

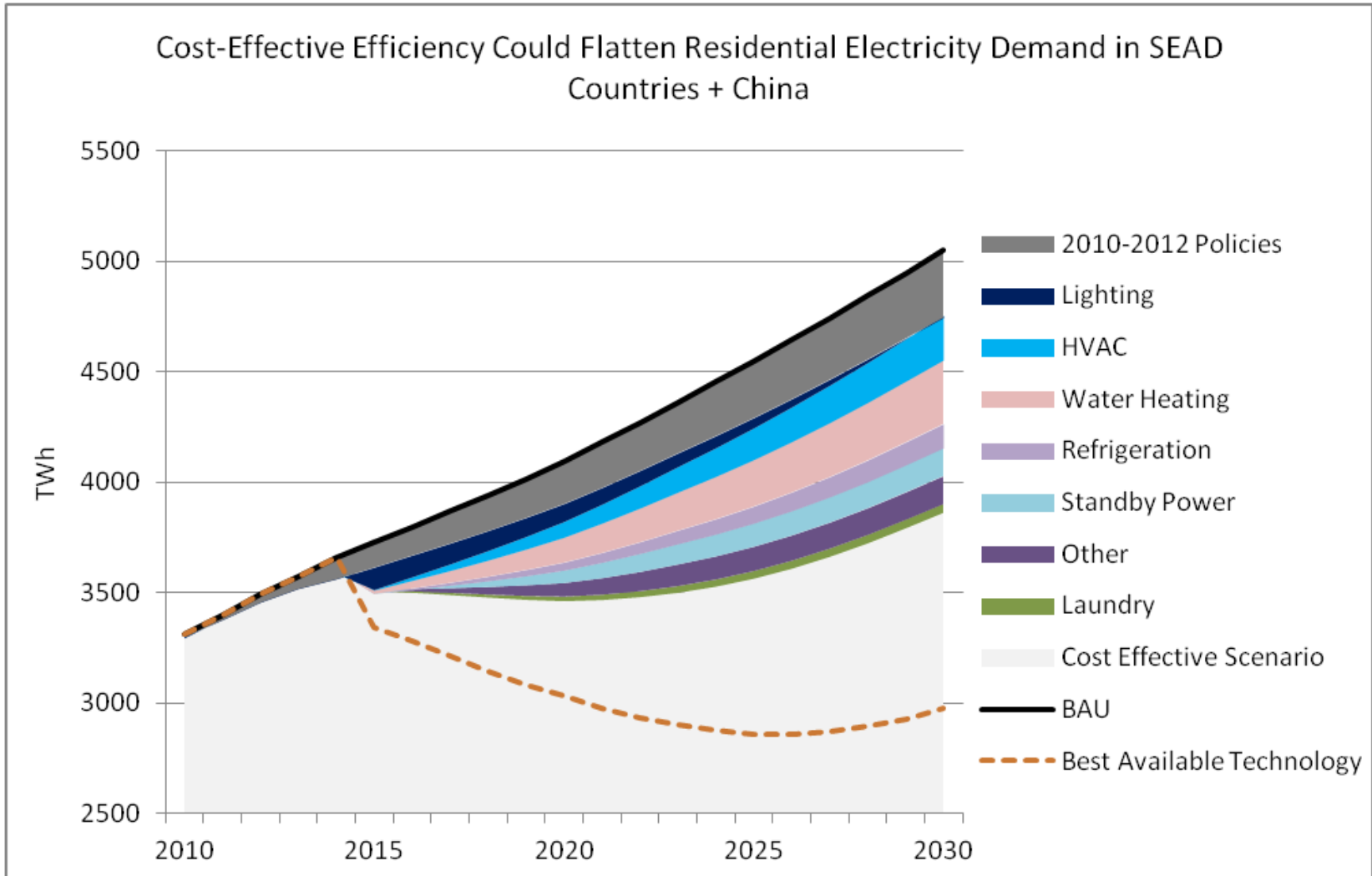


A World of Savings: A Global Perspective on Appliance Efficiency Policies

Energy Efficiency S&L Project Inception Workshop
Pretoria, South Africa
May 30, 2013



Gabrielle Dreyfus, U.S. Department of Energy



Source: BUENAS



SEAD is a multinational government collaboration whose primary objective is to accelerate global market transformation for energy efficient products.



