

# Conformity Assessment Case Study: ENERGY STAR



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Derek Greenauer  
Director, Global Government Affairs  
UL LLC  
[Derek.Greenauer@ul.com](mailto:Derek.Greenauer@ul.com)

# Agenda

**ENERGY STAR Background**

**Initial Approach to Conformity Assessment**

**Government Accountability Office**

**New Approach to Conformity Assessment**

**Summary**



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## **ENERGY STAR Background**

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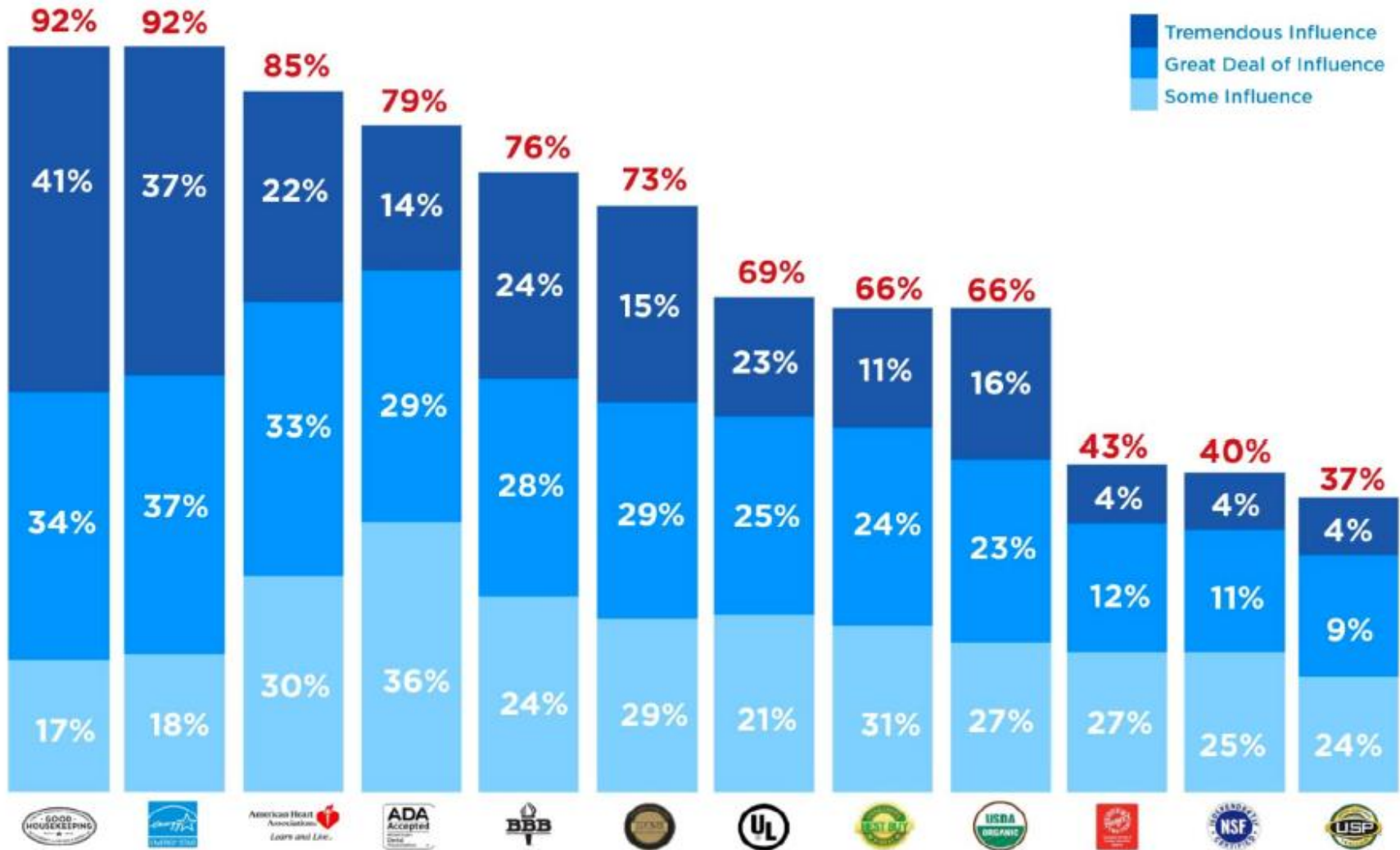


# ENERGY STAR - Background

- Voluntary program
- Established in 1992 to identify energy efficient products
- Managed by US EPA and US DOE
- >70 Product Categories
- >1.6 Million Homes
- >25,000 Commercial Buildings
- >18,000 Partners
  - Manufacturers, Retailers, Utilities, Home Builders, Building Owners, etc...



