



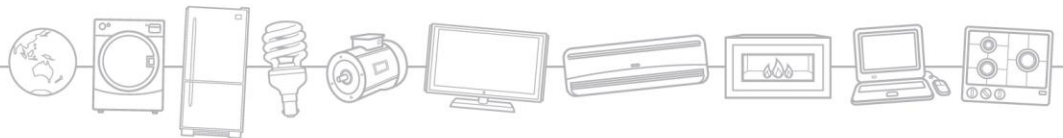
# The History of E3 Check Testing

**Simone Tiele, 17 October 2011**

A joint initiative of Australian, State and Territory and New Zealand Governments.

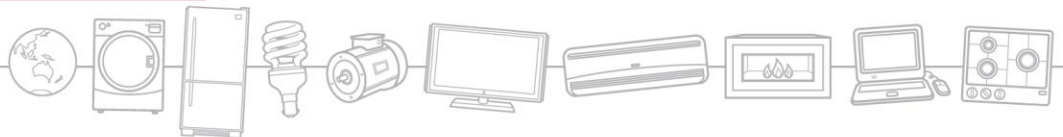
# Today

- Milestone of 1000 check tests reached in 2010
- ‘Performance Verified’ analyses the results, 1991-2010
- 1<sup>st</sup> half 2011 results in additional report



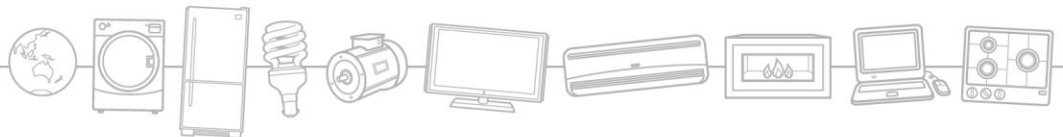
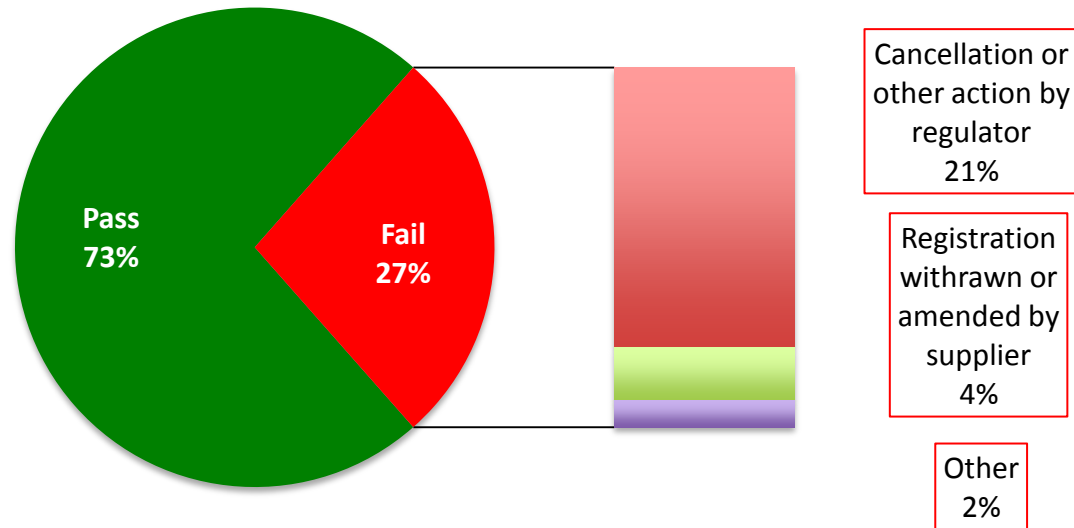
# Check testing

- to ensure that the projected energy and greenhouse gas savings are delivered
  - to safeguard the integrity of program
    - maintaining consumer and industry confidence in the energy performance labels
  - to protect the investment made by suppliers producing compliant equipment
    - from being undercut by non-compliant products.
- Stage 1
    - ‘screen test’ on a single model
    - independent NATA lab
    - paid by Govt
  - Stage 2
    - multiple models
    - independent NATA lab
    - paid by supplier
  - Determination by regulator
    - Possible deregistration