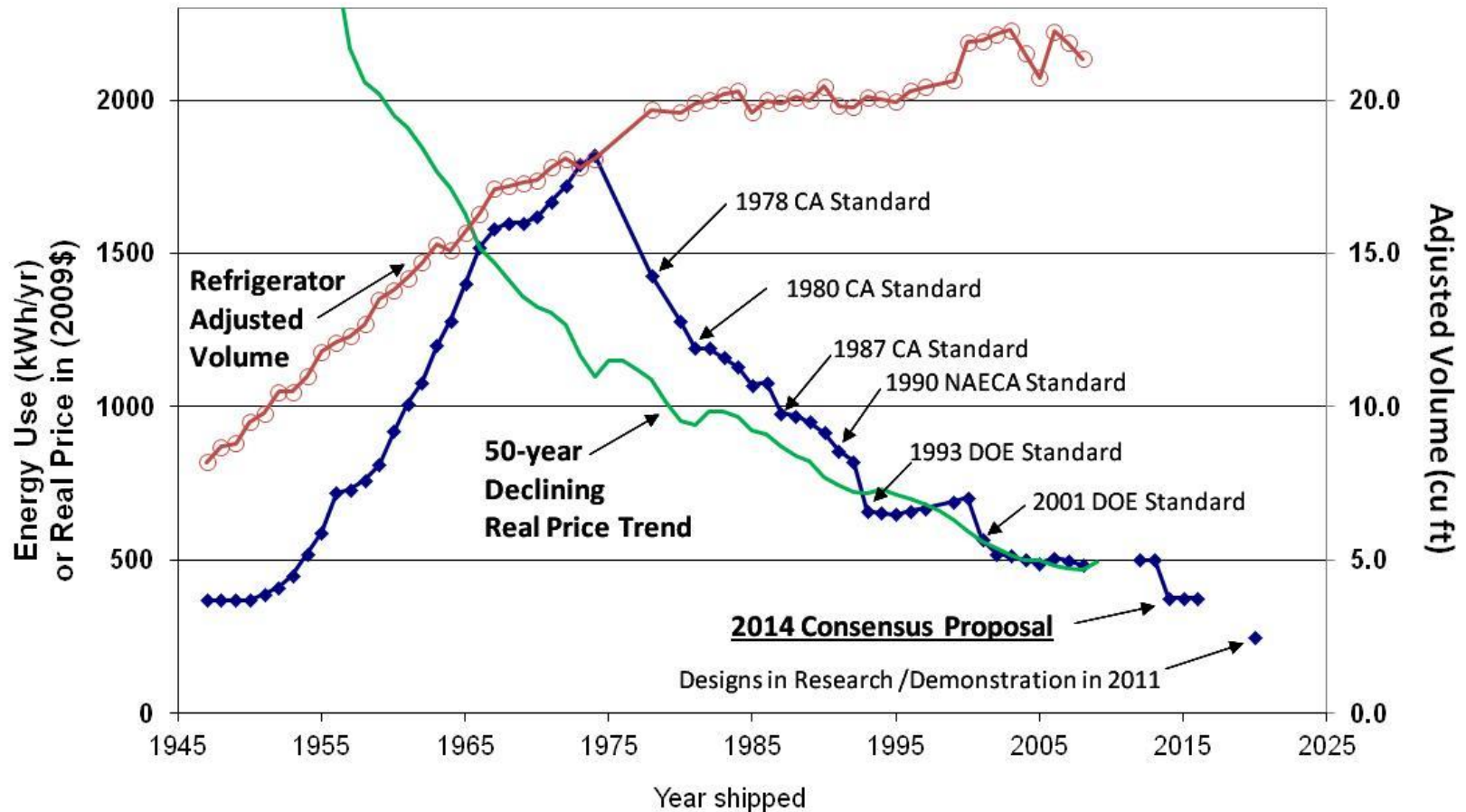
Employing current best practices in SEAD economies can by 2030 reduce annual electricity demand by 2000 TWh (equivalent to 650 mid-sized power plants) and annual fuel energy demand by 30 million metric tons of oil equivalent.





