



**ABCB**

# **NCC 2019 Energy Efficiency**

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Director – Energy

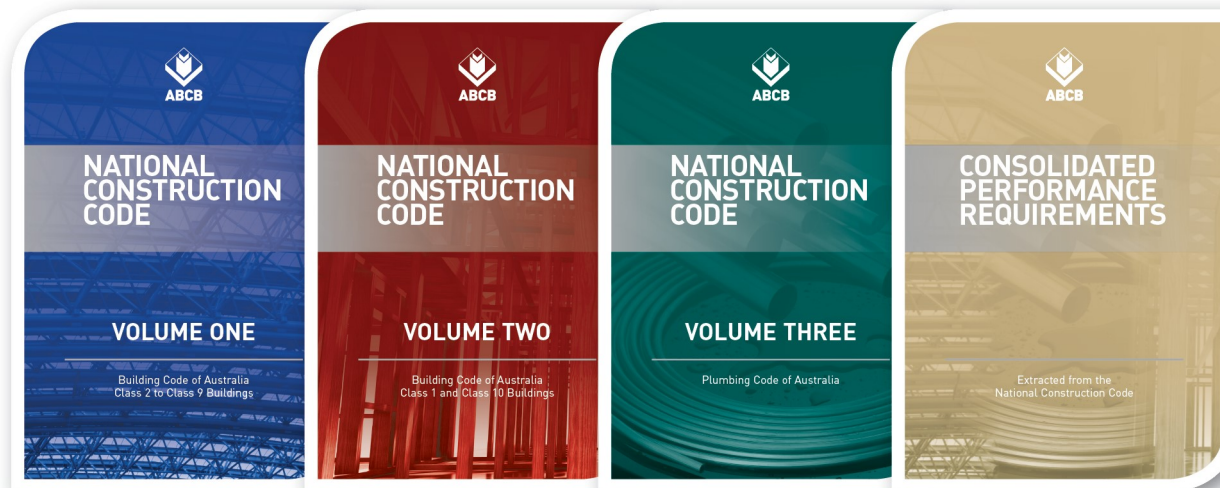
Efficiency

21 November 2017

# Australian Building Codes Board



- Develop and maintain the National Construction Code (NCC) on behalf of the Australian, State and Territory Governments