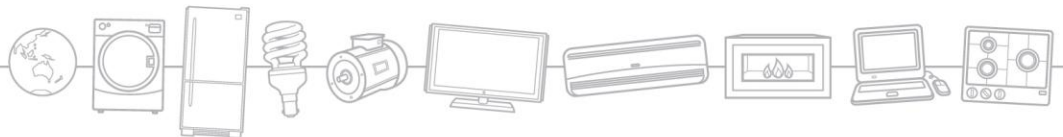
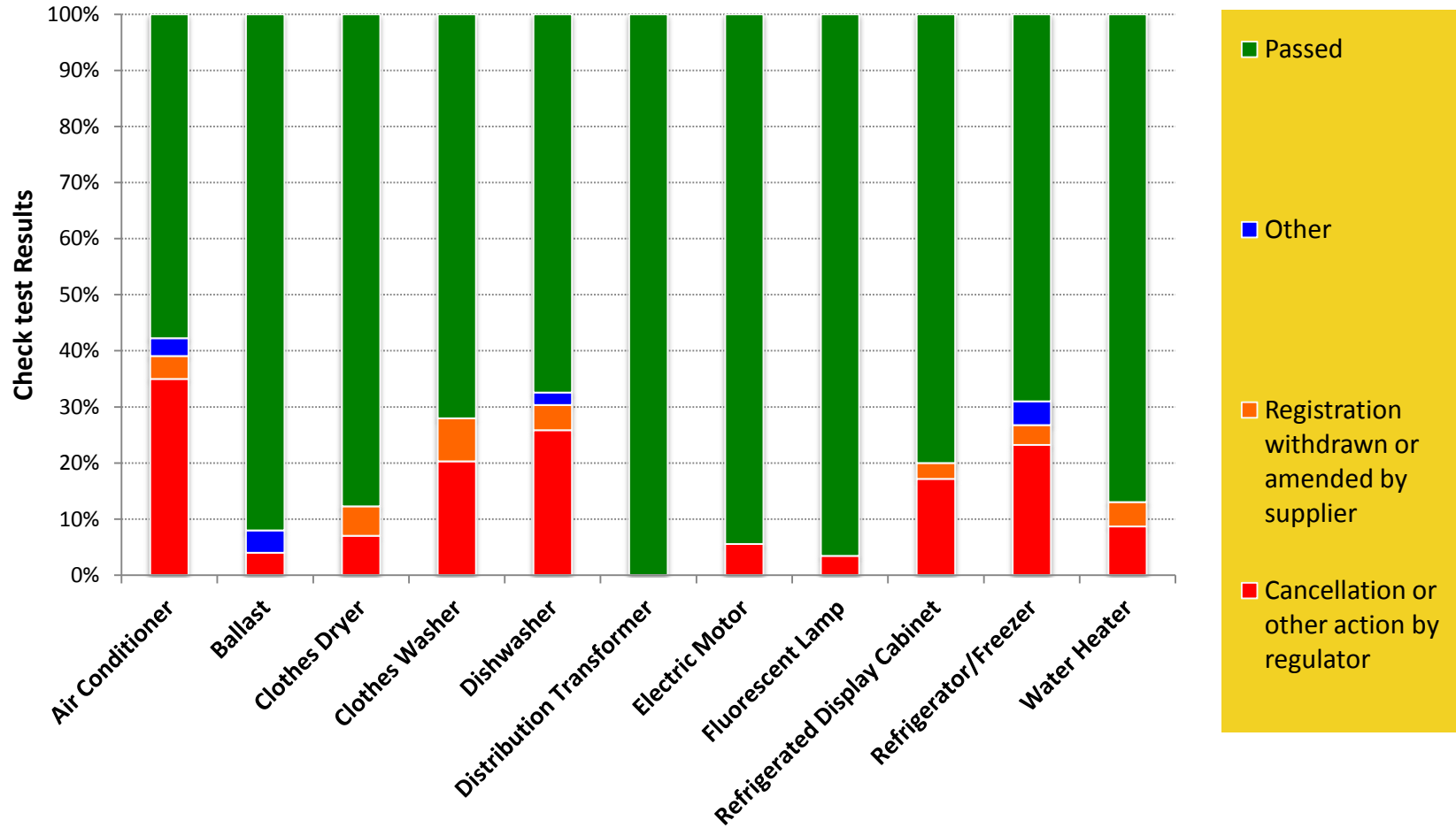


