

Older people often struggle with sustainable living, despite its obvious benefits

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Credit: AI-generated image ([disclaimer](#))

Improving the sustainability of Australia's housing stock is [crucial](#) to meeting national emissions reduction goals. But for older adults, such changes can bring both benefits and challenges.

My [recent research](#) examined the literature on [environmental](#)

[sustainability](#) measures at residences for [older adults](#). These included private homes, [retirement](#) villages and nursing homes.

I found that while [sustainability](#) measures can bring multiple benefits to older [people](#), they also bring challenges. For example, people living in sustainable dwellings may use less energy and water which leads to lower bills. But older people may suffer cognitive decline and struggle to use sustainable technology devices.

The full effects of environmentally sustainable features must be better understood if we're to provide seniors with high-quality residential environments.

Sustainability and aging: A complex mix

Forecasts suggest that by 2056, [22% of Australians](#)—or 8.7 million people—will be aged 65 or older. High-quality residential environments are important to maintaining the welfare of these people as they age.

Environmental sustainability is playing an ever greater role in residential development across the board, including retirement villages. And [previous research](#) suggests most retirement village residents want to lead more sustainable lifestyles.

As climate change worsens, the dwellings of older adults should allow them to adapt to these changing conditions. The reduced ability of elderly people to regulate their body temperature means global warming is a profound threat to this group.

Improving the sustainability of a residential environment may include:

- reducing waste
- using low carbon or recycled building materials

- solar passive design
- efficient heating and cooling
- using renewable energy such as rooftop solar.

[Some residential projects](#) for the elderly already include environmental sustainability. A [case study](#) of a not-for-profit retirement village in South Australia revealed practices such as innovative floor plans, thermally efficient building materials, good window orientation and a water harvesting system.

And my previous research [found](#) a range of sustainability features at eight private and not-for-profit retirement villages in Queensland.

However, while many retirement village developers prioritize "social sustainability" features such as care provision and social interaction, environmental sustainability is [largely ignored](#).



Credit: Brett Sayles from Pexels

On the plus side

The benefits of environmentally sustainable features in older adults' residential environment include:

- **reduced resource consumption:** sustainable dwellings usually require less water and energy use, which lowers living costs. This is especially important for older adults who often have reduced financial capacity after retirement. Older people also use energy [more intensively](#) than other groups because they have fewer household members, greater heating requirements and spend

more time at home.

- **reduced health risks:** environmentally sustainable measures can lead to healthier indoor environments. For example, good ventilation and high-quality air conditioning often lead to improved indoor air quality and more comfortable ambient temperatures.
- **alleviated environmental challenges:** many older people want their homes to be more environmentally friendly. Doing their bit to alleviate global problems such as greenhouse gas emissions can provide them with peace of mind.

The potential downsides

The challenges of environmentally sustainable home features for older adults include:

- **financial pressure:** the income of many older adults is substantially reduced after retirement. This [can conflict](#) with the high initial investment of developing an sustainable housing and the cost of replacing existing systems with sustainable ones.
- **reducing energy consumption:** in some cases, sustainability measures can involve tolerating slightly higher or cooler temperatures. For example, moving from a gas-heating system to a more sustainable type may [delay](#) the arrival of heat in a room and leave older people uncomfortable for a short time. This may conflict with [older people's](#) [increased sensitivity](#) to ambient temperatures.
- **confusion and complexity:** Older adults can have [reduced cognitive capabilities](#) affecting memory and information processing speed. As a result they may struggle to use sustainable technologies such as smart thermostats. Research has [suggested](#) ways of overcoming this, such as better recognizing the diversity of older adults to achieve a better "person-technology fit."

Next steps

Older adults have unique needs which their homes [must satisfy](#), even when sustainability features are being adopted.

Aging should be seen as a dynamic process with physical, psychological and social dimensions. And the complex interrelationships of aging, environmental sustainability and the residential environment also need to be recognized.

Best practices and lessons learned in creating sustainable living environments for older adults should be [shared](#).

Finally, developers making sustainability decisions should consult other stakeholders. These include contractors, occupational therapists, researchers and most importantly, older adults themselves.

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