

## Terms of Reference

### Energy Research and Capacity Development Advisor

“Accelerating Air Conditioning Transformation through Enhanced Standards and Labeling in the ASEAN Region”

GIZ International Services (InS) PN: G-012891-003

#### (Band 4)

#### Project Description:

The **Accelerating Air Conditioning Transformation through Enhanced Standards and Labelling in the ASEAN Region (ACT MEPS)** project implemented by Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH with funding from the Clean Cooling Collaborative (CCC) of the Climateworks Foundation which aims to institutionalize regional MEPS into national contexts to ensure regular updates, enhance coordination with the industry, as well as drive the uptake of energy efficient low global warming potential (GWP) air conditioners (ACs).

Agreed at a ministerial level, the Association of Southeast Asian Nations (ASEAN) adopted a harmonized minimum energy performance standard (MEPS) for air conditioners (AC) set at 6.09 cooling seasonal performance factor (CSPF) based on the standards ISO 5151 and ISO 16358-1. The standards were adopted as national standards as the initial step in this ambitious climb to higher MEPS. The ACTMEPS project in the Philippines and Vietnam examined the nuances related to the adoption of the harmonized MEPS and the use of the standard test methods to achieve the ambitious harmonized ASEAN goal.

In 2026, the Philippines hosts the presidency of the ASEAN with high-level ministerial meetings planned to review the prior agreements related to the MEPS policy adoption and the status of achievement of ambitious goals for the ASEAN. ACT MEPS received a project top-up to build on this momentum and gain additional funding to provide key policy research and technical interventions with a special focus on window-type ACs for the Philippines through policy advice, technology demonstrations and capacity building.

The ACT MEPS project is in need of an **Energy Research and Capacity Development Advisor** to provide technical support to key interventions related to improving the energy performance of locally produced ACs and research to ensure accuracy and reduced uncertainties in the measured performance of imported ACs from various countries-of-origin.

The **Energy Research and Capacity Development Advisor** shall also support the Green Room Air Conditioner (GRACE) project in testing and training activities to improve AC performance and safety through the qualification of technicians essential for AC installation.

#### Major Function/Duties

In carrying out his/her role, the **Energy Research and Capacity Development Advisor**

shall perform the following major functions/duties:

- Technical focal in managing contracts and collaborations with key partners on just energy transition topics, energy performance measurement, safety testing and training, and other key emerging topics in the energy sector (power transmission, alternative fuels, decarbonization, etc.)
- Ensure seamless operational performance and delivery of results within the project timelines
- Supervise the safety and performance tests based on IEC 60335-2-40 and ISO 5151/ISO 16358-1 of air conditioners as part of project demonstration activities
- Close coordination among private test laboratories, the Department of Energy (DOE) Energy Research and Testing Laboratory Services (ERTLS), Lawrence Berkeley National Laboratory (LBNL), UN Environment United for Efficiency (UNEP U4E), International Institute for Energy Conservation (IIEC) and other key entities related to energy research.
- Ensure documents are complete in test and training activities and manage costs within the project budget
- Organize training events and other capacity development activities related to the review, development and mainstreaming of international and regional standards including technician qualifications
- Coordinate activities between the DOE ERTLS and Technical Education and Skills Development Authority (TESDA) for research and extension work on R290 and other safety aspects that require training intervention in the installation by certified refrigeration and air conditioning (RAC) technicians.
- Monitor and compile consultancy outputs to be presented in ASEAN regional events and high-level meetings;
- Synthesize research results on AC MEPS and its climate change impacts
- Prepare concept notes, agendas, terms of reference (TOR) and meeting invitations;
- Support with the documentation of meetings and other activities (including notes and photos);
- Support scheduling of meetings, including technical support for technical working groups and technical committees;
- Communication and coordination with the GIZ Country Office (Contracting, Finance, Human Resources, etc.) and with the energy task team of the climate action cluster for seamless project implementation;
- Ensure proper consolidation of complete documents, maintain and update records and filed properly in coordination with the InS and Proklima team in Eschborn, Germany;
- Support the coordination across cooling projects as well as cross-project integration particularly with the ASEAN Cooling and the Mitigation Action Facility (MAF) Development Proposal Phase (DPP) for GreenCool Philippines.

**Competency Requirements:**

- Ability to conduct research with above average scientific writing skills
- Review and evaluate international standards published by the International Organization for Standardization (ISO), International Electrotechnical Commission (IEC) and other relevant standards to integrate requirements into project implementation through training and other capacity development activities
- Ability to cooperate with and generate cooperation from colleagues

- Positive and creative and problem-solving oriented thinking
- Good command of MS-Office (Word, Excel, Powerpoint) and Microsoft Teams
- Knowledge in dealing with GIZ S4 SAP-based tools

**Professional Qualifications:**

- A degree in science or engineering preferably physics, chemistry, electrical engineering or mechanical engineering
- Advanced graduate degree with research and publication will be an advantage
- At least three years' experience in policy research and close coordination with government partners related to energy and environment
- Work experience with GIZ would be a great advantage.

**Duration of Engagement**

The term for the engagement shall be from earliest date possible until June 30, 2027.

**Reporting Relationship:**

The **Energy Research and Capacity Development Advisor** shall report directly to the Senior Technical Advisor while under the disciplinary and line management of the Cluster Coordinator of the Climate Action Cluster.

He/She shall be based at the DOE and TESDA, Taguig City, Philippines and shall work in close coordination with the DOE- ERTLS, TESDA Green Technology Center (GTC), Energy Task Team of the Climate Cluster, ASEAN cluster energy projects and Regional ASEAN partners, GIZ Proklima and the global InS team in Eschborn, Germany.