# Key results

- 79% of all products deemed to pass by regulators
- 39% failed stage 1
- 27% failed stage 2



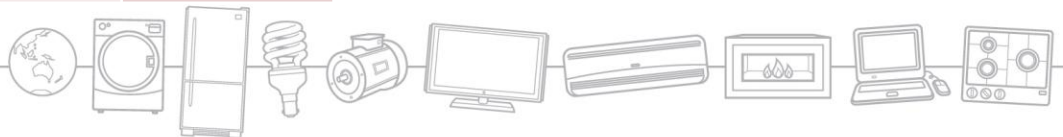
# Results by Product Category



# Observations

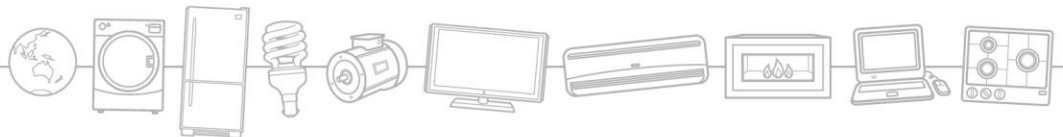
	Sample	Fail stage 1	Fail stage 2
Air Conditioner	220	52%	42%
Ballast	25	24%	8%
Clothes Dryer	57	26%	12%
Clothes Washer	143	52%	29%
Dishwasher	89	43%	33%
Distribution Transformer	5	0%	0%
Electric Motor	90	12%	6%
Fluorescent Lamp	29	3%	3%
Refrigerated Display Cabinet	35	29%	20%
Refrigerator/Freezer	284	40%	31%
Water Heater	23	13%	13%
TOTAL	1000	39%	28%

- Sample sizes disproportionate
  - To failure rate
  - To number of registered products
  - To energy consumption



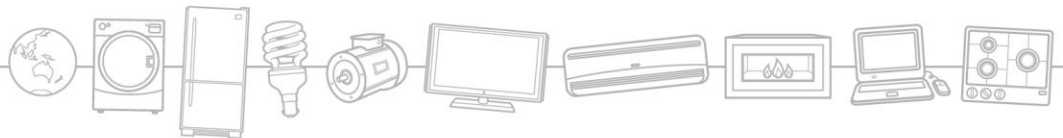
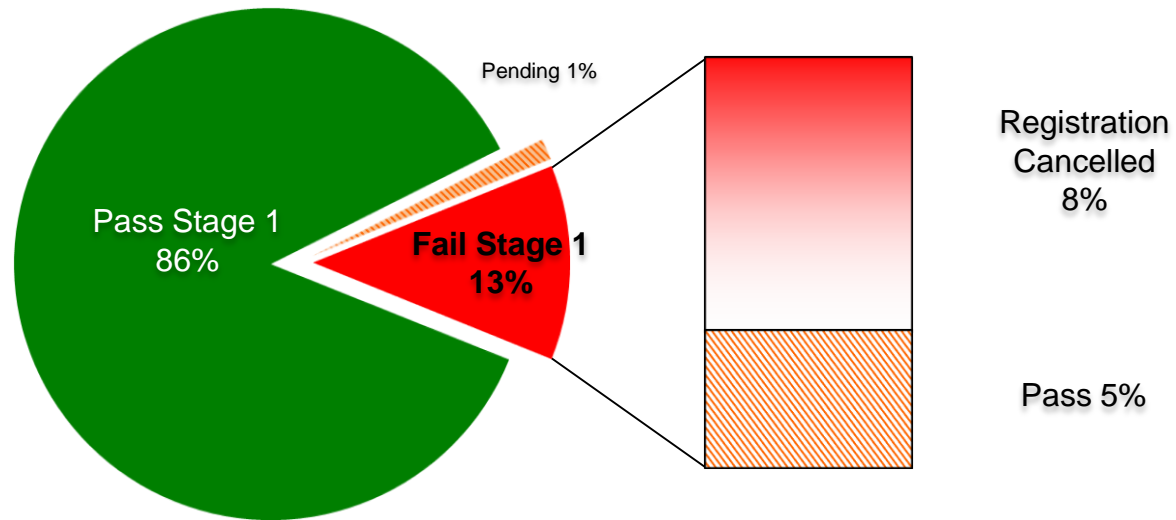
# Recommendations

