



# NABERS

How Australian buildings have achieved unprecedented energy savings

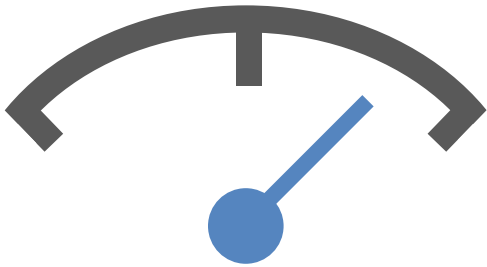


**Carlos Flores**

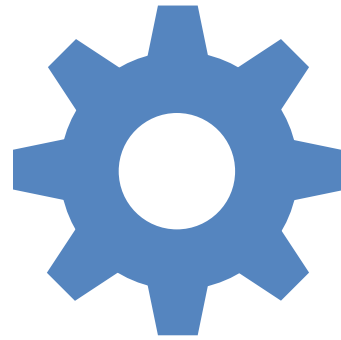
Program Manager | NABERS



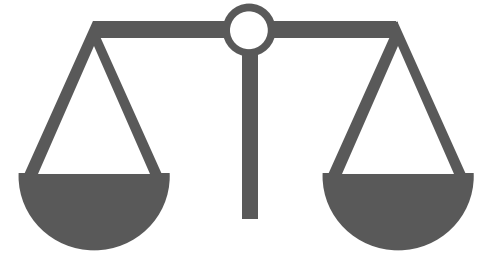
# NABERS Principles



Based on  
metered  
performance



Technology  
neutral



Fair  
comparison



