

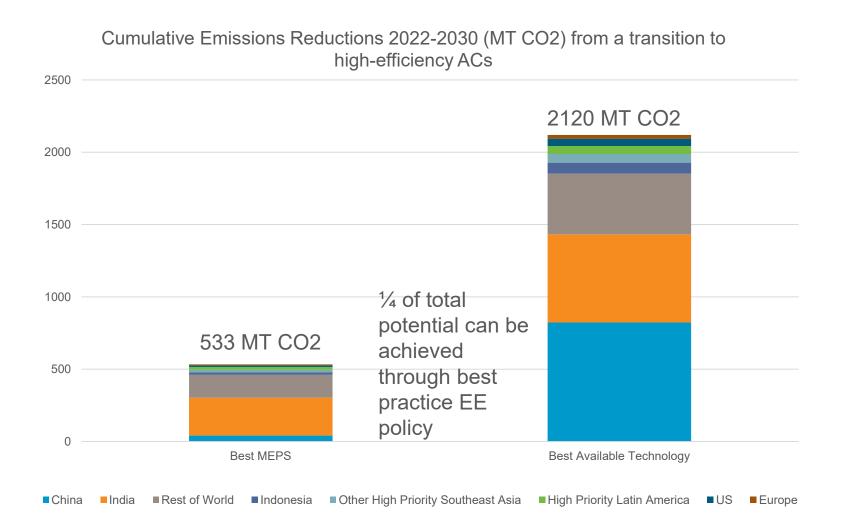
Overview of key developments, needs and challenges in energy performance standards and labels

A presentation to the International Conference On Sustainable Cooling Eric Gibbs, Chief Policy & Analysis Officer, CLASP November 28, 2018

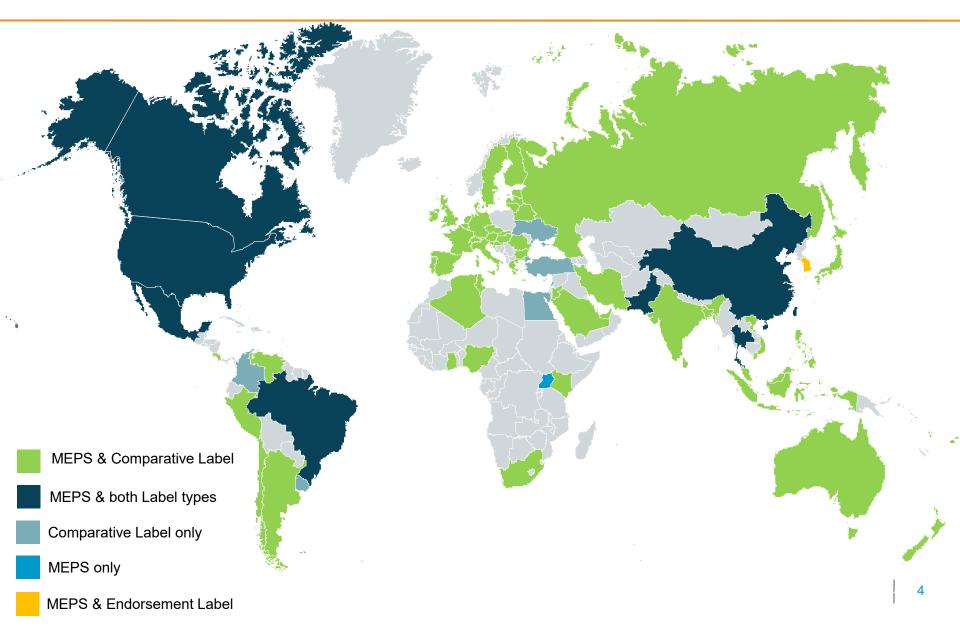
Outline

- The Policy Imperative
- The Energy Efficiency Policy Toolbox
- Policy Tools Implementation & Outcomes (case studies)
 - Brazil
 - Indonesia
 - Philippines
 - India

