

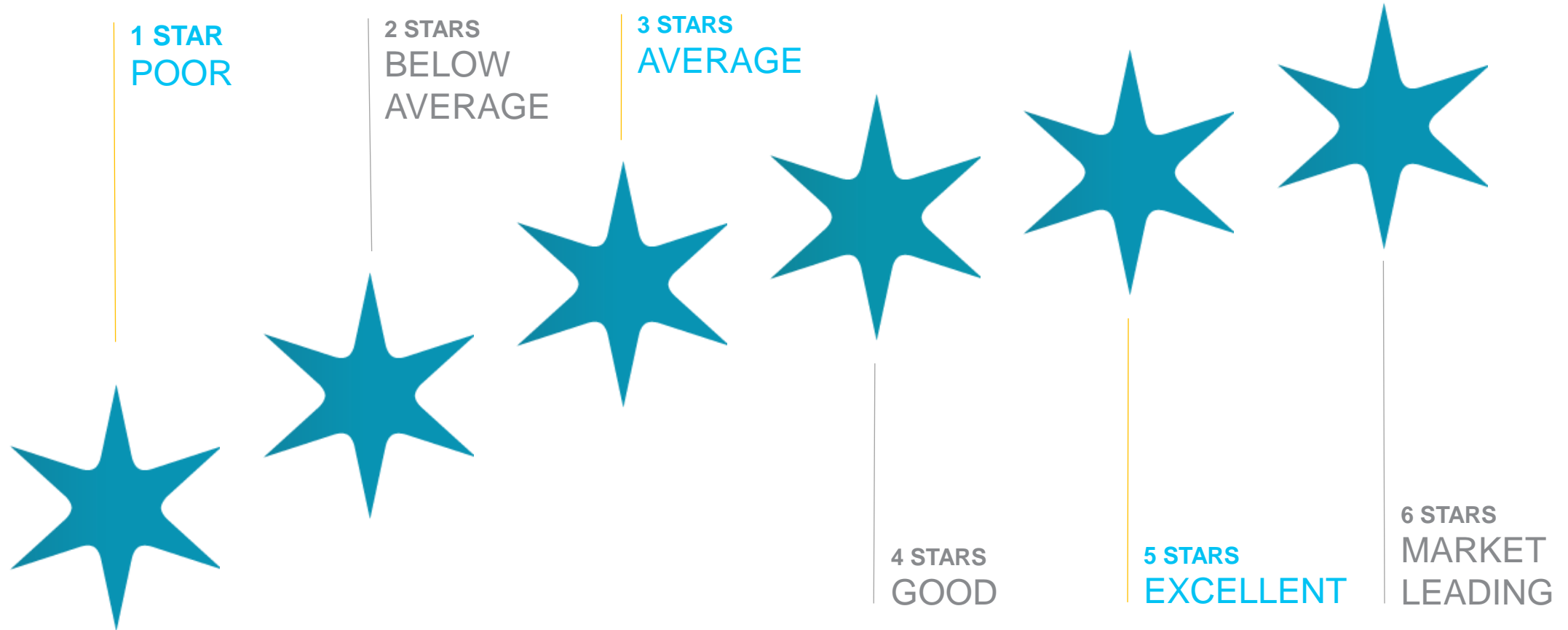
**CIBSE 2022**

**From great to good**

**Magali Wardle | Head of Market  
Development, NABERS**



# A language for building sustainability



# NABERS Strategic Plan

Goal 1 – Every major building type can be rated by NABERS

Goal 2 – Double the number of NABERS ratings by driving uptake and improving our existing tools



# Sectors covered by NABERS



Office buildings



Office tenancies



Data centres



Hotels



Shopping centres



Apartment buildings



Hospitals (Public)

A line-art icon of a residential aged care facility with a building and two trees.

Residential aged care

A line-art icon of a retirement living facility with a building and two trees.

