

Towards energy equity in mid-Canterbury

Place-based collaboration

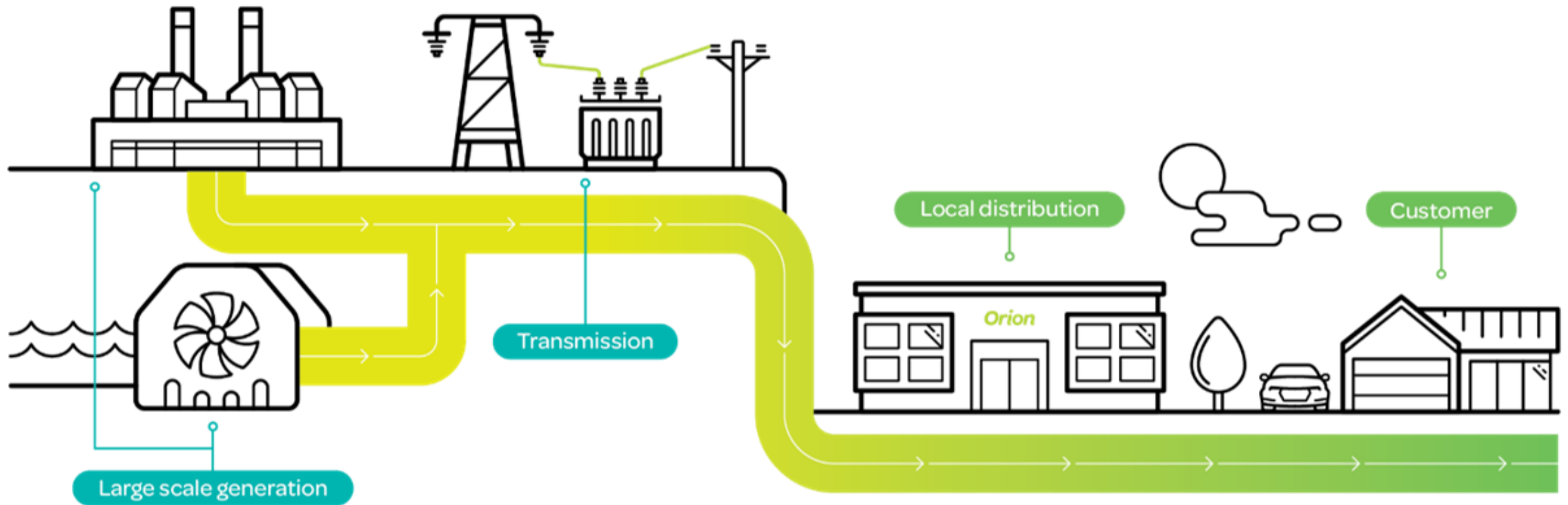
OERC Symposium
November 2022





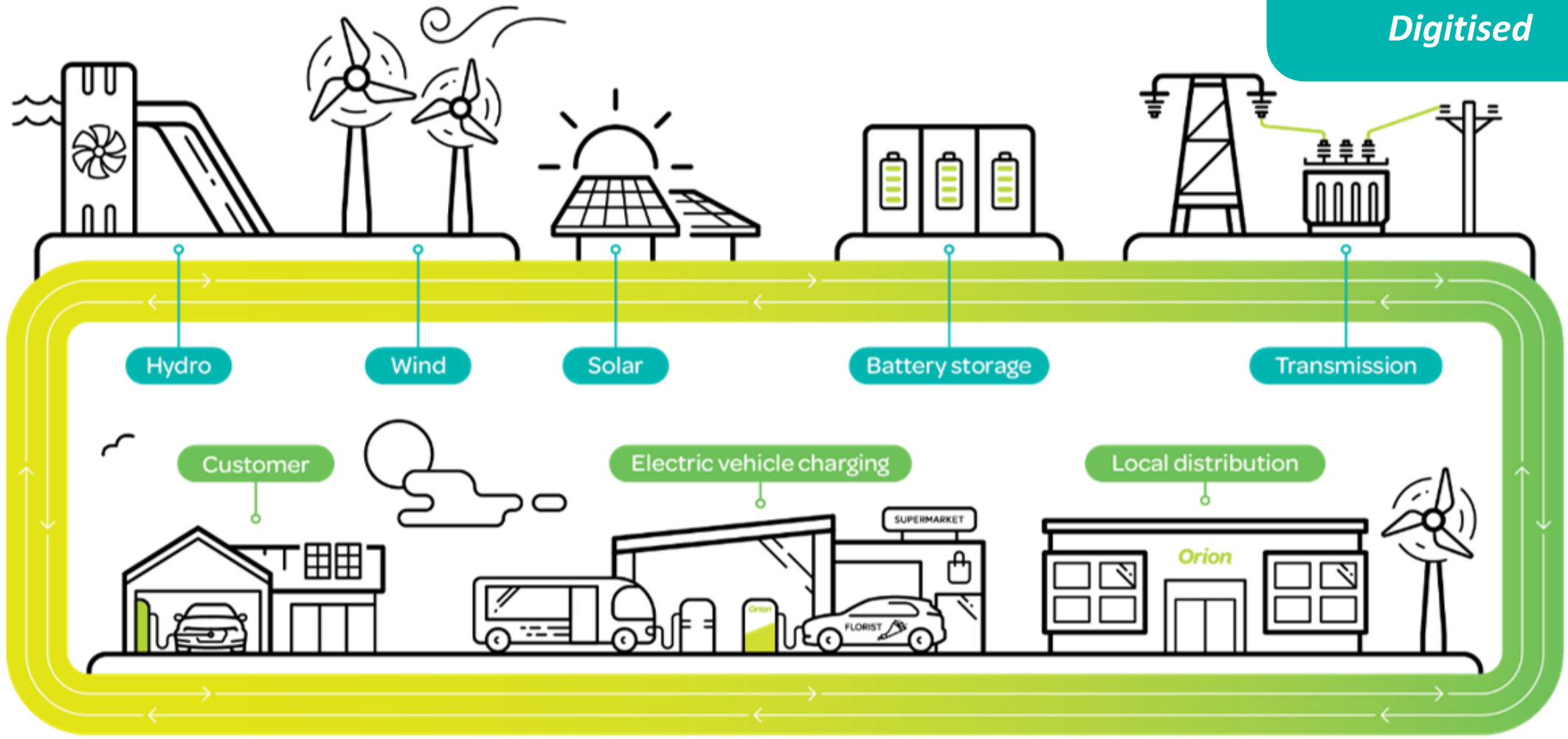
What does a 'just energy transition' look like for our communities?

From keeping the lights on - electricity 'pipeline'