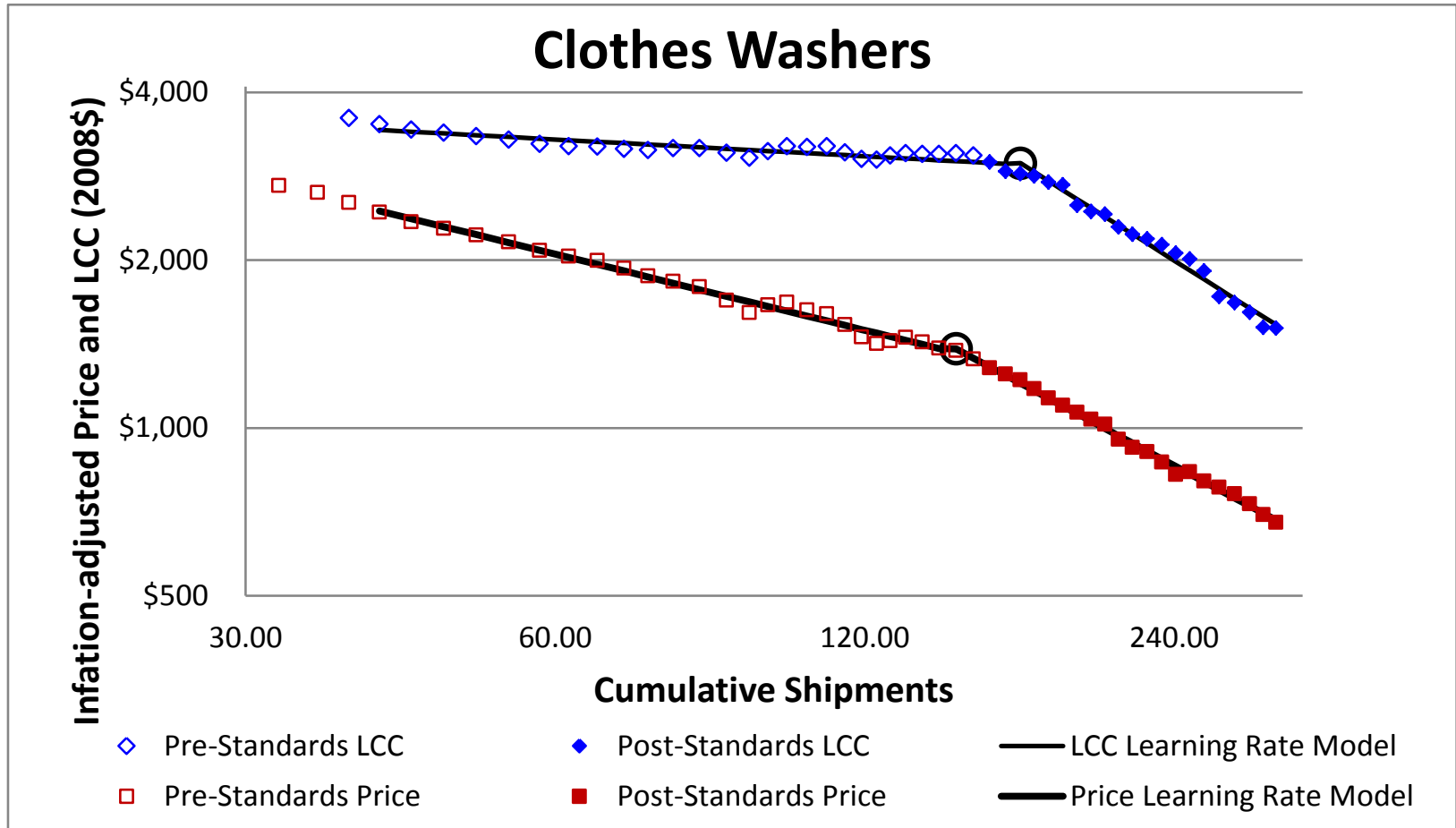
Annual Energy Use, Volume and Real Price of New Refrigerators