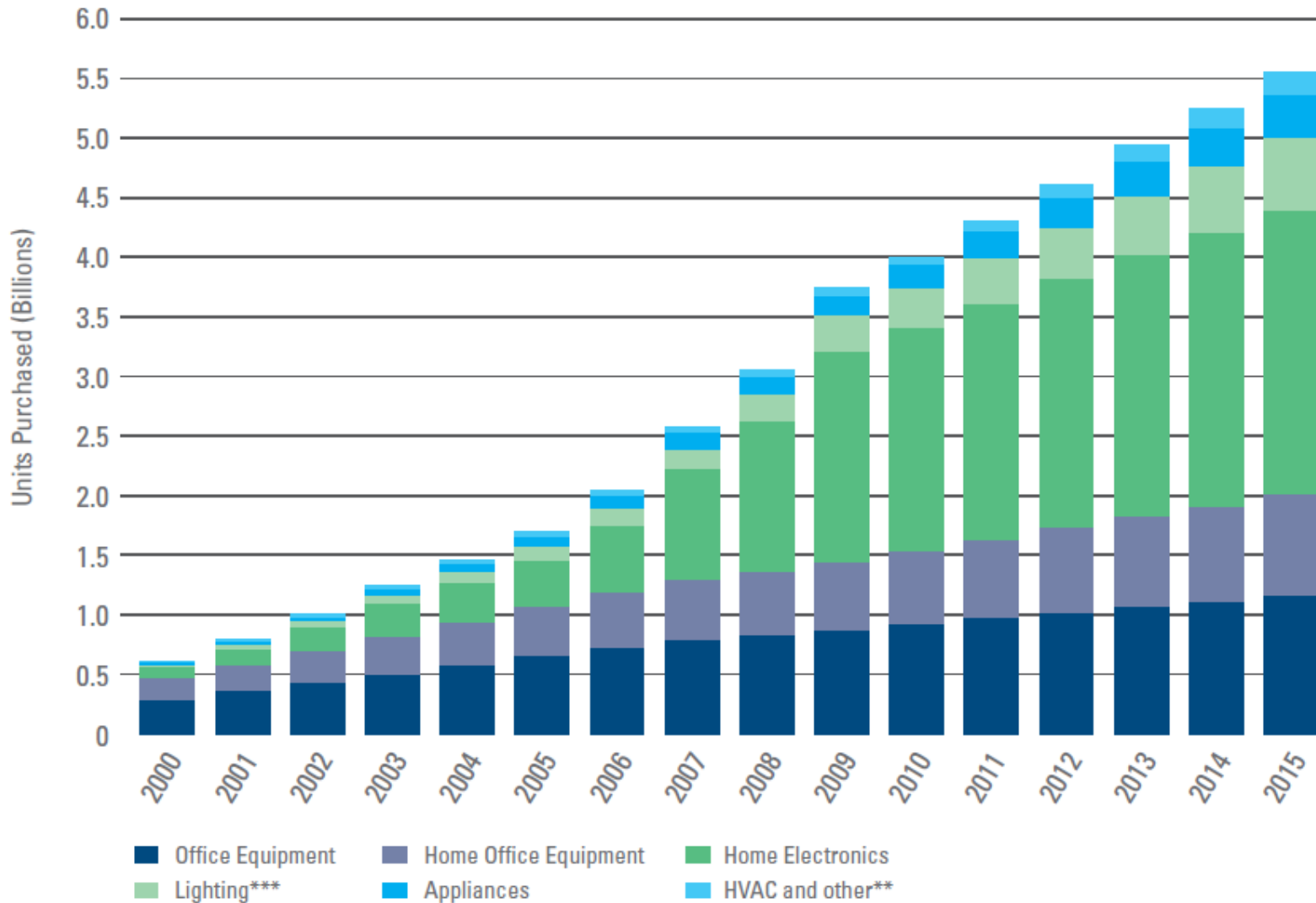
# Trusted & well-recognized brand



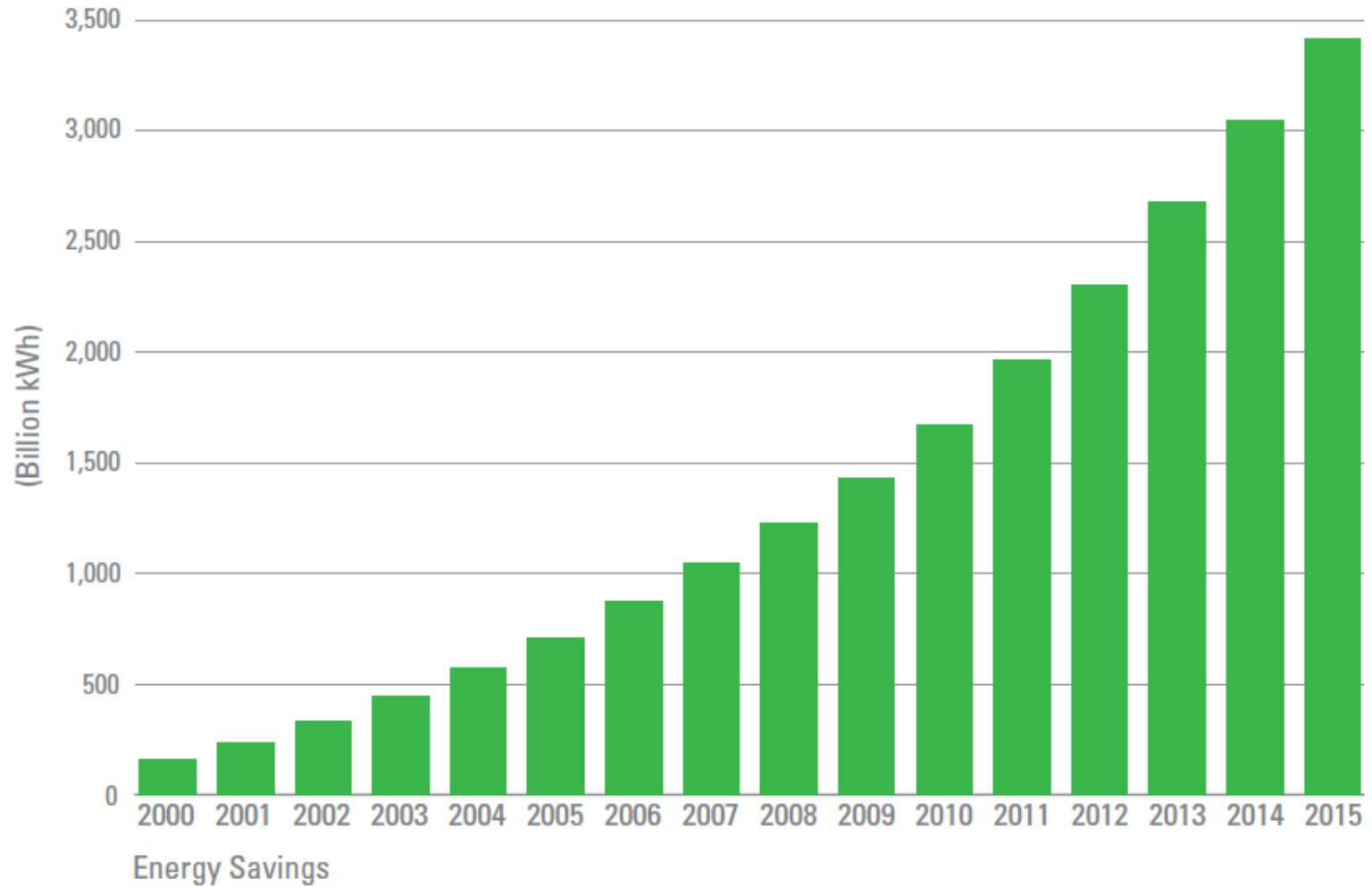