**Offices**



**Shopping centres**



**Hotels**



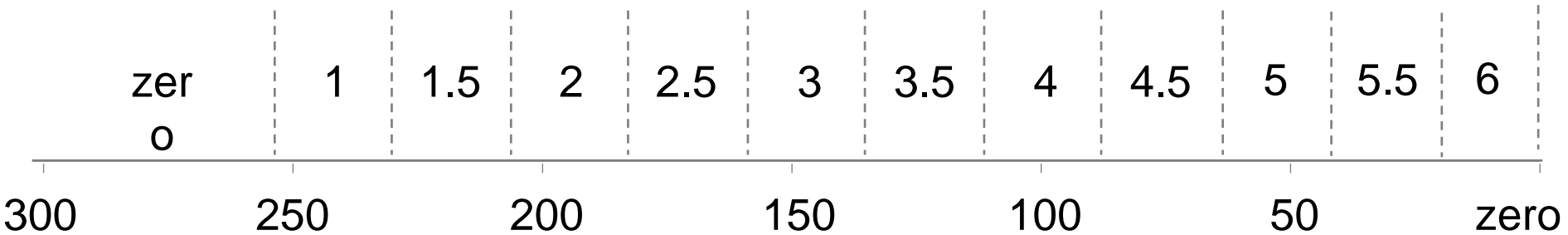
**Data centres**





# The rating scale

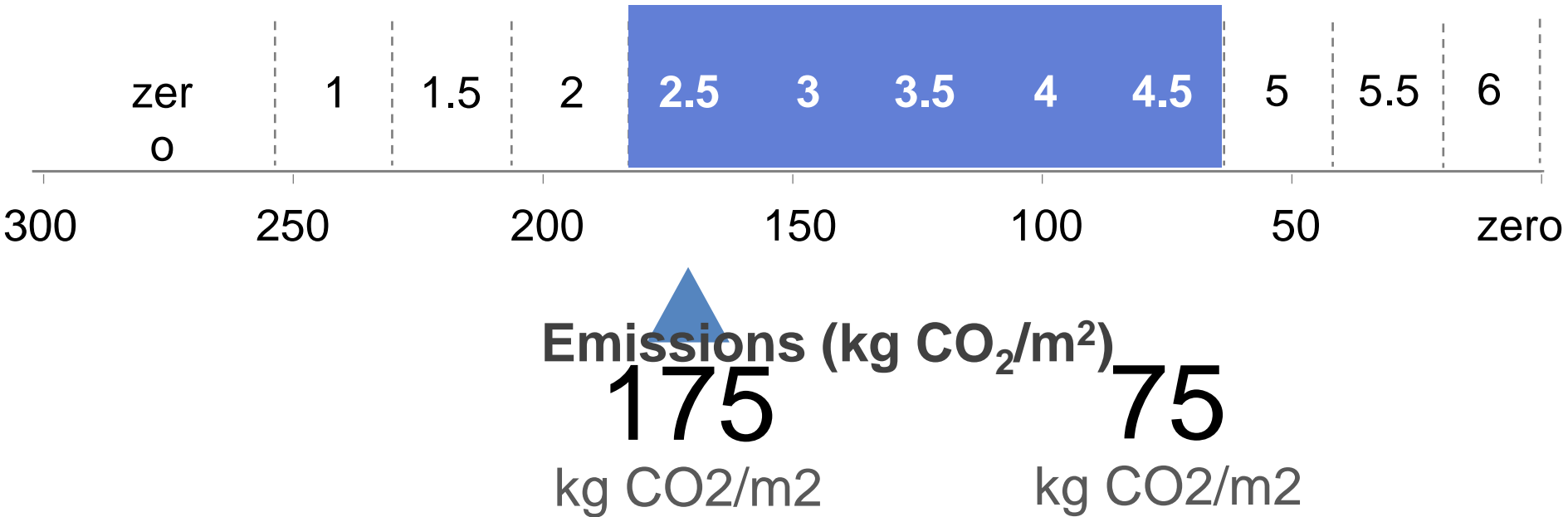
## Stars



**Emissions (kg CO<sub>2</sub>/m<sup>2</sup>)**

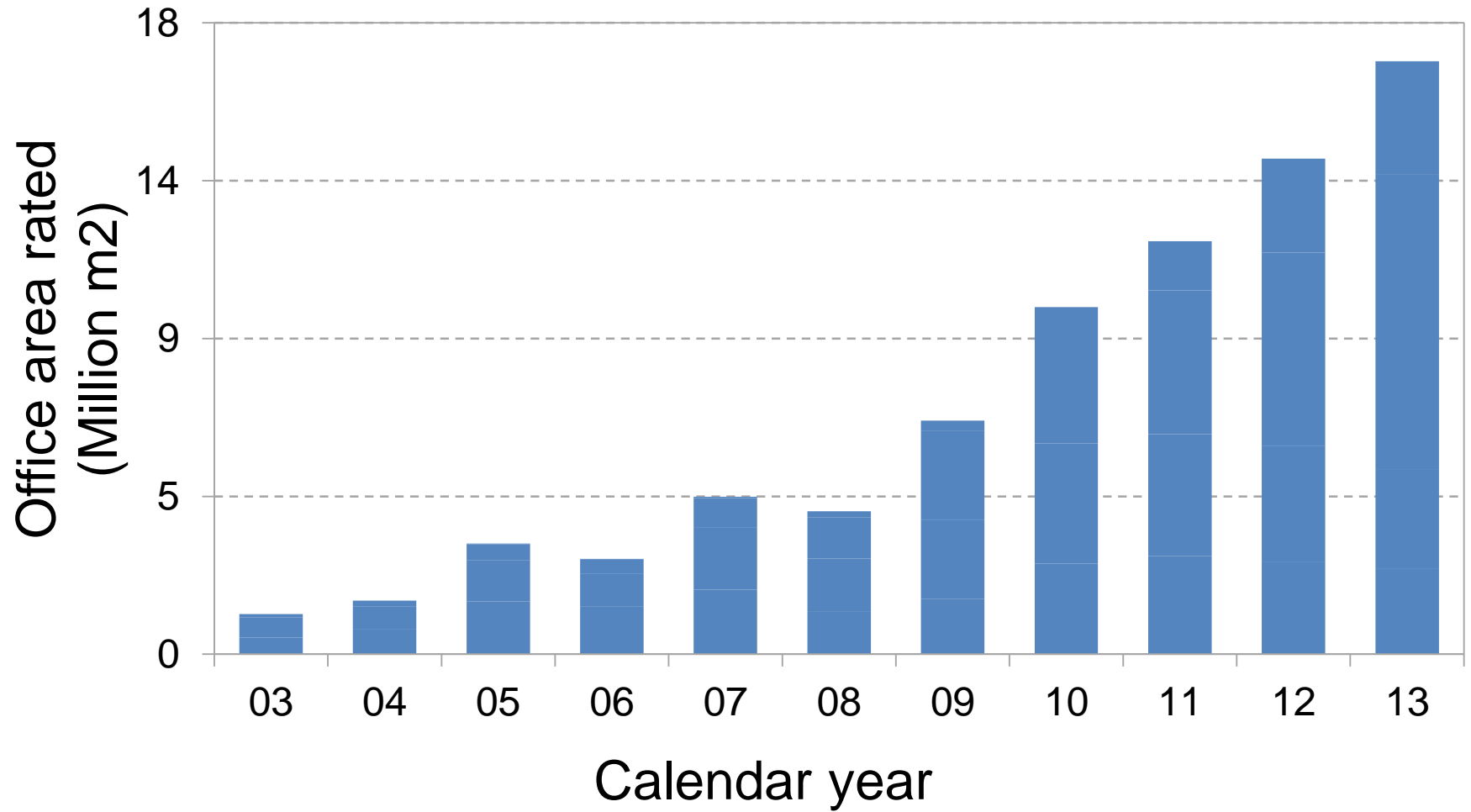
# The rating scale

**4.5 stars**  
Stars





# Area certified per year



# Why is this happening?



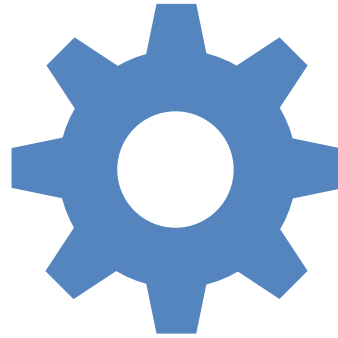
Corporate social  
