<p>March 2019</p> <p>[Aug 2022]</p>	100%	100%	<p>During this period, U4E published new updated Country Savings Assessments in September 2022 and for the first time included details of the savings potential for commercial refrigeration. They also include information on other potential opportunities for savings from additional steps such as the use of occupancy and daylight sensors and dimming controls for lighting, control systems, sensors and thermal zoning for air conditioning, variable speed drives for motors and improved management practices for distribution transformers. For more information, see the Country Savings Assessments factsheet and explore assessments for 156 countries.</p> <p>In addition, U4E is currently working on Country Saving Assessments for heat pumps. The heat pump assessment will be published in Q4 2023.</p>	HS
Output 1.1.3: Remote support available to respond remotely to inquiries on U4E-relevant policies and products.	March 2023	90%	100%		HS
<p>Activity 1.1.3.1: Establish a U4E process for fielding inquiries, recording and FAQs.</p>	<p>August 2018</p>	100%	100%	<p>Completed during prior period. Inquiries have been answered in a structured and regular manner throughout the length of the project. The GEF Global Project ended, however similar activities are being supported by other funders, allowing U4E to continue providing remote support to countries.</p>	HS

Outputs / Activities ¹⁵	Expected delivery date ¹⁶	Implementation status as of 30 June 2022 (%)	Implementation status as of 30 June 2023 (%)	Progress rating justification ¹⁷ , description of challenges faced and explanations for any delay	Progress rating ¹⁸
Activity 1.1.3.2: Notify country officials of the opportunity to send inquiries to the virtual Centre of Excellence	March 2023	90%	100%	U4E continues to notify stakeholders of the availability of the Centre of Excellence, such as through social media (Twitter), the U4E Newsletter and the presentations/speeches.	HS
Activity 1.1.3.3: Respond to inquiries and track common needs and questions on the following products:	March 2023	90%	100%	U4E has continued responding to enquiries from countries. The inquiries and responses are being tracked in a tracking sheet.	S
Output 1.1.4: At least four regions have guidance to implement regional harmonized policies for energy efficient products	Oct 2022	90%	100%		S
Activity 1.1.4.1: Preparation, publication and dissemination of regional status reports showing the current use of focus products (2-3) by 4 regions, including status of policies and strategy for regional harmonization, including Southeast Asia (refrigeration and transformers) Southern Africa (Refrigerators and Transformers), Central Asia (Motors and Transformers), Latin America (sub-region to be defined)	Oct 2022	90%	100%	<p>Progress during this period:</p> <ul style="list-style-type: none"> Latin America: The Regional Status Report on Energy-Efficient Appliances and Equipment in Latin America report has been completed and circulated to the regional body for inputs. Progress on the focus products of air conditioners and refrigerators has been successful during the period. Presentation of the regional status was made during the OLADE Latin America energy week in December 2022. Adoption of new commercial refrigeration MEPS by Brazil is expected for the basis of regional adoption of the same levels, meeting U4E model international regulation guidelines and following the two years of U4E implementation work supported by the GCF in the region. <p>Past reports completed during previous reporting periods:</p> <ul style="list-style-type: none"> Central Asia Southern Africa - U4E developed a Technical Brief on ‘Delivering Efficient Power Supply Networks for All in the Southern Africa Region’, in support of the Global Climate & SDG Synergy Conference (Tokyo, 20th-21st July 2022). Southeast Asia – through the recently started ASEAN Cool Initiative market assessments on refrigerators and air conditioners are planned to be conducted in Malaysia and Singapore during Q3-4 2023. 	S
Output 1.2.1: Multi-day training for policy makers in 3 regions for at least 25 countries to introduce the U4E Integrated Policy Approach	March 2023	80%	100%		S
Activity 1.2.1.1: Initial consultations with countries to understand interest in receiving U4E support	September 2018	100%	100%	Completed during prior period.	S

Outputs / Activities ¹⁵	Expected delivery date ¹⁶	Implementation status as of 30 June 2022 (%)	Implementation status as of 30 June 2023 (%)	Progress rating justification ¹⁷ , description of challenges faced and explanations for any delay	Progress rating ¹⁸
Activity 1.2.1.2: Planning of training to policy makers from energy-efficiency policy experts on in-depth steps to developing the integrated policy approach (MEPS, supporting policies, MVE, Environmental Sound Management, and financial mechanisms).	April 2020	100%	100%	Completed during prior period.	S
Activity 1.2.1.3: Conduct regional training for 147 developing countries on energy-efficient and low-GWP cooling products (2x2 day over 2 years)	December 2019	100%	100%	<p>Completed during prior period.</p> <p>The regional trainings to 147 countries were completed in previous reporting periods with funding support from the Kigali Cooling Efficiency Program (K-CEP).</p> <p>U4E continues to follow-up with attendees that participated in the training, such as inviting them to in-person and virtual events/workshops (e.g. regional harmonization efforts referenced in Activity 1.1.4.1).</p>	HS