Retirement living

Newest sectors added last year

# Launching soon: Warehouses and cold stores





# What are the next sectors?



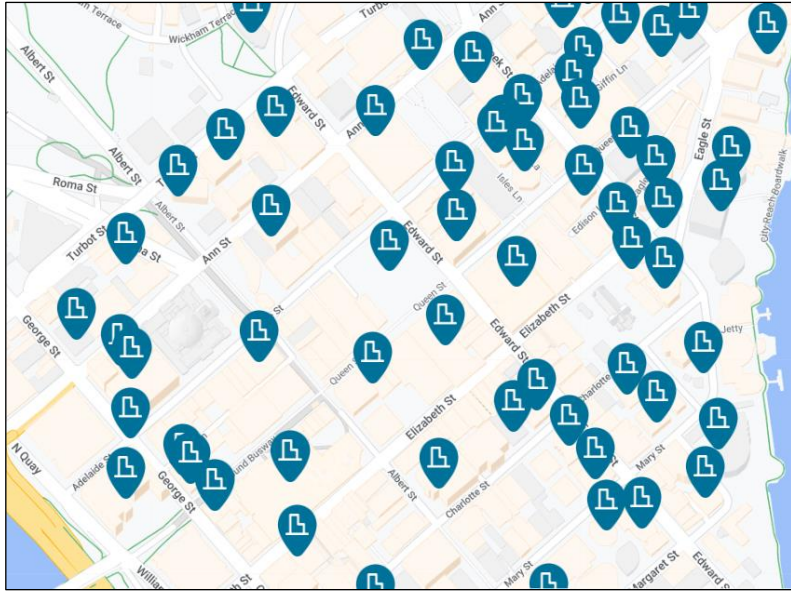
Schools



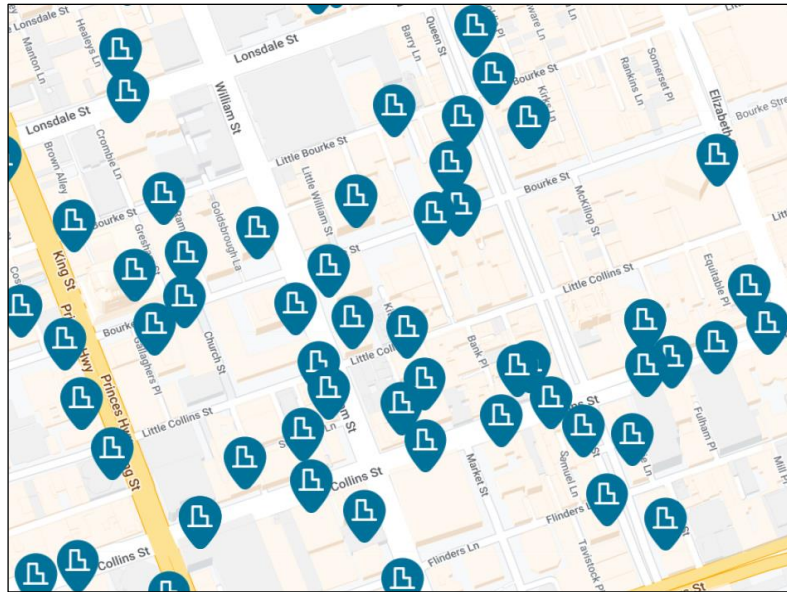
Retail stores



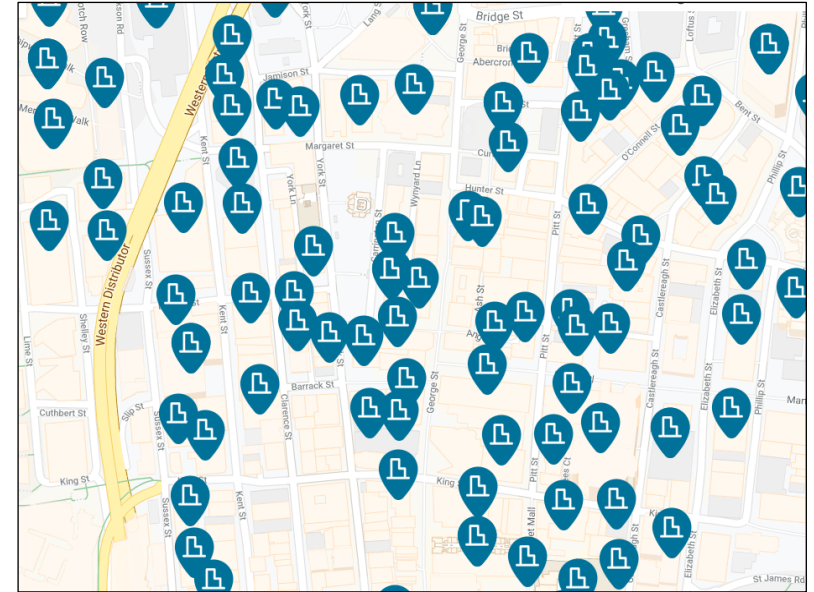
## Brisbane



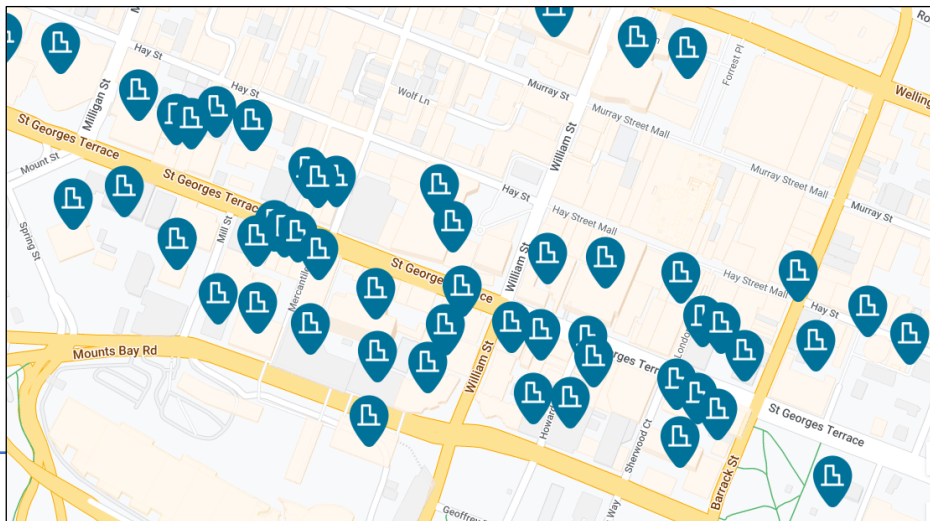
## Melbourne



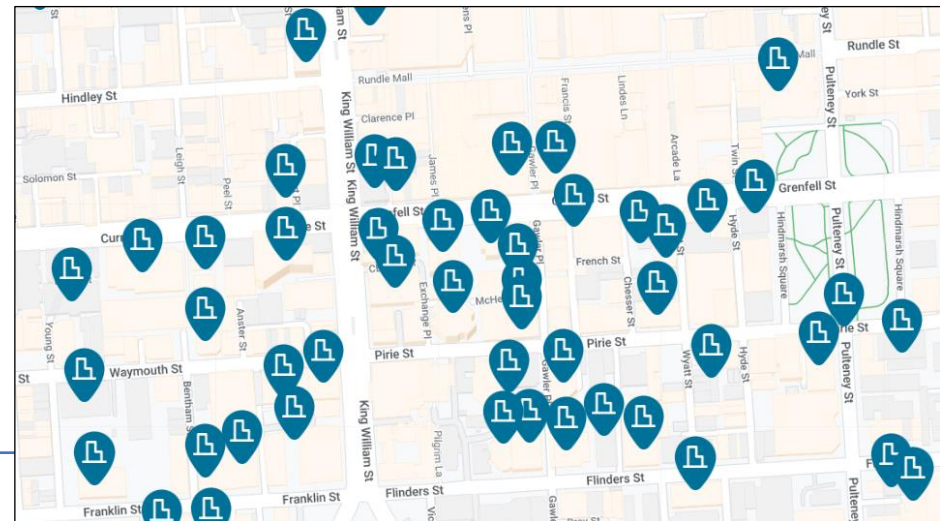