responsibility



Support  
initiatives



# Initiative #1



Government procurement policy

# How does it work?

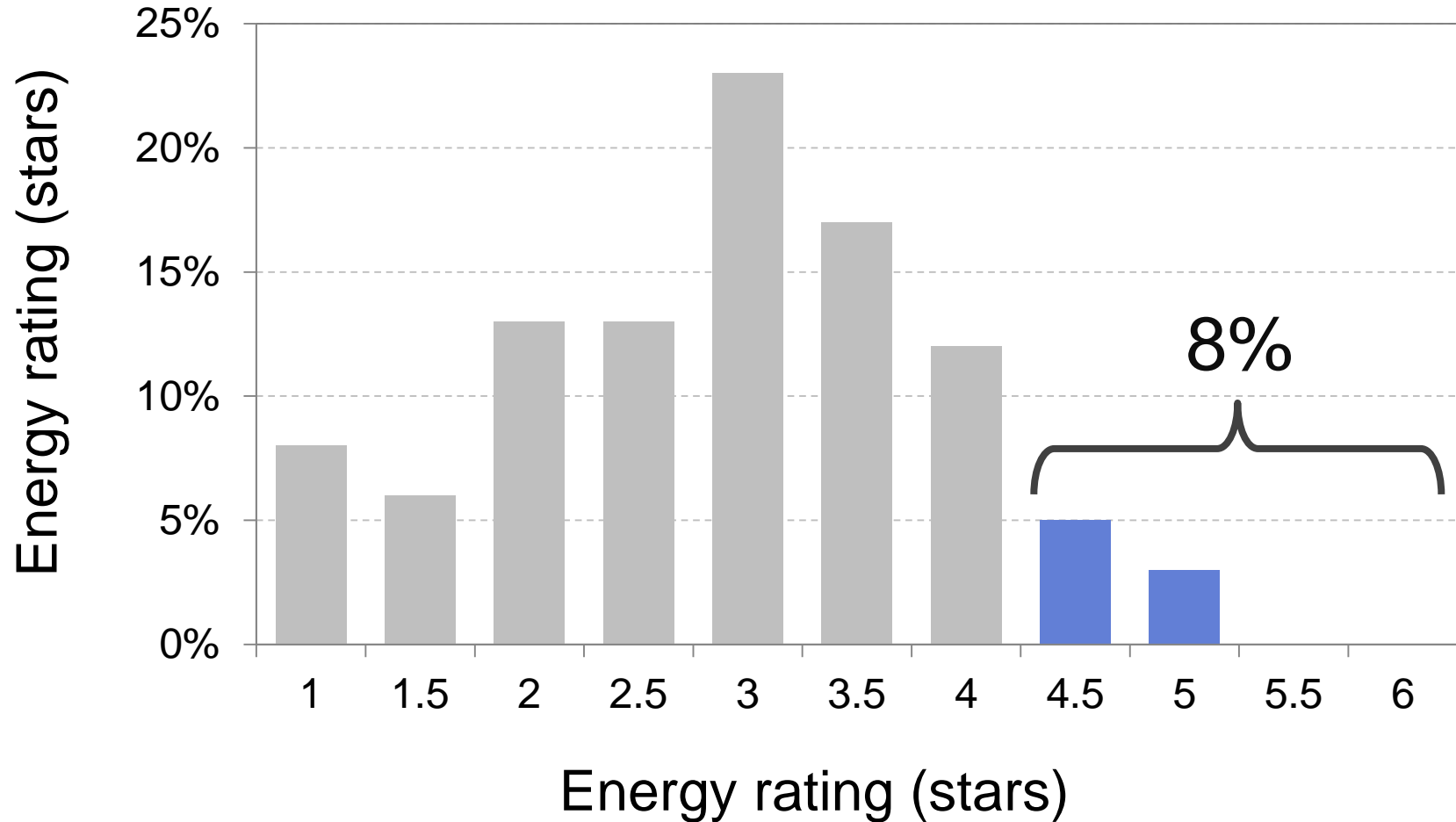


**Government**  
procurement power

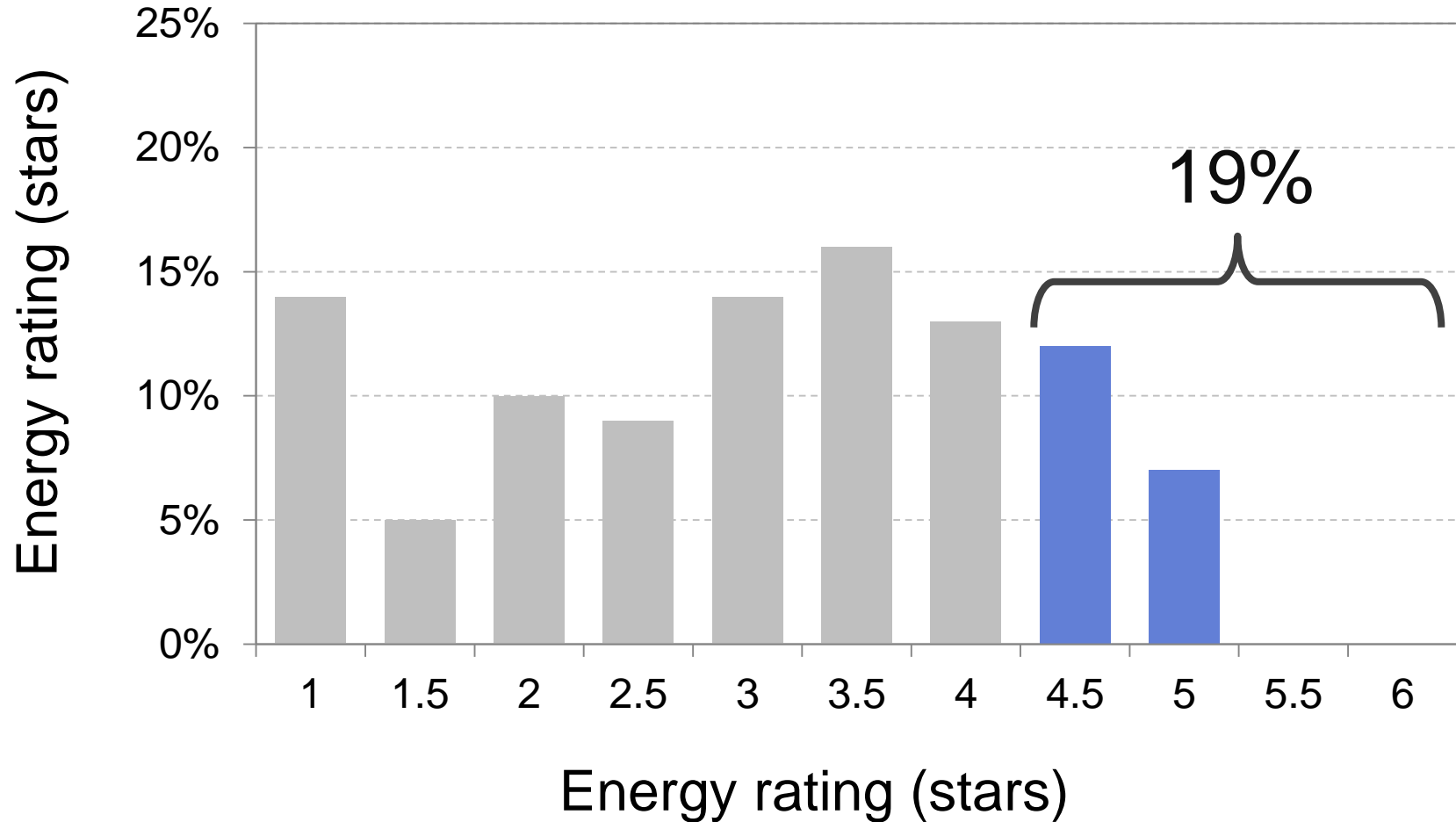


**4.5 stars NABERS Energy**  
requirements in leases

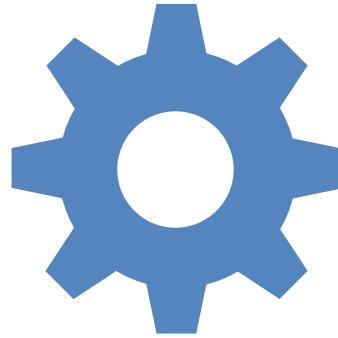
# Rating results in 2007



# Rating results in 2010



# Initiative #2



Commercial building disclosure

