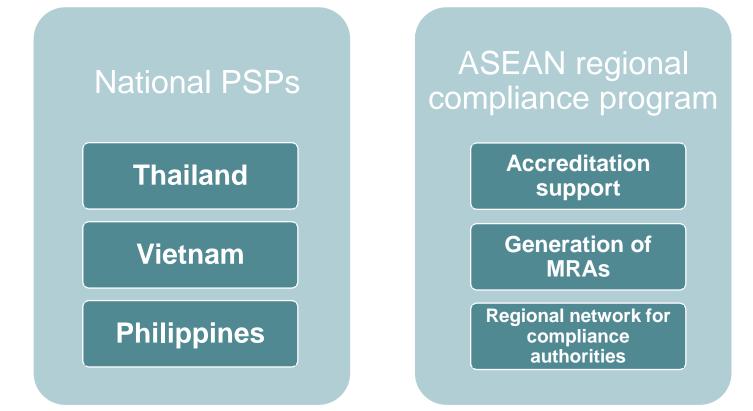


KCEP readiness manufacturing initiative Findings from the AC market assessments in Thailand, Vietnam and the Philippines

A presentation to the International Conference On Sustainable Cooling Ana Maria Carreno, Senior Manager Policy & Analysis, CLASP



CLASP's Southeast Asia Cooling Program Scope



AC market assessments

- Market Size
- AC types
- Brands
- Labeling
- Policy Analysis

Based on national statistics, Euromonitor, JARN.

Based on retail store visits

- & manufacturer interviews:
 - Vietnam: 1,773 data points
 - Philippines: 3,900 data points
 - Thailand: 2,146 data points

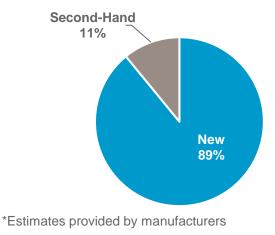
Vietnam market findings

The Market for ACs is Growing in Vietnam



*Market Size is calculated as: (Imports + Manufacturing) - Exports

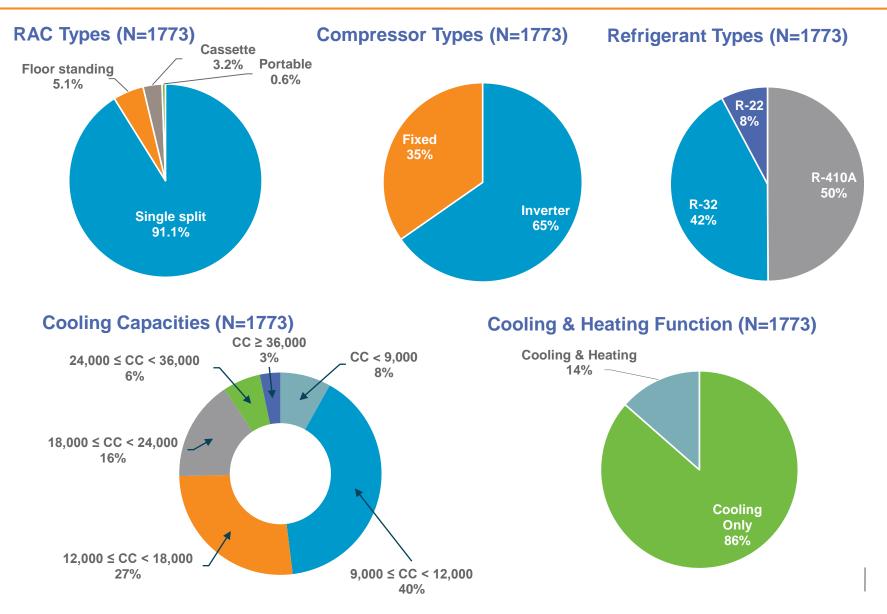
Estimated Ratios of New & Second-Hand ACs in the Market