SOURCE: Fairfield Research, July 2011



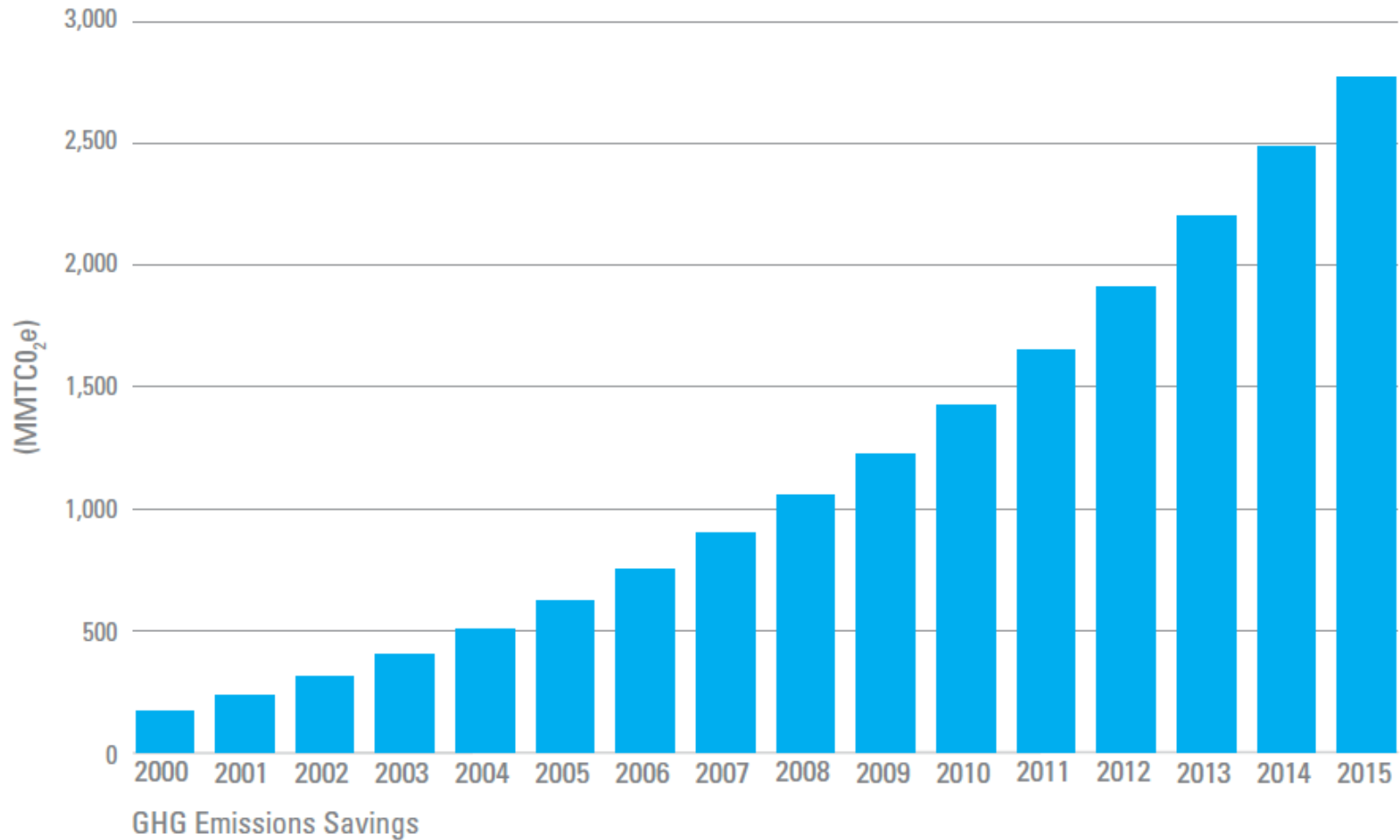
# ENERGY STAR Success – Cumulative Sales