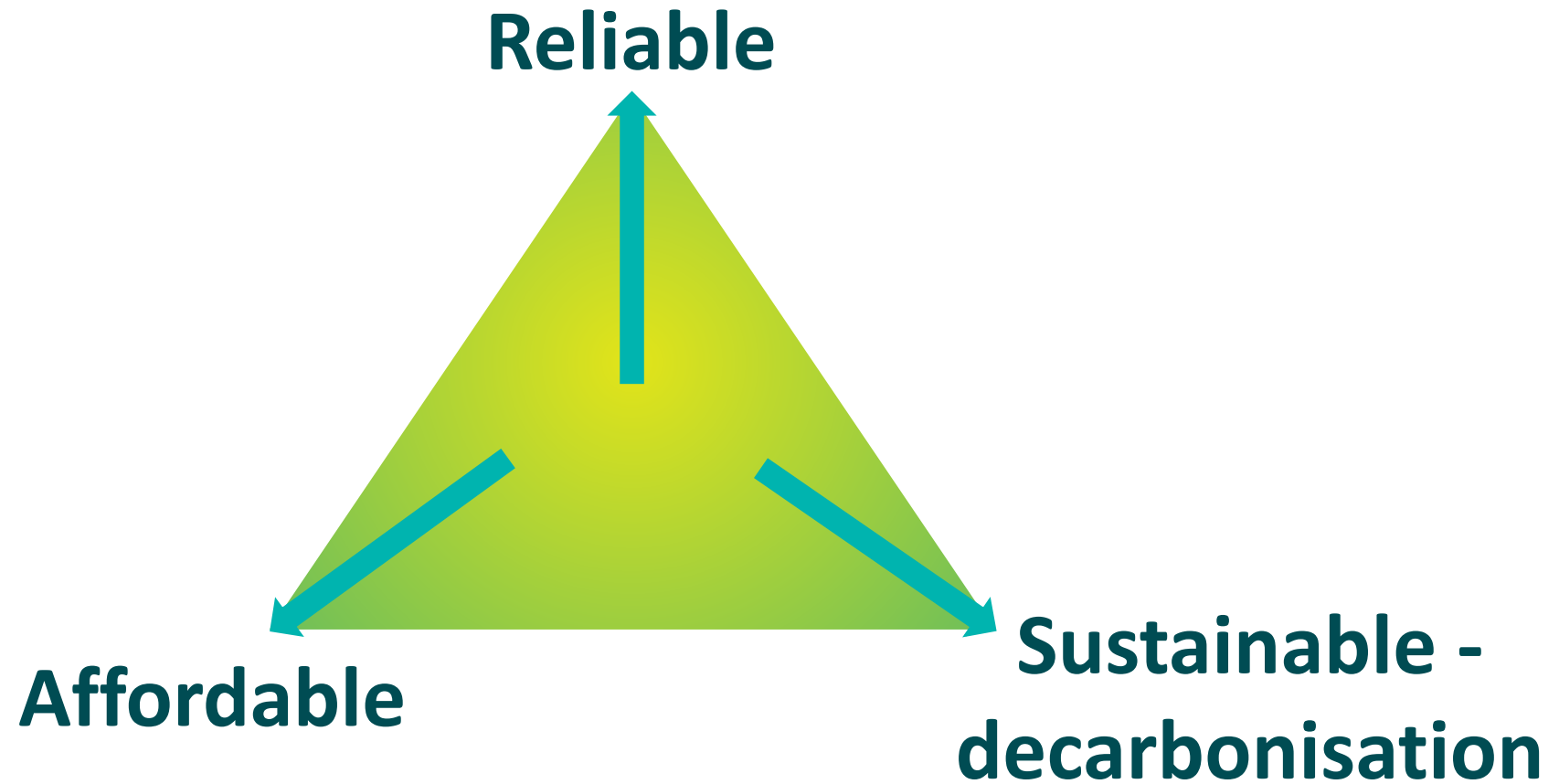


To a decarbonised energy system

*Decarbonised
Decentralised
