



NCC 2022 residential energy efficiency – Overview of proposed changes

Application



Class 1 houses



Class 2 apartments (Sole-occupancy units)



Class 4 parts of buildings

Overarching Performance Requirements



1. Thermal comfort



2. Annual energy use budget

Options for demonstrating compliance with the Performance Requirements



Deemed-to-Satisfy (DTS) Provisions



NatHERS accredited software

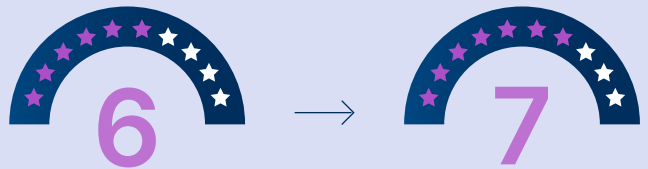


Verification Methods



Performance Solutions

1 Thermal comfort



Current provisions equivalent to 6 stars NatHERS

Proposing to increase to the equivalent of 7 stars NatHERS

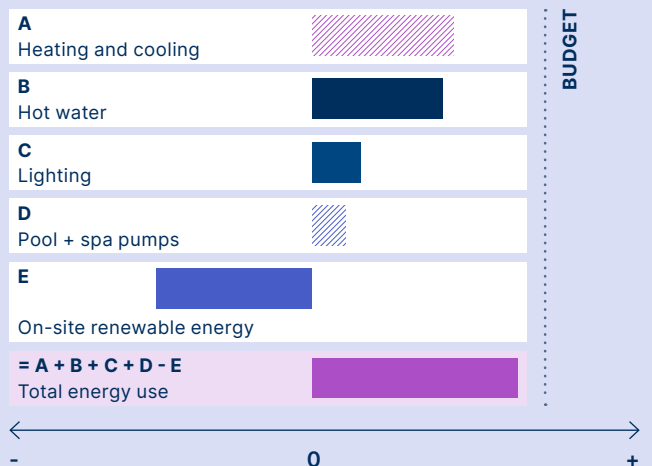
2 Annual energy use budget

Based on 'societal cost of energy': Only applies to:

- Cost of energy used by the building
- Broader 'cost' to society for the use of that energy
- Heating and cooling equipment
- Hot water systems
- Lighting
- Pool and spa pumps

Uses a whole-of-home approach (example below)

- Allows trading between equipment





Option A

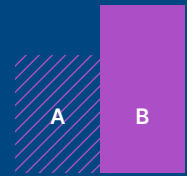
Thermal comfort – equivalent to 7 stars NatHERS

Annual energy use budget – **70% of Option B** allowance

Option B

Thermal comfort – equivalent to 7 stars NatHERS

Annual energy use budget – **moderate** allowance



Benefits of new provisions



Less energy use



Less greenhouse gas emissions



Lower energy bills



More comfortable homes

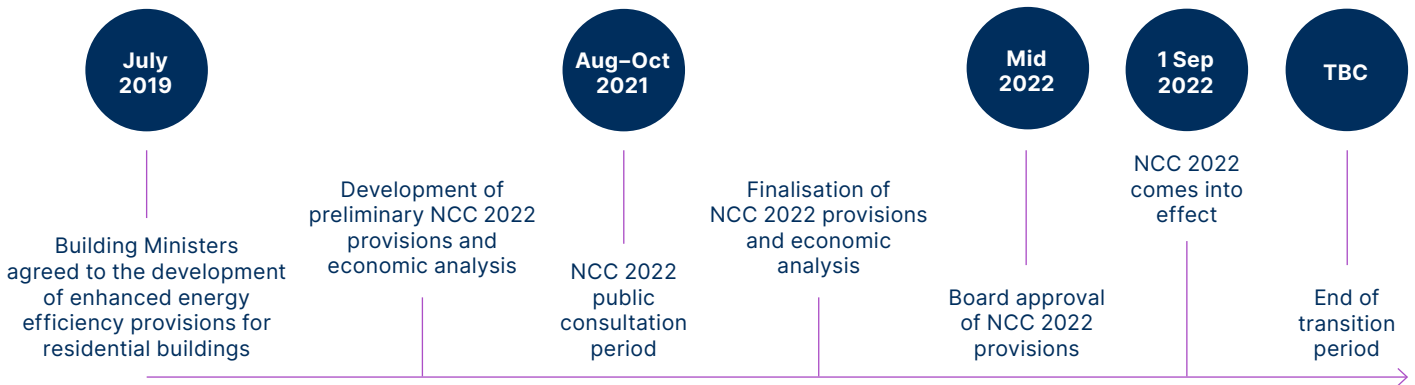


Fuel / technology neutral



Less peak load on energy network

Indicative timeframes



Proposed NCC 2022 condensation management provisions



Builds upon NCC 2019 condensation provisions with:

- Enhanced Verification Method
- Additional ventilation for tightly sealed buildings, certain rooms and roof spaces
- Enhanced vapour permeability requirements for walls in climate zones 4 to 8



Complements proposed energy efficiency provisions:

- No increase in building sealing
- No significant increase in wall insulation