Outputs / Activities ¹⁵	Expected delivery date ¹⁶	Implementation status as of 30 June 2022 (%)	Implementation status as of 30 June 2023 (%)	Progress rating justification ¹⁷ , description of challenges faced and explanations for any delay	Progress rating ¹⁸
Activity 1.2.1.4: Conduct training to policy makers and technical professionals on in-depth steps to developing the U4E integrated policy approach (MEPS, supporting policies, MVE, Environmental Sound Management, and financial mechanisms), including in the following countries/regions (25 countries total) for 3-4 days	October 2022	75%	100%	<p>During the reporting period, U4E advanced with technical training to 15 country policy makers from 10 LAC countries on the Integrated policy approach components at a 2-day session 'Energy Efficient Regional Workshop' in the framework of OLADE's Latin America Energy Week, which took place in Panama on the 13th and 14th December 2022. The event focused on the following topics:</p> <ul style="list-style-type: none"> • An update on the uptake of policies, regulations and programmes in the region for the adoption of energy efficient and environmentally friendly products • Presentation of the tools that U4E makes available to countries to facilitate the adoption of ambitious energy efficiency policies, such as the updated country savings assessments • Presentation of the best international practices in support policies, such as monitoring, verification and compliance, sustainable public procurement and product registration systems • Experiences and lessons learned from the implementation of integrated policy approach in energy efficiency policy projects <p>In addition, on 25-27th January 2023, a study tour of Brazil stakeholders (with 11 people, of whom 2 women) was organized to the Re/genT testing laboratory in the Netherlands. The tour aimed to increase the familiarity of testing laboratory personnel, local manufacturers, national laboratories and key public institutions, with the testing standards that will be used as reference for the upcoming new refrigerator and freezer energy efficiency policies in Brazil. Between 19 and 20th June 2023, U4E also participated at the technical lighting workshop "<i>Transitioning to Mercury-Free Lighting</i>" which was jointly coordinated with the UNEP's Global Mercury Partnership and the Clean Lighting Coalition. Also, U4E participated on 9th March from the regional workshop on Energy Efficiency coordinated by the Circular Carbon Economy Regional Collaboration (CCERC) for Middle East countries.</p>	HS
Activity 1.2.1.5: Follow-up support (in-person or over the phone) with country officials on progress to implementing the action plan at the national level.	March 2023	65%	100%	Regular follow-up calls occur with the countries to see their progress and if there any questions. U4E also has regular calls with regional centres to increase the likelihood that recommendations are actually implemented. Examples of such support during the reported period have been Uruguay for the development of MEPS and labelling recommendations for the update of current regulations.	HS

Outputs / Activities ¹⁵	Expected delivery date ¹⁶	Implementation status as of 30 June 2022 (%)	Implementation status as of 30 June 2023 (%)	Progress rating justification ¹⁷ , description of challenges faced and explanations for any delay	Progress rating ¹⁸
Output 1.2.2: Multi-day technical train-the-trainer for practitioners on how to apply a relevant element of the U4E Integrated Policy Approach in their field/sector.	February 2023	75%	100%		HS
Activity 1.2.2.1: Initial consultations with countries to understand interest in receiving U4E support	December 2018	100%	100%	Completed during previous periods.	HS
Activity 1.2.2.2: Planning of technical training for particular stakeholders to support the enforcement/development of energy efficiency policies, projects and strategies.	December 2022	80%	100%	<p>Completed during previous periods.</p> <p>To deliver the training on product registration systems in the ASEAN region (see activity 1.2.2.3) a manual was developed on the regional product registration database. As a follow up to the regional training also a training with Singapore was held. Additional trainings with other ASEAN countries are planned beyond the end of the project in 2023, the dates are to be determined.</p> <p>To enhance the fundamentals of lighting testing standards and procedures amongst larger audience from testing laboratories in Indonesia two fundamental training sessions were planned and delivered during early November 2022. In addition, a technical study tour for key Pakistan, Tunisia and Indonesia stakeholders involved in LED lighting MEPS implementation and MVE activities were organised and delivered in August, October and November 2022 respectively, liaising with the Electrical and Electronics Institute (EEI) in Bangkok, Thailand and the French National Lighting laboratory.</p> <p>Finally, a new Technical Study Tour on Commercial Refrigerators for Brazilian stakeholders was organised and delivered in January 2023 at Re Gent Laboratory in the Netherlands.</p>	S