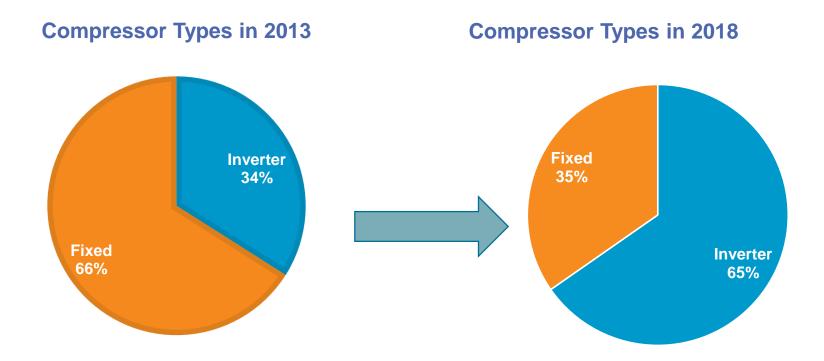
2017 Market Size Estimates

- ~ 3 million ACs (EEI)
- ~ 2.4 million ACs (Euromonitor)
- ~ 1.7 million ACs (JARN)

AC Types in Vietnam

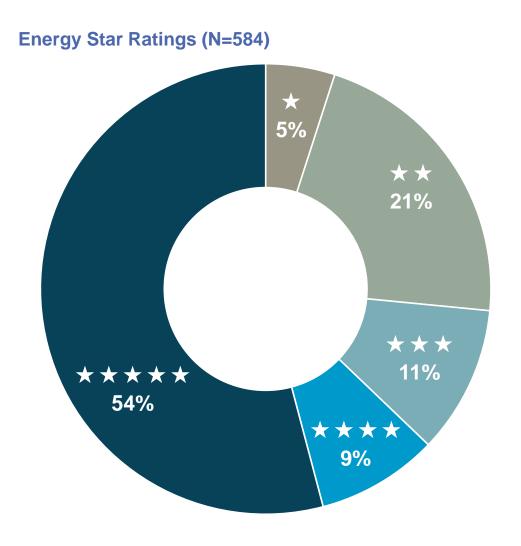


Inverter AC Market Transformation in Vietnam



 Inverter models market share has nearly double in 5 years

AC Labeling State of Play 2018 in Vietnam



- 99.8% of the models bore certified labels
- 62.8% of models on the market bear ratings of 4-5 stars

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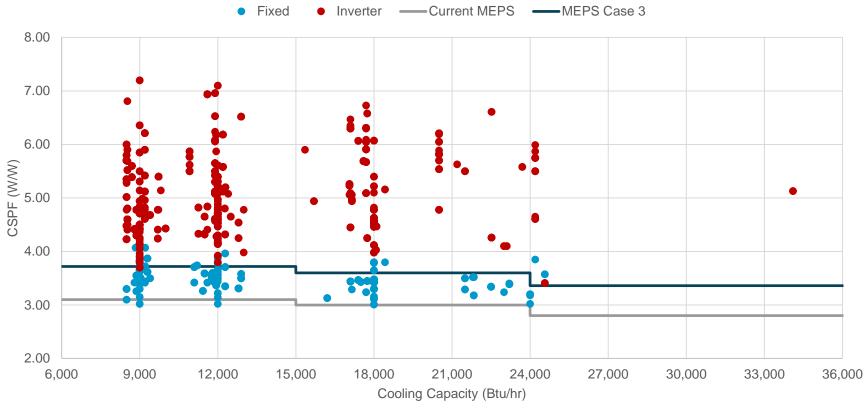


BỘ CÔNG THƯƠNG

CHƯƠNG TRÌNH MỤC TIÊU QUỐC GIA Về Sử DỤNG NĂNG LƯƠNG TIẾT KIỆM VÀ HIỆU QUÁ

Impacts of potential MEPS scenarios in Vietnam

Policy Case #3 - MEPS Raised by 20% (N=1391)

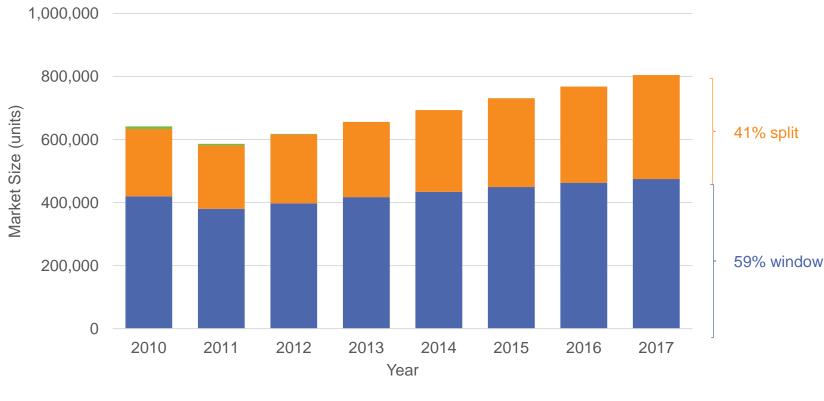


Vietnamese market is prime to an increase in the MEPS level of ambition:

 A 20% increase to current MEPS will remove 22% of AC models from the market (78.1% of models on the market already meet or exceed this efficiency level)

Philippines market findings

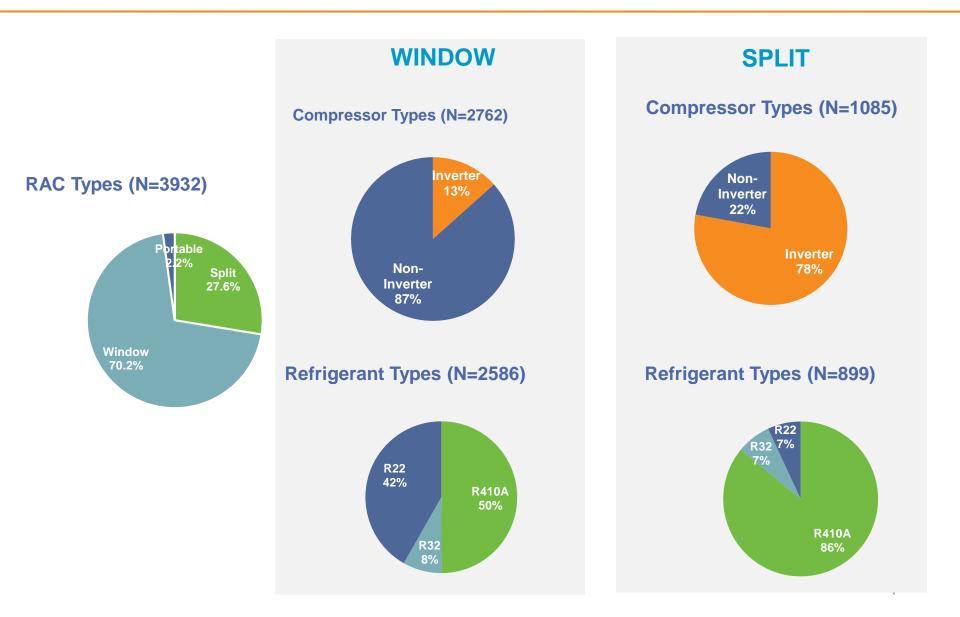
The market for ACs is growing in the Philippines



