



Australian Government  
Department of Industry and Science

# AUSTRALIAN ENERGY EFFICIENCY POLICIES

## Asia Pacific Energy Research Centre Energy and Competitiveness Workshop

SAREA COATES

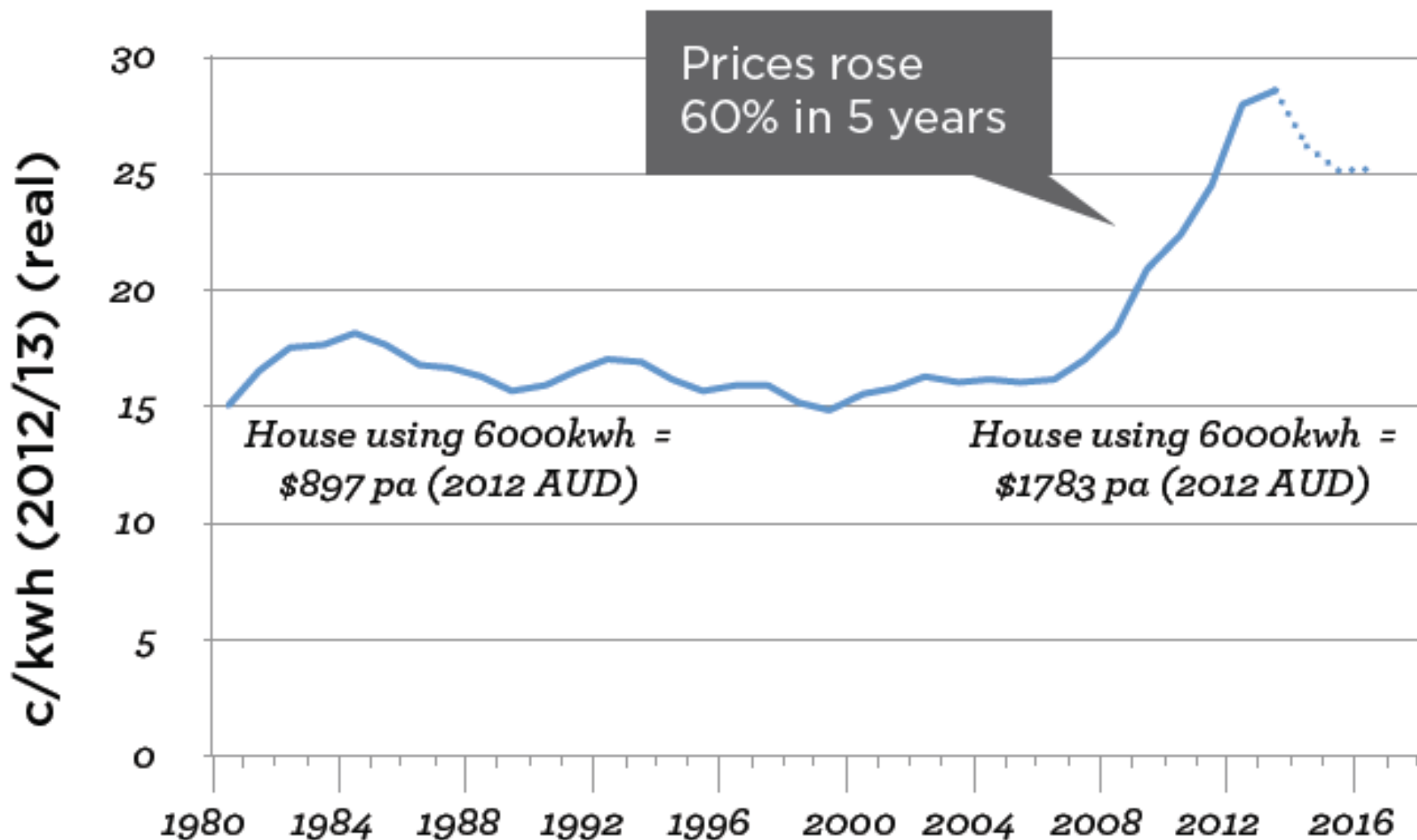
9 June 2015

- Australia's energy market is in a major point of transition
- Energy efficiency has had a big impact to date with many successful programs
- But we need to do more to remain competitive
  - National Energy Productivity Plan