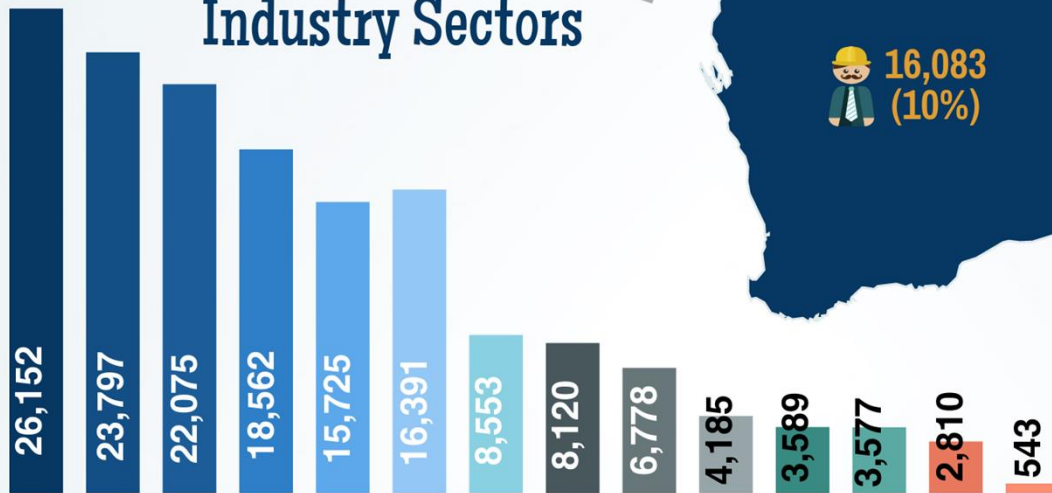


- Economy-wide benefits

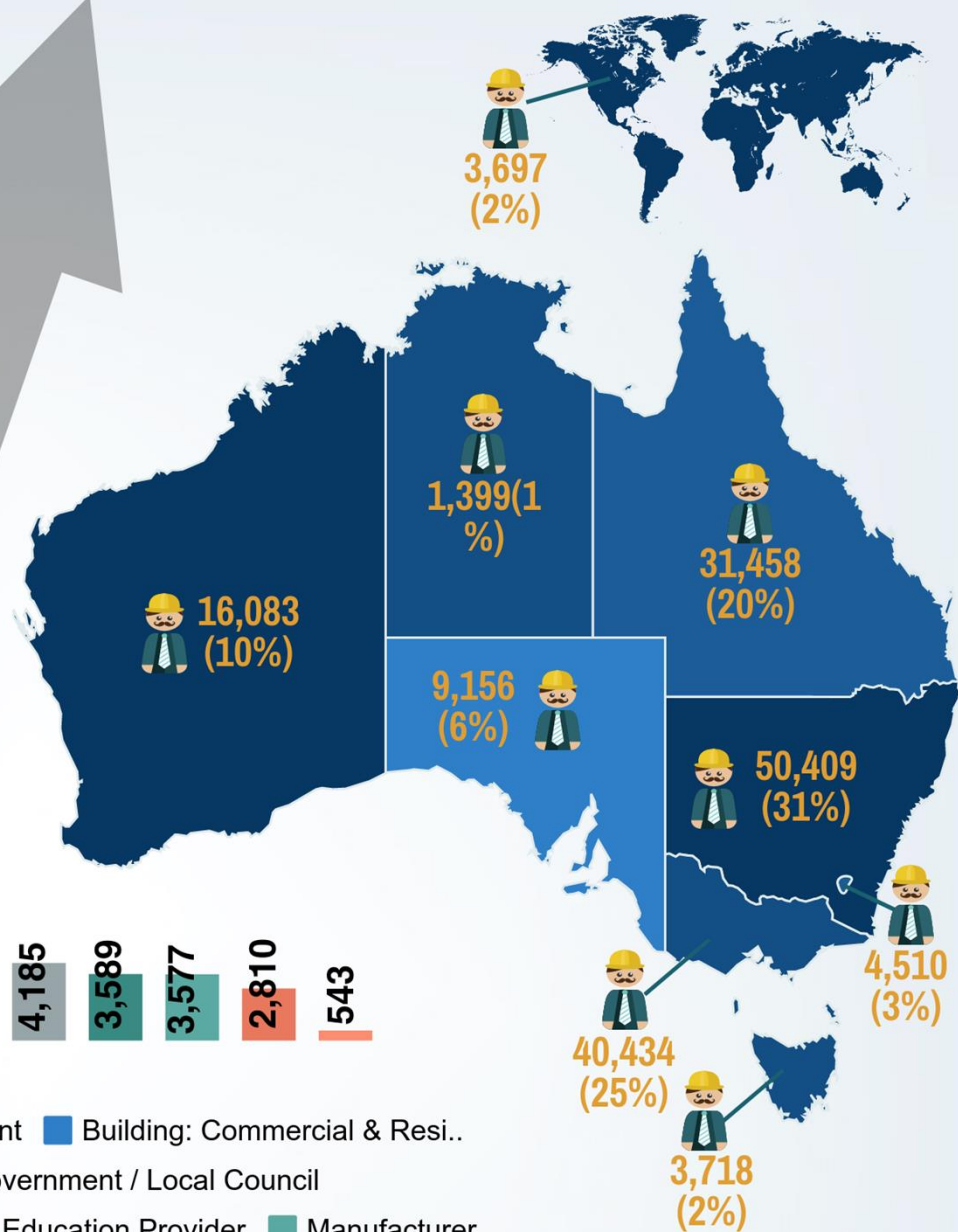
**160,864**  
*Registered Users*

200,000 +  
website visitors  
per month

**Industry Sectors**



- Building: Residential   ■ Architect / Building Designer   ■ Student   ■ Building: Commercial & Resi..
- Engineer   ■ Other   ■ Building: Commercial   ■ Government / Local Council
- Tradesperson / Maintenance   ■ Building Certifier / Surveyor   ■ Education Provider   ■ Manufacturer
- Plumber   ■ Hydraulic Consultant