Sources: AHAM Factbooks, Rosenfeld 1999 and Bureau of Labor Statistics



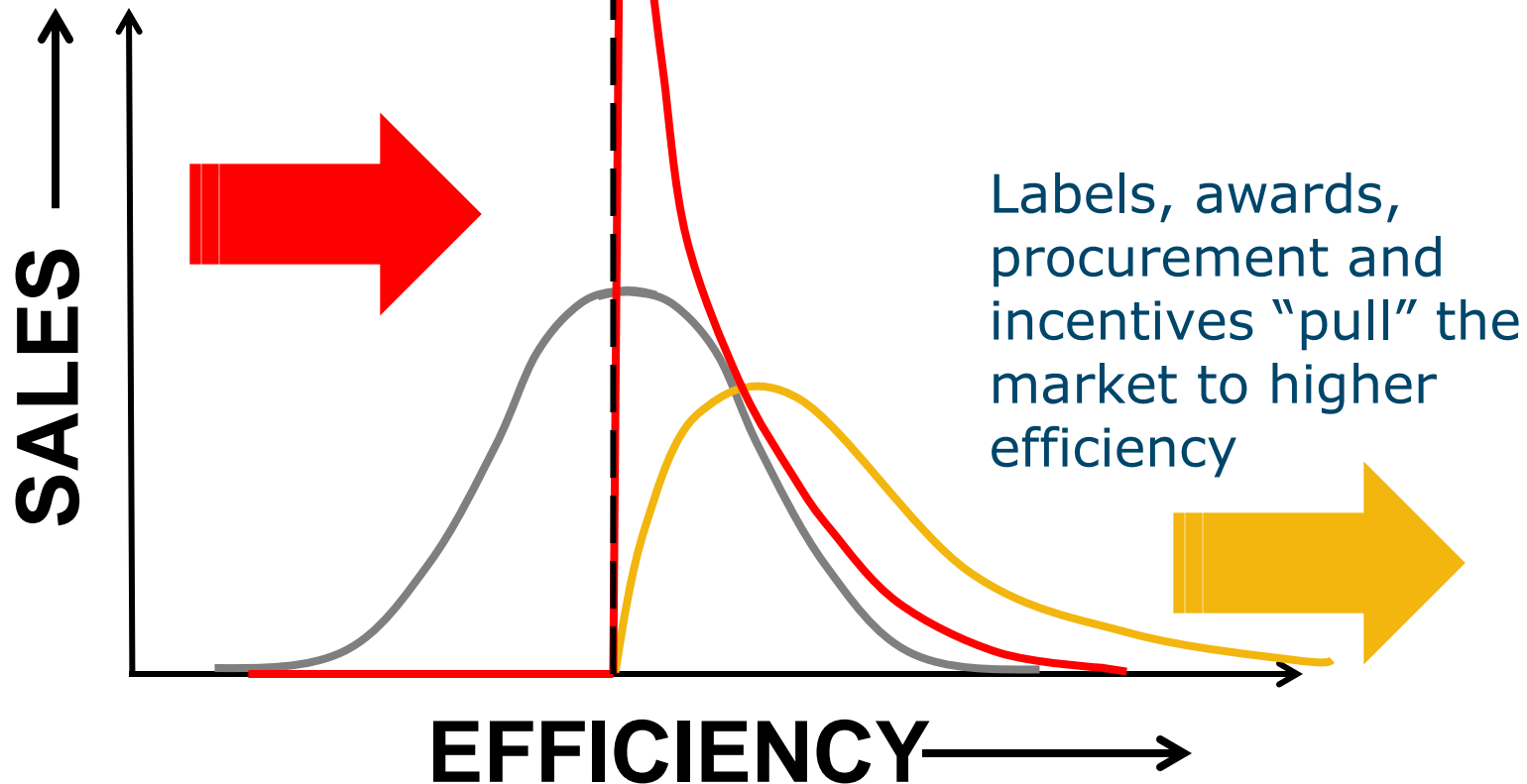


Efficiency Doesn't Cost As Much as you Think





Minimum standards
"push" the market
to higher efficiency