# AUSTRALIA'S ENERGY MARKET IS IN A MAJOR TRANSITION

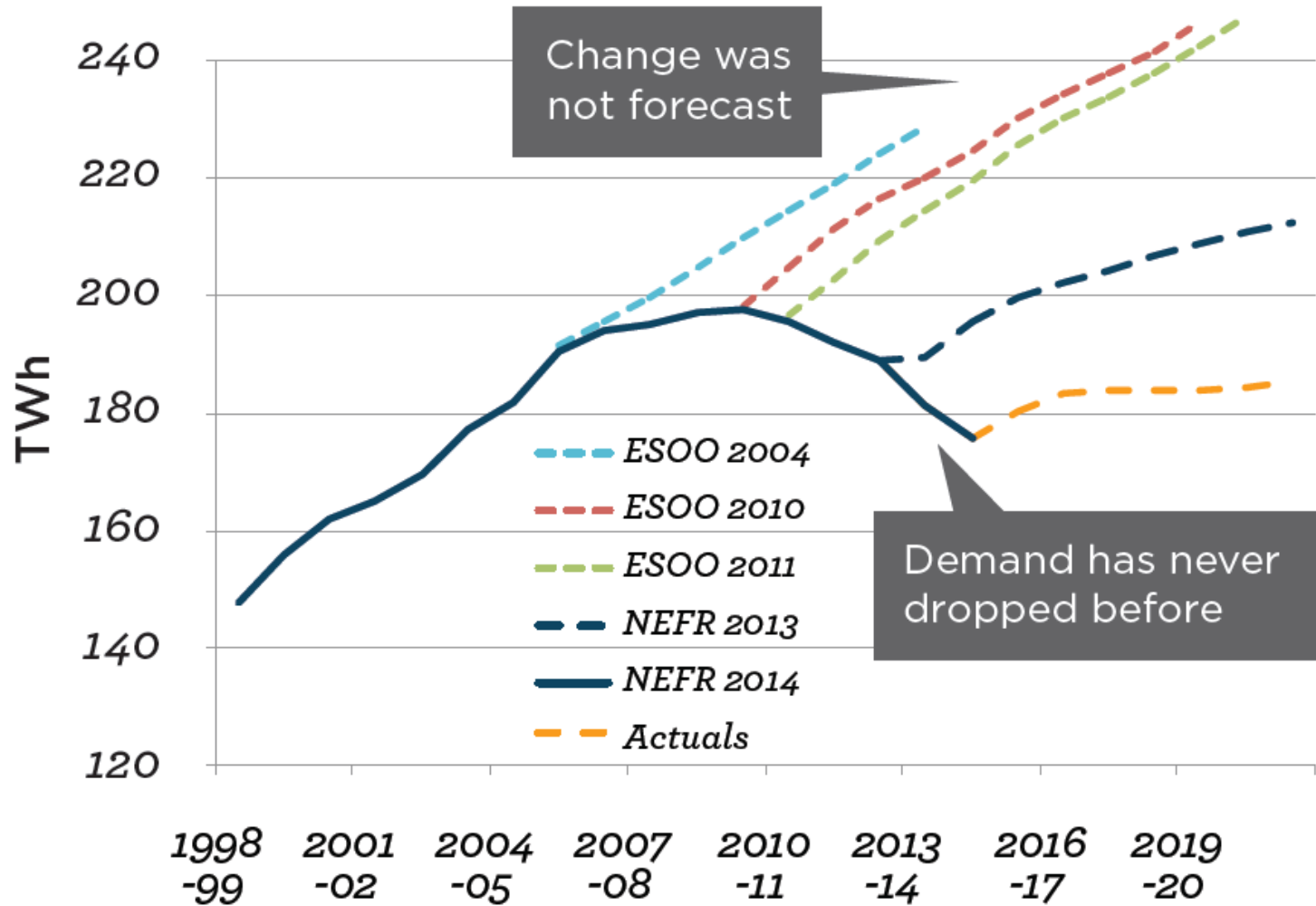
- Steep electricity and gas price rises
- Unexpected fall in average electricity demand
  - but no corresponding fall in peak demand
- Change needed to manage disruptive technologies
  - Rapid aircon and solar PV uptake
  - Storage and electric vehicles expected
- Introduction of smart meters and cost-reflective prices