# Background to the NCC 2019 Project

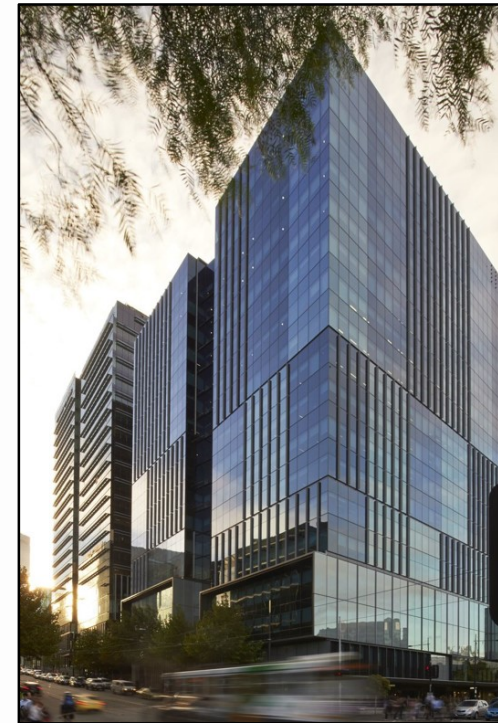


- Instigated by the **National Energy Productivity Plan (NEPP)**
  - Aims to improve Australia's energy productivity by 40% by 2030
- **NEPP Measure 31** *Advance the National Construction Code*
  - Recognises opportunities for energy productivity and emissions reductions
  - Notes need for further evidence
  - Supports the Australian Sustainable Built Environment Council
- Work commenced mid-2016
  - Energy Action
  - Tony Isaacs Consulting / Energy Efficient Strategies
  - Team Catalyst
  - Strategy. Policy. Research
  - The Centre for International Economics

# Project Overview – Commercial Buildings



- Economically feasible stringency increase
  - 1-1.5 benefit-cost ratio (around 40% improvement)
- Quantifying the Performance Requirement
- Increasing Verification Methods
  - Including NABERS Energy, Green Star, blower door testing
- Providing suite of education material

