



Climate Friendly Homes

Focus on staying cool

renew.

Renew supports over 250,000 people each year to live more sustainably in their homes and communities.

**Inspiring
Change**



Popular national and local community events and information showcasing real-life sustainable solutions for homes.

**Enabling
Change**



Practical and trusted activities enabling confident decisions on best options for comfortable, sustainable and affordable living and transport.

**Advocating
Change**



Powerful advocacy generated from our practical experience, analysis, extensive networks and national reach.

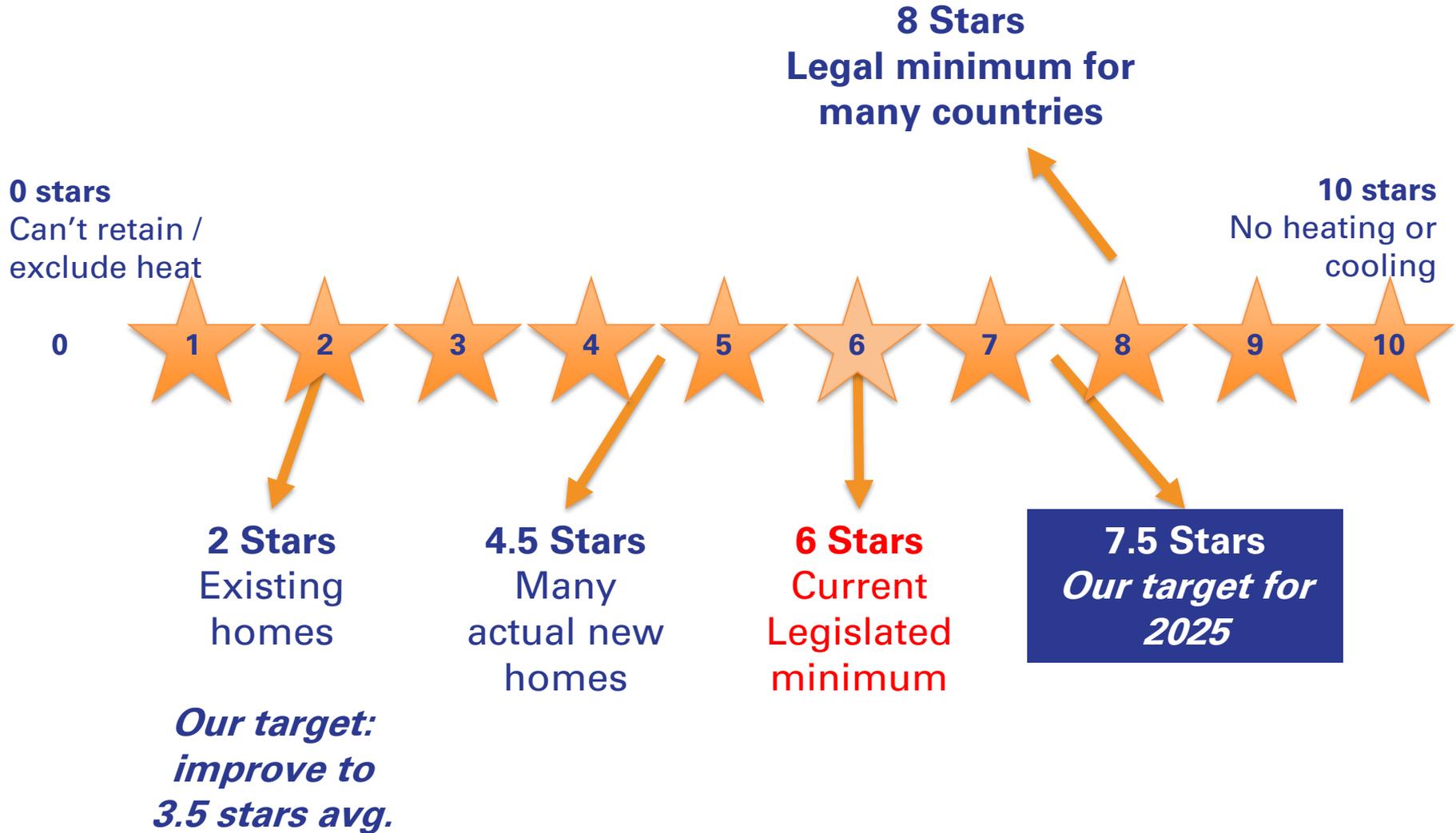
Designing a Climate Friendly Home **renew.**

