

Appliance Energy Efficiency S&L Development in China: Where are we now, and where to go next?

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Country Programs

US

China

EU

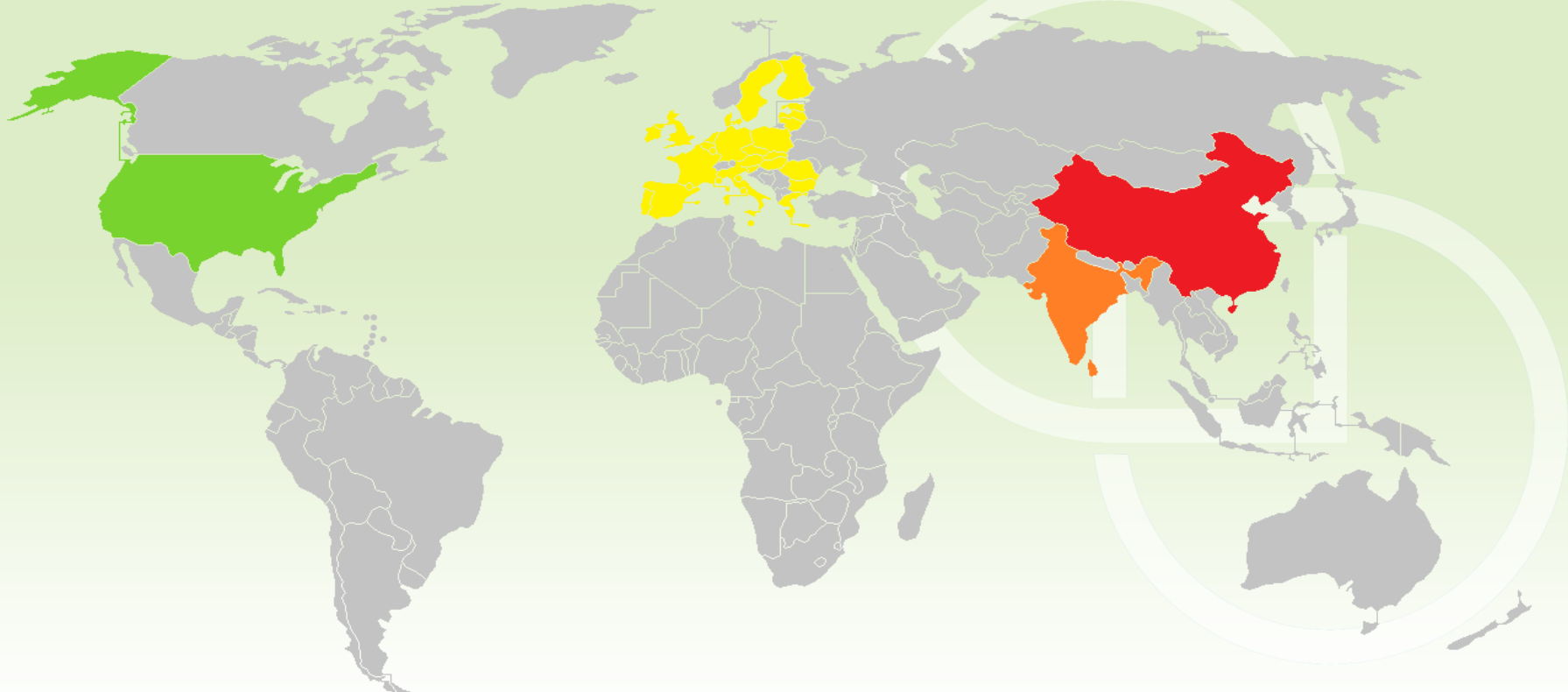
India



Global Programs

Global
Research

SEAD
Initiative



Outline

1. **China's Appliance EE Standards and labels**
2. **EE Incentive Policies**
3. **Market Analysis of EE products**
4. **Policy Recommendations**

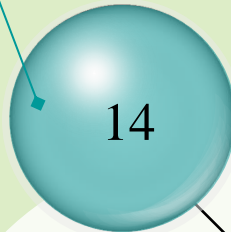


Energy Efficiency Standards

China have issued 48 EE standards by Sept 2012.