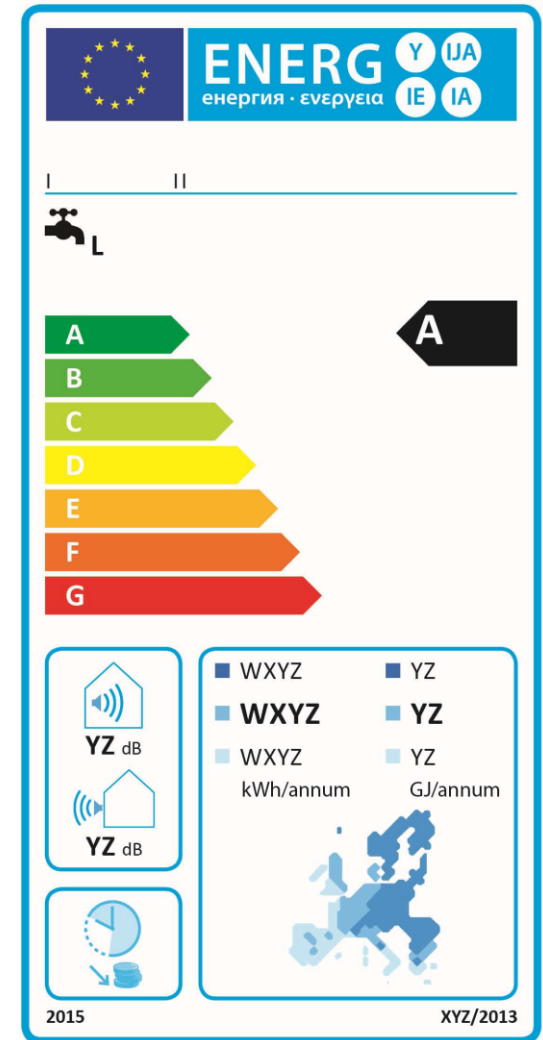
More than one way to approach appliance S & L

- European Union

- Long-standing successful comparative labeling program
- Recently introduced MEPS
- Broad Coverage