# ENERGY STAR Success – Energy Savings



# ENERGY STAR Success – Reduced Emissions





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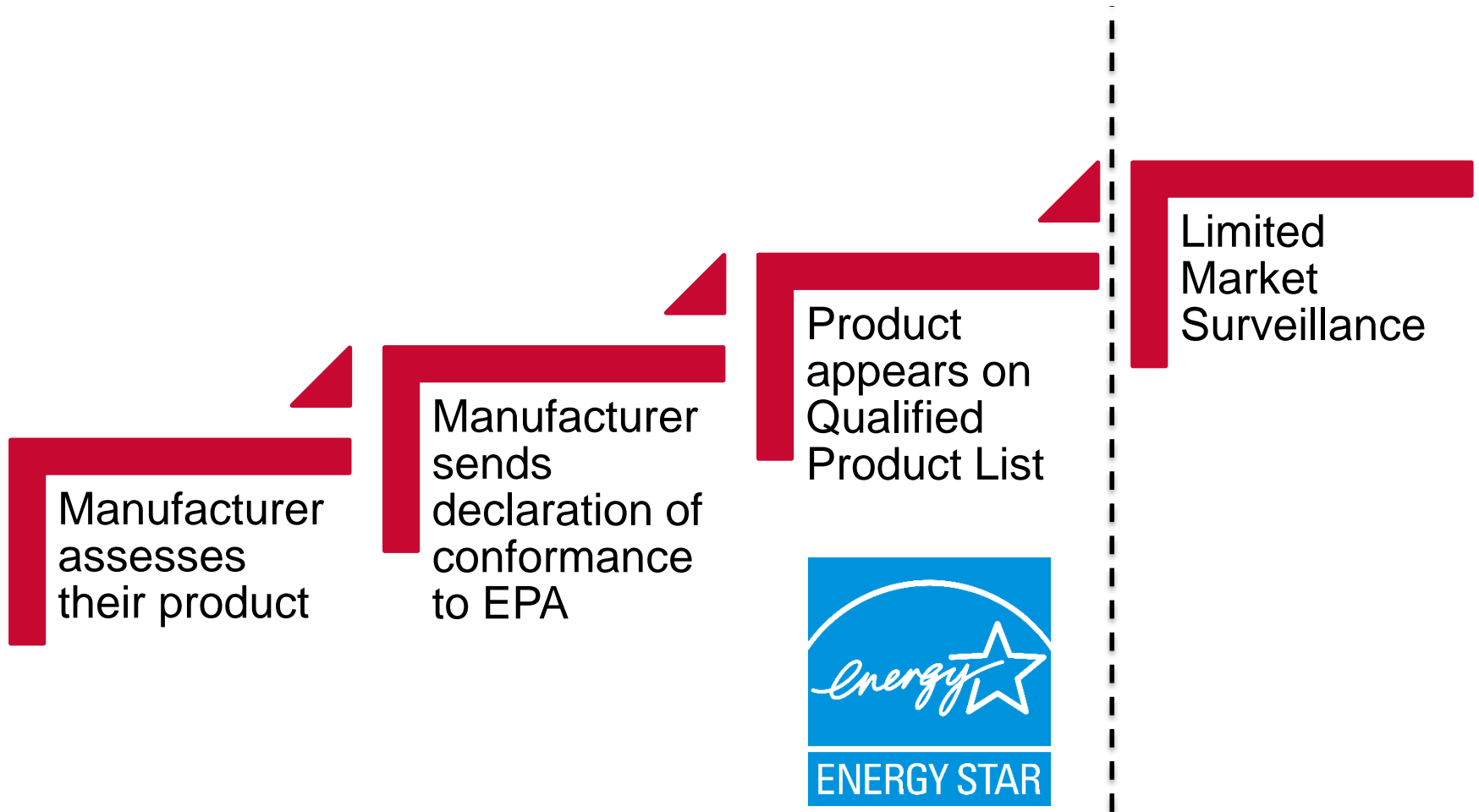
Government Accountability Office