<p>Activity 1.2.2.3: Conduct of technical training for particular stakeholders to support the enforcement/development of energy efficiency policies, projects and strategies, including in the following regions/countries (25 countries total) and products for 3-4 days.</p>	<p>December 2022</p>	<p>70%</p>	<p>100%</p>	<p>Multiple dedicated technical training sessions were delivered throughout this fiscal year such as:</p> <ul style="list-style-type: none"> • Awareness raising and dialog workshop on Sustainable Public Procurement in Sudan. July 2022 • Capacity Building on MEPS and Labels, which took place 26th October (Honduras) and 3rd November (El Salvador) 2022 • Capacity Building on MVE mechanisms. The training was delivered in both virtual and in person sessions, which took place the 20th, 23rd and 26th September (Honduras), the 29th September and 15th November (El Salvador) and 8th and 9th December (Cuba). • Capacity Building on MVE and Environmental Sound Management 23 and 24th August (Bolivia) • MEPS and Labels technical workshop, 18th October (Tunisia). • The Indonesian Ministerial Decree 135.K/EK.07/DJE/2022 for LED lighting MEPS was officially approved by the Minister of Mineral and Energy Resources on 5 July 2022 and to enhance the monitoring, verification and enforcement activities and build capacity amongst key stakeholders from government, industry and testing laboratories, U4E conducted two virtual training sessions on A) Fundamentals in Photometry & Colorimetry: Quantities, parameters and instrumentation for MEPS assessment on 3 November 2022 and B) Introduction to Lighting Standards and Uncertainties in Measurement- 15 November 2022. Furthermore, key government stakeholders, policy makers and testing laboratories personnel attended a technical study tour during 22-25 November 2022 at the Electrical and Electronics Institute (EEI) in Bangkok, Thailand to primarily understand various test methods, in-house calibration techniques, in-house operational maintenance and uncertainty measurements amongst other topics. • In December 2022, a training workshop was held for ACE representatives on the use of the regional product registration database, developed by U4E. In addition, in November and December two meetings with Sudan were held to explain the U4E product registration prototype. On 8-9 December 2022, a specialist technical workshop was held to provide training for laboratory staff and technical energy efficient officials in Cuba. The workshop aimed to facilitate implementation of improvements to the existing MVE aspects of national efficiency regulations for air conditioners. • Virtual capacity building on MVE aspects (Conformity Assessment, Product registration system, etc.) for INMETRO delegates in Brazil, which took place on 13th, 14th and 24th February 2023. 	<p>S</p>
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Outputs / Activities ¹⁵	Expected delivery date ¹⁶	Implementation status as of 30 June 2022 (%)	Implementation status as of 30 June 2023 (%)	Progress rating justification ¹⁷ , description of challenges faced and explanations for any delay	Progress rating ¹⁸
				<ul style="list-style-type: none"> ESM technical training on Extended Producers Responsibility, which took place in Tunis on 30th May 2023. Sustainable Public Procurement training and presentation of recommendations, which took place in Tunis on 1st June 2023. 	
Activity 1.2.2.4: Conduct individual conference calls with each representative to help support with any issues, to track progress and to understand additional needs/barriers.	February 2023	40%	100%	<p>Technical assistance was provided on specific aspects upon request of countries over phone calls and emails such as:</p> <ul style="list-style-type: none"> Lighting and Refrigerators MEPS in Honduras and Cuba. Lighting MEPS and Labels in Uruguay and Brazil. Recommendations for MEPS and Labels for lighting, cooling appliances and Energy Efficiency Building codes for Libya. Revision and recommendations on technical specifications for procurement of Photometry equipment in Tunisia and Bolivia. Recommendations on the development and implementation of Sustainable Procurement best practices in Sudan and Georgia. Implementation of a Product Registration System for Sudan and Rwanda. 	S
Output 2.1.1: Completed outreach to 75 countries and/or regions.	March 2023	70%	100%		HS
Activity 2.1.1.1: Review and update the communication strategy of the SEforALL Global Project (#5831) for the current phase of United for Efficiency.	November 2021	75%	100%	Ongoing communication activities through the U4E website, social media and quarterly newsletter and continuing dialogue with the UNEP Economy Division and Energy and Climate Branch Communications Officer on increasing visibility of U4E and its tools, maximizing opportunities for inclusion of U4E messages and project outcomes into UNEP communications and integrating energy efficiency into the broader energy transformation discussion. Continuation of work with U4E partners to leverage the reach and context of U4E messages through their communications channels, in particular the ICA (International Copper Association) who has provided significant in-kind support.	HS
Activity 2.1.1.2: Review and update the partnership strategy of the SEforALL Global Project (#5831) for the current phase of United for Efficiency.	November 2018	100%	100%	Completed in prior period.	S

Outputs / Activities ¹⁵	Expected delivery date ¹⁶	Implementation status as of 30 June 2022 (%)	Implementation status as of 30 June 2023 (%)	Progress rating justification ¹⁷ , description of challenges faced and explanations for any delay	Progress rating ¹⁸
<p>Activity 2.1.1.3: Holding of at least six (6) events alongside major environmental and energy events to disseminate resources created under the SEforALL Global Project (#5831) including the Country Savings Assessments and the Policy Guidebooks.</p>	<p>February 2023</p>	<p>80%</p>	<p>100%</p>	<p>To date U4E has convened 16 side events.</p> <p>U4E held 3 events during this reporting period:</p> <ul style="list-style-type: none"> • Montreal Protocol's Meeting of Parties (MOP) side event on "Economic Growth Through Policy Harmonisation", 31st October 2022 • Regional Energy Efficiency Seminar alongside Latin America Energy Week, 13-14th December 2022 in Panama City, Panama • Co-hosting of Lighting technical event "Transitioning to Mercury-Free Lighting", 19 and 20th June 2023 in Geneva, Switzerland. <p>See annex III for a full list of events.</p>	<p>S</p>

Outputs / Activities ¹⁵	Expected delivery date ¹⁶	Implementation status as of 30 June 2022 (%)	Implementation status as of 30 June 2023 (%)	Progress rating justification ¹⁷ , description of challenges faced and explanations for any delay	Progress rating ¹⁸
<p>Activity 2.1.1.4: Continuous management of the United for Efficiency website and social media to engage with target audiences and to ensure the latest news and resources (from United for Efficiency and its partners) are disseminated to country partners and other partners.</p>	<p>March 2023</p>	<p>75%</p>	<p>100%</p>	<p>The U4E website continued to be well used during the reporting period and was updated with news of U4E projects and resources/tools as they were finalized, including 65 news items and 18 new or updated publications (including several translations into French and Spanish), along with 44 presentations and individual project documents. During this reporting period, just over 15,400 users (approximately 45% female/55% male) visited the site resulting in approximately 70,500 page views. Foundation work continues on a search engine optimization exercise to encourage increased relevant traffic to the website and a Twitter exercise to actively recruit additional social media followers is being investigated.</p> <p>In parallel, an average of 13 posts per month were tweeted to the U4E Twitter account, with approximately 2,710 associated tweet impressions per month. At the beginning of July 2023, the account had 1,315 followers, an increase of 7.4% since the end of June 2022. In parallel with COP27, U4E ran a social media campaign sharing information on the global energy consumption of U4E's five key product groups, leading to a peak in November 2022 of 6,453 tweet impressions. See Annex for Activity 2.1.1.4 for an overview of the social media campaign.</p> <p>The quarterly U4E newsletter continued during the reporting period, with issues published in July 2022, October 2022, January 2023 and May 2023. An organic increase in subscriptions in this period saw a 5.5% increase in the number of subscribers, bringing the total to 1,002. An average open rate of 30%, with an average click through rate of 3.5%, was achieved for the four issues. The newsletter is also available as a pdf on the website, and it is promoted via news articles and twitter posts and is circulated to relevant UNEP distribution lists.</p>	<p>HS</p>
<p>Output 2.2.2: At least 4 regional programs/projects for policy framework development on energy-efficient products designed.</p>	<p>March 2023</p>	<p>70%</p>	<p>100%</p>		<p>HS</p>