# How does it work?



**Mandates disclosure**  
of NABERS Energy  
ratings

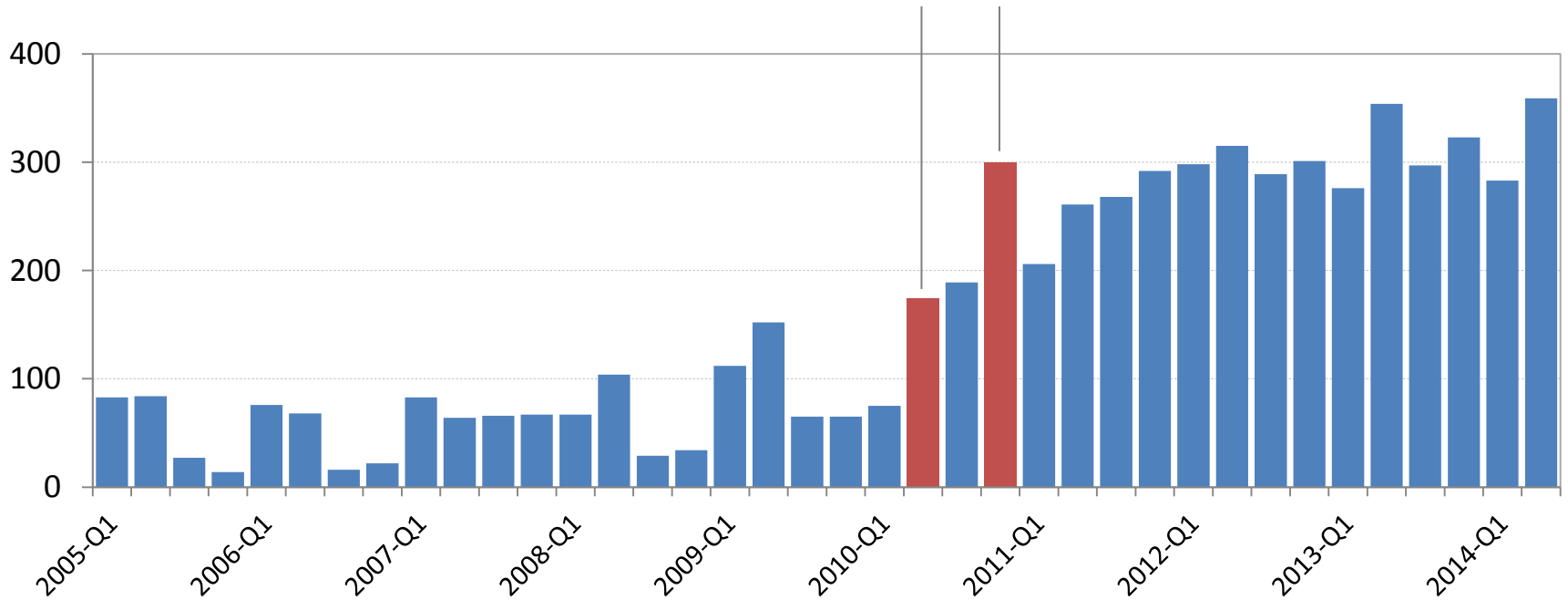


**Lease or sell**  
spaces larger than  
2,000m<sup>2</sup>

# Certified NABERS Energy ratings per quarter

BEED Act passed by Parliament  
**June 2010**

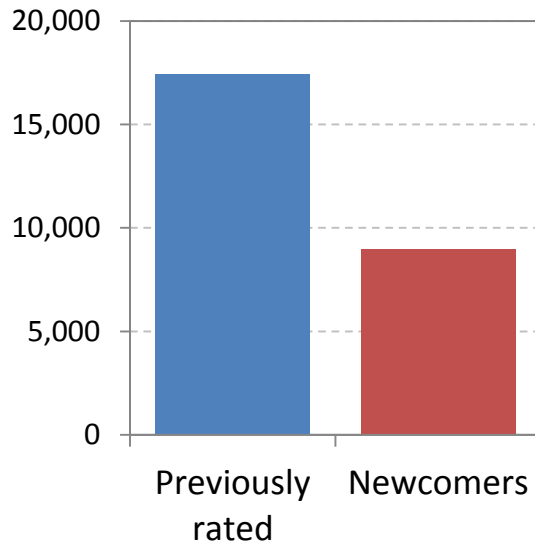
NABERS Energy becomes mandatory  
**November 2010**



