

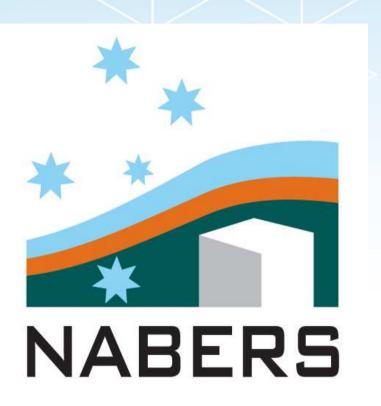
National Australian Built Environment Rating System – Australian Experience with market based performance ratings

Chris Bloomfield – 20 January 2016



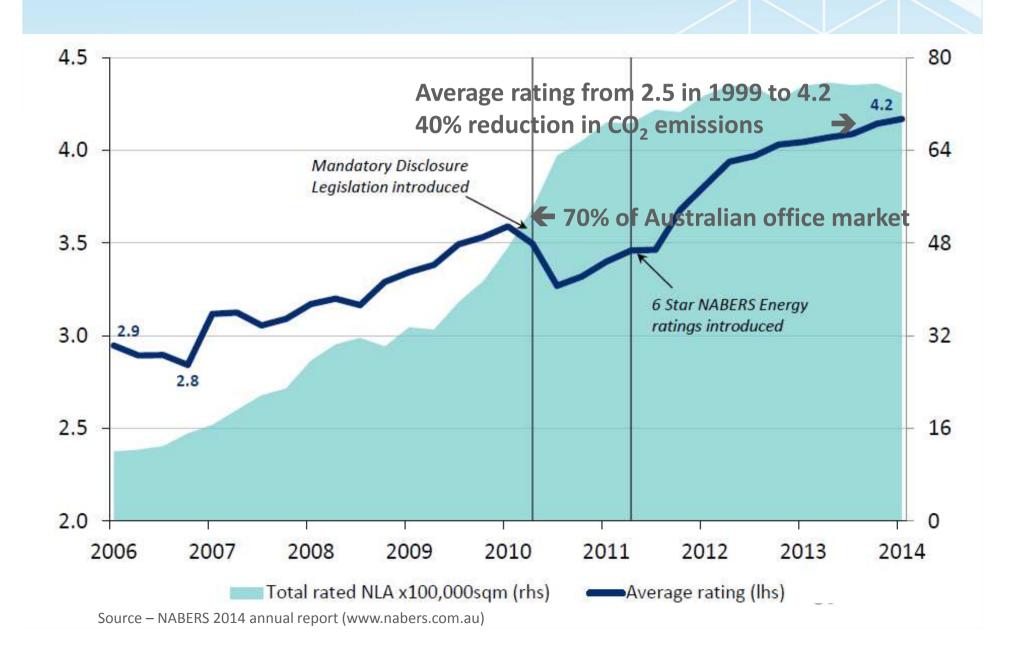
NABERS

- > National Australian Built Environment Rating Scheme
- > Introduced in 1999
- > Performance (measurement based)
- > Separate assessments for energy (emissions), water, waste, indoor environment
- > Operated by government with industry consultation
- > Applied to offices, shopping centres, hotels, data centres, hospitals





Has it worked? - office buildings (base build)



NABERS – key features

- > Managed by government with industry consultation
- Aligned to procurement boundaries – tenant and landlord assessed separately
- > Electricity metering well split between tenant and landlord

- > Simple metric 0-6 stars in 0.5 stars
- > Financial grade audit and support of rating data
- Assessed on measurement technology agnostic
- > Market based



Rating structure

- > Based on 12 months data, valid for 12 months
- > Essentially a productivity index consumption per unit of output
- > For office energy ratings,
- > $KPI = f \frac{\sum Energy \ use \times Emissions \ factor}{Occupied \ area \times Hours \ of \ service \times Climate \ factor}$
- > KPI benchmarked against real building data, 2.5 stars = market median, 7 stars = carbon neutral



Driven by market value



Driving the market

- > Green leases state and federal government require 4.5 stars for new leases (~15% of market)
- > Leadership from government owned property portfolios
- > Lease outgoings (gross/net lease becoming irrelevant)
- > Grants (generation of carbon trading, direct funding)
- > Cost of debt (green bonds)
- > Name and shame (mandatory disclosure)





Case study – driving building upgrades. Garema Court

- > 1997 construction, 11,400m^{2.} 2010 performance 2.5 stars, Lease expiring. Value AUD\$31M
- > Efficiency upgrades 2011-12, \$1.2M project
- > 2013 rating 4.5 stars (45% reduction in emissions), enabled new 15 year government lease
- > 2013 valuation \$56.5M





Engagement with tenants vs landlords

Base building office ratings

90%+ of floor area rated annually



Tenancies

• ~10% of floor area rated annually





Tenant drivers - softer

- > Energy is a smaller driver for tenants \$50 vs \$500/m2 compared to rents, \$50 vs \$7000/m2 compared to wages
- > Main energy usage:
 - IT equipment
 - Lighting
 - > Different drivers to landlords less aligned to core business.

What seems to work?



Green leases

- > Green leases common for "premium" and "A" grade properties, usually driven by tenant
- > Tenant seeking to procure (and pay for) lower emissions building
- Measurement every year results in same quality of maintenance through lease term
- Correlation between energy efficiency and indoor environment quality → wage productivity
- > Some green leases reciprocal (places performance requirement on tenants)



Disclosure of lighting system at lease

- > Common in AU market for lighting fitout to be provided by landlord at start of lease
- > Mandatory disclosure of lighting power density
- > Allows tenants to evaluate cost of occupancy of prospective tenancies
- > Has resulted in a lot of lighting efficiency upgrades at end of leases

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Engagement

- > Development of NABERS Data Centres engage with IT
- > Recognition and awards CitySwitch
- > Staff engagement and retention



Questions?

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