## Sydney



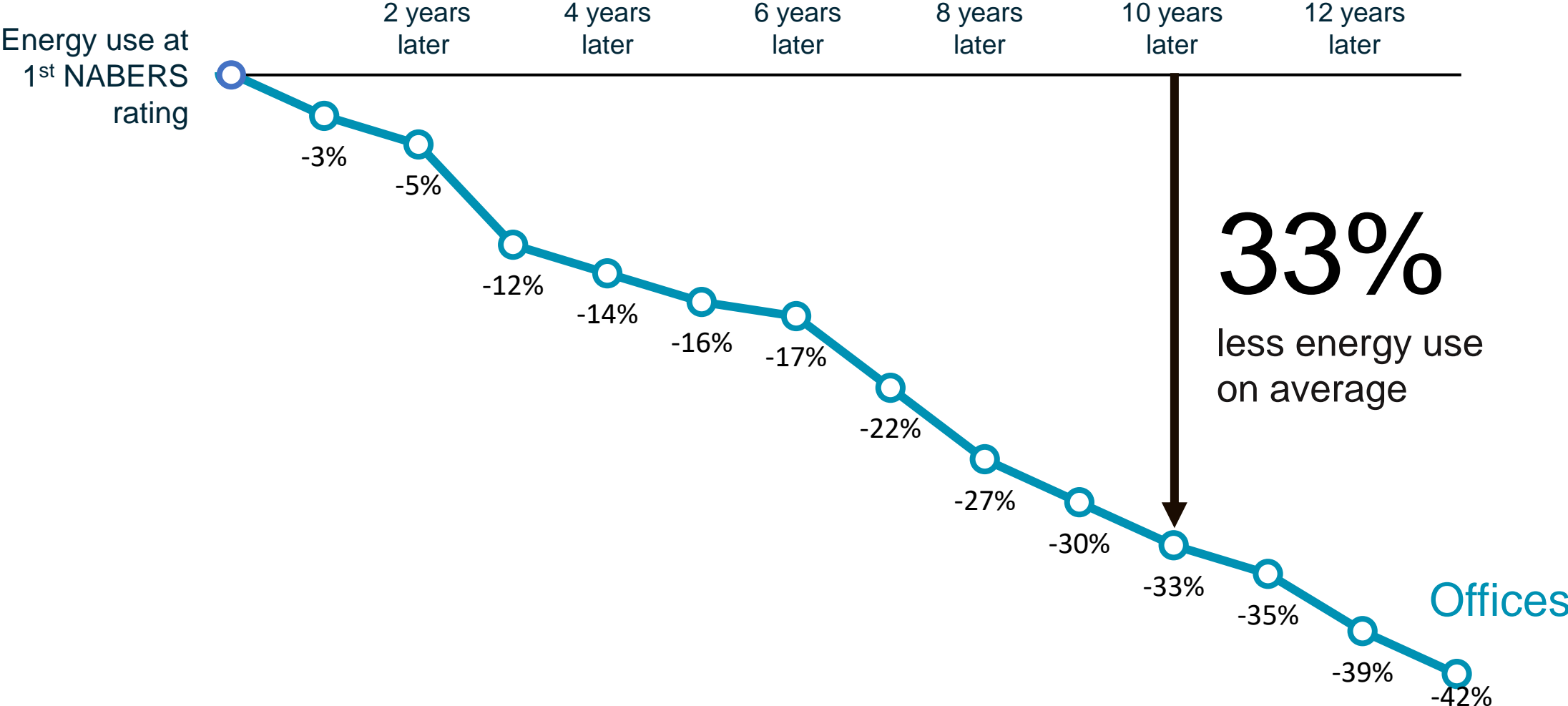
## Perth



## Adelaide

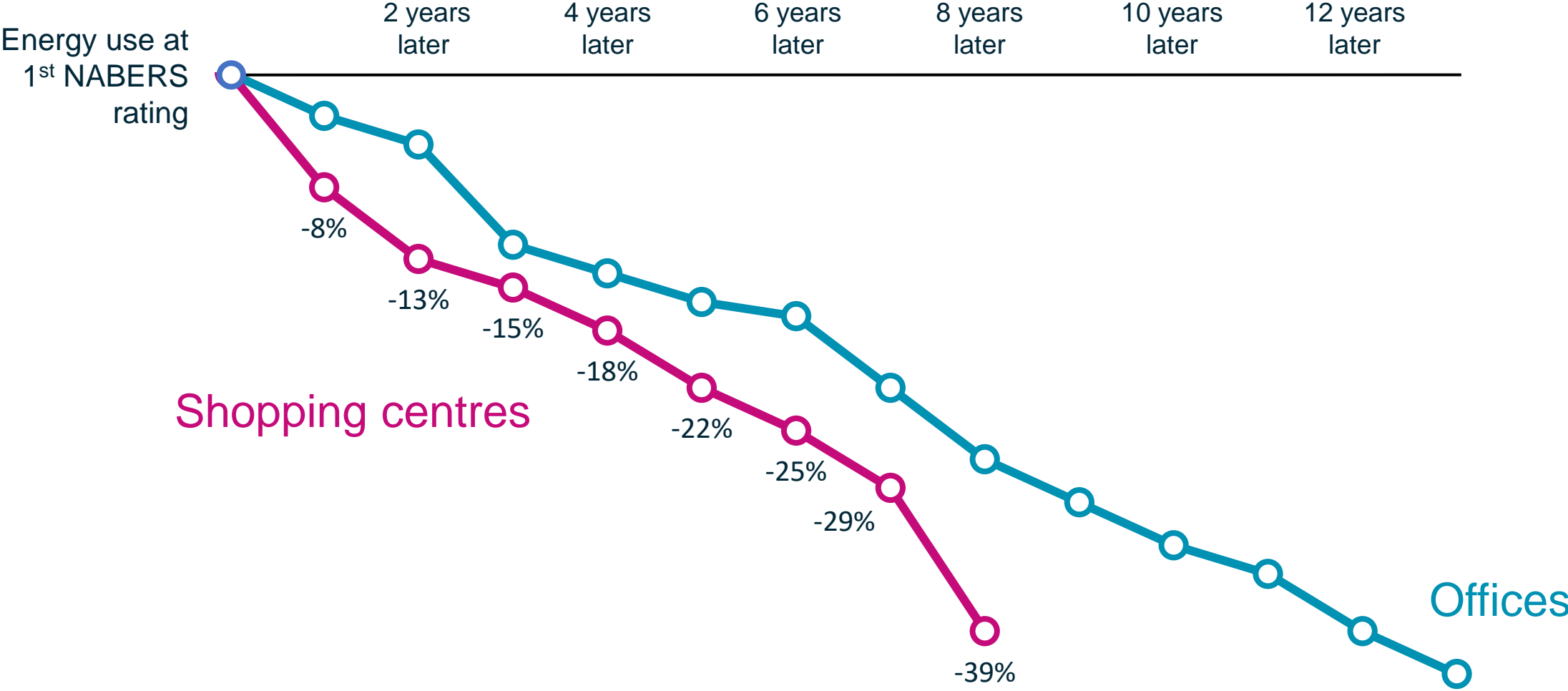


# Ongoing NABERS ratings = success





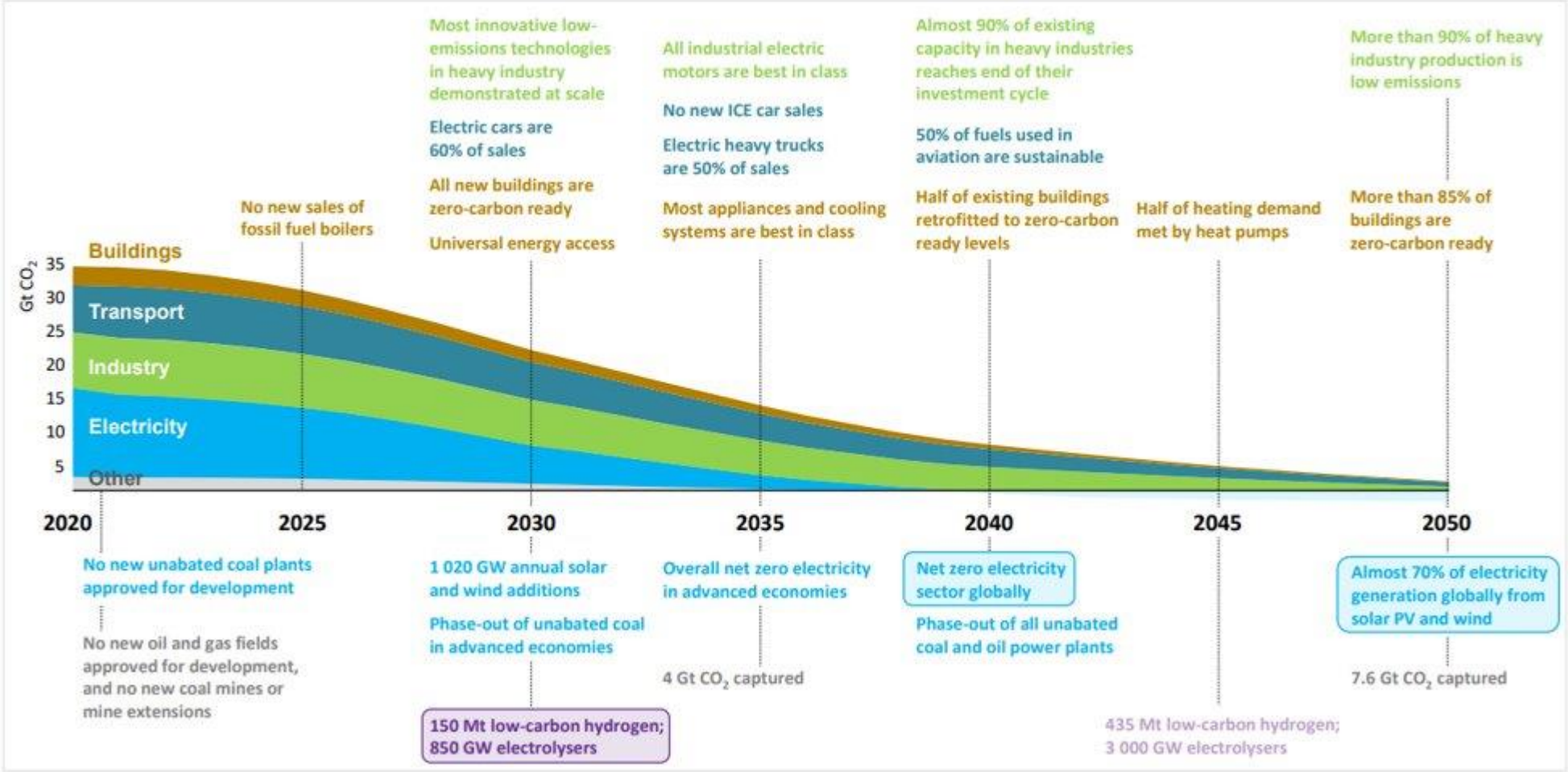
# Ongoing NABERS ratings = success



**What is the role of buildings in achieving net zero?**



# The role of electrification in buildings

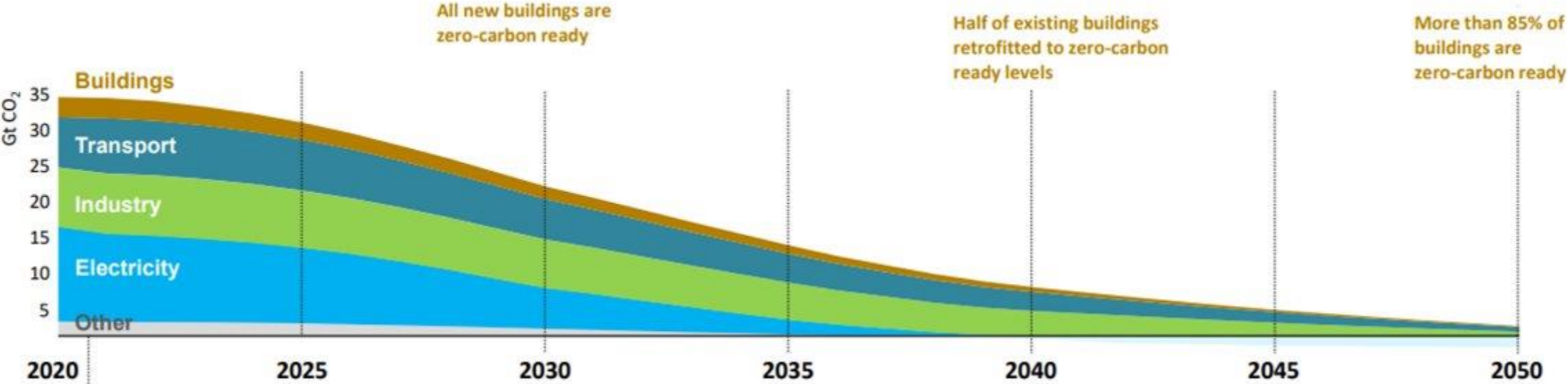