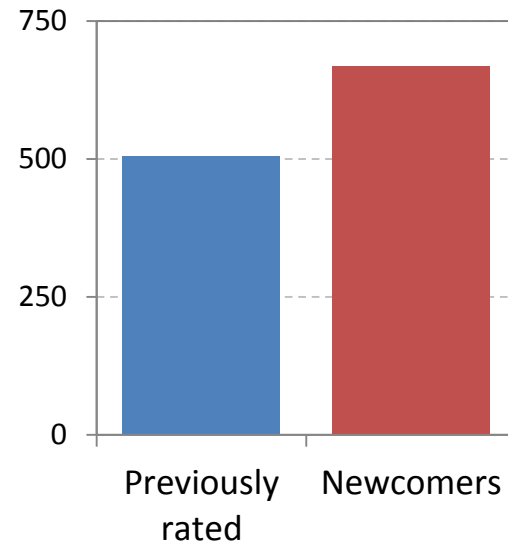


# Bringing new buildings into the energy efficiency picture

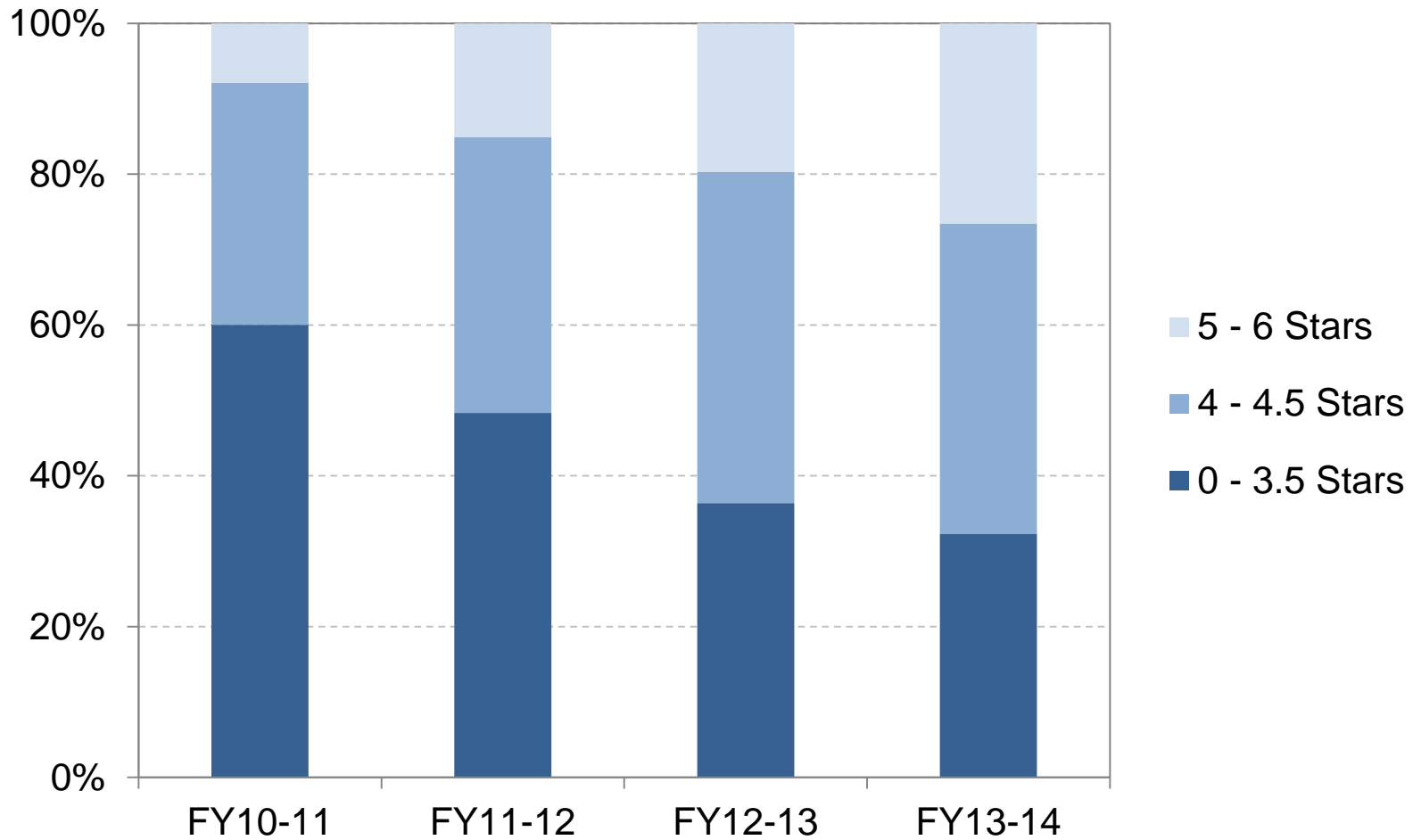
**Average size  
(m<sup>2</sup>)**



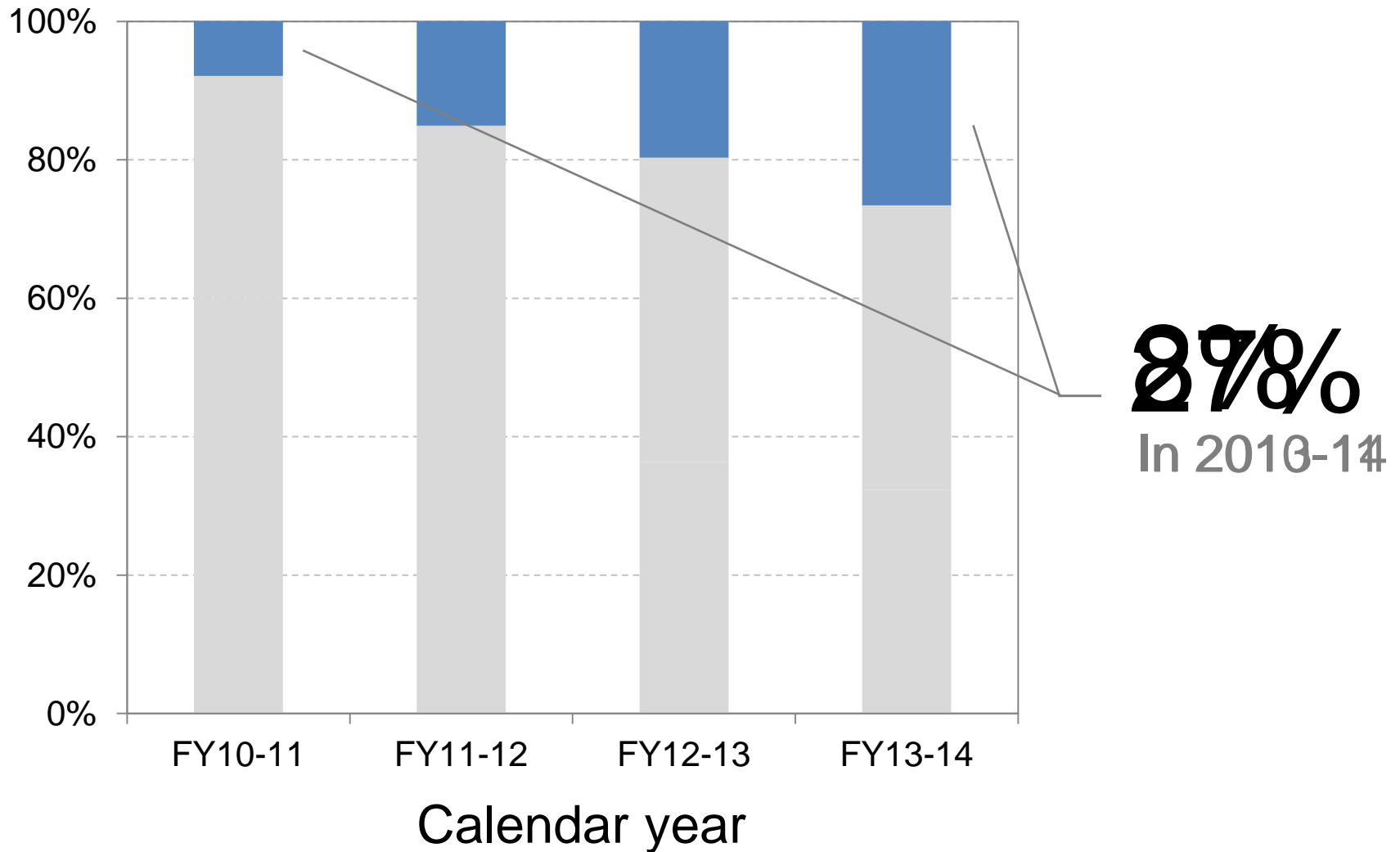
**Average energy  
intensity (MJ/m<sup>2</sup>)**