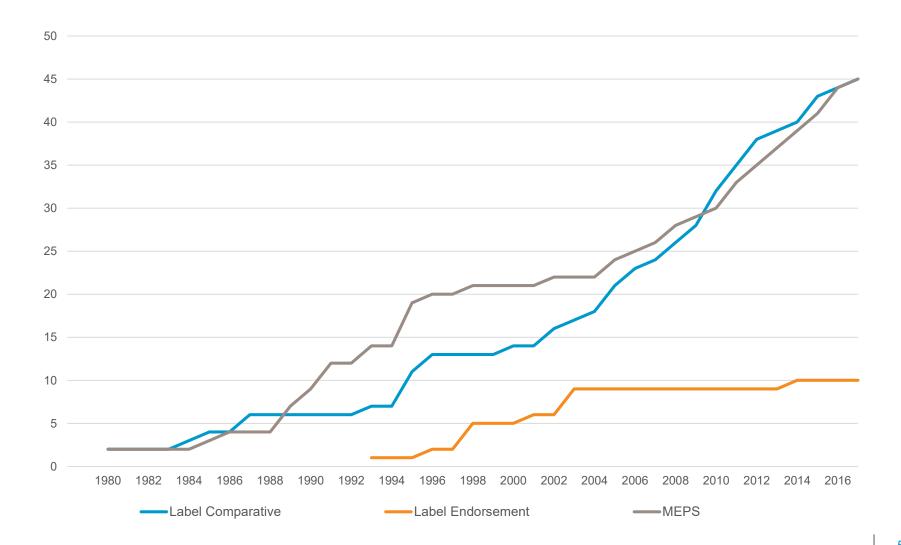
What is the policy imperative?



AC Policies Around the World



Room AC Policies Over Time



In Mexico, impacts from AC and refrigerator standards implemented between 1995 and 2014 resulted in:

- National electricity savings of 5.2 TWh of electricity in 2014, roughly equivalent to two 500 MW power plants
- Cumulative CO2 emissions mitigation of 23 million metric tons through 2014
- Avoided over **40 thousand million Mexican pesos (3 billion USD)** of electricity bills through 2014.



Energy Efficiency Policy Toolbox





Comparative Label



Endorsement Label



Bulk Procurement specification

What happens when you don't use the toolbox?

Brazil

 Infrequent revisions of labeling categories have resulted in 57% of room ACs belonging to the most efficient labeling class, a disincentive to industry and consumers

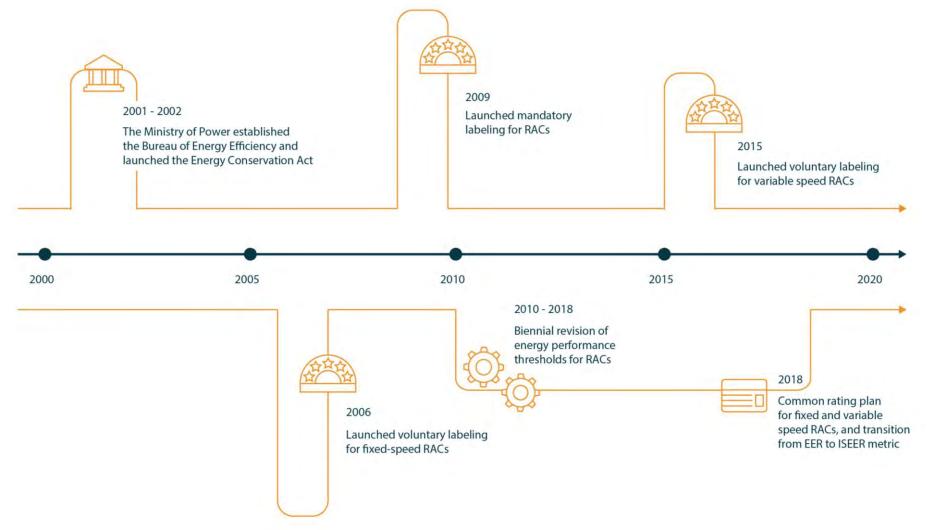
Philippines

• The lack of an EE policy resulted in a market mostly stagnant for the past 5 years, with little improvement in the overall efficiency of AC products