Household appliance

refrigerator, room-type air-conditioner, washing machine, electric rice cooker, flat panel televisions, color TV, electric fan, variable speed air-conditioner, electric water heater, gas instantaneous water heater, induction cooker, microwave oven



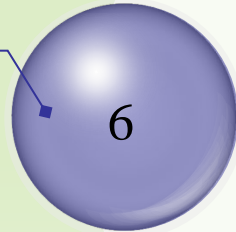
Lighting

Tubular Fluorescent Lamps, Double-capped Fluorescent Lamps, Single-capped Fluorescent Lamps, Self-ballasted fluorescent lamps, High-pressure Sodium Lamps, Metal-halide Lamps, Fluorescent lamps ballast, high-frequency electronic ballast for MH lamps, High-pressure Sodium Lamps Ballast



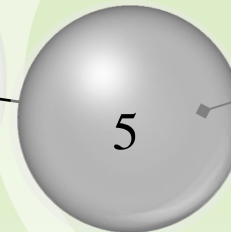
Transportation

Passenger car, Commercial vehicles, low-speed goods vehicles, Tri-wheel vehicles, moped, Motorcycles



Commercial product

Unitary air-conditioner, water chiller, multi-connected air-condition unit, external electric power source



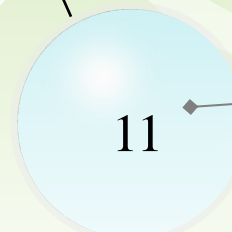
Official & electronic product

Copy machine, projector, flat panel television, printer and fax machine

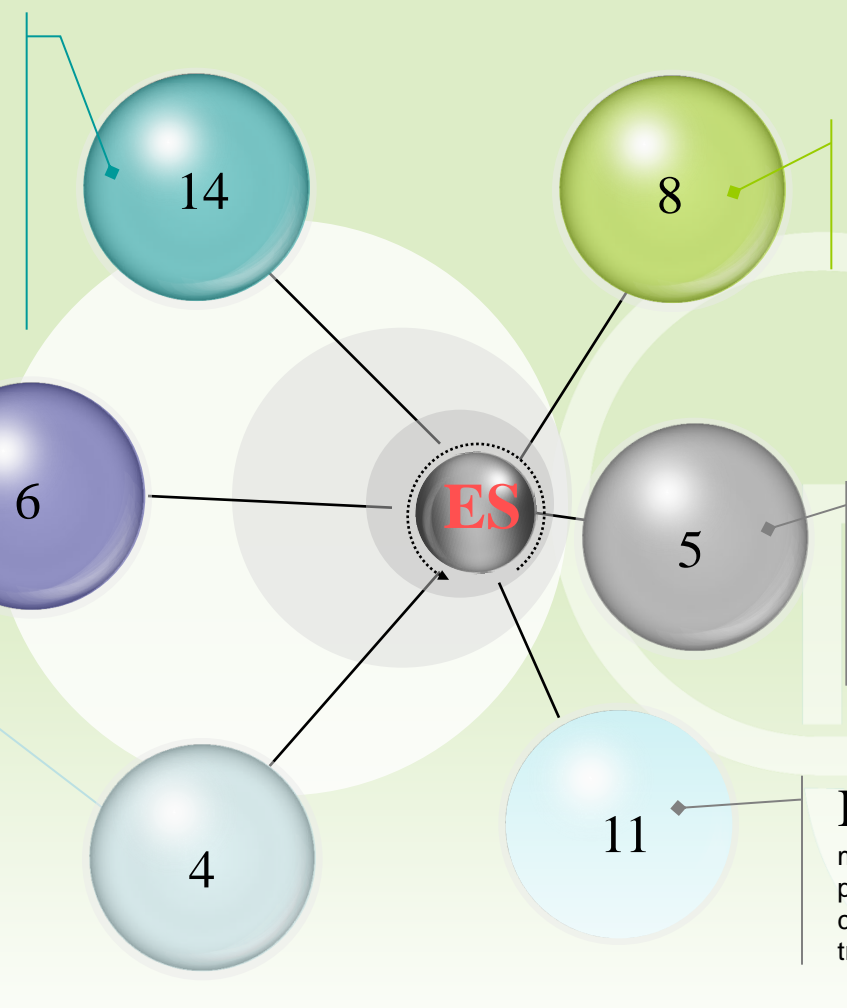


Industry product

motor, air compressor, fan, propeller pump, power distribution transformer, AC contactor, industry boiler, electricity transformer