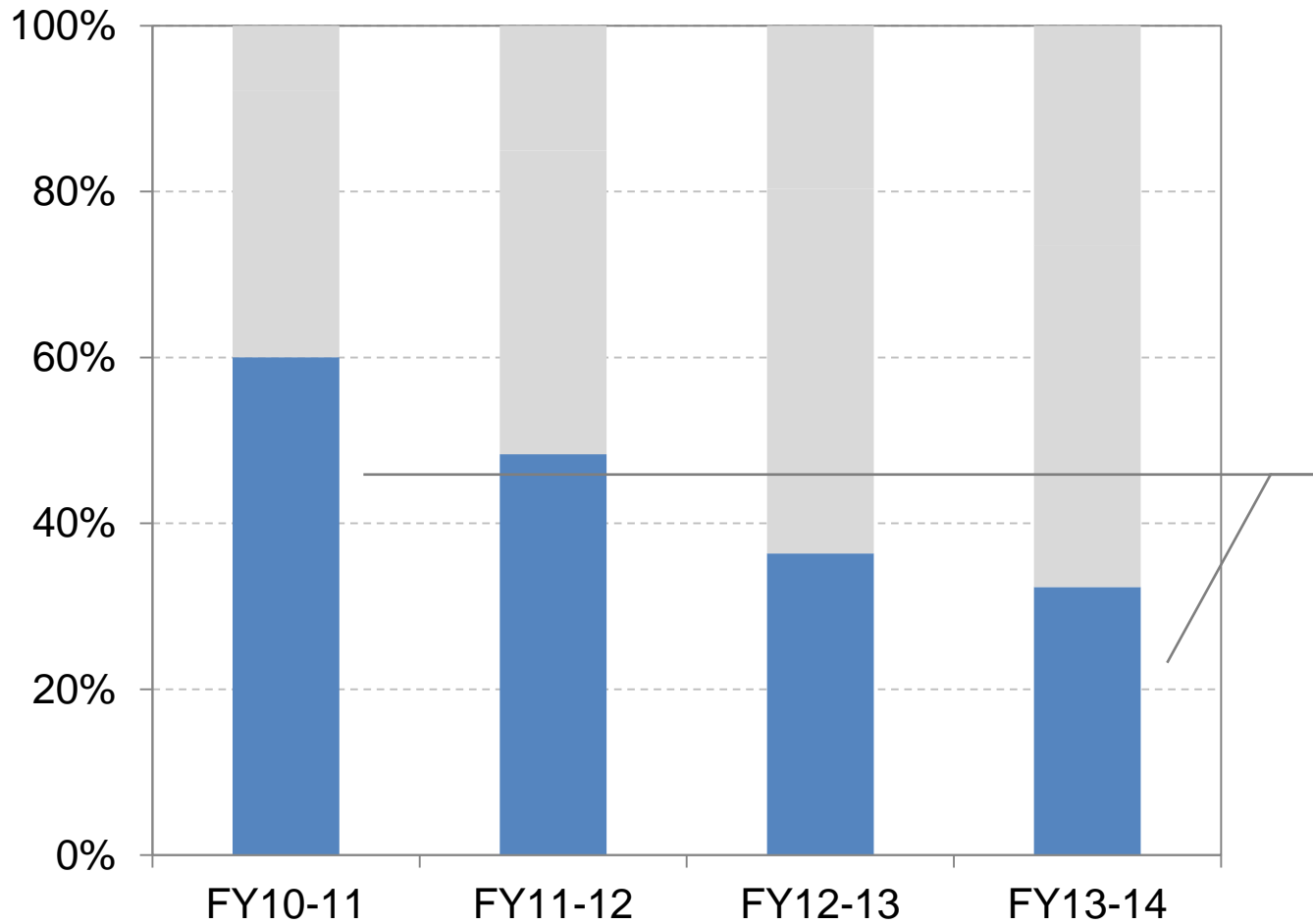
# Market transformation



# 5 stars and above



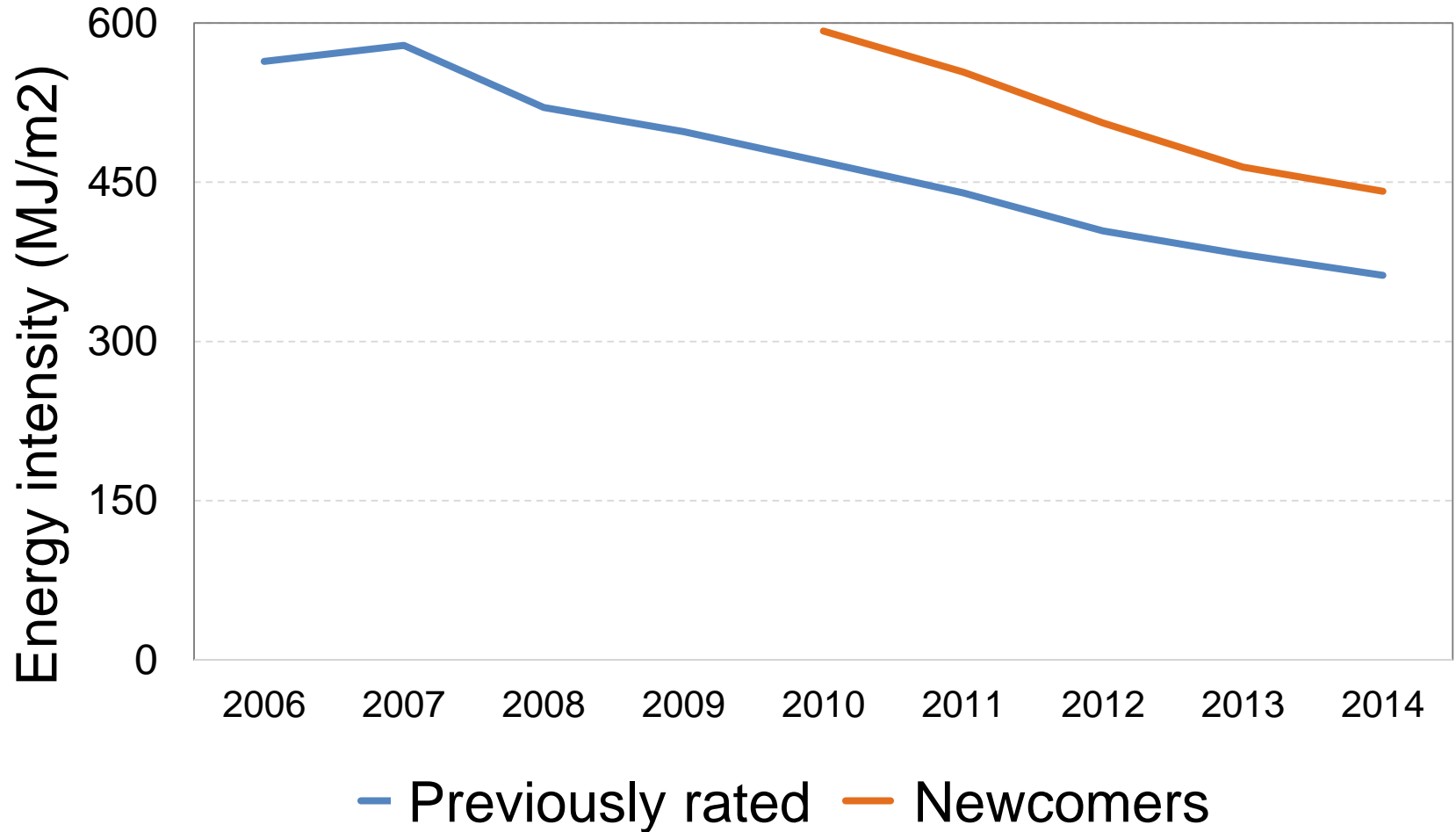
# Zero to 3.5 stars



**60%**  
In 2010-14

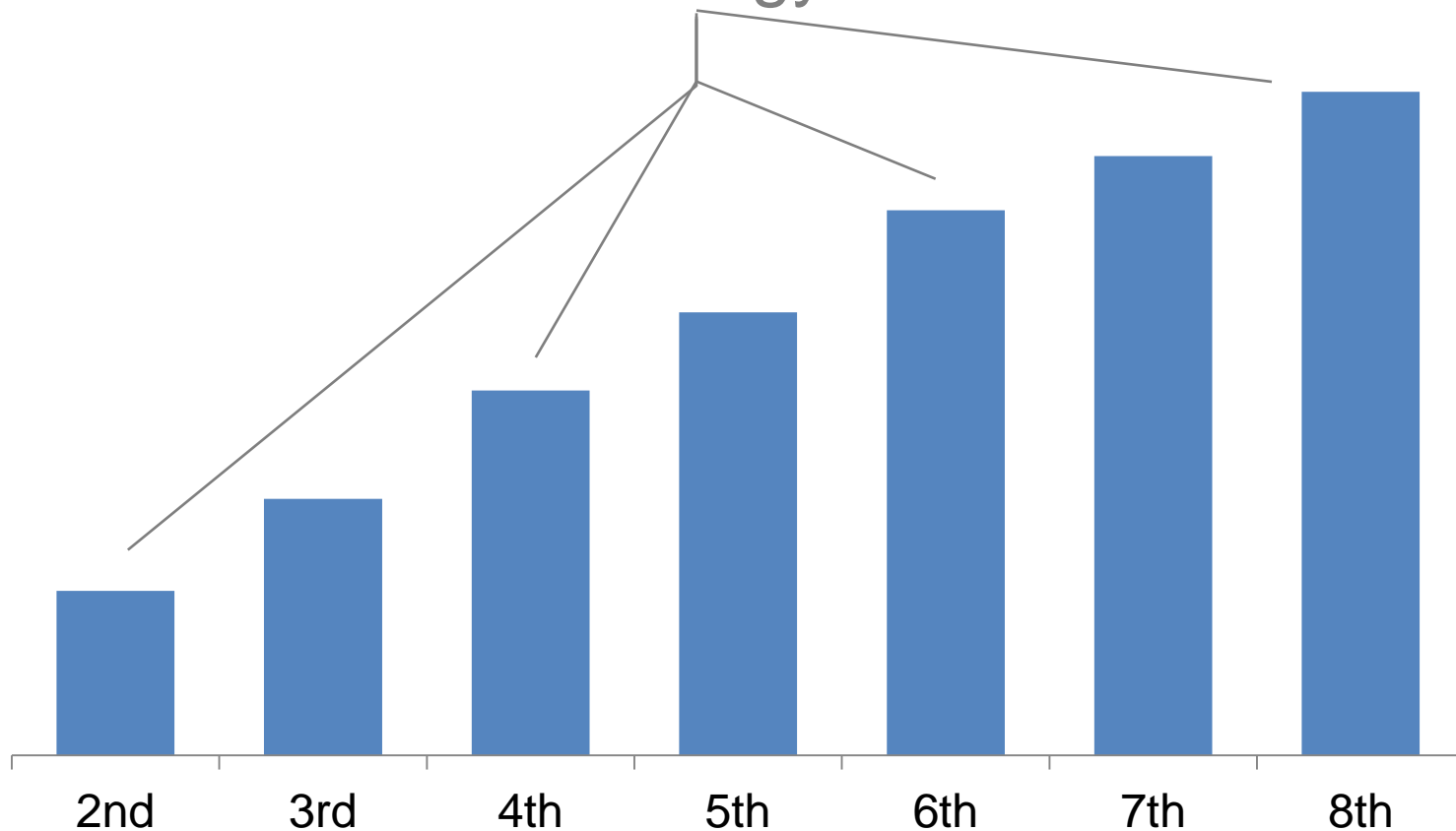