IEA 2021

Net Zero by 2050



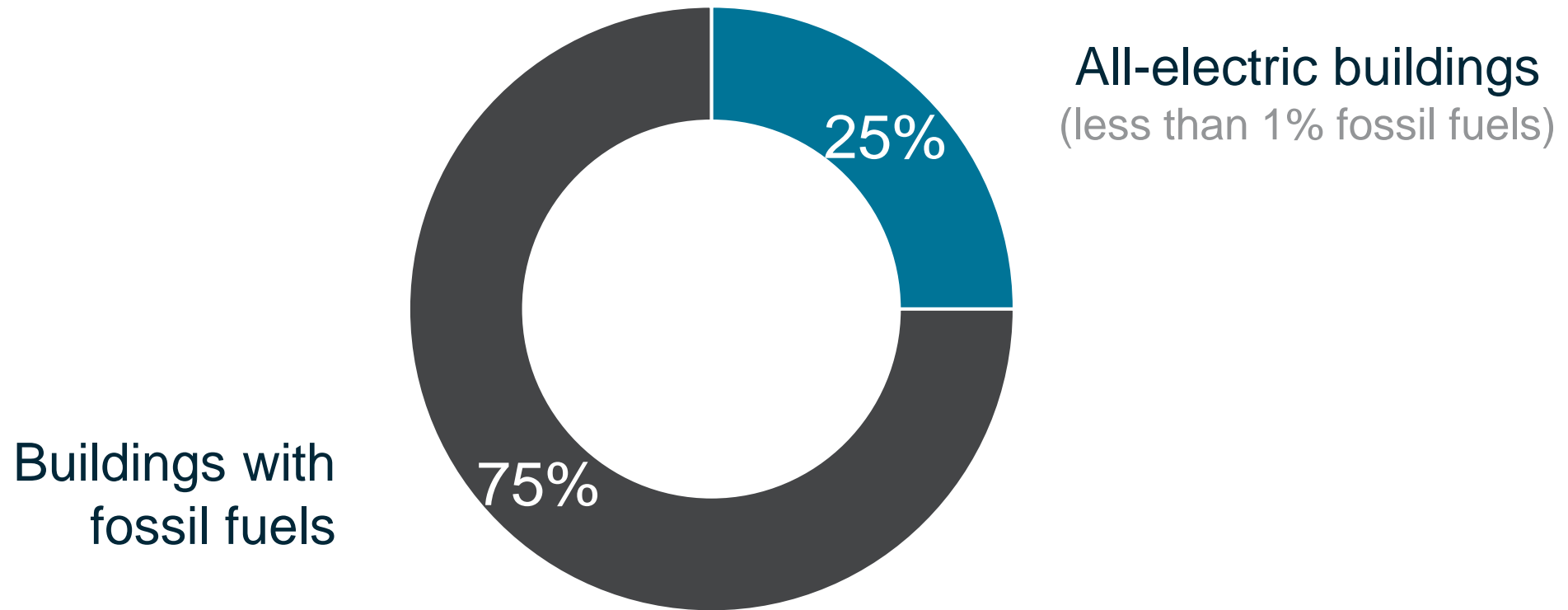
# The role of electrification in buildings



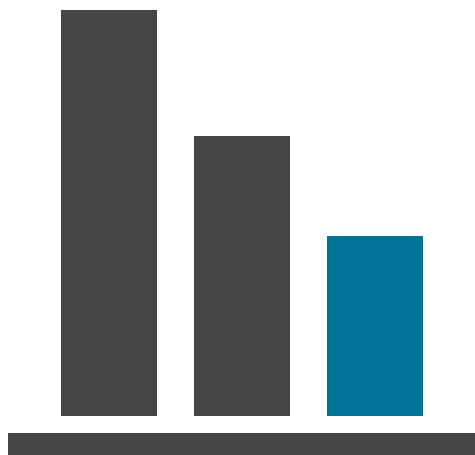
IEA 2021

Net Zero by 2050

# Most buildings certified by NABERS today have significant onsite fossil fuels



# Two things we need from all buildings to get to net zero emissions



## Reduce energy use

To reduce emissions today, and make room for electrification



## Run on 100% renewable energy

By electrifying and purchasing renewable energy electricity



**NABERS is accelerating the transition towards energy-efficient buildings running entirely on renewables**



**N A B E R S**

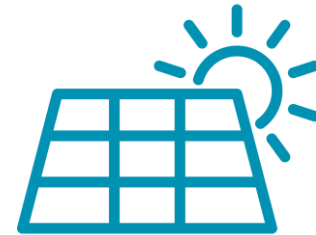
# NABERS driving electrification and net zero