Outputs / Activities ¹⁵	Expected delivery date ¹⁶	Implementation status as of 30 June 2022 (%)	Implementation status as of 30 June 2023 (%)	Progress rating justification ¹⁷ , description of challenges faced and explanations for any delay	Progress rating ¹⁸
Activity 2.2.2.1: Planning for four regional events to launch the Regional Status Report and the harmonization process.	December 2021	100%	100%	U4E has been continuously advancing the harmonization process in several regions: A regional meeting is planned in Q4 2023 in the ASEAN region to share the progress of Malaysia and Singapore on refrigerator and air conditioner MEPS and labels – and thus to encourage action in other ASEAN countries. In the EAC region a regional harmonization consultation workshop is planned to give member states the opportunity to discuss on the proposed regional MEPS and labels for air conditioners and refrigerators.	S

<p>Activity 2.2.2.2: Hosting of regional event on harmonization of energy-efficient products in the following regions: Southern Africa, Southeast Asia, Latin America, Central Asia</p>	<p>November 2022</p>	<p>70%</p>	<p>100%</p>	<p>Southern Africa: On 5th October 2022, U4E held a meeting together with the Southern African Power Pool (SAPP) to present the draft SADC MEPS on air conditioners and refrigerators to the participants. This meeting was held along the SAPP Integrated Demand Management Working Group Meeting and reminded the participants also of the Total Cost of Ownership (TCO) tool that was developed by U4E.</p> <p>On 29-30th March 2023 U4E participated in the EELA stakeholder forum with a presentation on the current harmonization efforts in the SADC region on air conditioners and refrigerators.</p> <p>Central Asia: U4E supported the project design planning and preparation commencement of a new IKI funded 5-year energy efficiency project with UNECE and UNEP Buildings colleagues involving 7 Central Asian countries; Armenia, Georgia, Kyrgyzstan, Republic of Moldova, Tajikistan, Ukraine and Uzbekistan, following the U4E harmonisation approach. The project is managed by UNECE and will commence in 2023. UNECE hosted the commencement event and preparation with funders and countries in S2 2022 with U4E support.</p> <p>Southeast Asia: On 13th December 2022 U4E participated in the MEPS Cross Country Workshop organised by Carbon Trust and the International Copper Association (ICA) to present on policy options and resources for energy-efficient motors.</p> <p>In July 2022 a regional workshop on the promotion of higher efficient air conditioners in the ASEAN region was hosted by U4E. The workshop was held in the context of the U4E CSPF project and discussed technical recommendations for harmonizing of energy-efficiency standards and updating the regional policy roadmap for room air conditioners in the ASEAN. U4E participated also in the CSPF Closing Meeting in September 2022 to present on the recommendations of the CSPF project as well as on other related topics (model regulation guidelines and product registration database).</p> <p>Latin America: U4E participated in Latin American Workshops with the Clean Energy Ministerial' s Super Efficient Appliance Deployment (SEAD) Initiative, which occurred on 27 July 2022 and 29 November 2022, as well as in the Energy Week which took place between 12 and 16th December 2022, with a participation on the Energy Efficiency panel discussion and a 2 day side event. A wrap up project meeting of two days for Brazil was held on 14 and 15th June along with a virtual wrap up project meeting for the Central America project, which convened all main national stakeholders for the presentation of material and recommendations developed throughout the project, conclusions and next steps.</p>	<p>HS</p>
<p>Activity 2.2.2.3: Follow-up consultations with regional bodies</p>	<p>March 2023</p>	<p>70%</p>	<p>100%</p>	<p>Regular follow-up occurs with individual countries and regional bodies (SACREEE, EACREEE, ACE, OLADE). With co-financing from KCEP</p>	<p>HS</p>

Outputs / Activities ¹⁵	Expected delivery date ¹⁶	Implementation status as of 30 June 2022 (%)	Implementation status as of 30 June 2023 (%)	Progress rating justification ¹⁷ , description of challenges faced and explanations for any delay	Progress rating ¹⁸
and/or national governments to track progress and lessons learned of the regional harmonization				and Sweden, UK government, U4E has formed agreements to place individual experts in SACREEE, EACREEE, ECREEE, AFREC, and ACE.	