ES



Energy Efficiency Labels

Endorsement Label



Voluntary

1998

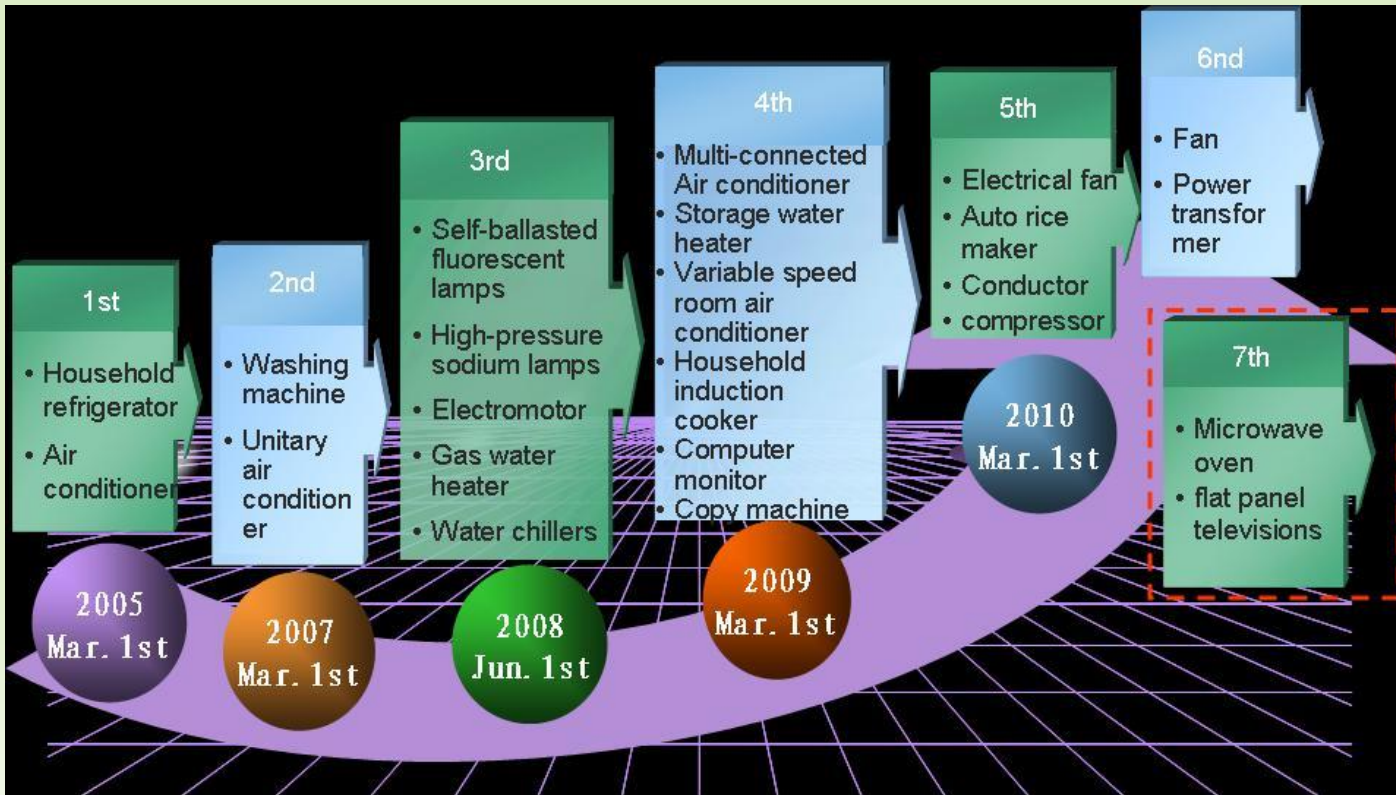
Comparative Label



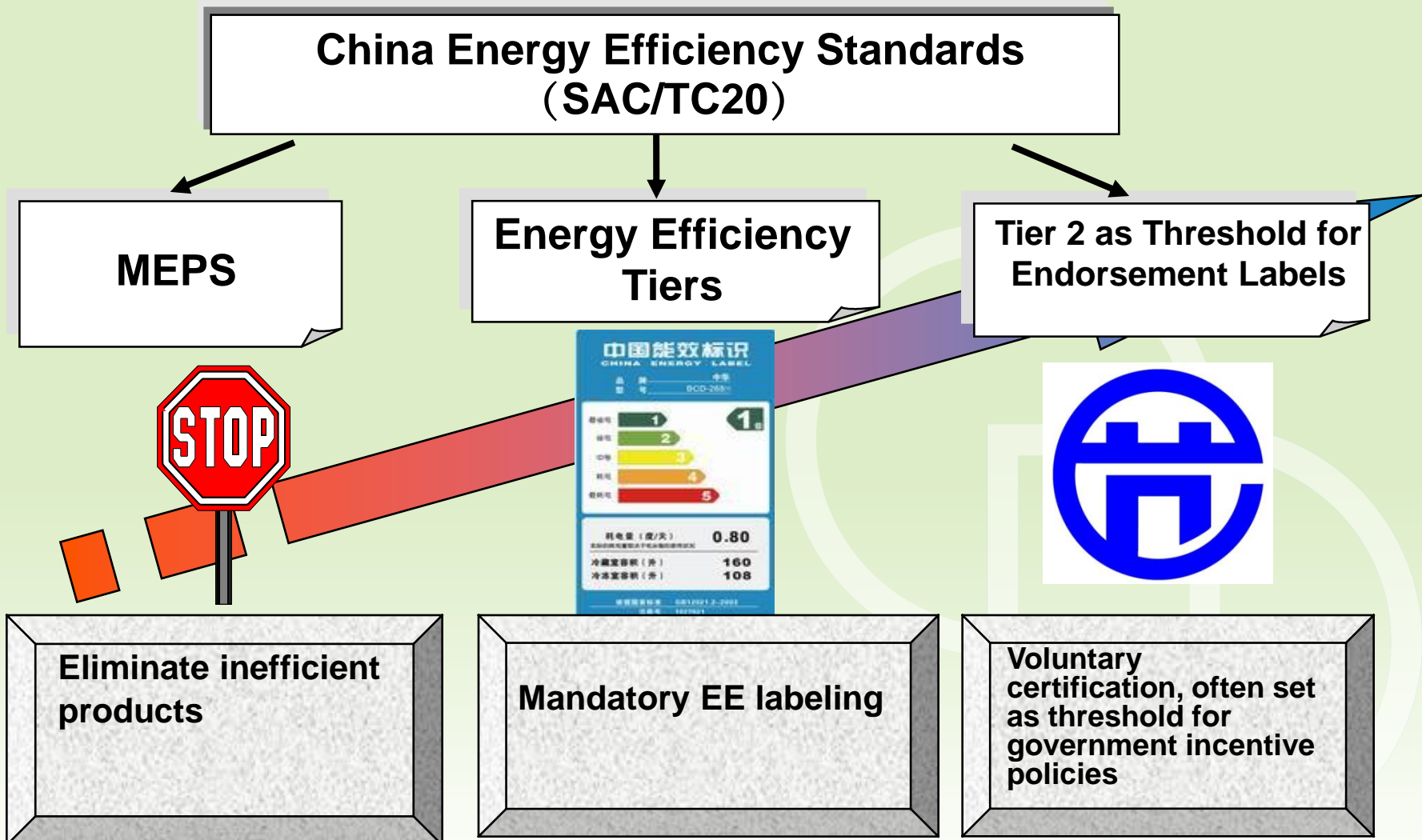
Mandatory

2004

Comparative EE Labels



By the end of 2012, China added the 8th batch (Solar Water heater and Refrigerated display cabinets, totaled 27 product categories



