



Waterloo Renewal Project

Designing for thermal comfort
at Waterloo South

September 2026

In partnership with:



*View of future park opposite Waterloo Metro (looking towards Wellington Street)
Artist's impression only. Subject to change.*

Acknowledgement of Country



We acknowledge the Gadigal people as the Traditional Custodians and knowledge holders of the lands on which Waterloo is located. We recognise their deep and enduring connection to the land, waters and skies across this region, and pay our respects to their Elders past and present.

We also recognise the strength and determination of the Redfern-Waterloo community and its leaders, who have long fought for the social and political advancement of First Nations people across this Country.

We are committed to working in partnership with First Nations Elders, leaders and organisations through the Waterloo Renewal Project to support the care, recognition and betterment of Country.

Designing for thermal comfort at Waterloo South



Waterloo South is being designed to provide more comfortable, energy-efficient and climate-resilient homes



Support **thermal comfort** in hotter summers and cooler winters



Provide residents with more **ways to manage their comfort**



Reduce the amount of **energy homes need for heating and cooling**



Help **lower emissions**

Homes NSW Performance Objectives



Homes NSW has set high sustainability targets for Waterloo South

NatHERS

NSW ADG
& BASIX

Green Star
Buildings

Green Star
Communities



7-star NatHERS building
average for all
residential buildings

Designed to achieve a
range of thermal
comfort, energy
efficiency and related
objectives

5-star rating for all
residential buildings

6-star rating for the
whole Waterloo South
precinct

Heating and cooling policy for Homes NSW tenants

This policy improves thermal comfort in social housing with insulation, energy-efficient devices, and solar, supporting health and savings.



- Introduced in 2024 while the Waterloo South redevelopment procurement process was still underway
- Provision for future A/C installation will be included in all new homes
- Funding pathway is currently being progressed by Homes NSW, with an update anticipated in early 2027
- A/C units will be procured by Homes NSW to ensure the most cost-effective outcome

A layered approach to thermal comfort

Comfort comes from multiple measures working together

Keep heat out

This can include:

- Insulation
- External shading
- High-performance glazing
- Better-performing façades

Give residents control

This can include:

- Openable windows
- Natural ventilation
- Ceiling fans
- Air-conditioning

Reduce energy demand

This can include:

- Efficient apartment design
- Energy efficient fixtures and features
- Efficient building systems

Start with the buildings themselves

An important starting point is to reduce heat before it enters the home, and to design homes that stay comfortable for longer while requiring less energy for heating and cooling.



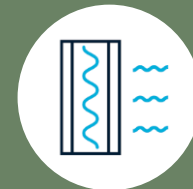
**High-performance
glazing and facades**



Shading



**Apartment orientation
and layout**



Insulation



**Ventilation and air
tightness**



Openable windows

Three scales of thermal comfort

Comfort depends on more than what happens inside an individual home.



The neighbourhood

- Trees, planting and landscaped areas
- Shaded walking routes and places to rest
- Cooler, greener communal spaces



The building

- Insulated and high-performing façades
- Shading and glazing
- Building orientation
- Energy-efficient common areas



The home

- Natural ventilation
- Openable windows
- Ceiling fans
- Daylight and solar access
- Provisions for heating and cooling systems