New Approach to Conformity Assessment

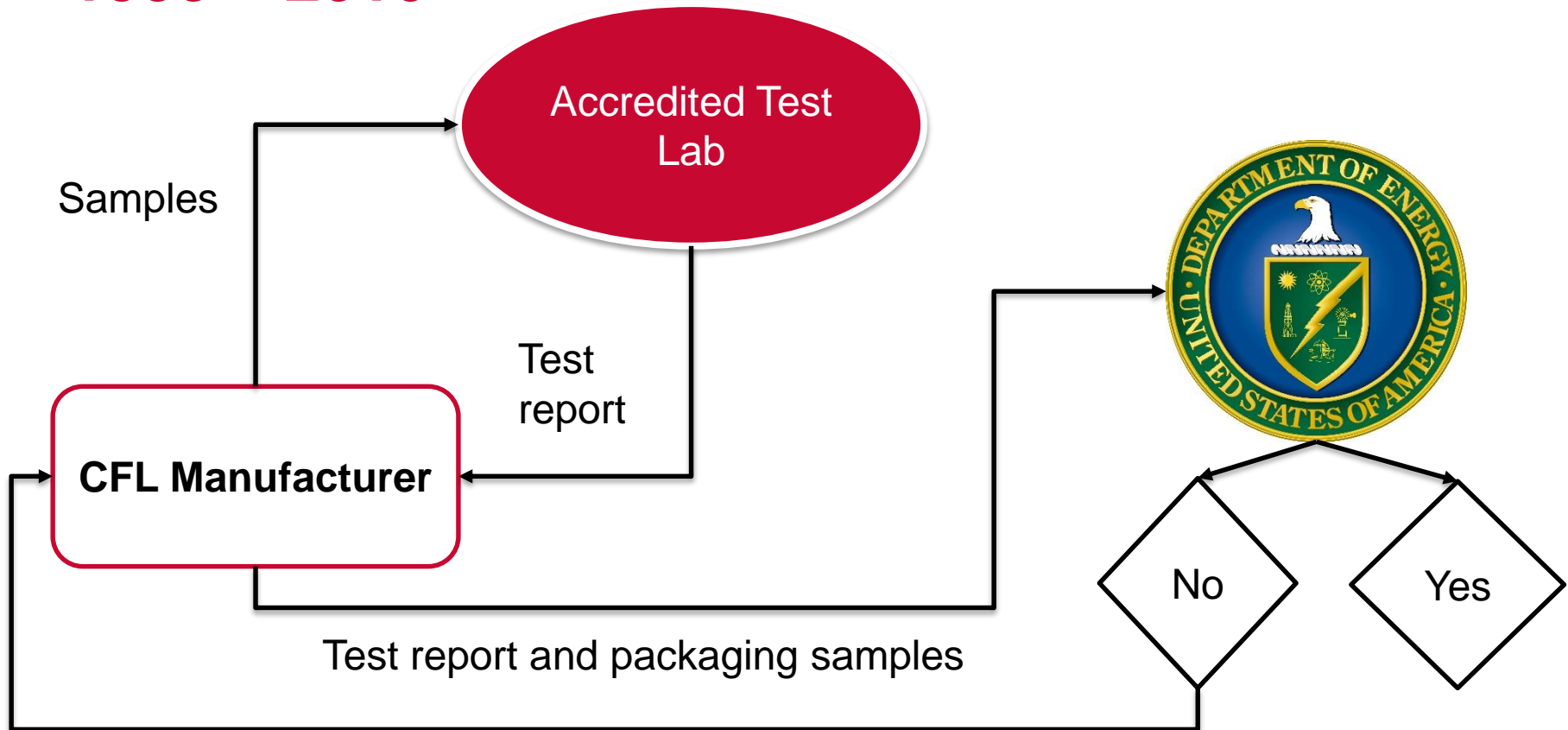
Summary



# ENERGY STAR Conformity Assessment: 1992 - 2010



# ENERGY STAR CFL Conformity Assessment: 1999 – 2010



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# US GAO Study



The screenshot shows the Energy Star OPS Tool interface. A dashed box highlights the Energy Star logo in the top left corner, with an arrow pointing to the product details on the right. The product details include:

- Product:** Clock Radio
- Model Number:** BLACK GOLD
- Spec Version:** Audio Video Version 2.0 (CURRENT)
- Effective Dates:** 11/16/2008 through Present
- Product Eligible for Qualification?** Yes
- Spec Details:** Product meets all requirements
- Product Type:** Clock Radio
- Product Marketing Description:** Gas-powered clock radio is sleek, durable, easy on your electric bill, and surprisingly quiet.
- Height:** 18.00 inches
- Width:** 15.00 inches
- Depth:** 10.00 inches

Source: Energy Star OPS Tool.

# GAO Findings

“GAO found that for our bogus products, certification controls were ineffective primarily because Energy Star does not verify energy-savings data reported by manufacturers. Energy Star required only 4 of the 20 products GAO submitted for certification to be verified by an independent third party.”