- Allocate future check testing more equitably amongst the categories of regulated equipment
- Explore trends by brands
  - Identify better or worse performing brands
- Investigating the reasons for the variation in the rate of failure at stage 2 testing amongst categories of equipment

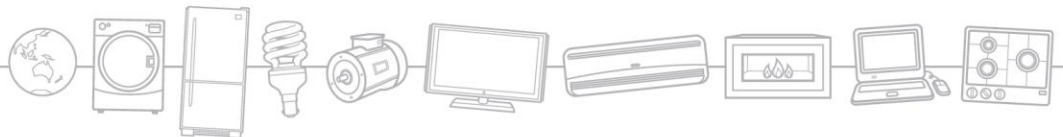
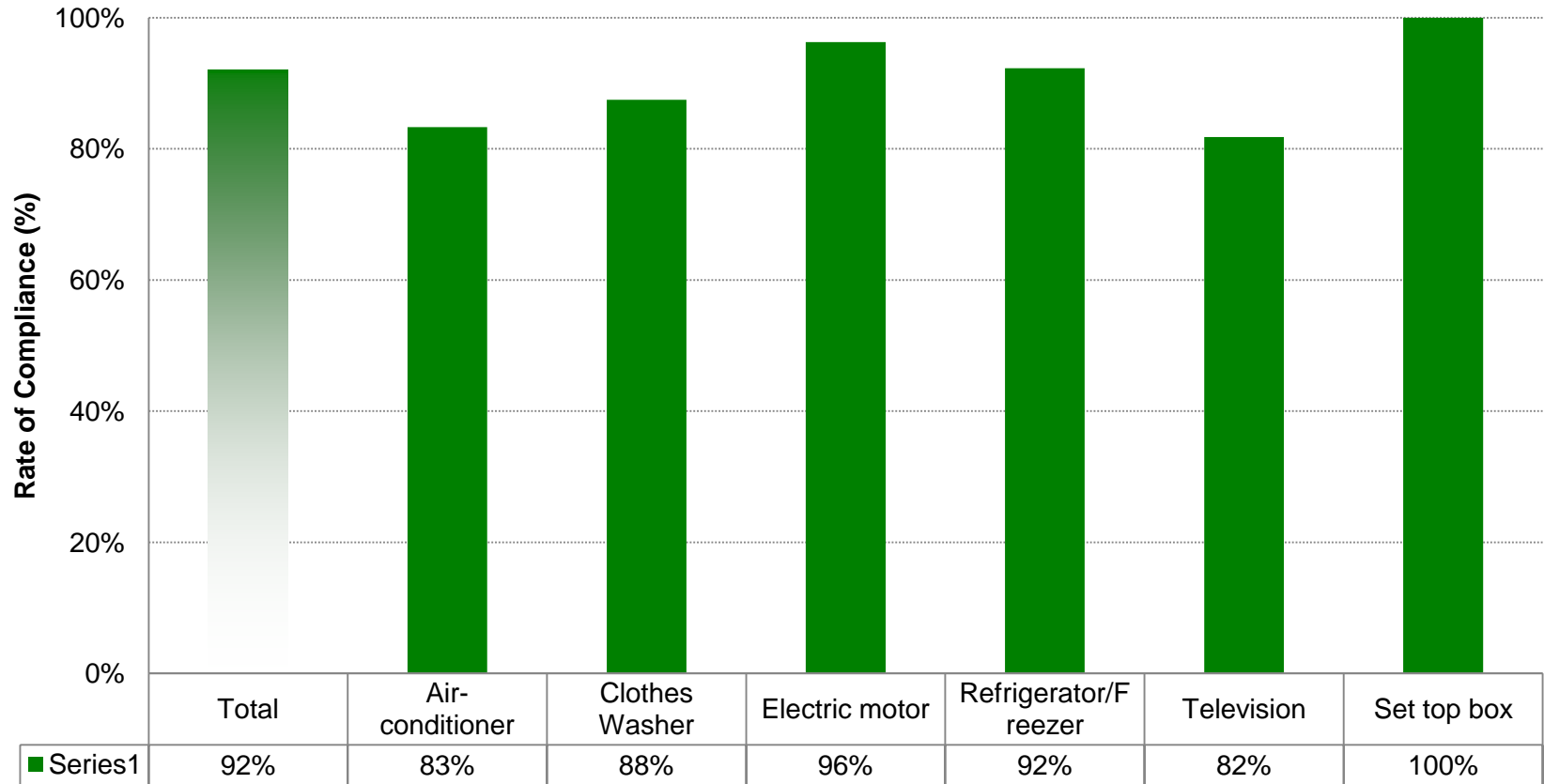