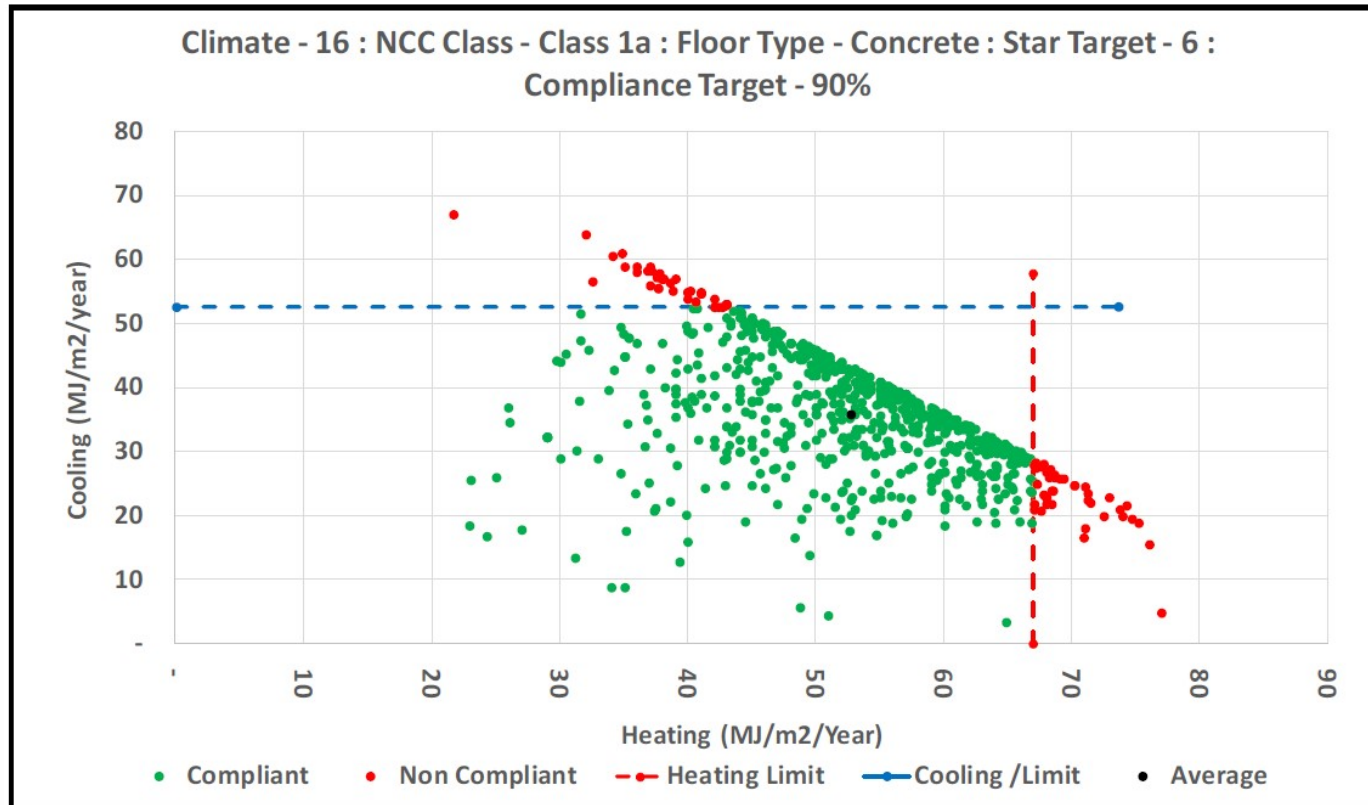


# Project Overview – Residential Buildings



- No stringency increase
- General improvements to strengthen the intent of the provisions
  - Strengthening the reference building Verification Method V2.6.2.2
  - Improved building sealing provisions
  - Heating and cooling load intensity limits for use with NatHERS ratings
- Updated suite of education material

# Heating and Cooling Load Intensity Limits





## Next Steps

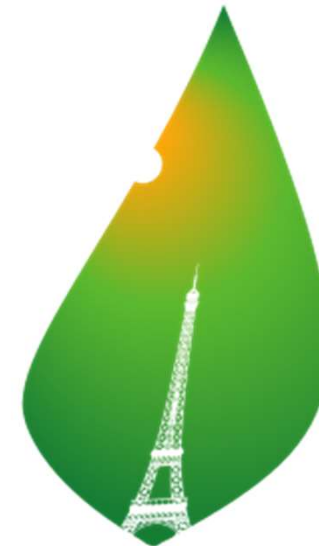
- **Feb-Apr 2018** Public consultation period
  - Draft NCC 2019 changes
  - Regulation impact analyses
- **May-Nov 2018** Finalise NCC 2019 changes
  - Review public comment
  - Obtain necessary approvals
- **Feb 2019** Publish NCC 2019
- **1 May 2019** NCC 2019 comes into effect



# The Future?



- COP 21 Paris Agreement
  - Australia has agreed to reduce its emissions by 26-28% by 2030
- Australian Sustainable Built Environment Council (ASBEC)
  - Building Code Energy Performance Trajectory Project



**PARIS2015**  
UN CLIMATE CHANGE CONFERENCE  
COP21·CMP11