Calendar year

# Rapid reduction in energy use



# Long-term NABERS Energy improvement

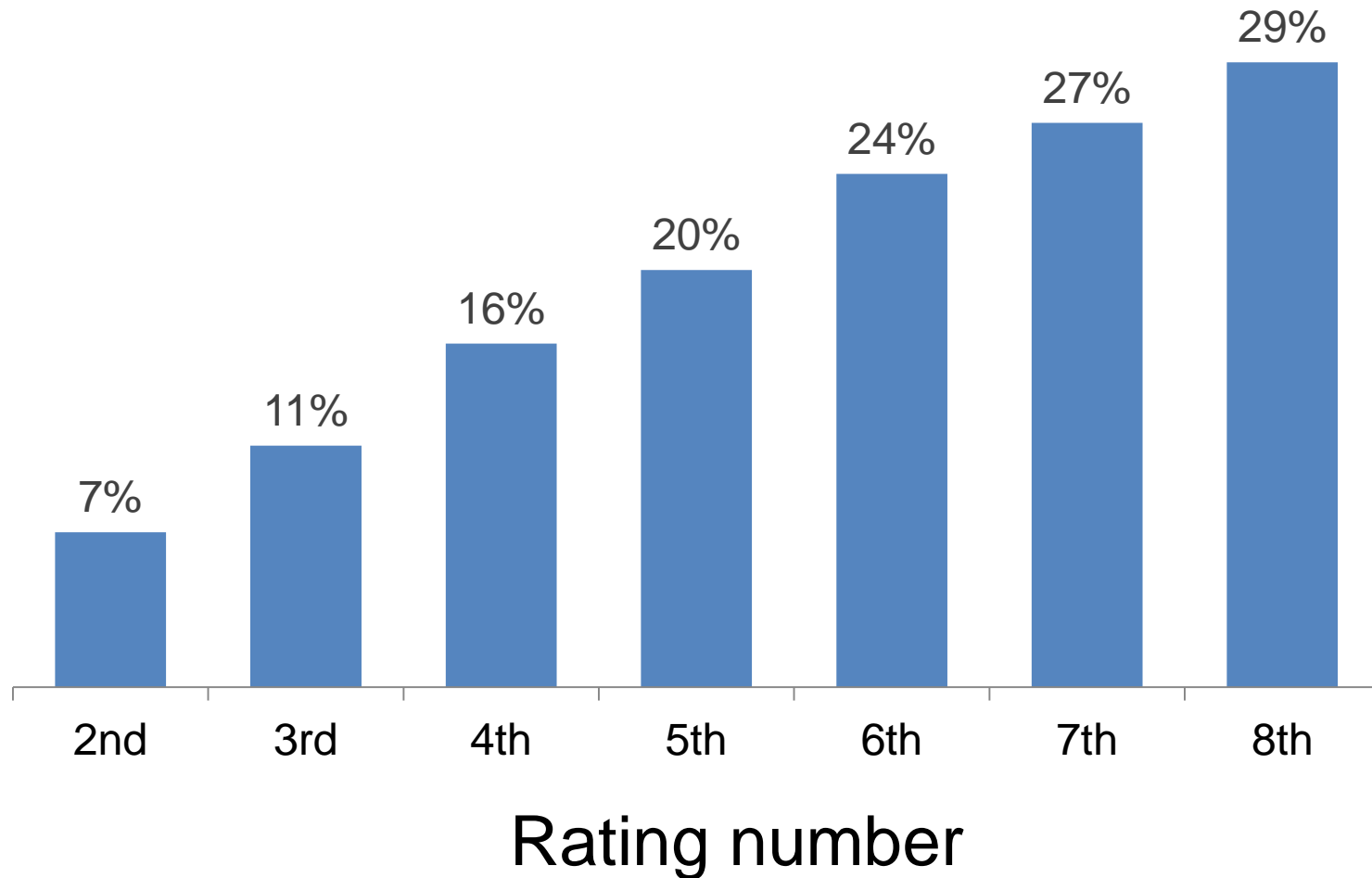
Reduction in energy intensity  
after multiple ratings  
~~20%~~  
less energy use



Rating number



# Average reduction in energy intensity after multiple ratings





# **NABERSNZ**

5.5 stars | Meridian Building, Wellington



**THANK YOU**

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