**51% of Australia's
buildings in 2050
will be built
after 2019.**



Building energy star ratings

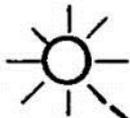
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Building envelope: winter

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POSSIBLE
SOLAR GAIN
THROUGH
NORTH WINDOWS



ROOF 25%-35%

WINDOWS
10%-20%

WALLS
15%-25%

INFILTRATION
10%-20%

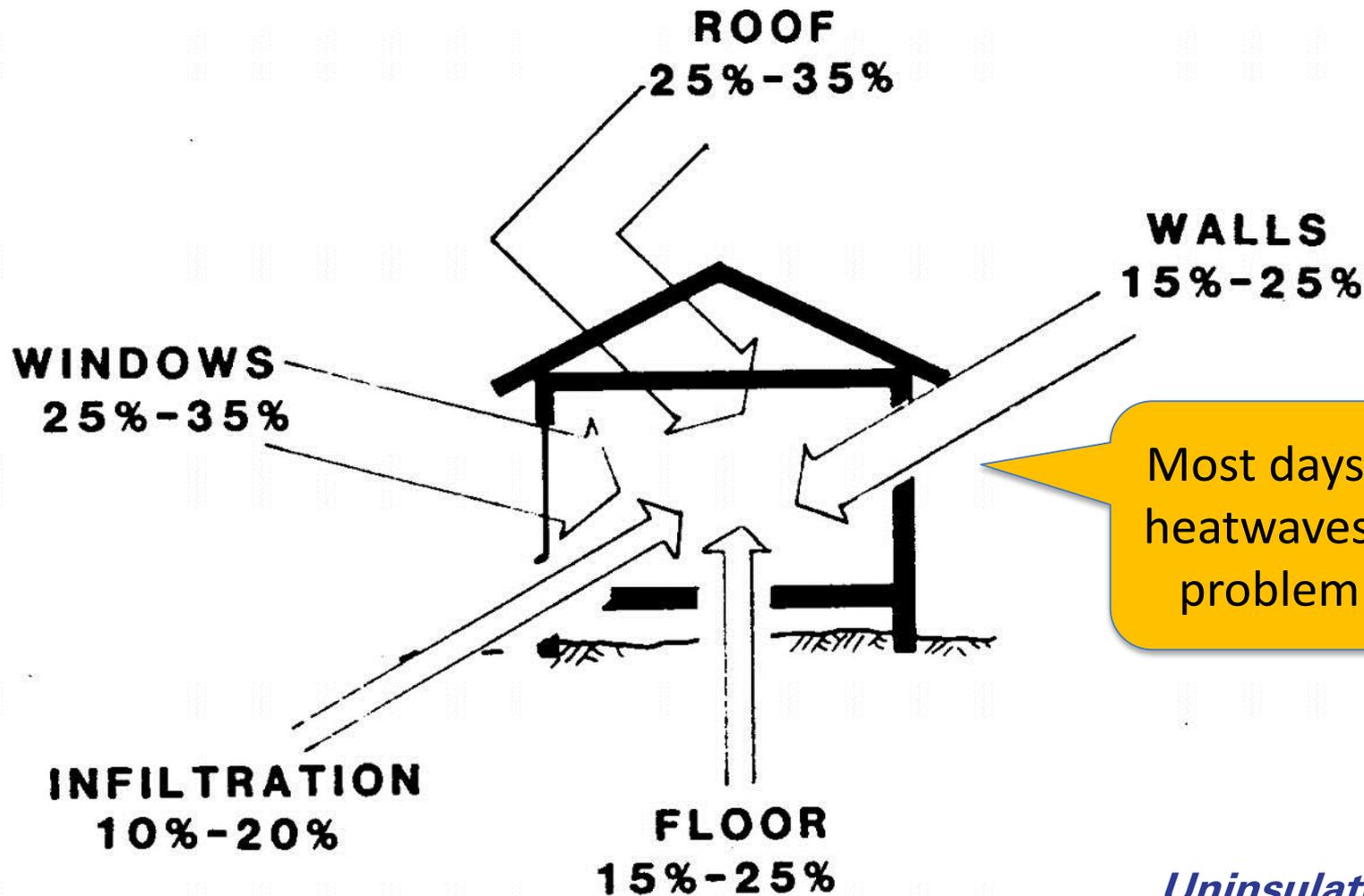
FLOOR
15%-25%

Vic homes use a lot of energy through winter

*Uninsulated house
on timber floors*

Building envelope: summer

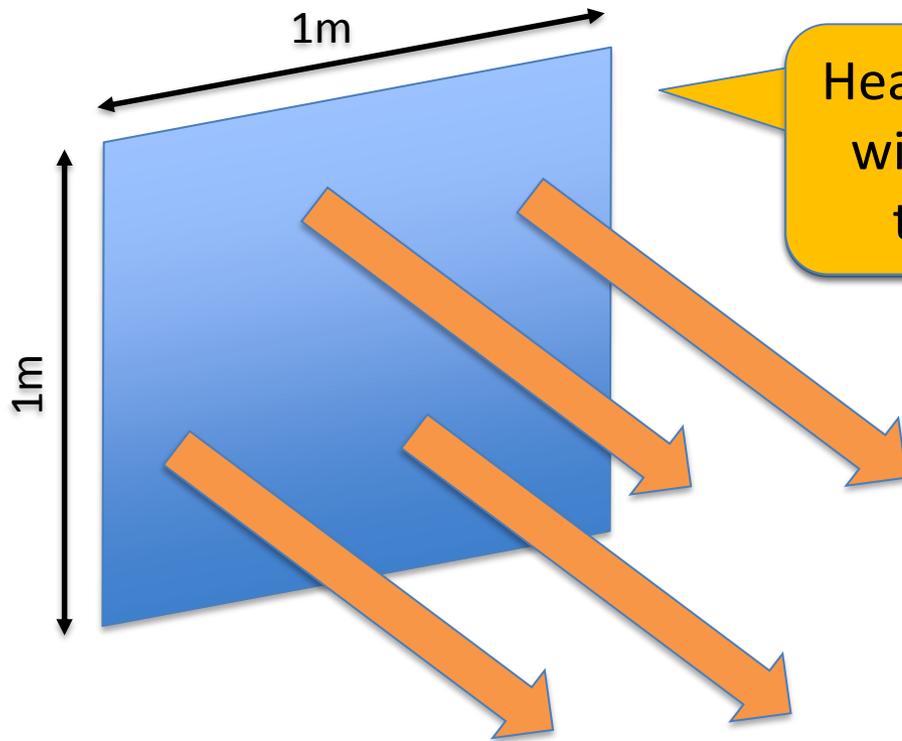
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*Uninsulated house
on timber floors*