3.3. Risk Rating

Table A. Risk-log

Risk	Risk affecting:	Risk Rating							Variation respect to last rating	
	Outcome / outputs	CEO ED	PIR 1	PIR 2	MTR	PIR 3	PIR 4	PIR 5	Δ	Justification
Lack of engagement of regional and/or national manufacturers of appliances, equipment, and lighting	Overall	M	L	L	-	L	L	L	=	
Policies might be recommended but not implemented	Overall	M	L	M	-	M	M	M	=	
Weak government support, which leads to non-adoption or ineffective enforcement or policies and regulations.	Overall	M	L	L	-	L	L	L	=	
Low-level participation from the private sector actors including manufacturers and distributors.	Overall	L	-	-	-	L	L	L	=	
Delayed implementation of activities that are baselines for specific incremental activities of the proposed program	Overall	L	-	-	-	L	L	L	=	
Hazardous substances (mercury, PCBs, refrigerants, etc) in existing and/or new products are not properly handled during production, lifetime and end of life.	Overall	M	M	M	-	L	L	L	=	The project team is addressing this risk and thus, it remains Low. A 2-page brief on the interlinkages between energy-efficiency and the other environmental agreements and issues, highlighting the importance of working on both at the same time was developed in March 2023.
In some cases the project may result in increased waste production (e.g. giveaways/rebates of energy-efficient products).		-	M	M	-	L	L	L	=	
Energy-efficient refrigerators, room air conditioners, electric motors, transformers, and lighting technologies have a higher initial cost		-	L	L	-	L	L	L	=	
Difficulties to closely work with some child projects and see progress on transition to energy efficiency in some countries.		-	-	M	-	M	L	L	=	The U4E team completed the mitigation measures agreed in the previous reporting period Please see annex IV for additional information on U4E's interaction with the national GEF projects.

Some countries supported by U4E are still facing strong gender inequalities, while this does not put in risk the project objective, U4E needs to take this into consideration.		-	-	L		L	L	L	=	
U4E is already taking sensitive gender actions and promoting hiring of women and gender specialists in national projects, but gender mainstreaming can be further improved, for instance on publications or when engaging with partners		-	-	L		M	L	L	=	
U4E reoccurring activities (technical support to countries, releasing/updating publications and regional harmonization) might fail to be sustained after this GEF global project ends.						M	M	M	=	
Consolidated project risk		n.a	L	L	L	L	L	L	=	

Table B. Outstanding medium & high risks

Risk	Actions decided during the previous reporting instance (PIR _{t-1} , MTR, etc.)	Actions effectively undertaken this reporting period	Additional mitigation measures for the next periods		
			What	When	By whom
Policies might be recommended but not implemented	U4E Convene Call with National Projects to update on their respective status, progress and challenges.	A call was held with the child projects on 1 February 2023. During this call updates on the status of all national energy efficiency projects were shared and discussed. In addition, also high-level updates from U4E were presented.	No additional measures are needed since the project ended in April. However, U4E will continue to operate after project closure and aim to provide technical support to countries pending funding availability. The U4E team will include the 9 program countries in its quarterly e-newsletter to keep the projects updated on additional U4E tools/resources and share the program countries relevant news and achievements.	Three times by June 2024	U4E team
U4E reoccurring activities (technical support to countries, releasing/updating publications)	Submit exit strategy and measures to mitigate risks to sustainability	An exit strategy and measures were shared in December 2022 with a document outlining the	No additional measures needed.	N/A	N/A

and regional harmonization) might fail to be sustained after this GEF global project ends.		future funding for U4E. As noted in the document, U4E secured follow-up funding to ensure continuity of support to countries and maintenance/expansion of U4E tools.			
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High Risk (H): There is a probability of greater than 75% that **assumptions** may fail to hold or materialize, and/or the project may face high risks.
Significant Risk (S): There is a probability of between 51% and 75% that **assumptions** may fail to hold and/or the project may face substantial risks.
Medium Risk (M): There is a probability of between 26% and 50% that **assumptions** may fail to hold or materialize, and/or the project may face only modest risks.
Low Risk (L): There is a probability of up to 25% that **assumptions** may fail to hold or materialize, and/or the project may face only modest risks.

Project Minor Amendments

Minor amendments are changes to the project design or implementation that do not have significant impact on the project objectives or scope, or an increase of the GEF project financing up to 5% as described in Annex 9 of the Project and Program Cycle Policy Guidelines.

Please tick each category for which a change occurred in the fiscal year of reporting and provide a description of the change that occurred in the textbox. You may attach supporting document as appropriate.

- ☐ Results framework
- ☐ Components and cost
- ☐ Institutional and implementation arrangements
- ☐ Financial management
- ☐ Implementation schedule
- ☐ Executing Entity
- ☐ Executing Entity Category
- ☐ Minor project objective change
- ☐ Safeguards
- ☐ Risk analysis
- ☐ Increase of GEF project financing up to 5%
- ☐ Co-financing
- ☐ Location of project activity

☐ Other

[\[Annex document linked to reported minor amendment\]](#)

Minor amendments	<i>[Provide a description of the change that occurred in the fiscal year of reporting]</i>
	N/A

GEO Location Information:

The Location Name, Latitude and Longitude are required fields insofar as an Agency chooses to enter a project location under the set format. The Geo Name ID is required in instances where the location is not exact, such as in the case of a city, as opposed to the exact site of a physical infrastructure. The Location & Activity Description fields are optional. Project longitude and latitude must follow the Decimal Degrees WGS84 format and Agencies are encouraged to use at least four decimal points for greater accuracy. Users may add as many locations as appropriate. Web mapping applications such as [OpenStreetMap](#) or [GeoNames](#) use this format. Consider using a conversion tool as needed, such as: <https://coordinates-converter.com> Please see the Geocoding User Guide by clicking [here](#)

Location Name Required field	Latitude Required field	Longitude Required field	Geo Name ID Required field <u>if</u> the location is not an exact site	Location Description Optional text field	Activity Description Optional text field
Chile	-35.675147	-71.542969	3895114		
Costa Rica	10.273563	-84.07391	3624060		
India	22.351115	78.667743	1269750		
Indonesia	-2.483383	117.890285	1643084		
Kazakhstan	47.228609	65.20932	1522867		
Myanmar	17.17505	95.999965	1327865		
South Africa	-28.816624	24.991639	953987		
Sudan	12.862807	30.217636	366755		
Tunisia	33.843941	9.400138	2464461		
Türkiye	38.963745	35.243322	298795		