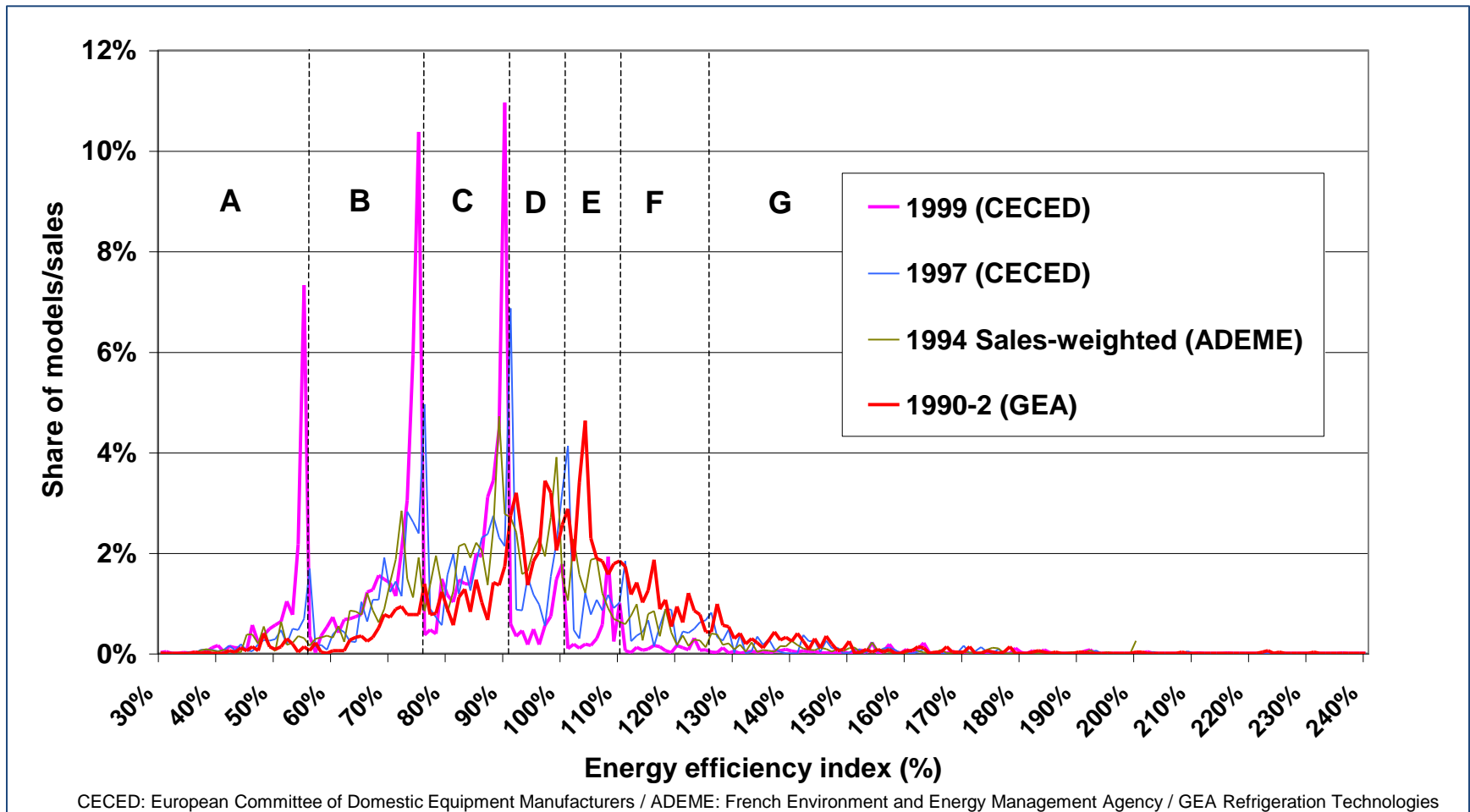
- United States

- Periodic updates of aggressive MEPS with long lead times
- Based on rigorous analysis of cost-effectiveness – can go beyond current market





EU Refrigerator Example: Clustering at Category Limits and Improvement in Mean Energy Performance



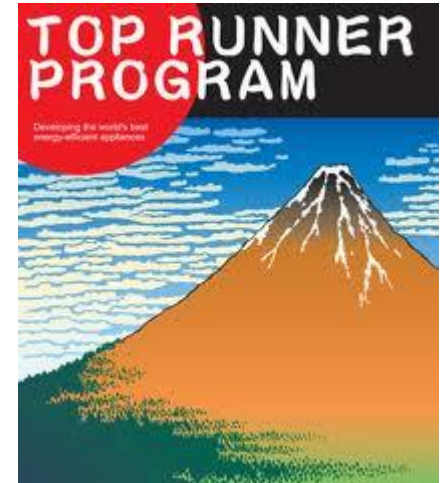
Source: Waide ECEEE (2001), http://www.eceee.org/conference_proceedings/eceee/2001/Panel_5/p5_16/



More than one way to approach appliance S & L

- Japan

- *Top-Runner* program sets most efficient model in the market as next “fleet standard”
- Japanese market possibly the world’s most efficient