Indonesia

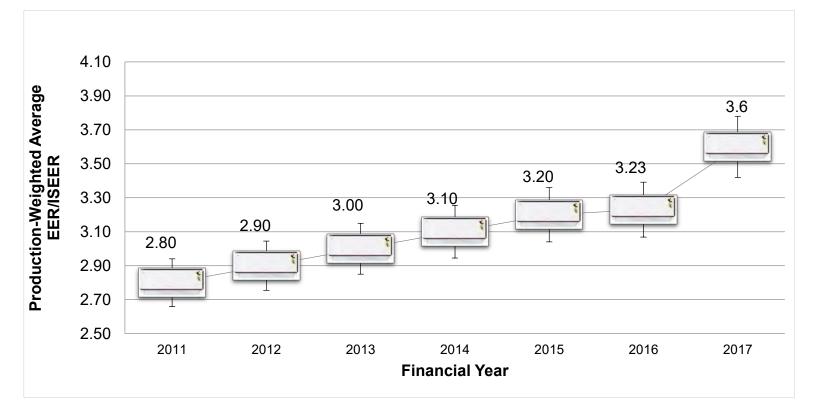
 Too lenient EE policy when implemented has no effect on the market



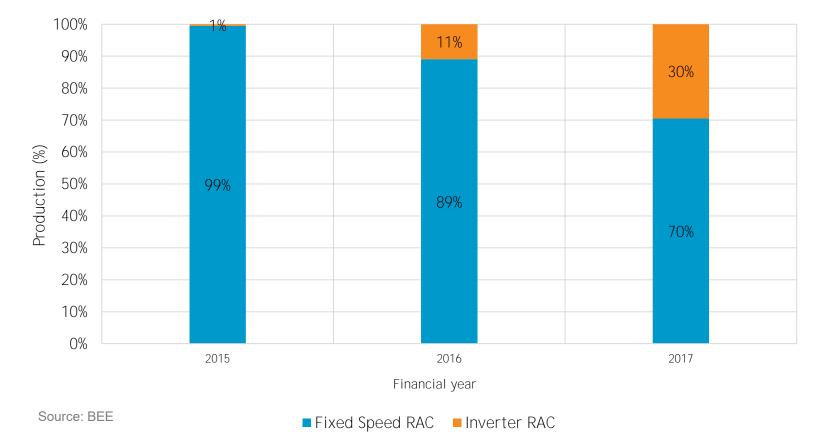


The RAC Policy Timeline in India

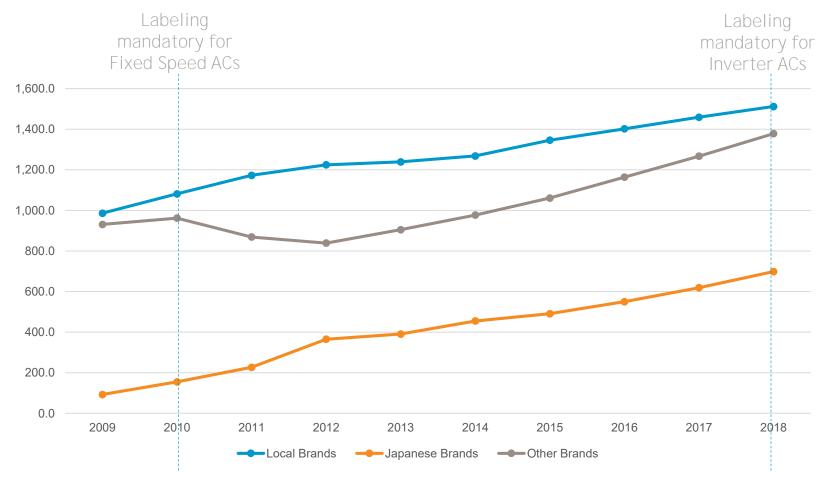
 The production-weighted average EER/ISEER of RACs has increased from 2.8 in 2011-12 to 3.6 in 2017-18, which represents a 29% increase in efficiency over the period



Market penetration of Inverter RAC, 2015 - 2017



Annual sales of leading brand ACs between 2009 and 2018 ('000s)



Source: Euromonitor International

Key Takeaways

- Energy efficiency policy alone can secure ¼ of total potential GHG savings from a transition to high-efficiency ACs
- The benefits of EE AC policy translate to:
 - Electricity savings, curving energy demand and the need for new power plants
 - Billions of USD in electricity bills savings for consumers
- EE AC policy in India is a great example of market transformation
- Lessons form the energy efficiency policy toolbox implementation in India can be replicated in other markets

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Any questions?