Please provide any further geo-referenced information and map where the project interventions is taking place as appropriate. *

[Please provide any further geo-referenced information and map where the project interventions is taking place as appropriate]

Annex I

Status of Activity 1.1.2.3: Development of 5 new tools (1 additional planned), including the following on lighting, air conditioners, refrigerators, transformers and motors

As of 30 June 2023

Overall status: 30

Count	Tool	Status	Language
Model Regulation Guidelines			
1	Model Regulation Guidelines for General Service Lamps and update	Completed in May 2018 and update in February 2021	English, Spanish
2	Model Regulation Guidelines for Electric Motors	Completed in June 2019	English, Spanish
3	Model Regulation Guidelines Distribution Transformers	Completed in June 2019	English, Spanish
4	Model Procurement Specification – Distribution Transformers	Completed in June 2019	English
5	Model Regulation Guidelines for Residential Refrigerators	Completed in September 2019	English, Chinese, French, Portuguese, Spanish
6	Model Regulation Guidelines for Room Air Conditioners	Completed in September 2019	English, Chinese, French, Portuguese, Spanish
7	Model Regulation Guidelines for Linear Lamps and Supporting Information	Completed February 2021.	English

8	Model Regulation Guidelines for Commercial Refrigeration Equipment	Completed November 2021	English, French, Spanish
Product Registration Systems			
9	What is a Product Registration System and Why Use one?	Completed in 2019	English
10	Planning to Build Foundational Considerations	Completed in 2019	English
11	Planning to Build – Detailed Considerations	Completed in 2019	English
12	Implementing a Product Registration System	Completed in 2019	English
13	Product Registration System Specification for Software Developers	Completed in 2019	English
14	Product Registration Prototype for Air Conditioners	Completed in 2019	English
15	Product Registration Prototype for Refrigerators	Completed in 2019	English
16	Product Registration Prototype for Lighting	Completed in 2019	English
17	Prototype Product Registration System Software	Completed in May 2022	English
Sustainable Public Procurement			
18	Green Public Procurement Technical Guidelines and Specifications for Energy-efficient Refrigeration Appliances	Completed in June 2021	English
19	Sustainable Public Procurement Toolkit	Completed in June 2021	English
20	Sustainable Public Procurement Excel Spreadsheet Tool (2)	Completed in June 2021	English
21	Street Lighting Energy Efficiency Calculator	Completed in June 2021	English, Spanish
22	Street Lighting Energy Calculator	Completed in September 2021	English
23	Green Public Procurement Technical Guidelines and Specifications for Energy-Efficient Air Conditioners	Completed in November 2021	English
24	Green Public Procurement Technical Guidelines and Specifications for Energy Efficient Lighting	Completed in March 2022	English, Spanish
Other			
25	Ensuring Compliance with MEPS and Energy Labels	Completed in 2020 and posted to the U4E Website in January 2021.	English
26	Energy Labelling Guidance for Lighting and Appliances	Completed in 2020 and posted to the U4E Website in January 2021.	English

27	Protocols to Conduct Market and Impact Assessments	Completed in 2020 and posted to the U4E Website in January 2021.	English
28	Energy Efficiency Literacy for Air-Conditioning and Refrigeration Systems	Completed in 2020	English
29	Excel Tool on Total Cost of Ownership when Purchasing Distribution Transformers	Completed in January 2022	English
30	HS Codes and Statistical Codes Monitoring Reporting and Verification Guidelines for Energy-Efficient Lighting	Completed in May 2022 [Scheduled for publication July 2023]	English

Annex II Status of Activity 1.1.2.4: Development of 2 case studies (4-6 pages) for each of the 5 target products, including on lighting, air conditioners, refrigerators, electric motors, and transformers

As of 30 June 2023

Overall status: Completed 29 Case Studies, including 3 in the current reporting period.

Count	Case Study Title
National Project Case Studies	
1	Ivory Coast – Lighting
2	Morocco – Lighting
3	Nigeria – Off-grid Lighting
4	Pakistan – Lighting
5	Tunisia – Lighting
6	Kazakhstan – Lighting
7	Kazakhstan – Transformers, Motors and Refrigerators
8	Chile – Lighting
9	Chile – Refrigerators
10	Costa Rica – Refrigerator, Air Conditioner and Lighting
11	Panama – Street Lighting
12	Peru – Lighting
13	Bolivia – Lighting
14	Nigeria - Cooling
15	Sudan – Lighting and Cooling
16	Brazil – Commercial Refrigeration
17	Cuba, El Salvador and Honduras – Air Conditioners
18	Pakistan (MEPS implementation focus)
19	Pakistan (finance mechanism focus)
20	Pakistan (study tour focus)
21	Pakistan (pilot demonstration project focus)
22	Detailed case study for ASEAN SHINE regional harmonization activities on air conditioners.
23	Detailed case study for Kazakhstan’s Study Tour to China on Transformers.
24	The Manual of Financing Mechanisms and Business Model for Energy Efficiency incorporates more than 10 short case studies on lighting, refrigerators, air conditioners, electric motors and distribution transformers.
25	India - Energy Efficient Motor Case Study (together with Energy Efficiency Service Limited)
26	Detailed Case Study on Ghana – Electronic Waste Management
27	Detailed Case Study on Ghana – Ecofridges Case Study
28	African Centre of Excellence – Sustainable Cooling and the Cold Chain
29	Regional Harmonization on Energy-Efficient Air Conditioners and Refrigerators in East and Southern Africa
30	Next Generation of Brighter ‘Eco-Efficient’ Lighting Delivers Big Savings: Pilot Demonstration Projects Successfully Completed in Pakistan
31	National Product Testing Laboratories Drive Eco-Efficiency: Capacity Building Study Tour in Thailand
32	Advancing Indonesia’s Lighting Market to High Efficient Technologies

Annex III Activity 2.1.1.3: Holding of at least six (6) events alongside major environmental and energy events to disseminate resources created under the SEforALL Global Project (#5831) including the Country Savings Assessments and the Policy Guidebooks.