# RAPID PRICE RISES

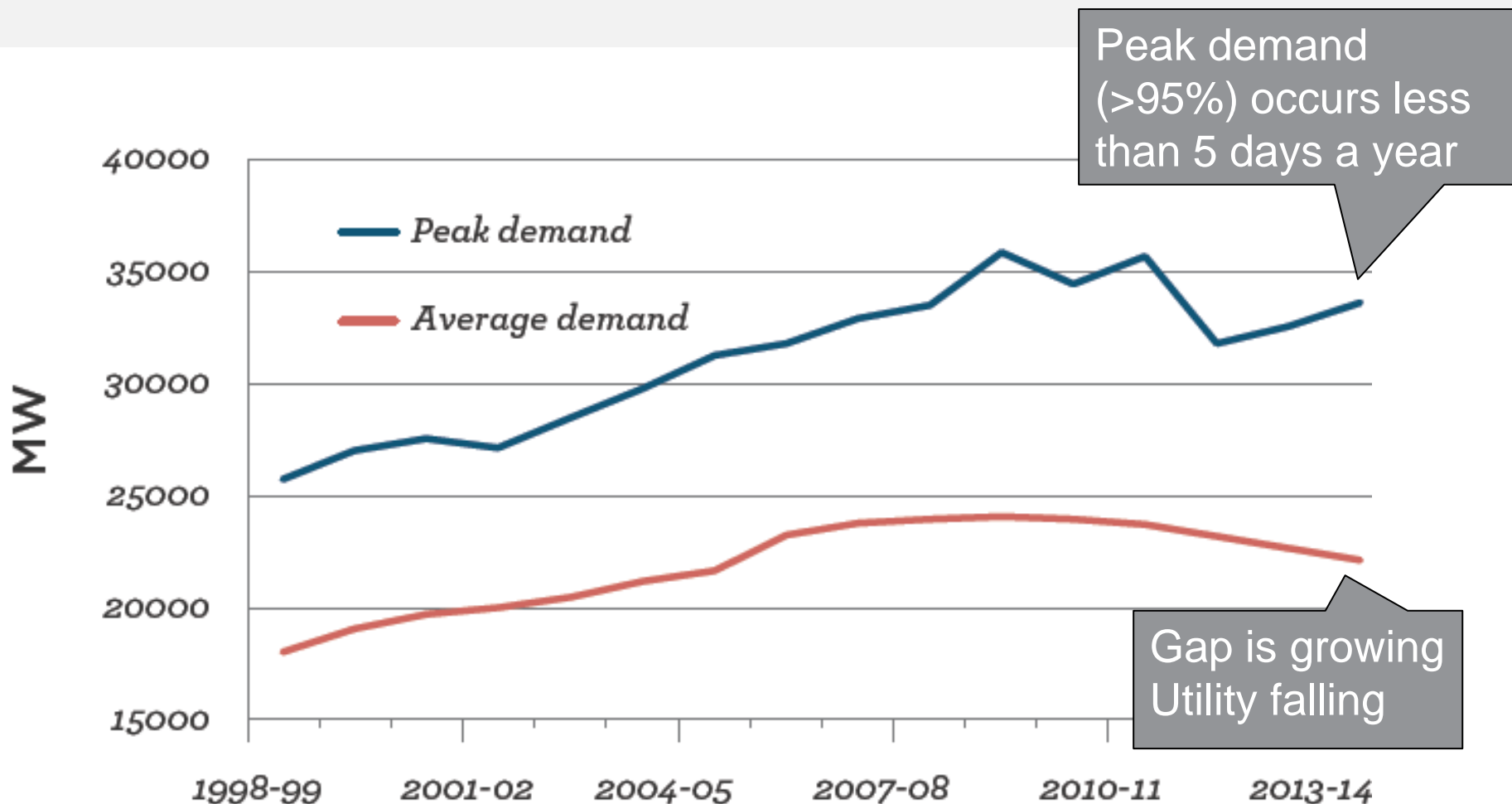


Source: ABS 6401.0 CPI Data and AEMC Residential Electricity Price Trends Report

# AUSTRALIA'S ELECTRICITY DEMAND IS FALLING – BUT WAS NOT FORECAST