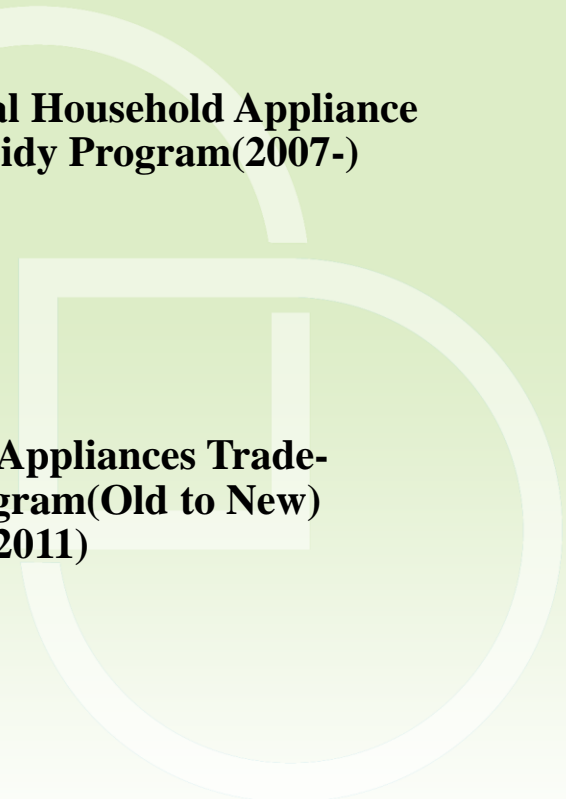
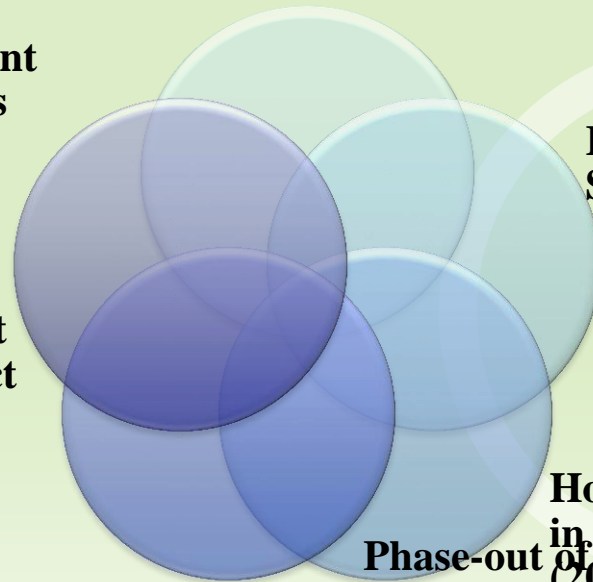
**Annual Publishing
Government Procurement
Catalog for EE Products
(2004-)**