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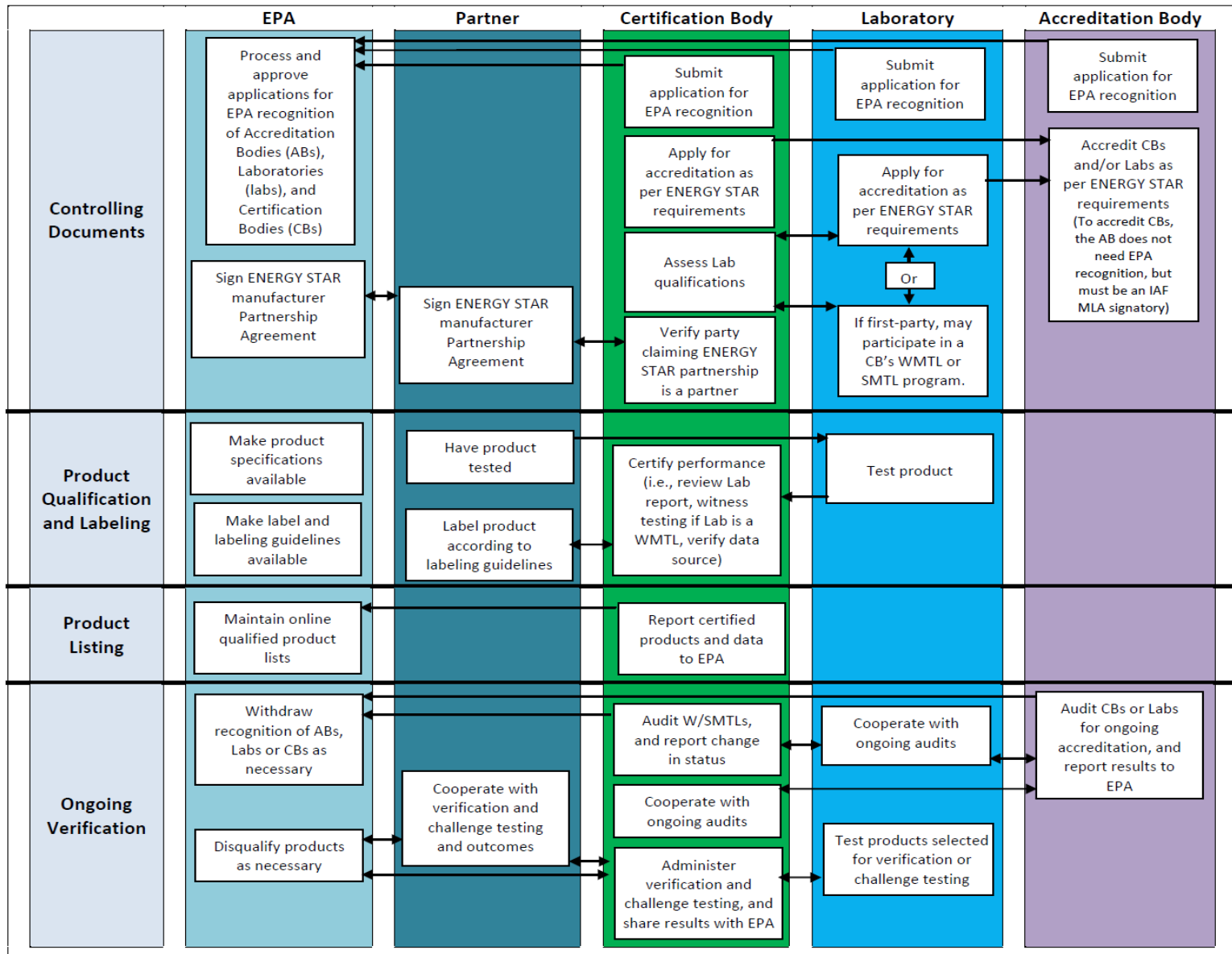
Government Accountability Office Report