NGA factors  
update



Prediction  
tools



Renewable  
Energy Indicator

**NABERS Energy results will be updated to  
the latest emission factors every 5 years**

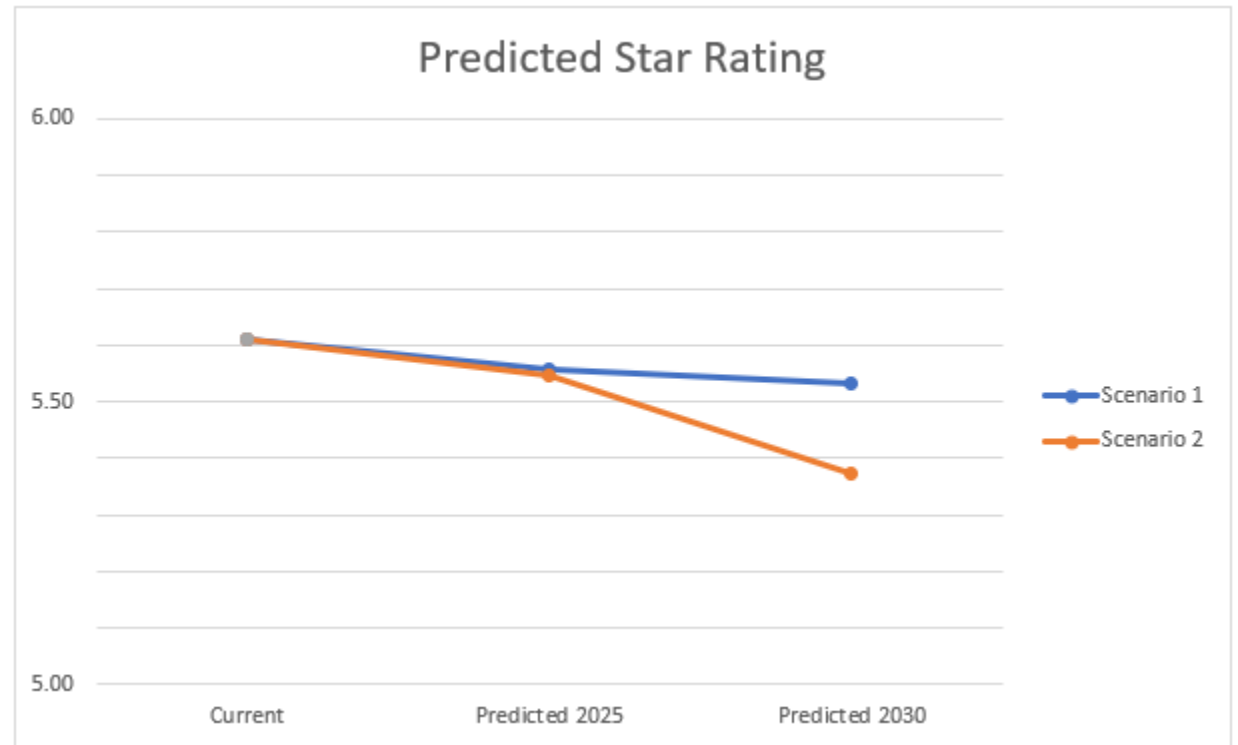


**N A B E R S**



# NABERS prediction tools

- Available for all NABERS rated building types
- Predictions for 2025 and 2030



## How are the tools being used?

- Performance of existing assets over time
- Building design or renovation projects
- Making the case for electrification

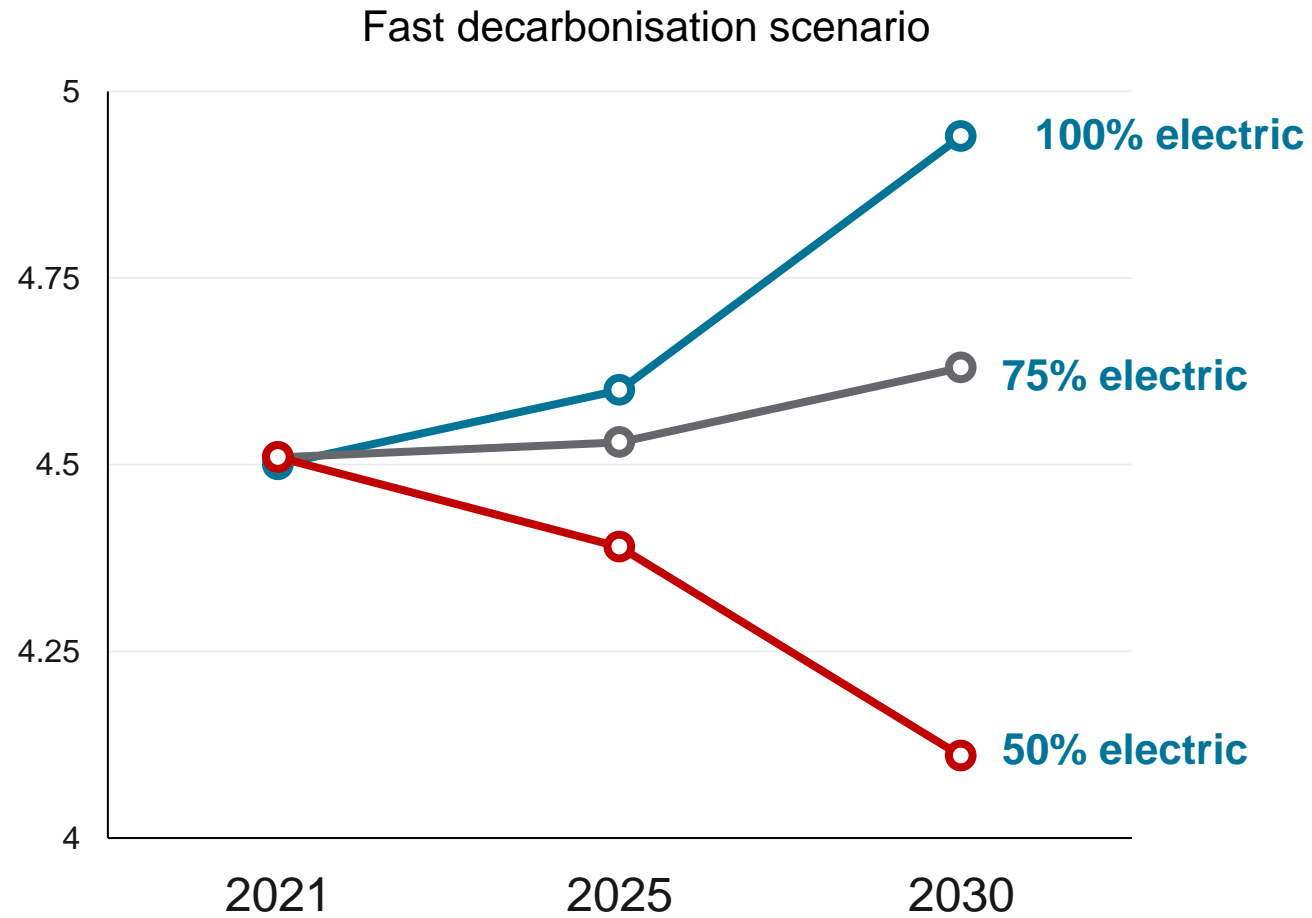
“The NABERS Prediction Tool was instrumental in estimating the NABERS rating the building would get if Mirvac **didn’t phase out natural gas as a fuel.**”

*Dennis Lee, Mirvac*

“The NABERS Prediction tools have proven invaluable in equipping our clients with the **knowledge required to future-proof their buildings** by planning electrification works accordingly.”