**National EE Products
Subsidy Program(2009-
2013)**

**Energy-Efficient
Lighting Product
Promotion
Program
(2006-2013)**

**Rural Household Appliance
Subsidy Program(2007-)**

**Home Appliances Trade-
in Program(Old to New)
(2009-2011)**
**Phase-out of
Incandescent
Lamps (2012-
2016)**



National EE Products Subsidy Program

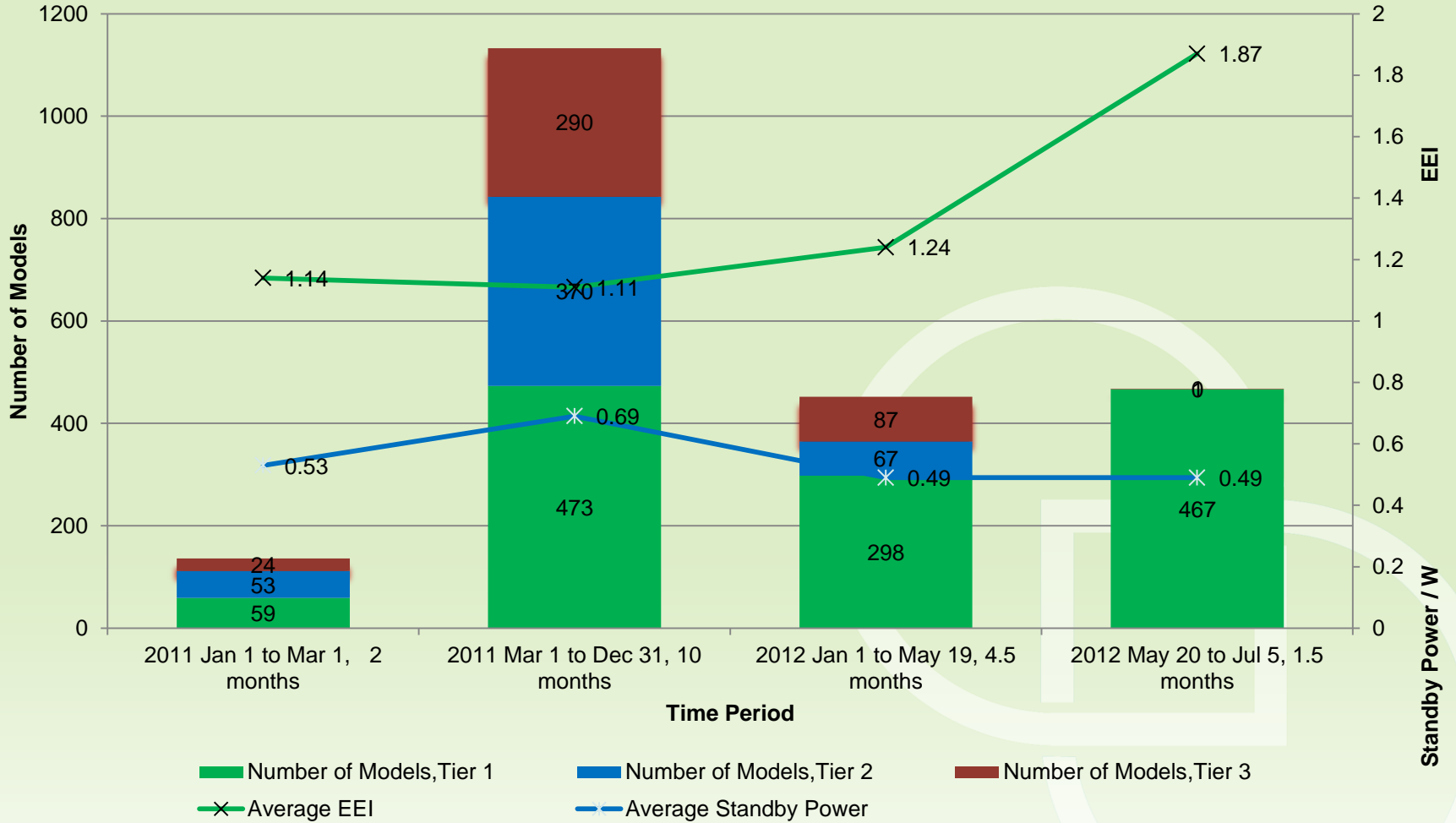


Subsidy

High Energy-efficient Products

Appliance	AC, TV, refrigerators, washing machine, and water heater, etc. (\$4.2 billion for 2012-2013)
Lighting	CFLs (\$ 350 million for 2012-2013)
Industrial Product	Electric motors, fan, pumps, compressor, and transformers
Transportation	Efficient cars, (\$1 billion for small vehicles, \$ 270 million for energy efficient vehicles)