Summer sun through windows

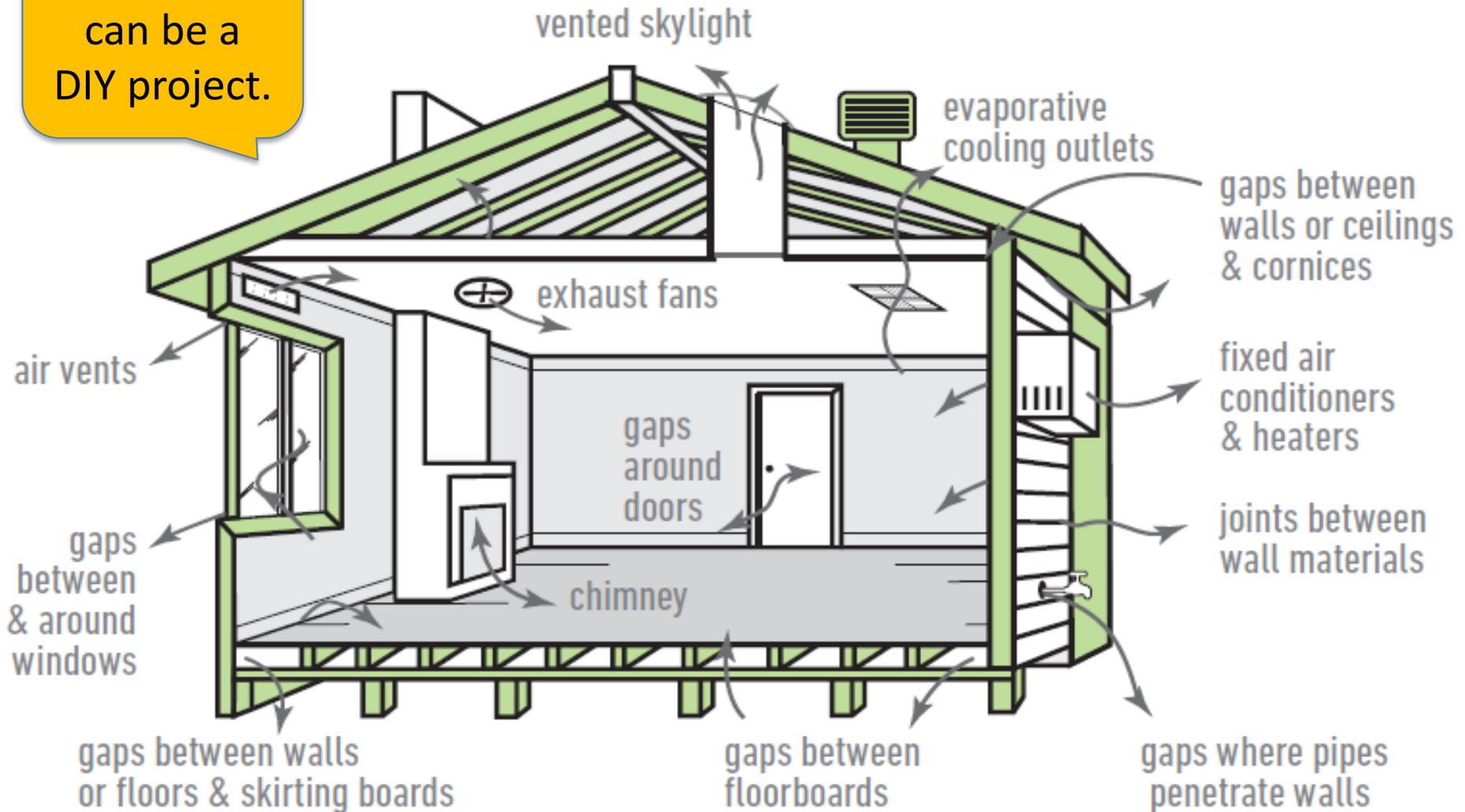
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Air leakage (Source: SV)

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Gap sealing can be a DIY project.



Tips for new homes

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- Orientation: face north
- Eaves for north-facing windows (next slide)
- Summer shade for other windows.
- Air-tightness and insulation
- Allow for cross-ventilation (post-heatwave)
- Light-coloured roof and walls.
- Plan a room that will stay cool, e.g. downstairs.
- Fans & aircon: effective & efficient but rely on power.

