



Space cooling represents up to 50% of electricity demand in Southeast Asia

The world is poised to install 700 million new room air conditioners by 2030, and 2.5 billion by 2050. Cooling and refrigeration are essential to improving lives and livelihoods by enhancing healthcare, education, and productivity. In Southeast Asia alone, the room air conditioner (AC) market is expected to grow by 10% annually over the next five years, hand in hand with increasing energy demand and greenhouse gas emissions.

Under the Kigali Amendment of the Montreal Protocol, 197 countries committed to cut the production and consumption of hydrofluorocarbons (HFCs) — potent greenhouse gases used in refrigeration and air conditioning — by more than 80 percent over the next 30 years. This effort has the potential to avoid up to 0.5° C of global warming by the end of the century. The Kigali Cooling Efficiency Program (K-CEP) is a philanthropic program focused on using energy efficient cooling to increase and accelerate the climate and development benefits of the Kigali Amendment to phase down HFCs.

In collaboration with K-CEP, CLASP is working regionally with the Association of Southeast Asian Nations (ASEAN) and nationally in Thailand, Vietnam, and the Philippines, to increase the market share of high-efficiency, low global warming potential space cooling and refrigeration appliances, through targeted policy and market interventions.

Standards & Labeling Policy



Vietnam

Assistance to improve AC efficiency requirements: minimum energy performance standards (MEPS)

Thailand

Assistance to improve AC efficiency requirements: MEPS & high-efficiency performance standards (HEPS)

Philippines

Assistance to improve AC efficiency requirements: MEPS

Compliance



ASEAN

Accreditation, mutual recognition agreements (MRAs), and regional network

Vietnam

Strengthen capacity, measure compliance baseline & improvements

Philippines

Implementing procedures, rules, & regulations

Market Transformation



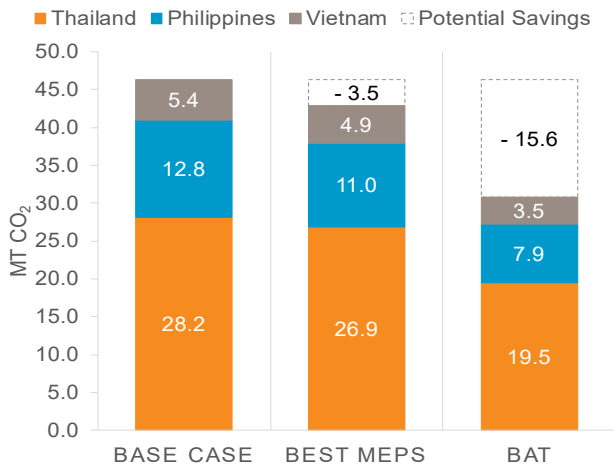
Vietnam

Opportunities for incentives and large-scale AC procurement and replacement programs

Thailand

Opportunities to incorporate recycling and disposal activities for AC replacement programs

2030 EMISSIONS SAVINGS BY POLICY SCENARIO



Potential emissions savings from high-efficiency ACs

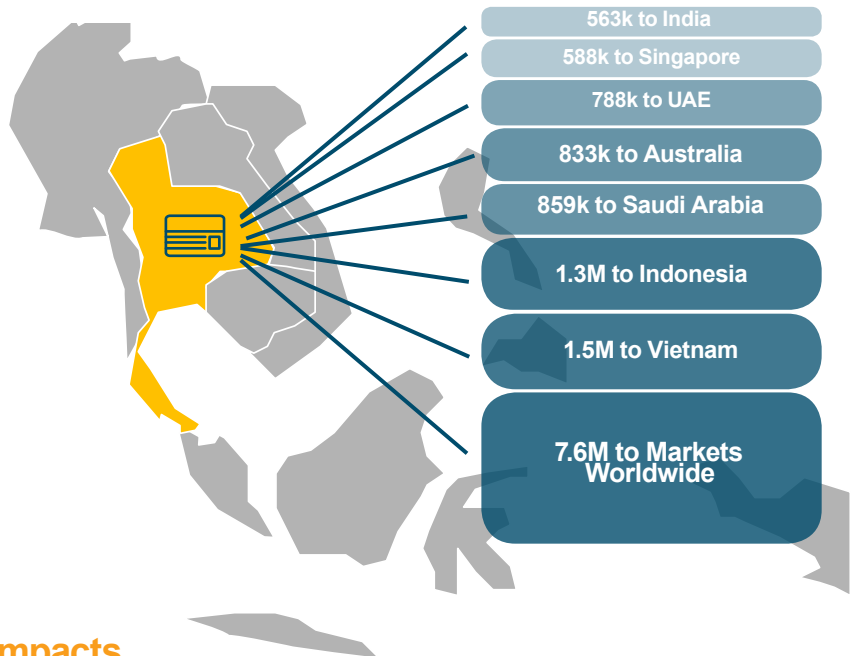
By 2030

- Enhancing MEPS in Thailand, the Philippines, and Vietnam could avoid over 3.5 Mt CO₂ in emissions relative to business as usual scenario.








- Transforming markets to best available technologies would avoid more than 15.6 Mt CO₂.

Thailand AC exports benefit from vibrant regional trade

In ASEAN, tariff reductions on intra-regional trade along with regional standards harmonization has led to AC markets dominated by products manufactured and traded regionally as opposed to Chinese-made ACs. Already, Thailand is the world's second largest AC manufacturer and exporter, with several of its largest export markets from within ASEAN.



Program Overview & Expected Impacts

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1 REGION & 3 COUNTRIES
 ASEAN, the Philippines, Thailand, and Vietnam
- 
50% IMPROVED RECYCLING & DISPOSAL RATES
 for ACs in Thailand
- 
3 AC EFFICIENCY REQUIREMENTS/MEPS
 revised or improved in the Philippines, Thailand, and Vietnam
- 
1 LAB ACCREDITED
 and 3 test labs improve capacity for testing ACs in ASEAN Region
- 
3.5 Mt CO₂ EMISSIONS SAVED
 in 2030 from adoption of more stringent efficiency requirements for ACs and revised AC MEPS in three countries
- 
40 STAFF TRAINED
 in ASEAN Region on compliance best practice
- 
20% IMPROVED COMPLIANCE RATES
 over 3 years for MEPS in Vietnam
- 
GREATER PENETRATION OF HE/LOW-GWP ACs
 in ASEAN



CLASP improves the energy and environmental performance of the appliances & equipment we use every day, accelerating our transition to a more sustainable world. Our programs increase uptake of affordable, low-impact, high-quality appliances. We serve as the leading international voice & resource for appliance energy efficiency policies and market acceleration initiatives.