As of 30 June 2023

Overall status: 16 side events.

Count	Event
Previous Periods	
1	At COP24, U4E hosted <i>Cooling-off Without Cooking the Planet: Showcasing Fast Action on the Kigali Amendment to the Montreal Protocol</i> on 12 December 2018.
2	At International Energy Agency's (IEA) <i>Global Conference on Energy Efficiency</i> , U4E hosted <i>Accelerating the Switch to Energy-Efficient and Climate-Friendly Cooling</i> on 25 June 2019. See agenda in Annex.
3	U4E also supported the <i>IEA Training Week on Energy Efficiency in Emerging Economies</i> on 1-4 April 2019 in Bangkok, Thailand.
4	At COP25 in Madrid, U4E supported the symposium at the <i>Climate and Governance Day on Strengthening legal framework for Sustainable Public Procurement</i> , held on 6 th December 2019 with the support of the UNEP SPP Team.
5	At the <i>Latin America Energy Week</i> , delivery of the "Latin America Regional Workshop on Energy Efficiency" on 12-14 November 2019 in Lima, Peru:
6	U4E also supported the <i>IEA Training Week on Energy Efficiency in Emerging Economies</i> in S2 2019 in South Africa.
7	<i>Championing Product Efficiency in Support of Nationally Determined Contributions and Net Zero</i> on 10 December 2020 (virtual) together with The Climate Group, UNEP, IEA, KCEP and the UK Department for Business, Energy & Industrial Strategy, the Cool Coalition and the COP26 High Level Champions.
8	Regional Compact for Higher Performance 'Eco-Efficient' Lighting, Appliances and Equipment for All at the Ministerial Thematic Forums, 23 June 2021.
9	Asia Pacific Climate Week: Sustainable Energy Track, 7 July 2021
10	Africa Climate Week: Sustainable Energy Track, 28 September 2021
11	COP26: Product Efficiency Call to Action, 26 November 2021
12	Latin America Energy Week, 17 and 24 th November 2021
13	Pathways to Accelerate Sustainable Cooling and Cold-Chain : ACES Open House, 19 May 2022, Kigali Rwanda
Current Period	
14	Montreal Protocol's Meeting of Parties (MOP) side event on " Economic Growth Through Policy Harmonisation ", 31 October 2022
15	Regional Energy Efficiency Seminar alongside Latin America Energy Week, 13-14 December 2022 in Panama City, Panama
16	Co-hosting of Lighting technical event "Transitioning to Mercury-Free Lighting", 19 and 20 June 2023 in Geneva, Switzerland

Annex IV to Section 3.3: Status update for Child Projects under Program 9083

As of 30 June 2023

Country (GEF Project ID)	Product Type(s)	Status Update as of June 2023	Pending activities/deliverable
Chile (9496)	Refrigerators	U4E Involvement: U4E has successfully finalized all its activities and deliverables in this project. The last activity to be implemented was a national refrigerator replacement programme, which was successfully executed by Fundación Chile (see www.refriclaje.cl). A video of the replacement programme is available in this link .	<ul style="list-style-type: none"> Project was finalized in August 2021.
Costa Rica (9283)	Appliances and Lighting (Public procurement and loan fund)	U4E Involvement: U4E has already delivered all products within component 1, 2 and 4 of the project: (i) tracking instrument for the quantification of benefits from public procurement of energy efficient appliances, (ii) practical guide for the use of the tracking instrument, (iii) training to procurement and environmental management officials on energy efficient products. (iv) diagnose the current processing capacity of authorized waste handlers, (v) methodology developed to establish recovery targets for replaced conventional lighting, air conditioning and refrigeration appliances, and (vi) technical capacities strengthened for national stakeholders on sound environmental management. In component 3 -- establishment of a revolving loan fund -- the project faced several barriers, as the national regulation did not allow for public institutions getting into debt for the deployment of replacement programmes. After several consultations with the Ministry of Finance, the Ministry of Environment and Energy (MINAE) decided not to implement component 3, and use the funds available for replacement projects on a number of public buildings. This was approved by all members of the project steering committee and progressed via year project extension to complete the implementation.	<ul style="list-style-type: none"> Project extension of one year to 2024 has been approved, with additional U4E activities to be delivered inclusive of the implementation of pilot. Implement replacement lighting and cooling appliance projects in representative on several public buildings in Costa Rica.
Indonesia/ADLIGHT (9493)	Lighting	U4E Involvement: U4E and ADLIGHT Project Management Unit have a meeting every other week to discuss upcoming activities and challenges. U4E has also partook in project board meetings held on 18 November 2022. U4E has contributed through technical recommendations and dialogues with the	The project has been approved a 12-month extension so as to achieve the basis for the required emission reduction targets;