TVs: Market Transformation

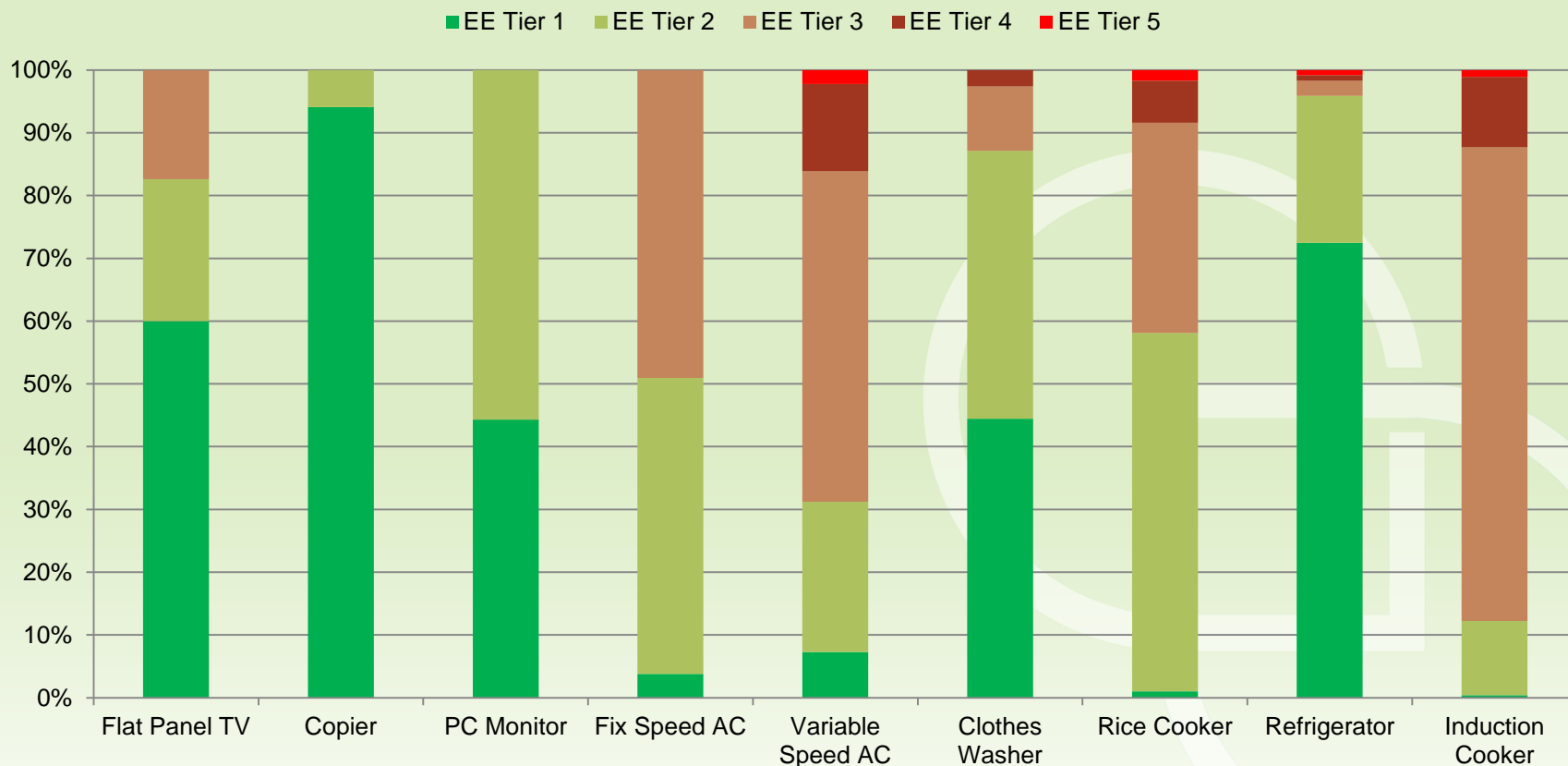


Source: CLASP/TOP10 MACEEP Study, 2013

National EE Products Subsidy Program



Energy Efficiency Tier Market Shares of 9 Selected Products (by Models)



Source: CLASP/TOP10 Market Analysis of China Energy Efficiency Products (MACEEP, 2013)

Conclusion and Recommendations

- Strong commitments are made by Chinese Gov't both politically and financially
- S&L and incentive policies have made market transformation happen
- Policy tools need to be developed to ensure the effectiveness of MEPS
- Policy tools needs to be developed for ex-ante and ex-post policy/program impact evaluation
- Policy making and implementation process needs engage more business community and the public
- Effective monitoring, verification and enforcement are the key to China's further success in S&L policies.

Thanks!

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<http://www.superefficient.org/>