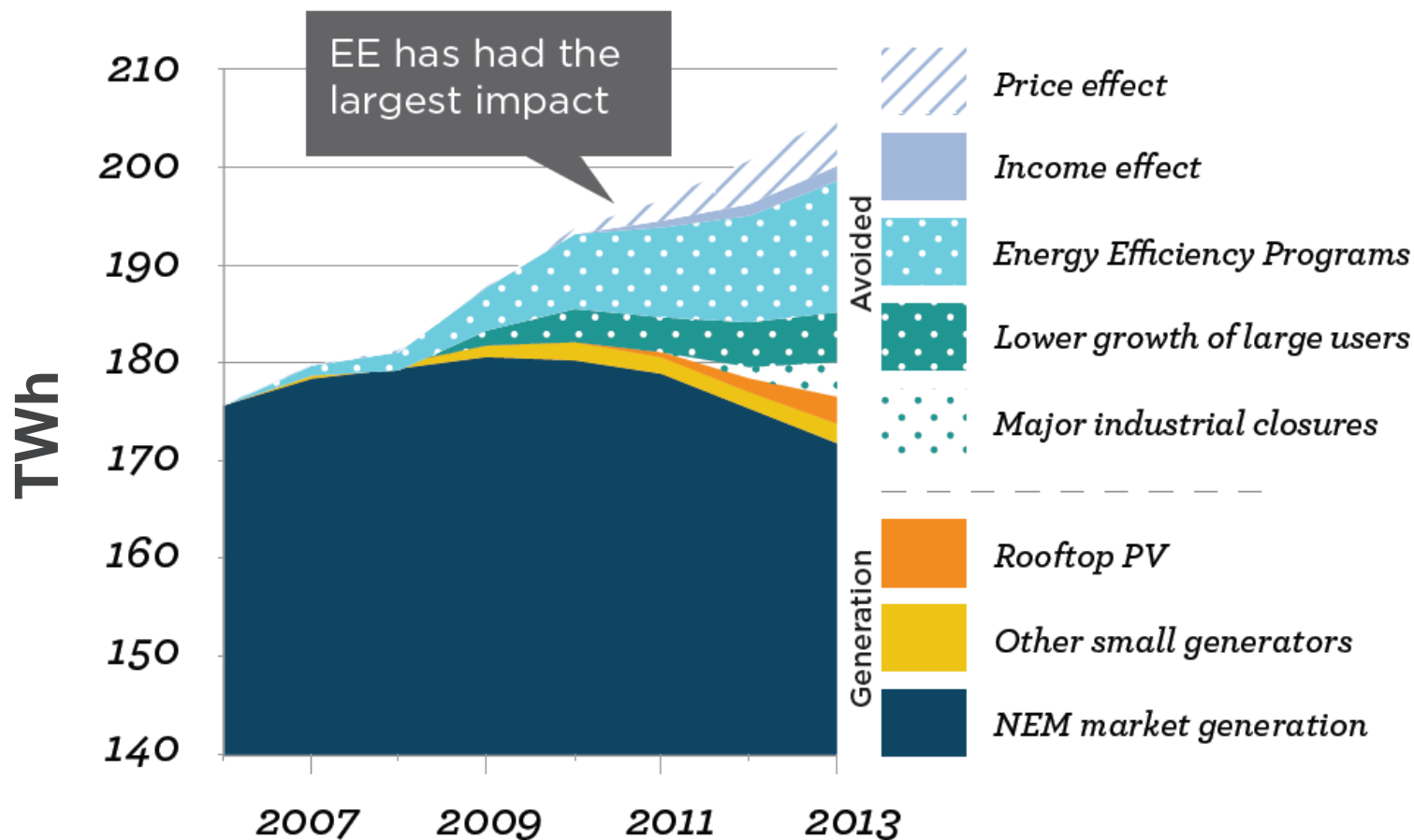


# PEAK DEMAND IS A LARGE PART OF THE CHALLENGE - DRIVING PRICES UP



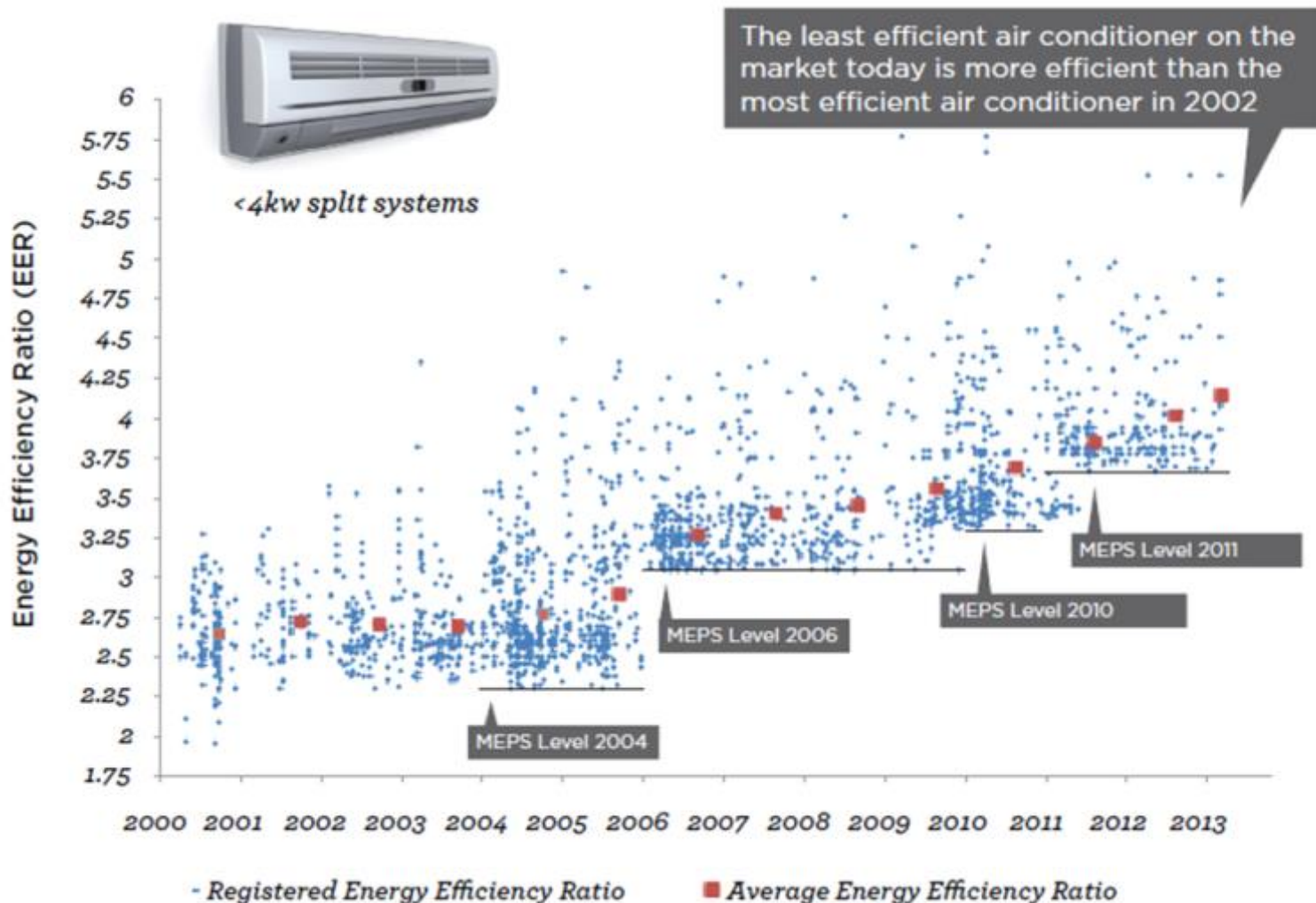
Source: Australian Energy Regulator State of the Energy Market 2014