		<p>government stakeholders in establishing the Indonesian MEPS for LED lighting at 80 lm/W in line with the ASEAN regional level. Ministerial Decree 35.K/EK.07/DJE/2022 was officially approved by the Minister of Mineral and Energy Resources on 5 July 2022 which specifies the scope of the MEPS and energy labels, thereby providing the legal basis for their implementation by July 2023 to allow an adjustment period for the manufacturers, importers and suppliers to comply with the new regulations. In this backdrop, below delineated are some of the recent capacity building trainings provided by U4E to stakeholders from government, industry, testing laboratories and research and development wings include:</p> <ul style="list-style-type: none"> • Fundamentals in Photometry & Colorimetry: Quantities, parameters and instrumentation for MEPS assessment on 3 November 2022 • Introduction to Lighting Standards and Uncertainties in Measurement- 15 November 2022 • Technical study tour during 22-25 November 2022 to key Indonesian stakeholders involved in monitoring, verification and enforcement activities at Electrical and Electronics Institute (EEI) in Bangkok, Thailand <p>Challenges:</p> <ul style="list-style-type: none"> • The ADLIGHT National project director (NPD) is constantly being reappointed which ensues delays in approvals and other administrative procedures. • Lack of timely audit submission from PMU team has resulted in delays with release of (advance) funds which has cascading effect on timelines of upcoming project deliverables 	
Kazakhstan (9332)	Refrigerators, Motors and Transformers	<p>U4E Involvement: Whilst the UNDP led project is currently on hold under GEF review following the mid-term evaluation U4E continue to provide international support and information to the UNDP national team. This included support for the 2021 International Forum on Energy Saving in Nur Sultan with a virtual presentation on "International experience of integrating energy efficiency requirements into public procurement". The</p>	<ul style="list-style-type: none"> • No obligations per the GEF project design. • U4E will continue to support the project on light touch basis (pending fundraising)

		Kazakhstan UNDP team were also consulted during the mid-term review for the global leapfrogging project.	
Myanmar (9499)	Lighting, Air Conditioners	The project is on hold per guidance of Regional Office for Asia Pacific.	N/A
South Africa (9492)	Lighting, Transformers	The project has started as of 2023-S1. A launch meeting will be convened in July 2023 (after the project completion of the Global Leapfrogging Project). U4E will participate to share experiences from other countries and provide an overview of the U4E tools.	<ul style="list-style-type: none"> • No obligations per the GEF project design. • U4E will continue to support the project on light touch basis (pending fundraising)
Sudan (9328)	Lighting, Air Conditioners	<p>U4E Involvement: U4E technical assistance has made good progress during the period and has been following up regularly with Sudan's local PM and providing guidance at different levels, such as:</p> <ul style="list-style-type: none"> • Revision and feedback of technical documentation as regards the national Market Assessment, MEPS and Labels. Dedicated Capacity Building session on Sustainable Public Procurement. • Participation of 2 representatives from the Sudanese Standard and Metrology Organization (SSMO) at Photometry Study Tour in Thailand. • Proposed a series of activities to be delivered by U4E to complement current project activities. • Development of article to be featured at U4E's website on Communication Campaign on Energy Efficiency Labels and Energy conservation. • Technical support and share of U4E material for the development of PRS in Sudan. • Provided linkages between Sudan's PM and India stakeholders. • Development of GCF Readiness or GEF 8 Project Proposal for Commercial Refrigeration, to help sustain the market transformation efforts after this GEF project ends. <p>Challenges: Sudan's project has been slowed due to ongoing national political issues.</p>	<p>The project has been extended until March 2024. Pending activities revolve around:</p> <ul style="list-style-type: none"> - technical support for the implementation of the MEPS and Labels regulations, - continuing with Sustainable public Procurement support, such as revision of legal framework and implementation of regulations for products acquisition, - Foster linkages with current project organizations, such as ANME in Tunisia and NEECA in Pakistan for peer learning, - Provide Capacity Building on MVE Photometry. • Technical support in the tailoring of U4E's PRS as national database, which is funded by Sudan itself.

Tunisia (9498)	Lighting	<p>U4E Involvement: U4E technical assistance has made good progress during the period with the following activities:</p> <ul style="list-style-type: none"> • Development of technical recommendations for Laboratory equipment procurement. • Development of Laboratory Assessment report. • Development of TOR for Capacity Building proposal to build testing capability in lighting product performance. • Coordination and delivery of overseas Study Tour Programme for Photometric test Laboratories. • Final report of the national Lighting minimum energy performance standards (MEPS) for the residential sector, street Lighting sector and Tertiary sector plus complementary comments and notes on stakeholder's feedback. • Technical assistance on drafting MEPS and Labels National decree for lighting products in Tunisia. • Organization and delivery of MEPS and Labels Workshop to present the Lighting MEPS proposal to national stakeholders. • Organization and delivery of technical visit to local lighting manufactures in Tunis. • Development of QR Codes Benchmark and technical recommendations. • Assessment and survey to national lighting Manufactures Development of draft report on tailored recommendations for Monitoring, Verification and Enforcement mechanisms and proposal for Capacity Building • Capacity building proposal on Technical Photometry training for National Laboratory CETIME. • ESM Technical mission and delivery of training on Extended Producers Responsibility. • Technical mission and delivery of Sustainable Public Procurement training.. 	<p>Project has been extended until March 2025. Pending activities revolve around:</p> <ul style="list-style-type: none"> • Enforcement of MEPS and Labels through national decree. • Delivery of MVE mechanism training. • Delivery of Capacity Building training and coaching for lab staff on test and measurement methods • Provide technical assistance for lab international accreditation. • Assessment report on Tunisian Lighting manufactures, recommendations report and delivery of related Capacity Building.
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Türkiye	Motors	<p>U4E Involvement: The TEVMOT project team is an active participant in U4E meetings, particularly on motors. U4E and its partners frequently provide light-touch support to the project, such as convening a technical discussion with experts from International Copper Association and University of Coimbra in June 2021. UNEP/U4E worked with UNDP and the TEVMOT to create a news article highlighting the role of energy efficiency to lessen the impact of rising fuel prices.</p>	<ul style="list-style-type: none"> • Project has been extended until January 2024.