*Andrew Naragarah, A.G. Coombs Advisory*

# Example: 4.5 stars NABERS Energy building in Canberra



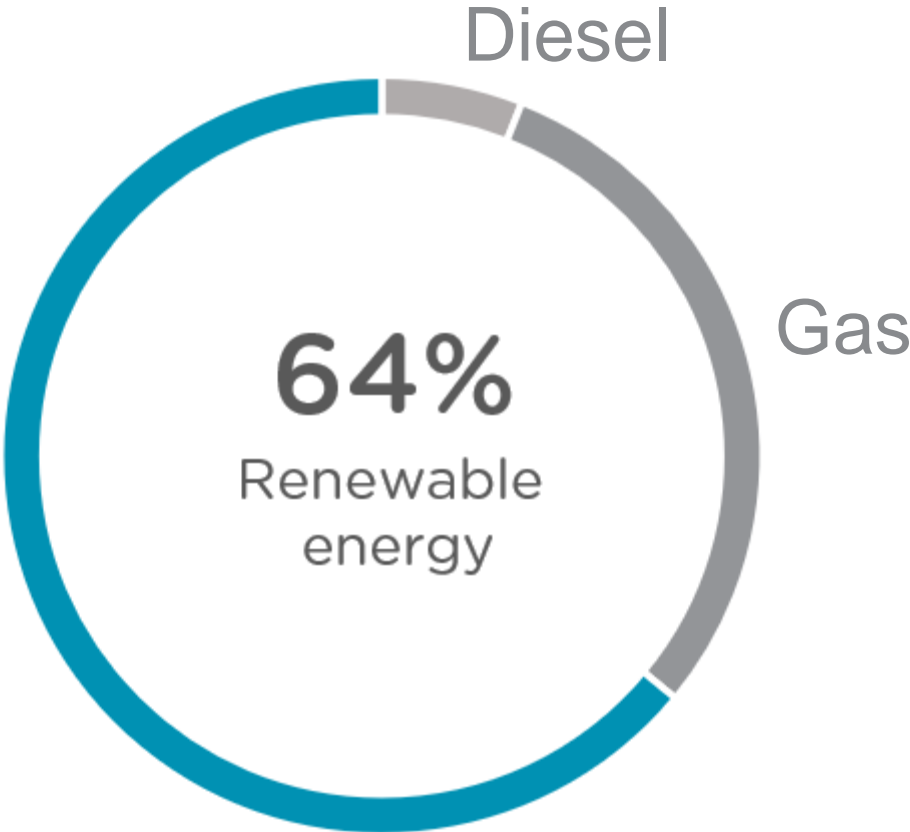
# Encouraging the uptake of renewable energy



N A B E R S

# NABERS Renewable Energy Indicator

The proportion of energy that came from renewable sources during the rating period.