# ENERGY EFFICIENCY MEASURES HAVE BEEN A MAJOR CONTRIBUTOR TO CHANGE



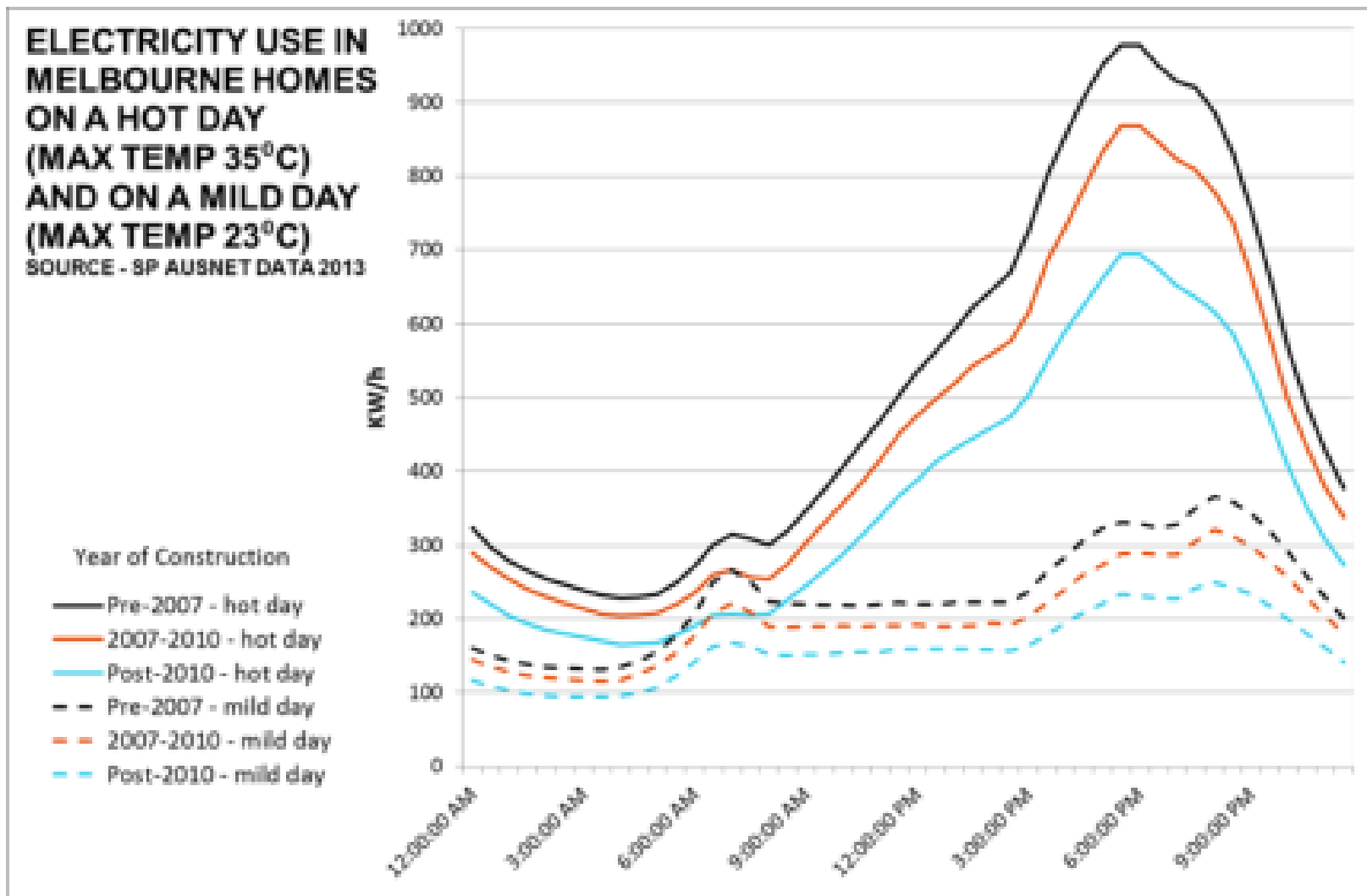
\*Estimates from "Power Down" - The Australia Institute Dec 2013 Hugh Saddler