Insulation



Fans and aircons

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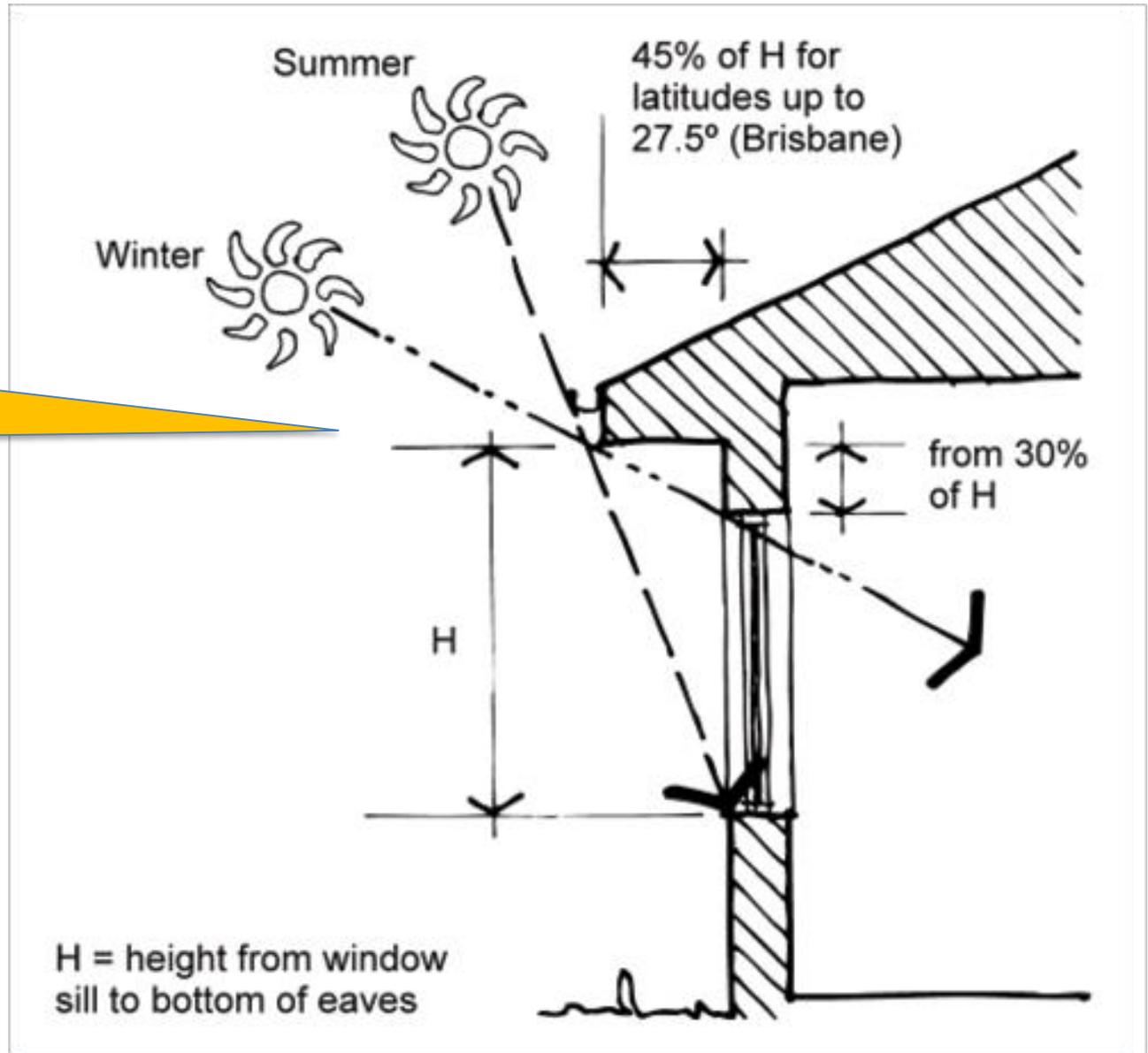
- Fans don't use much power
 - Only cool you when they're running.
 - Ceiling fans have settings for summer and winter.
- Aircon
 - Modern split-systems can be very efficient.
 - Moderate temperature -> bill savings.
 - Try to acclimatise yourself.
 - Pre-cooling can work *if* you've got:
 - Solar panels
 - Well-sealed & insulated home.



Eaves on north walls

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Tall windows need wide eaves



Tips for new homes

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- Moveable shade can allow narrow eaves



Keeping cool in an existing home

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- Prevent direct sunlight from striking windows.
- Reflected heat can be strong too (eg off driveway).
- Can use shade cloth as a temporary solution.



Green shade

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- Trees: big shade
- Deciduous useful for north side



Keeping cool in an existing home **renew.**

- Reduce heat sources indoors e.g. cooking, gadgets.
- Use windows & doors intelligently.
- DIY draught sealing
- Misting sprays



Internal Shading

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Can't shade outside? Well-fitted blinds or curtains still help



Window Treatments

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Simple window films



Information Resources

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- <https://renew.org.au/>
- <https://www.yourhome.gov.au/>



Renew's vision is to create a world in which communities thrive in a way that does not cost the earth.

Our strategic objectives are built on more than 38 years of knowledge on sustainable housing, networks in the building sector and expertise in market advocacy.

www.renew.org.au

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