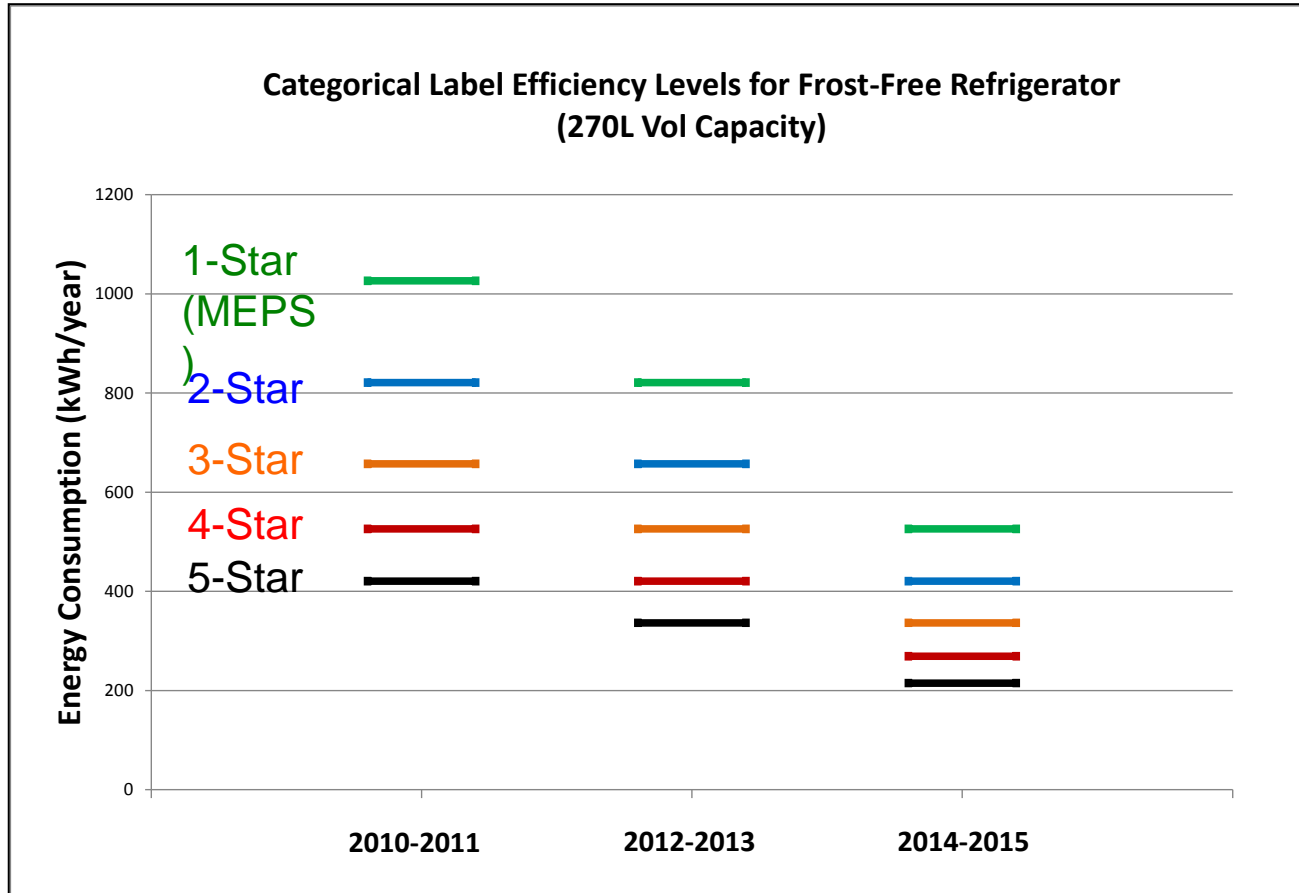
- India

- 5 – star program with lenient MEPS at 1-star level.
- Pre-announced scheduling of 1-star level ratcheting every one or two years
- Still voluntary for many products