# MINIMUM ENERGY PERFORMANCE STANDARDS (MEPS) HAVE RESULTED IN EFFICIENCY STEP CHANGES





# BUILDING AND APPLIANCE STANDARDS HAVE CREATED A MORE EFFICIENT BUILT ENVIRONMENT



# THE CBD PROGRAM HAS IMPROVED THE EFFICIENCY OF AUSTRALIA'S OFFICE BUILDINGS

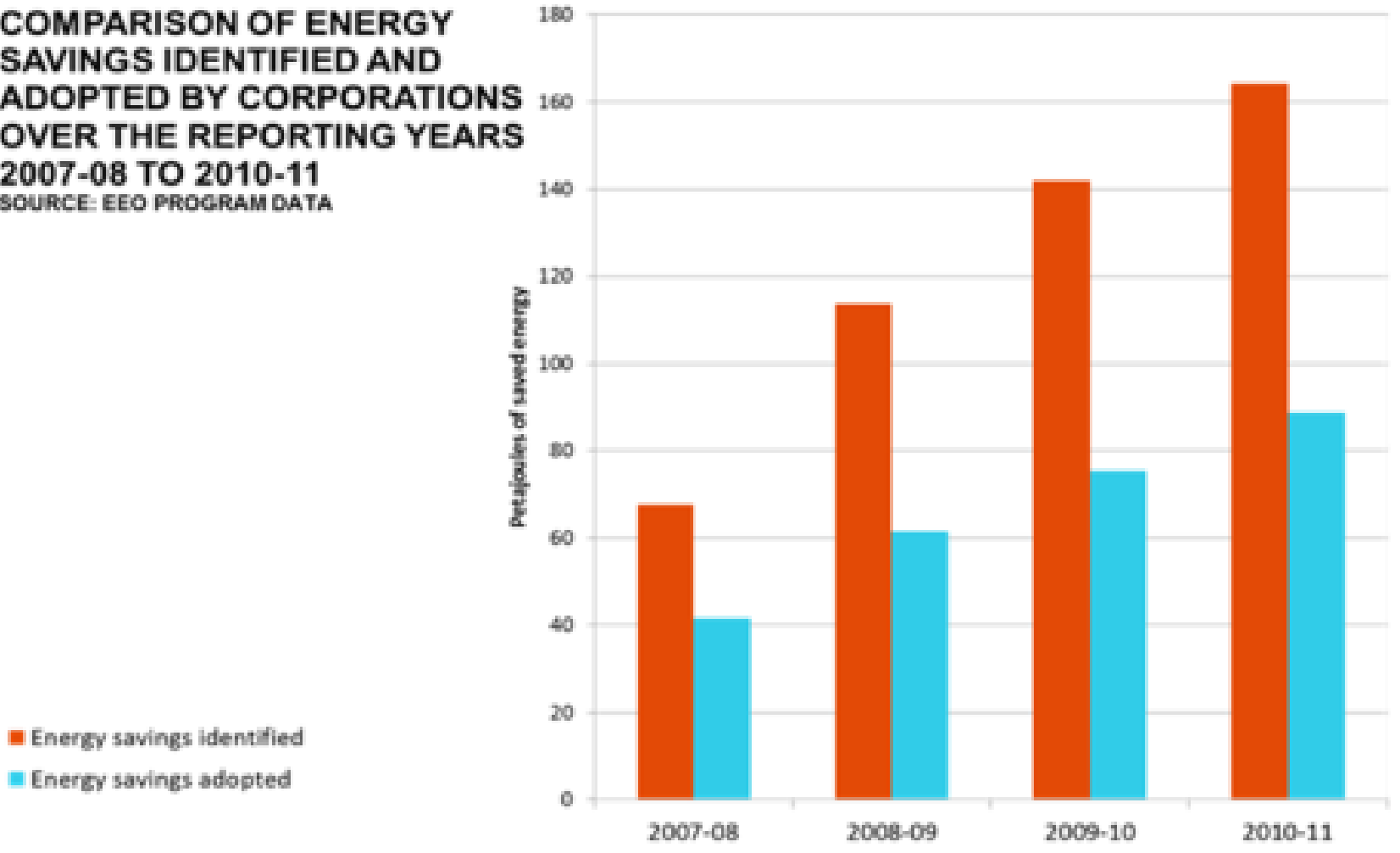


- Since 2010, nearly 4,000 Building Energy Efficiency Certificates (BEECs) have been issued.
- Over 800 buildings certified with a BEEC representing over 11 million square metres of commercial office space