Democratised
Digitised*

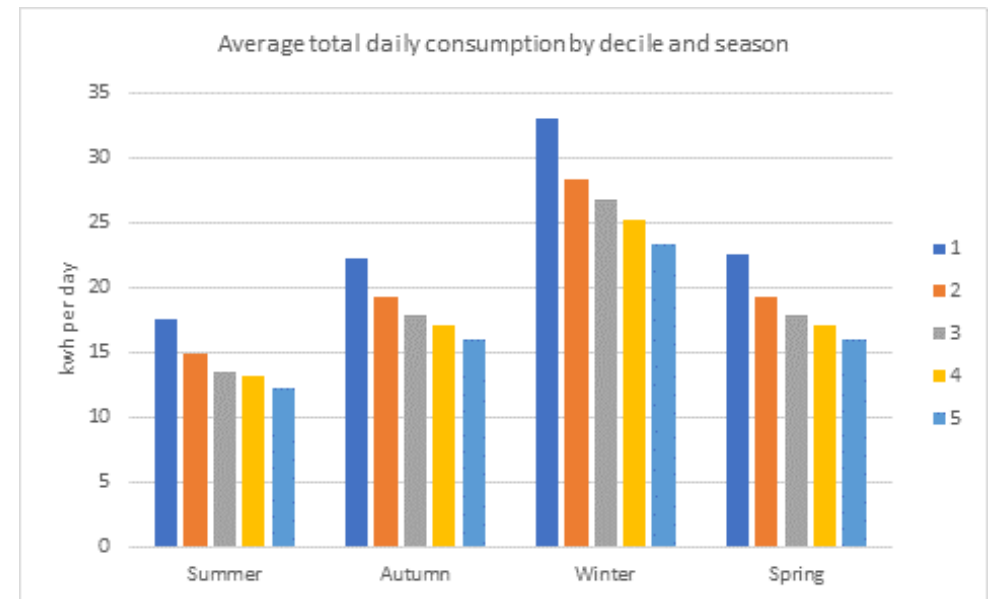
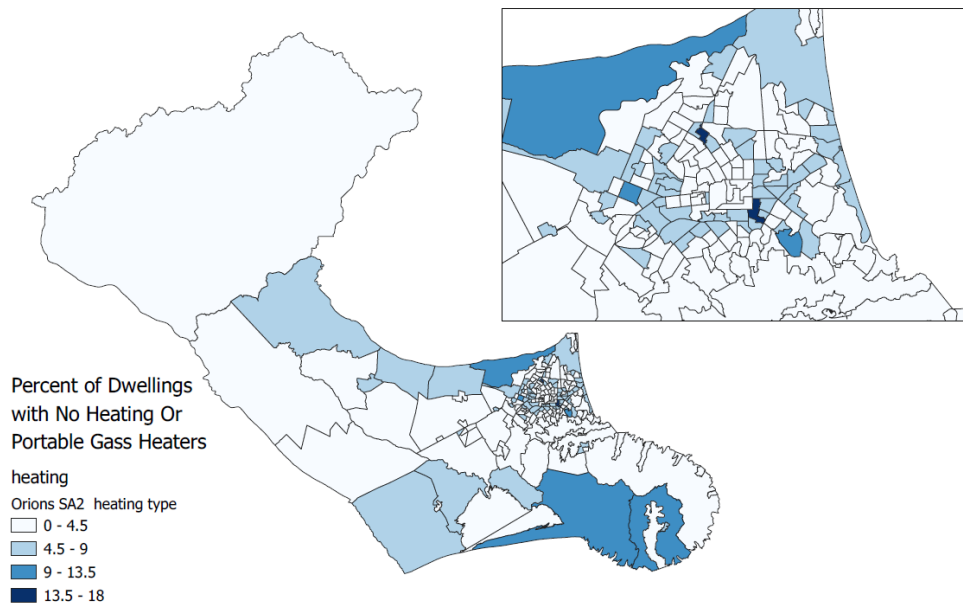