AC Market Size in the Philippines*

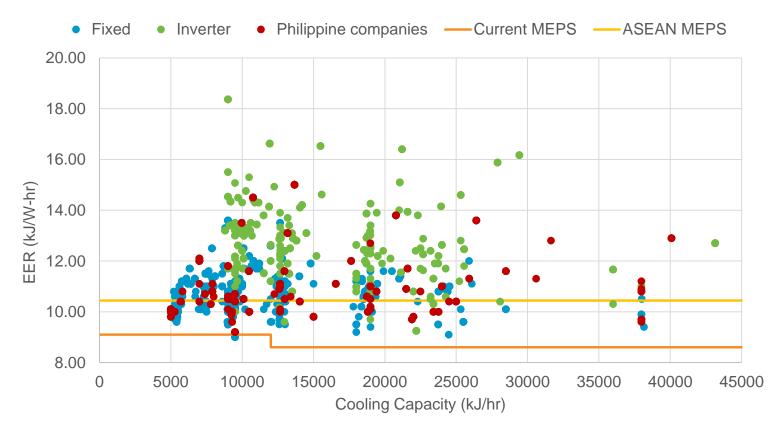
■ Window ■ Split ■ Portable

AC types in the Philippines



Cooling Capacity vs. Efficiency – ASEAN MEPS

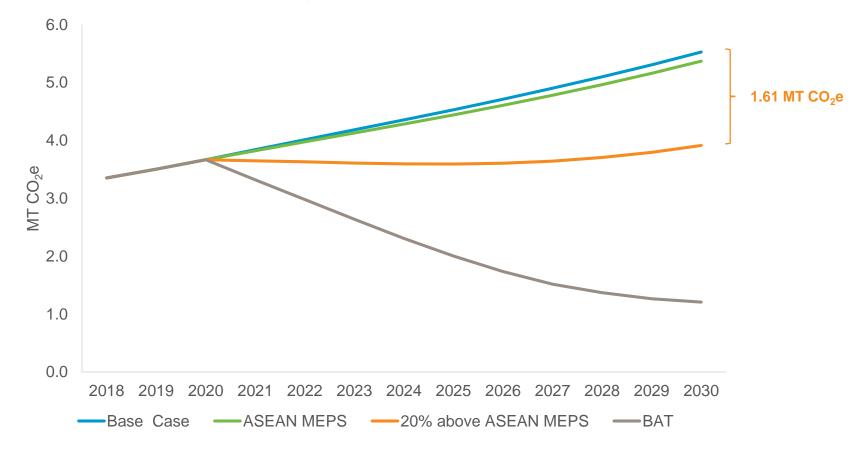
Cooling Capacity vs. Efficiency by Compressor Type* (N=2999)



*Models manufactured by Philippine companies (Concepcion-Carrier and Koppel Inc.) are shown separately

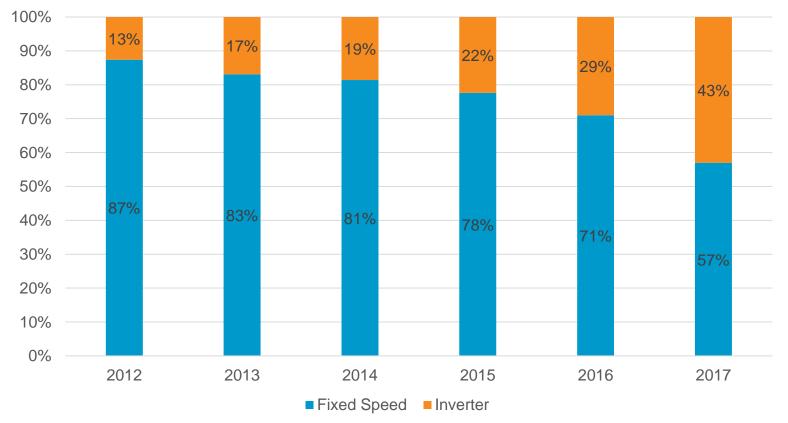
National level benefits - emissions savings

The Philippines Emissions Savings



Thailand market findings

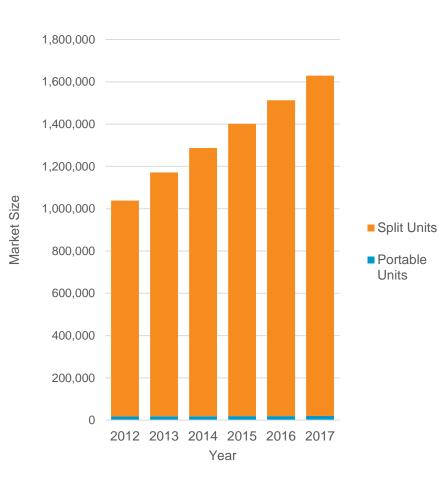
Thailand – Gathering Evidence of Market Transformation



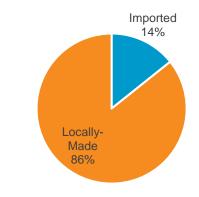
Market Share by Compressor Type

The Market for ACs is Growing in Thailand

AC Market Size in Thailand



Estimated Ratios of Imported and Local AC Units in the Market (N=1135)

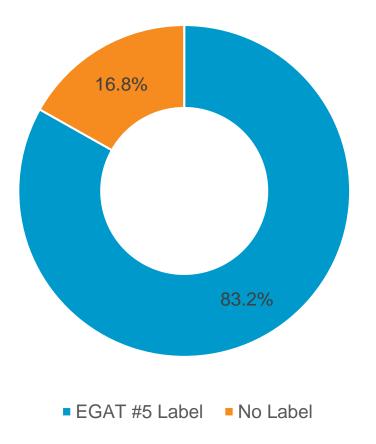


2017 Market Size Estimates

- ~ 1.6-1.7 million ACs (EEI)
- ~ 1.6 million ACs (Euromonitor)
- ~ 1.4 million ACs (JARN)