# THE GOVERNMENT HAS WORKED WITH INDUSTRY TO IMPROVE ENERGY PRODUCTIVITY

## COMPARISON OF ENERGY SAVINGS IDENTIFIED AND ADOPTED BY CORPORATIONS OVER THE REPORTING YEARS 2007-08 TO 2010-11

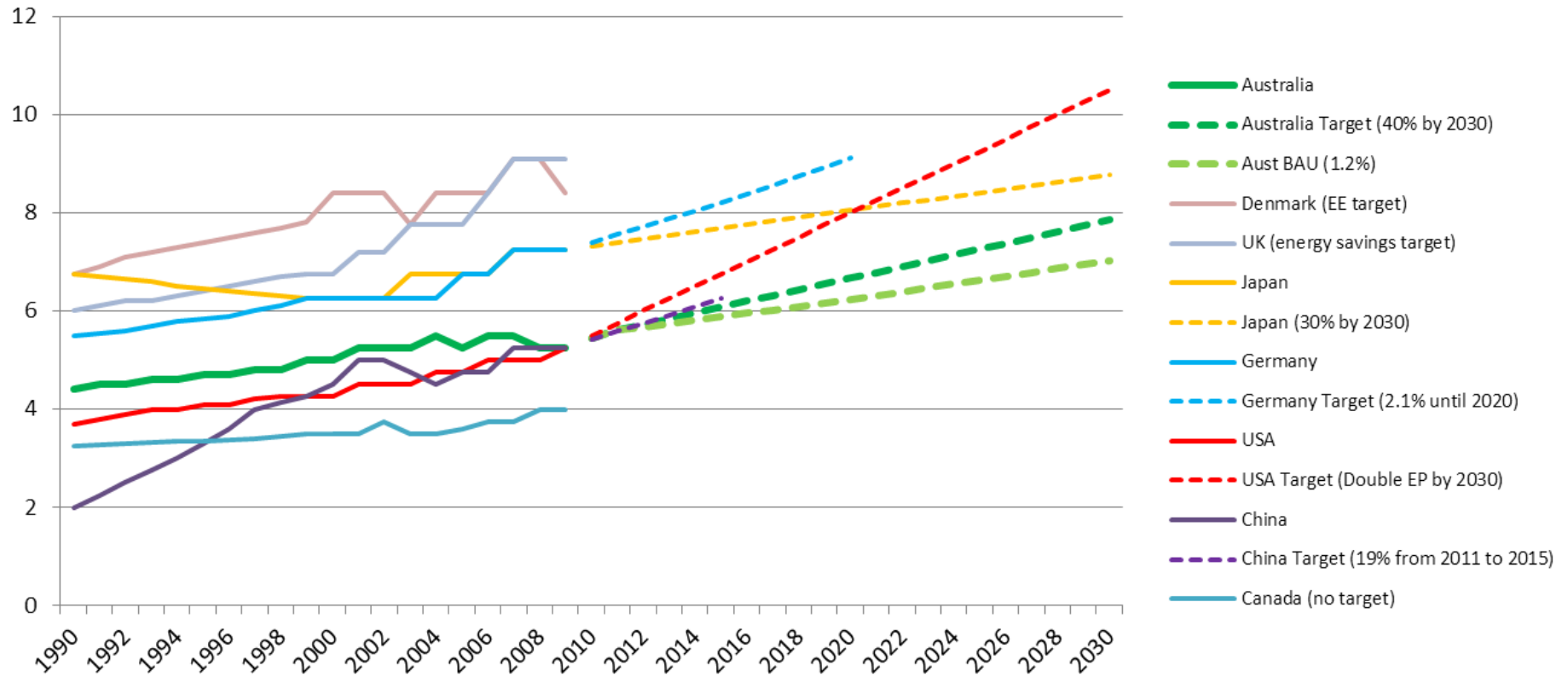
SOURCE: EEO PROGRAM DATA



# WHEN COMPARED TO OTHER OECD COUNTRIES, AUSTRALIA HAS ROOM TO IMPROVE

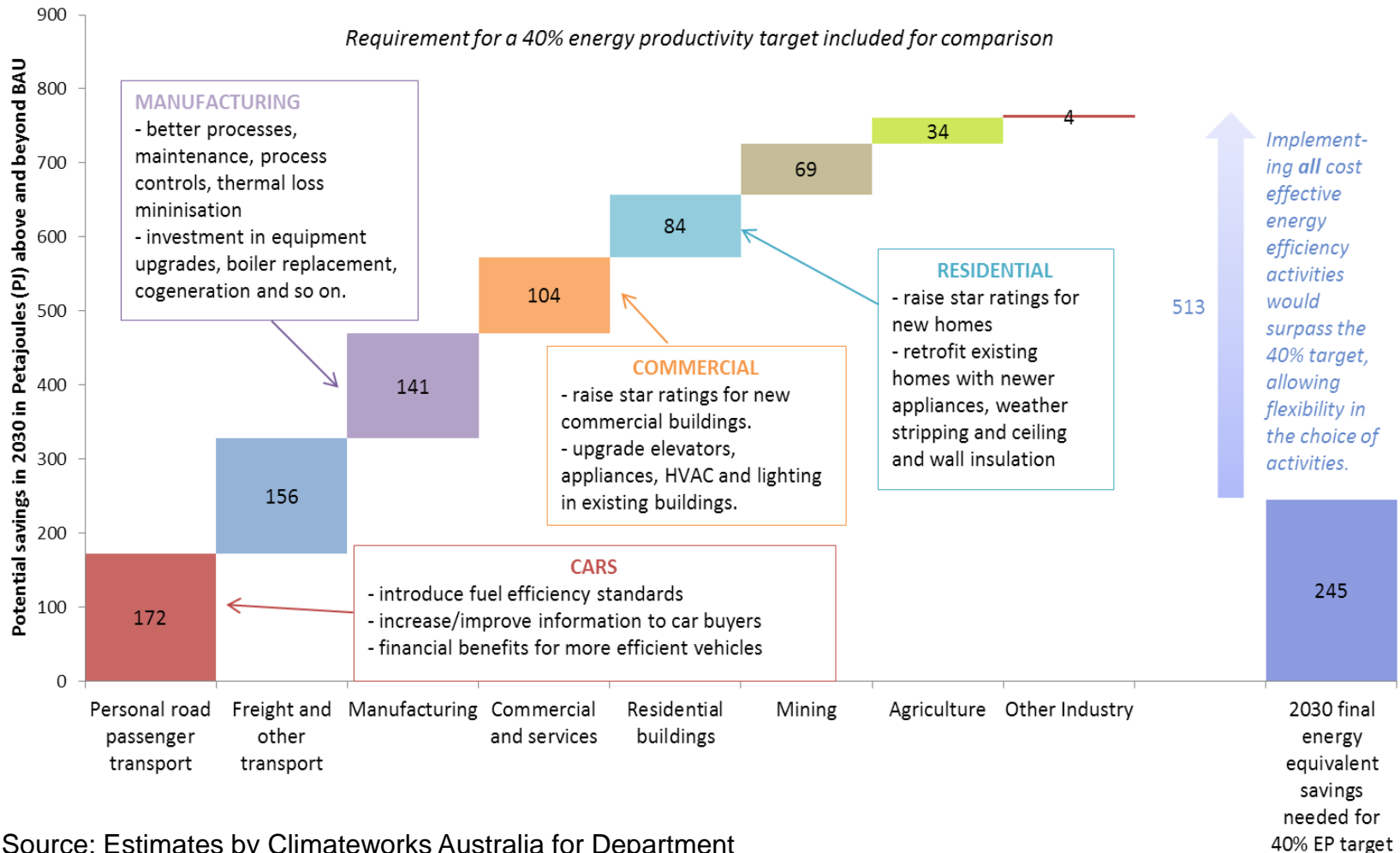
## International Energy Productivity and Targets (\$/kgoe)

Source OECD factbook 2011-12



# THERE ARE MANY OPPORTUNITIES FOR AUSTRALIA TO ADVANCE

2030 energy and emissions savings beyond BAU if we adopted ALL currently available cost-effective energy efficiency opportunities



# THE NATIONAL ENERGY PRODUCTIVITY PLAN

- Commitment in April 2015 Energy White Paper
- Details to be agreed with States by end 2015

Energy productivity improving

## EFFECTIVE PROTECTION

Efficient standards to overcome **market failures**

*Ensuring all consumers have appropriate and effective protections*

## MORE PRODUCTIVE SERVICES

Innovation, **competition** and **effective markets**

*All energy-related services - generation, network, retail, appliances, industrial equipment, buildings, information etc*

## MORE PRODUCTIVE CHOICES

Engaging and **empowering** consumers to choose the best services for their needs

*All energy consumers (large and small)*

## TARGET

**40% improvement**  
Between 2015 and 2030  
(\$GDP/PJ primary energy)

Reducing costs for household and business

Growing Australia's economy

Maintaining our competitiveness and

Reducing carbon emissions

Different types of consumers and service providers increasing engagement over time



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## **Department of Industry and Science**

Industry House  
10 Binara Street  
Canberra City, ACT 2601, Australia  
Telephone +61 2 6213 6000