While balancing the 'energy trilemma'



Energy Equity?

- Everyone has access to fully participate in the future energy system, and affordable access to the energy services they need to thrive
- Already significant inequalities in our region
- High risk this is exacerbated as those who can afford it take up PV/EV etc
- Those who can't afford/access, pay more



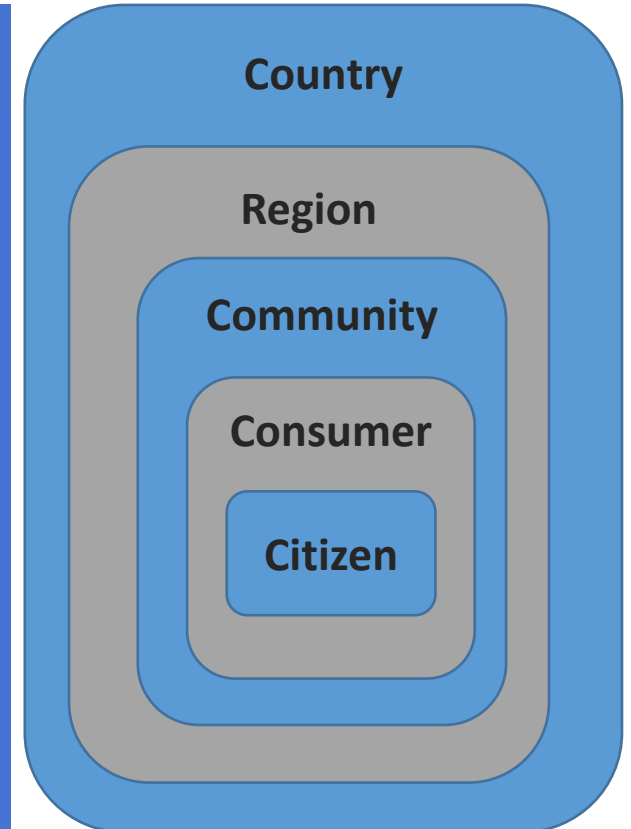
How might we power a cleaner and brighter future with and for our communities



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Benefit of Place-based Energy Transition