# What is considered renewable energy?



Renewable  
Energy Target



On-site  
renewable  
energy

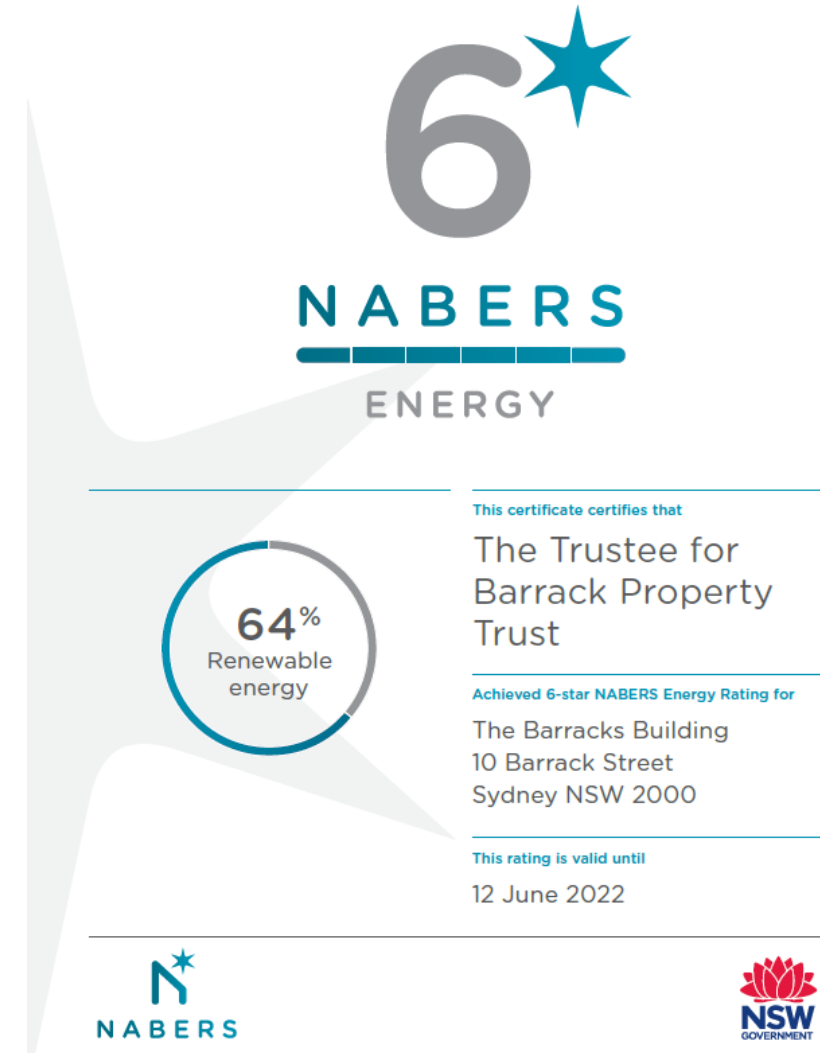


Renewable  
Energy  
purchases

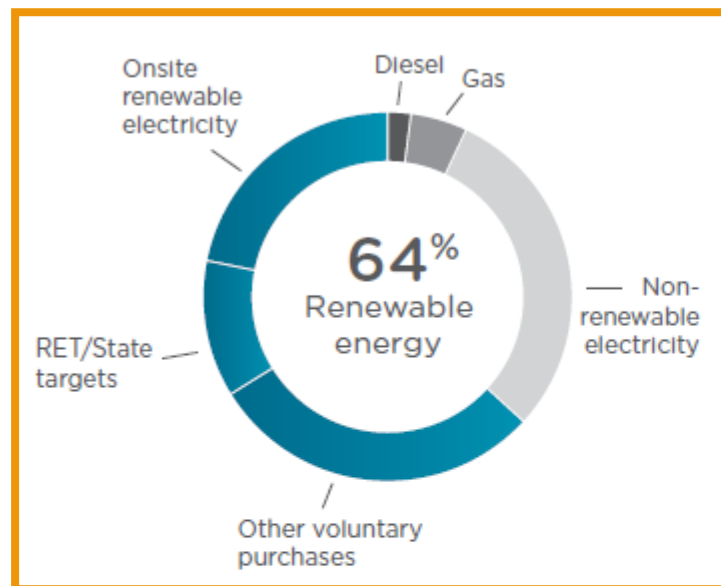


# Who will get it?

- Included in all NABERS Energy ratings
- No change to NABERS Energy rating



## NABERS Renewable Energy Indicator



	Quantity	% of total site energy
<b>Renewable electricity</b>		
Onsite renewable electricity	60,000 kWh	22%
RET and State/Territory targets	37,280 kWh	12%
GreenPower	-	-
Other voluntary purchases (e.g. LGCs)	70,000 kWh	29%
<b>Total renewable electricity</b>	<b>177,280 kWh</b>	<b>64%</b>
<b>Non-renewable energy</b>		
Non-renewable electricity	177280 kWh	30%
Gas	82720 MJ	5%
Diesel	150 L	1%

\*RET stands for Renewable Energy Target

Onsite solar capacity: 200MW

## GreenPower in NABERS Energy ratings

✓ NABERS Energy **without**  
GreenPower

✗ NABERS Energy **with**  
GreenPower



**NABERS is expanding in other ways too**



**N A B E R S**

## Existing NABERS Carbon Neutral pathway sectors



Office buildings  
(BB and WB)



Shopping Centres



Hotels

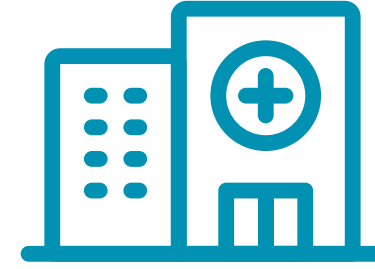
## Project to expand Carbon Neutral to other sectors



Apartment buildings



Data centres



Hospitals



Residential aged care  
& Retirement living



Office  
tenancies



Project to expand Carbon Neutral to other sectors



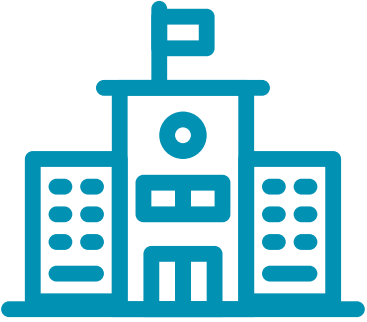
Cold stores



Warehouses



Retail

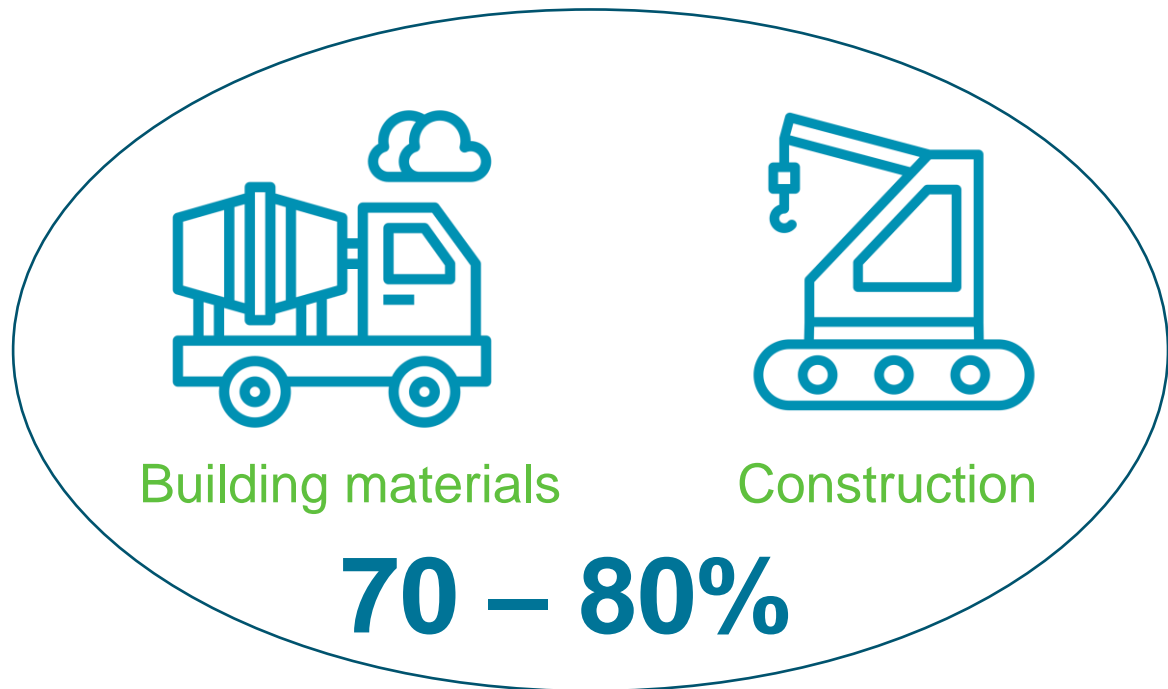


Schools

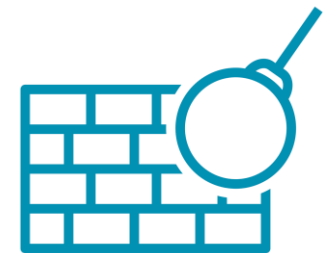
# NABERS Embodied Emissions Framework

All greenhouse gas emissions released when making a product or service ready for consumption or use.

For buildings this includes emissions relating to:



Repairing,  
refurbishing,  
replacing



End of life

# A NABERS Embodied Carbon framework will...



Build on NABERS track record by measuring verifying and benchmarking embodied emissions in buildings



A National framework for buildings to create consistency



Align/partner with others on solutions



Co-design



Thank you