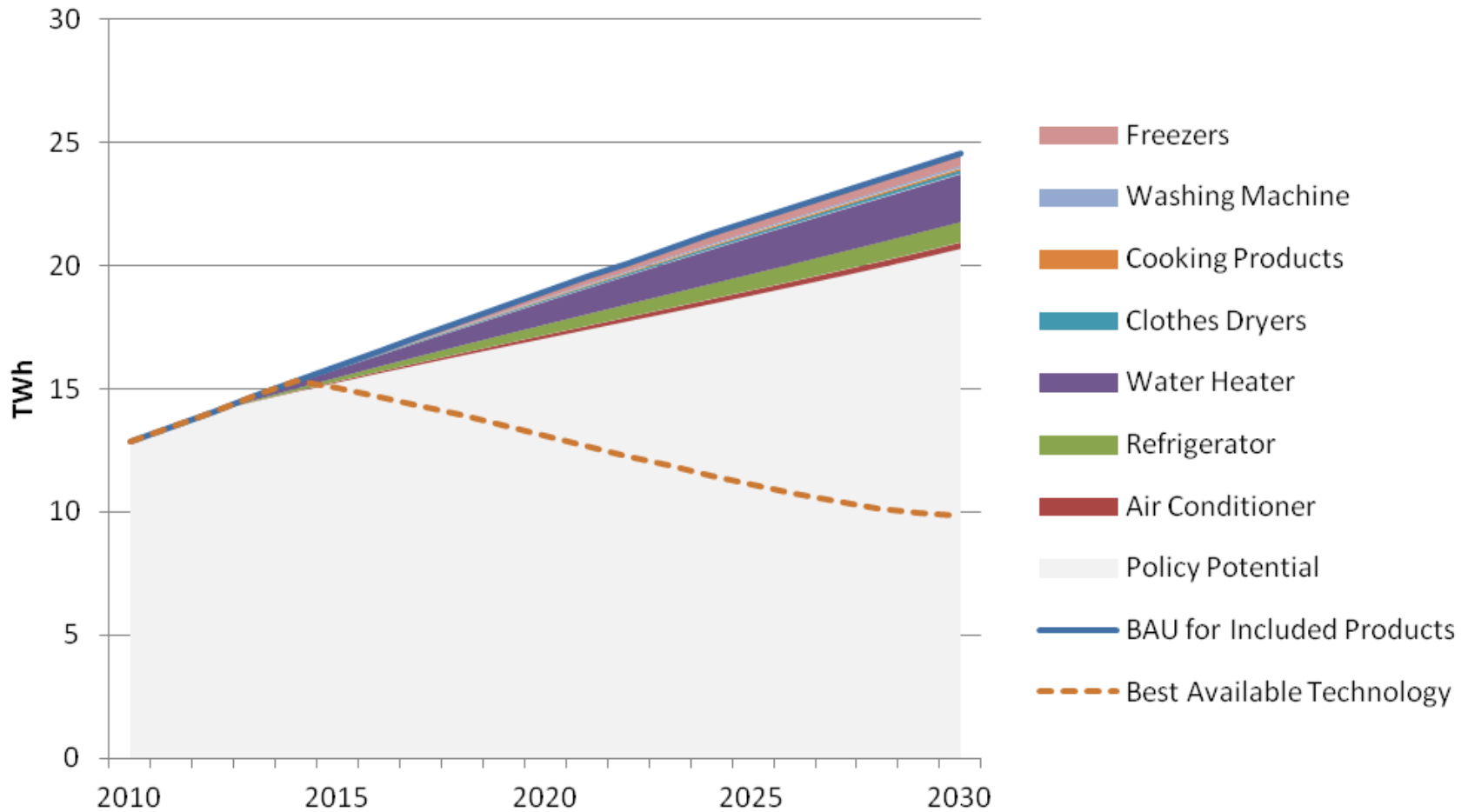
India Example: Integrated MEPS and Labeling with Planned Efficiency Level Changes



Data: BEE; Graphic: LBNL



Cost-Effective Efficiency Could Flatten Residential Electricity Demand in South Africa

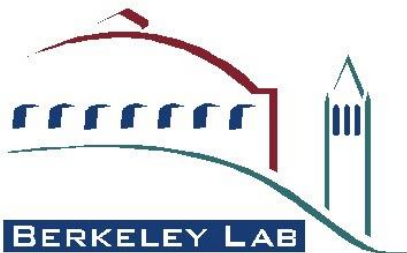


Source: BUENAS, DTI



Thank You!

U.S. Department of Energy (DOE)
Lawrence Berkeley National Laboratory (LBNL)
Collaborative Labeling and Appliance Standards Program (CLASP)



U.S. DEPARTMENT OF
ENERGY