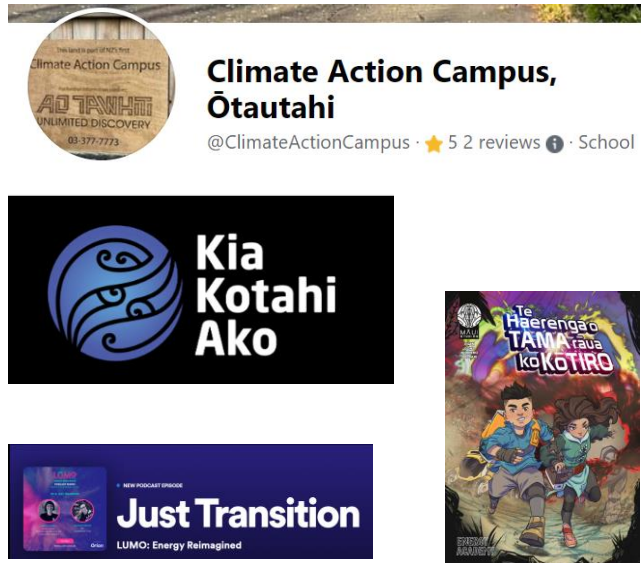
Costs less, more energy savings, wider social benefits



<https://netzeroweek.com/local-energy-systems-an-answer-on-our-doorstep/#/>

Examples of collaboration

Energy Literacy & Capability



Change is here. Te Kōunga Paparangi sets out our 88 actions to mitigate climate change, build resilience, and promote sustainable business practices.

At its heart is our inter-generational approach: "Mō tātou, ā, mō kā uri ā muri ake nei – for us and our children after us".

In taking care of Papatūānuku, we are taking care of our people now and in the future.

Reducing energy costs in homes / insights



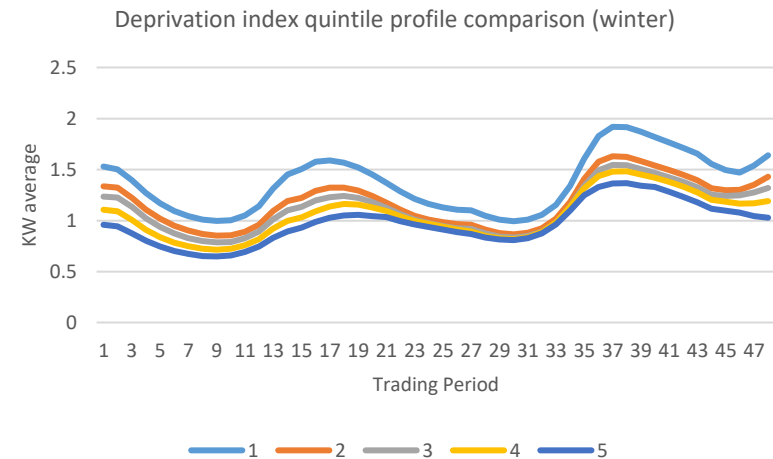
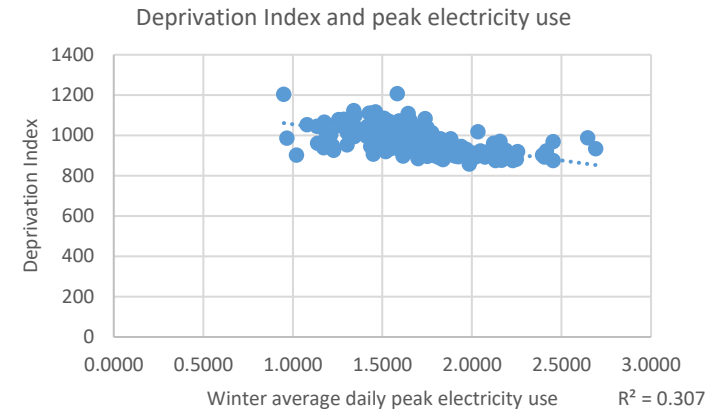
Distributed Energy Resources



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Metrics and Analysis

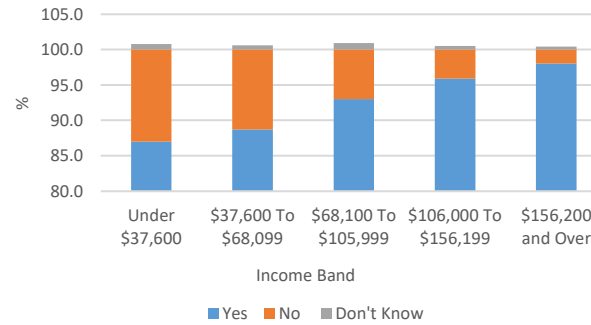
- Early exploration – Smart meter data
- Looking for local picture
- Informing our forecasting