AC Labeling State of Play 2018 in Thailand

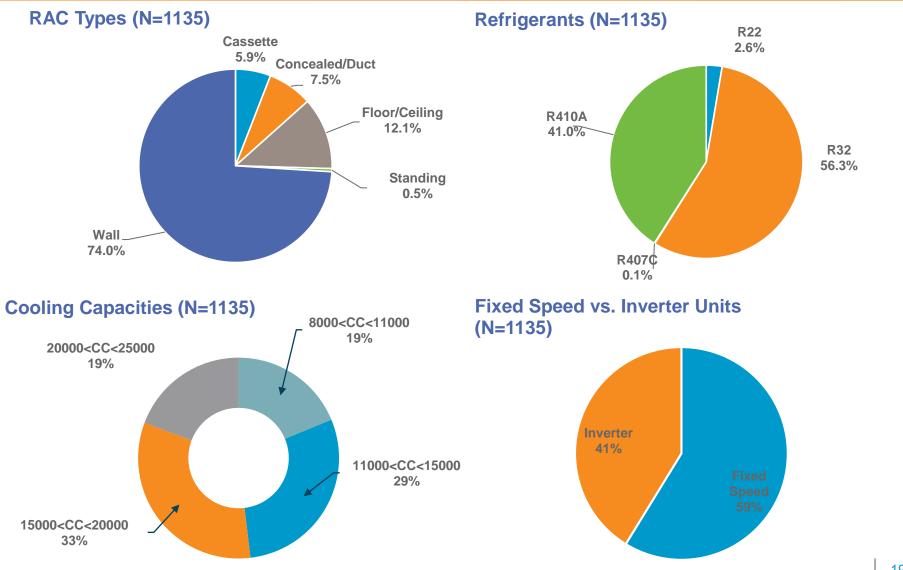
Energy Labels in Thailand (N=1135)



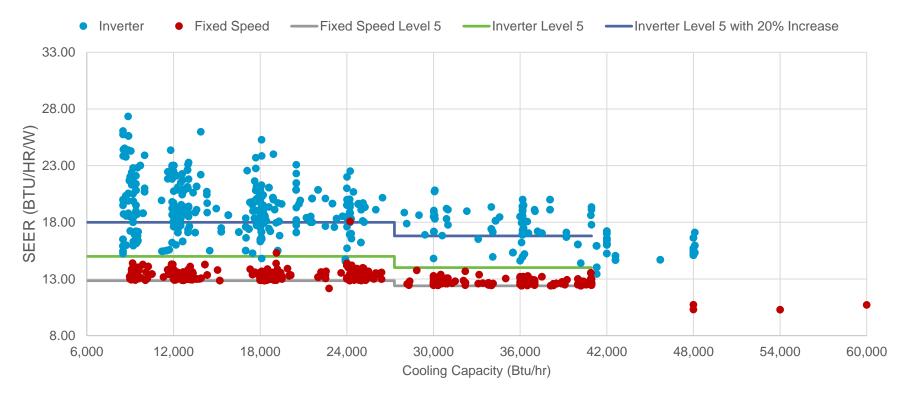
- 83.5% of the models bore certified labels
- All certified labels
 were number 5 labels



AC Types in Thailand



Policy Case: EGAT Level 5 Label Increased by 20%



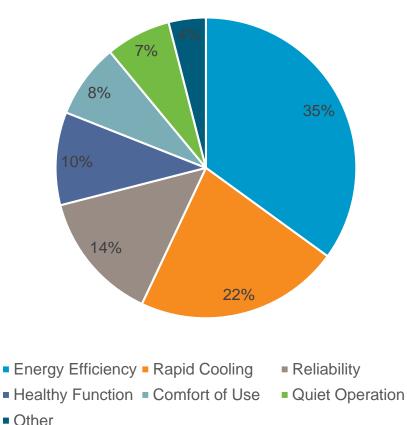
Thai market is prime for an increase in the EGAT Level 5 label level:

 A 20% increase in the Level 5 Label will decrease the market share of Level 5 labels to 27.2%, with only one fixed speed model at Level 5

Thailand – Understanding Consumer Preferences

- The most frequently cited factor for choosing an AC unit was energy efficiency
- Energy efficiency is also a top factor in government procurement, where the EGAT #5 label is often a requirement

Top Factor in Selecting an AC Unit



Any questions?