# 2011 Results

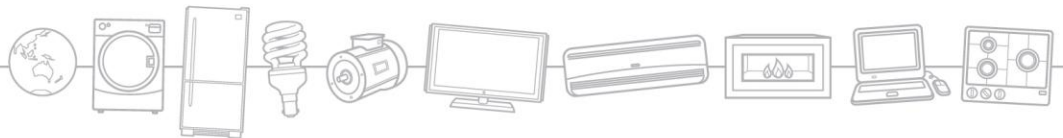
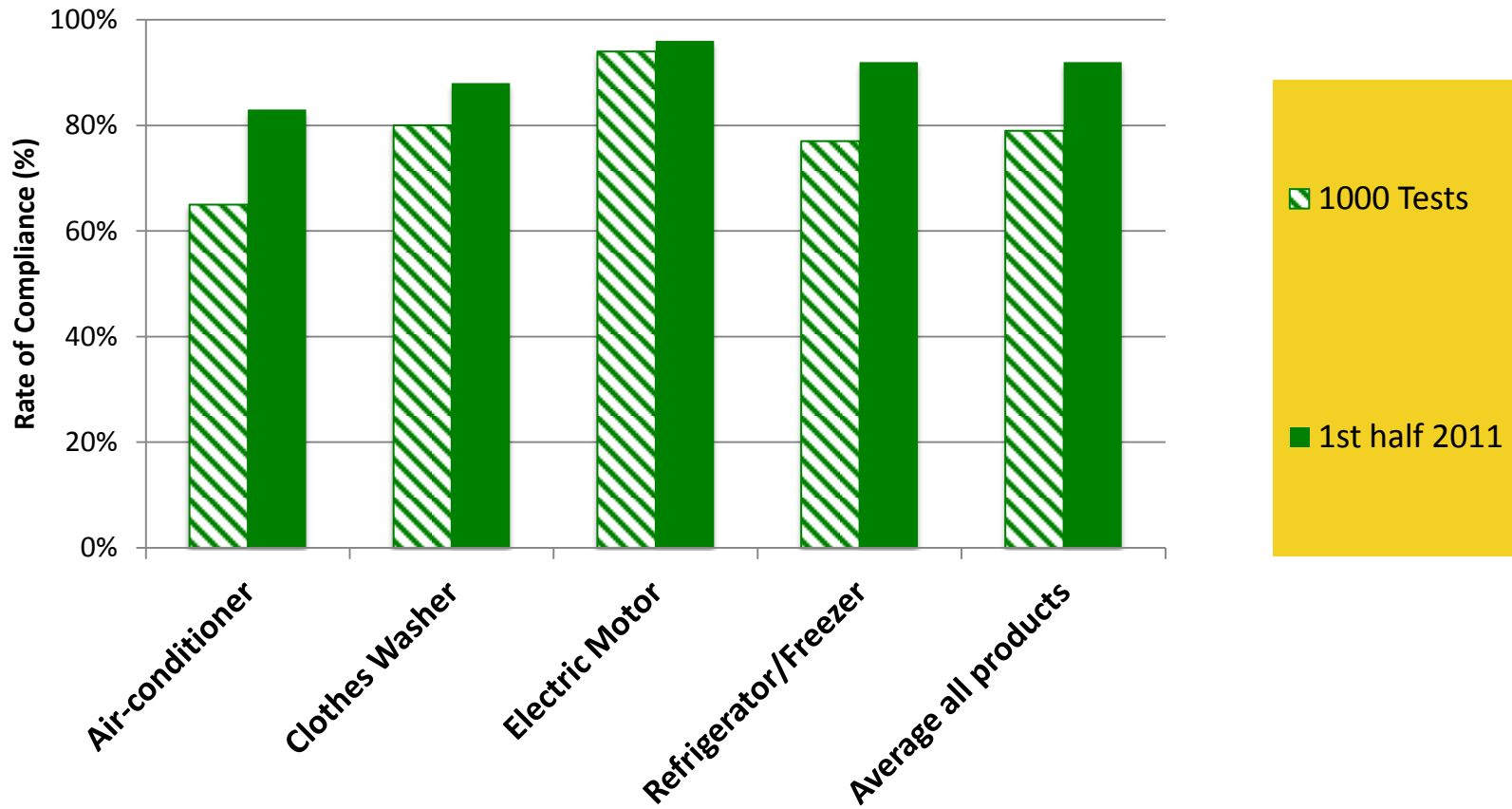
- 75 tests initiated
- 92% deemed to comply