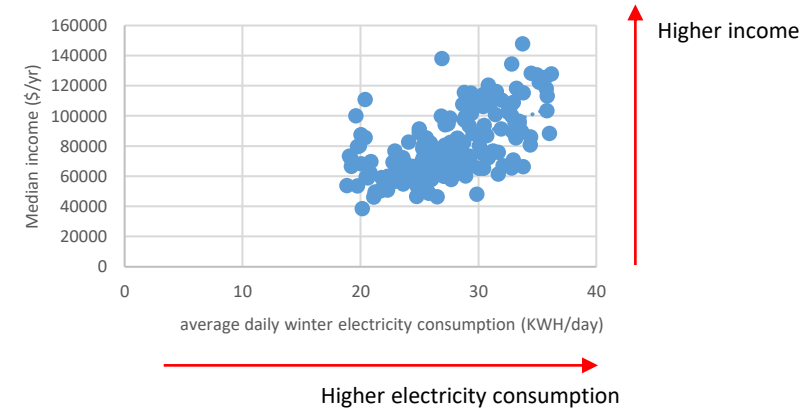
Comparing Energy Use and home health

- Link between income energy use and dampness
- Help to inform target areas for in home assessments

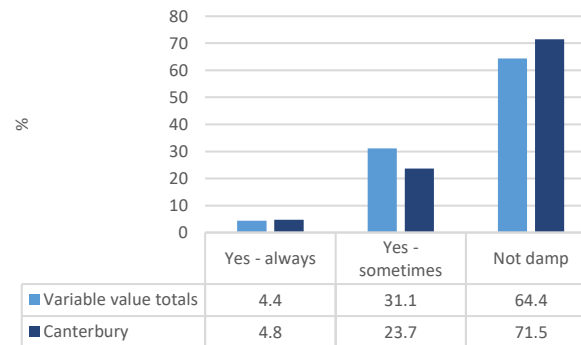
Can you (and your partner) afford to keep your accommodation adequately warm? (New Zealand)



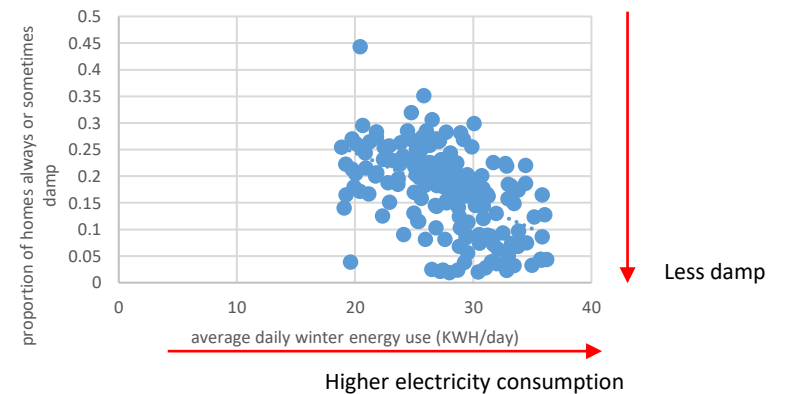
winter electricity consumption and income by SA2 – Orion network



Damp



winter electricity consumption and damp by SA2 – Orion network



Ōtautahi Community Housing Trust /Orion Project



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Ōtautahi Community Housing Trust /Orion Project

What:

- Improve visibility of electricity use in households using behind the meter tech

Impact:

- Health and wellbeing of participants improved
- Visibility as a tool to improve effective use of electricity is established

How:

- Monitoring system trial using homes within OCHT

Tenants are welcoming of the project and have been positive through the whole process, despite some technology issues in the start

To date:

- **17 homes with devices**
- **Strong relationships with feedback going both ways**
- **Improved reporting for tenants**



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Ōtautahi Community Housing Trust /Orion Project

Learnings so far:

- **Two methods have been trialled to onboard tenants, with a third lined up, using a combination of both**
- **Tenants are more engaged and excited about their power bill and the reporting we provide**

Workshop to explore collaboration towards equitable energy future in mid-Canterbury

- 24 people, 16 organisations
- Share current initiatives
- Gaps / opportunities
- Focus areas
 - Collective vision/ToC
 - Community engagement / place-based co-design
 - Home energy efficiency
 - Energy education/literacy
 - Sharing data/learnings



In Summary

Achieving energy equity and meeting decarbonisation goals (while keeping the lights on)

Just transition – it's a journey

Customer/community (people!)

- Learning/understanding
- Collaboration
- Innovation



<https://www.haveyoursay.oriongroup.co.nz/>

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