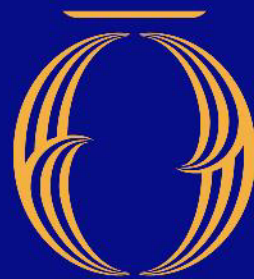


Heating up, Cooling off: Exploring household management of summer heat and energy hardship

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Reducing Energy Hardship
Conference 2024

Dr Kimberley O'Sullivan



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HEATING UP & COOLING OFF

summer overheating and cooling practices at home in Aotearoa New Zealand

DISPARITY

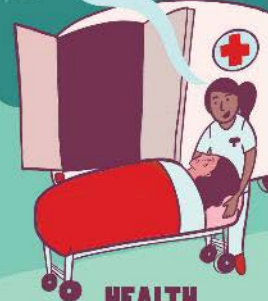


ENERGY POVERTY

Disparity in experienced overheating and summer energy poverty is observed;

Renters, indigenous Māori, and households with children are at increased risk.

Unmanaged indoor overheating poses health risks and even potential fatality.



HEALTH RISKS

I am recovering from illness, I find the heat of summer does add to my stress & anxiety.

RESIDENTIAL OVERHEATING IN NEW ZEALAND

ALMOST

3/4

of respondents were experiencing some home overheating

We have overheating problems in the rooms upstairs, they are further from the heat pump

COOLING METHODS

PASSIVE → ACTIVE

we've transitioned from passive to active cooling

Passive cooling without using energy

Active, cooling with electricity or other energy source

Current cooling measures achieve thermal comfort around half of the time

ENERGY SYSTEM

Our energy system needs to be able to deal with increased need for electricity,

from electrically powered cooling we now use

INCREASED ENERGY USE



We need to make our future energy system fair so everyone can keep cool when they need to

Ngā mihi ki a koutou

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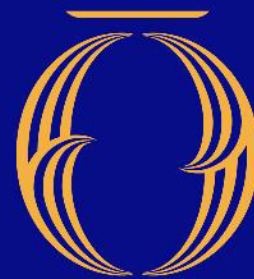
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