**New Approach to Conformity Assessment**

Summary

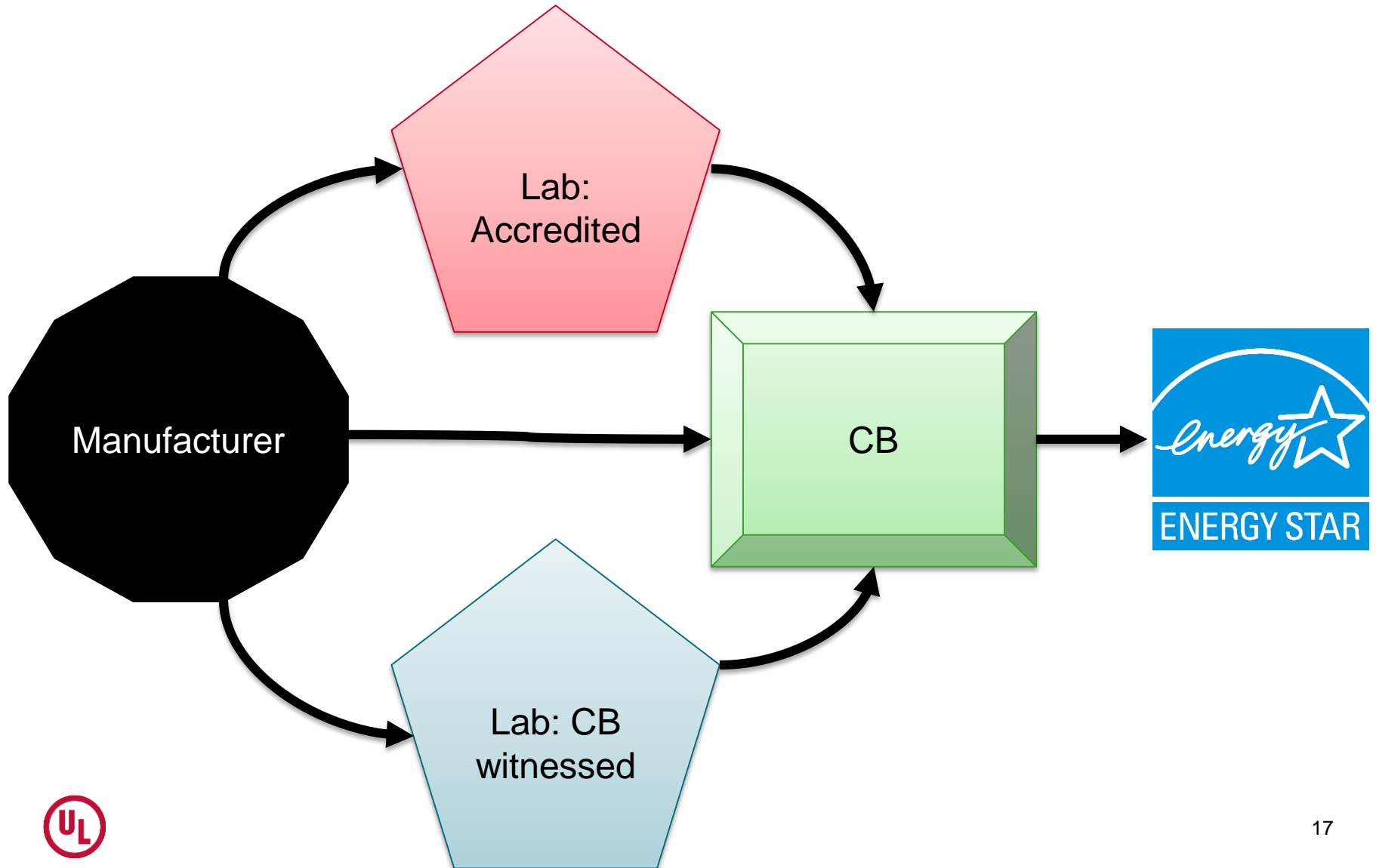


# New Approach to Conformity Assessment

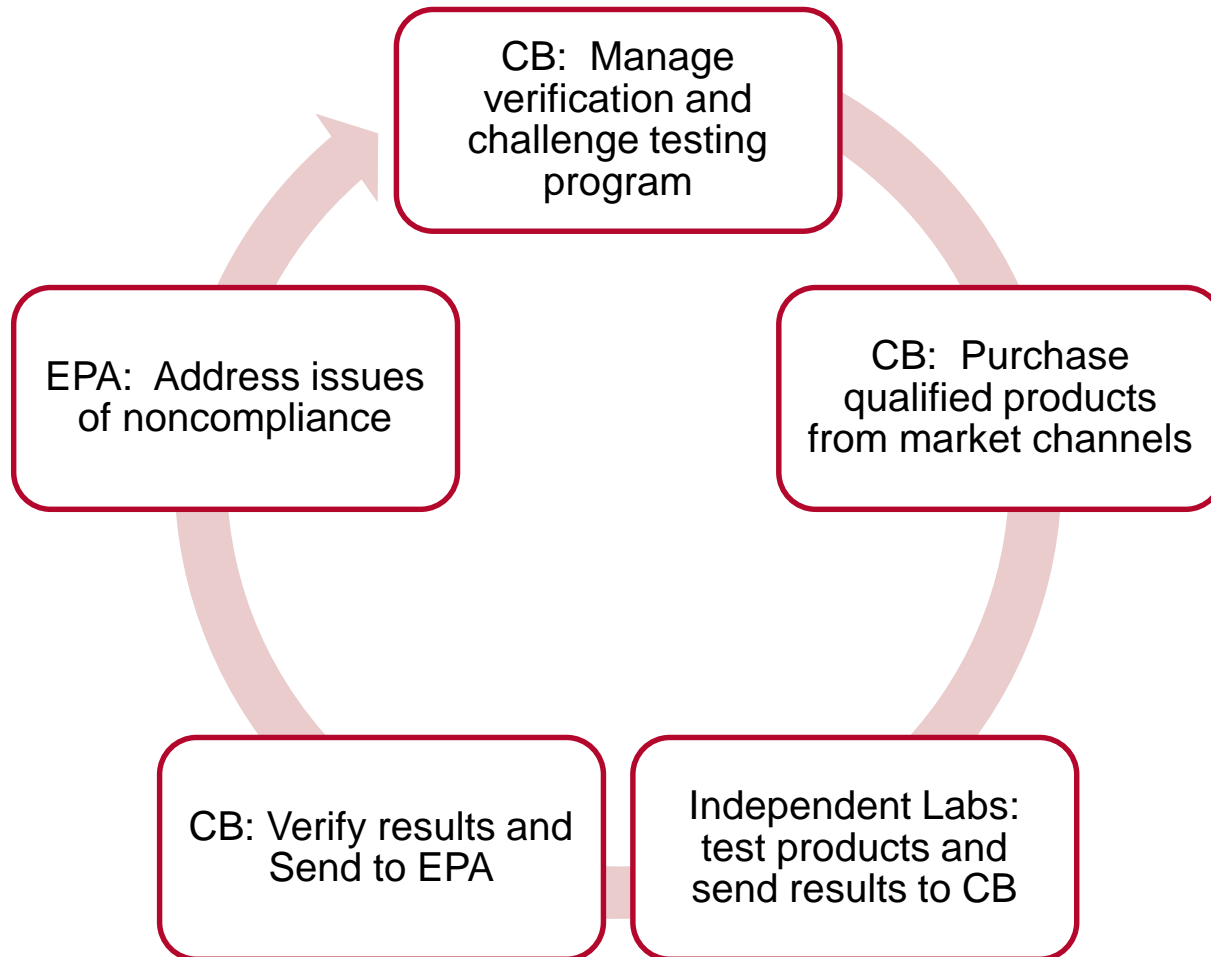




# New Approach to Conformity Assessment: Initial Certification



# New Approach to Conformity Assessment: Ongoing Verification



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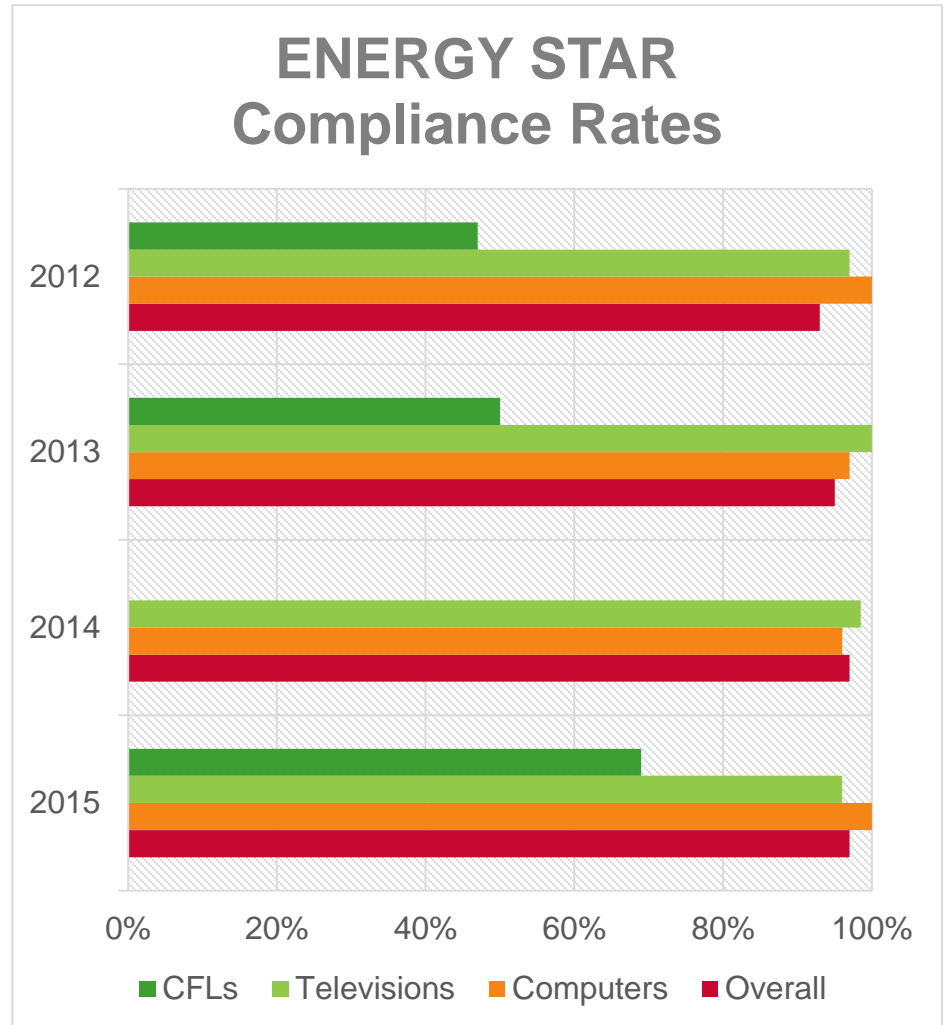
# Results

Robust Pre-market model

Strengthened Market Surveillance

Shift public-sector model to private-sector

Repaired consumer confidence



**Thank you**