# Results by Product Category



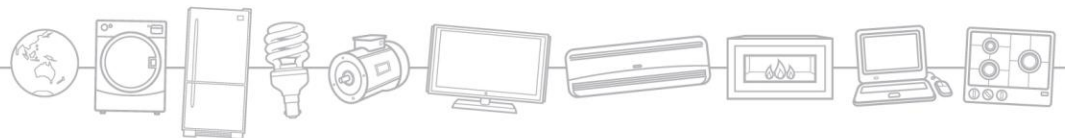
# Results by Product Category



# Supporting laboratory reports

- Many new labs providing test reports
  - Regulators have little knowledge of capabilities
  - 52 labs for the 75 products
  - Spanning 14 countries
  - 50% based in China

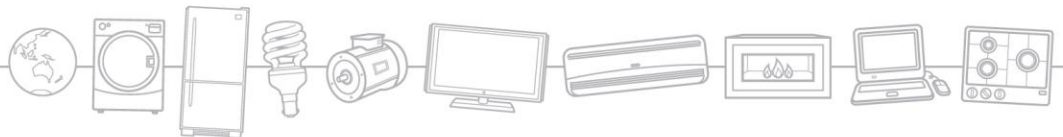
Test Laboratory	Country
Alliance Laundry Systems Test Lab	USA
Guangzhou Huesent Testing Services Co Ltd	CHN
TECHTOP SHANGHAI TOP MOTOR CO. LTD.	CHN
SHENZHEN EMTEK CO., LTD.	CHN
Midea Testing Centre	CHN
Korea Testing Laboratory	KOR



# Failures - Brands

- 6 non-compliant products all represent different brands
- Only one has prior history of non-compliance

Product Category	Brand
Clothes Washer	SPEED QUEEN
Television	PALSONIC
Electric Motor	SCORPION ELECTRIC MOTOR
Television	PANGOO
Air-conditioner	ECLIPSE
Refrigerator/Freezer	LG



# Progress

- Noticeable improvement in air conditioners
  - historically been amongst the least compliant products
- Addition of TVs & STBs a step towards covering all regulated product categories
  - further expansion of the testing program to include all regulated products is a priority over future months
- New selection criteria should improve targeting
- Latest report highlights risks from new testing facilities supporting registrations
  - E3 need to address this risk

