

Waikato Affordable Energy Webinar Series

June-November 2026



**Wellbeing
Waikato**
TOIORA O WAIKATO

Research.
Knowledge.
Storytelling.

Click on the Screen Below to Watch the Video of this Webinar:



**Wellbeing
Waikato**
TOIORA O WAIKATO

Research.
Knowledge.
Storytelling.

Wellbeing Waikato



**Wellbeing
Waikato**
TOIORA O WAIKATO

Research.
Knowledge.
Storytelling.

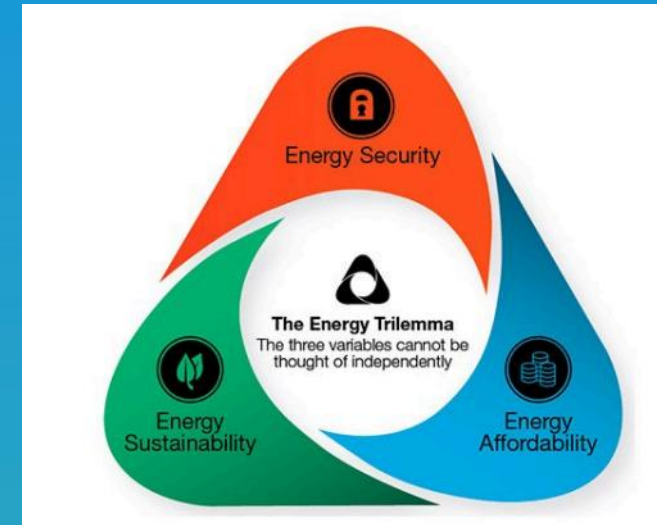
Independent Charitable Trust focused on:

- Regional intelligence about what's most important to households and whanau
- Identifying emerging risks early
- Surfacing underlying drivers, not just symptoms
- Convening government, iwi, councils, community organisations and the private sector around decision-useful insights.



Electricity systems need to be:

- Affordable
- Reliable
- Sustainable



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Storytelling.

4 Big Questions

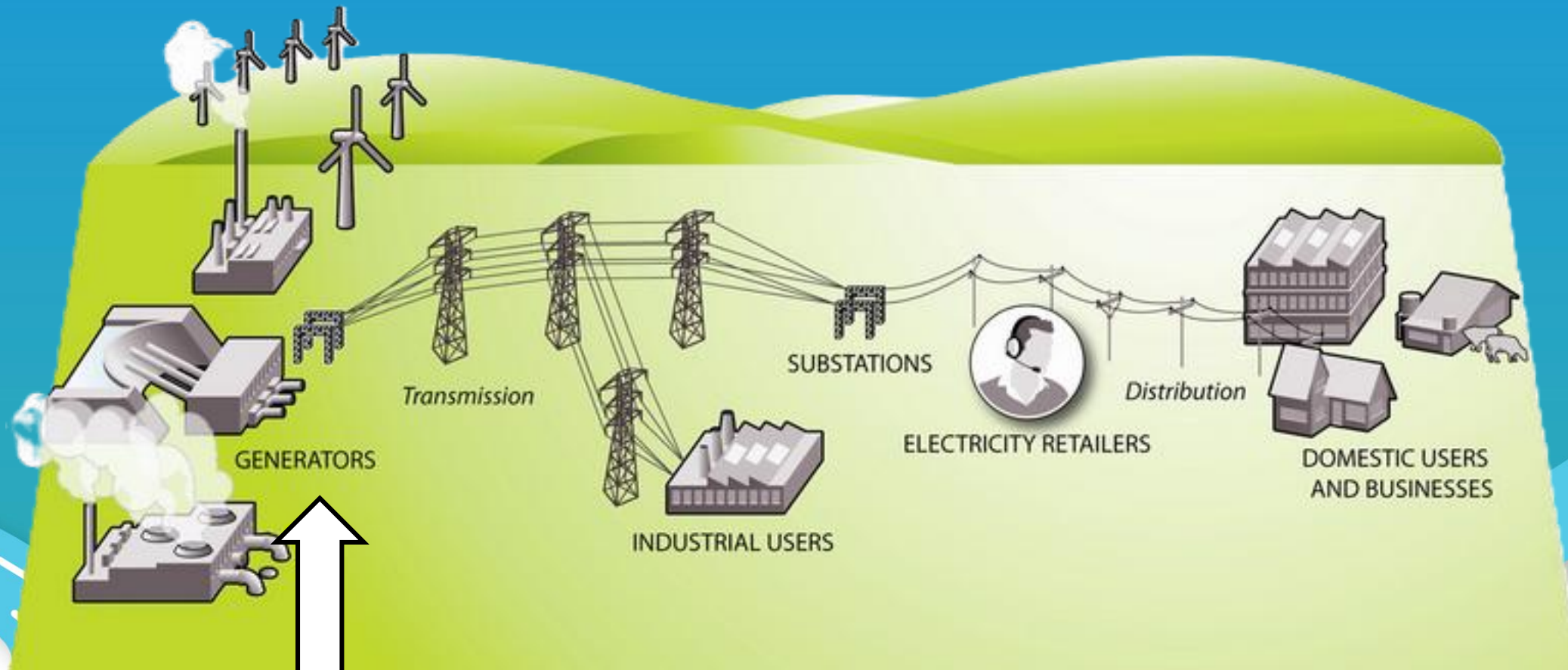
1. How does the electricity system actually work—and why is it designed this way?
2. What drives power prices, and how could they be made more affordable?
3. How does energy affordability affect household and community wellbeing?
4. What would a better system look like—and how do we get there?



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Storytelling.

The Current Model



The system operator is here



Bertram's Proposed Model

Central/Remote Generation and Transmission

Energy Community

Distributed Generation

Wholesale
traders
compete here

Local distribution
network &
independent
retailers

Domestic Users & Businesses With Net Meters

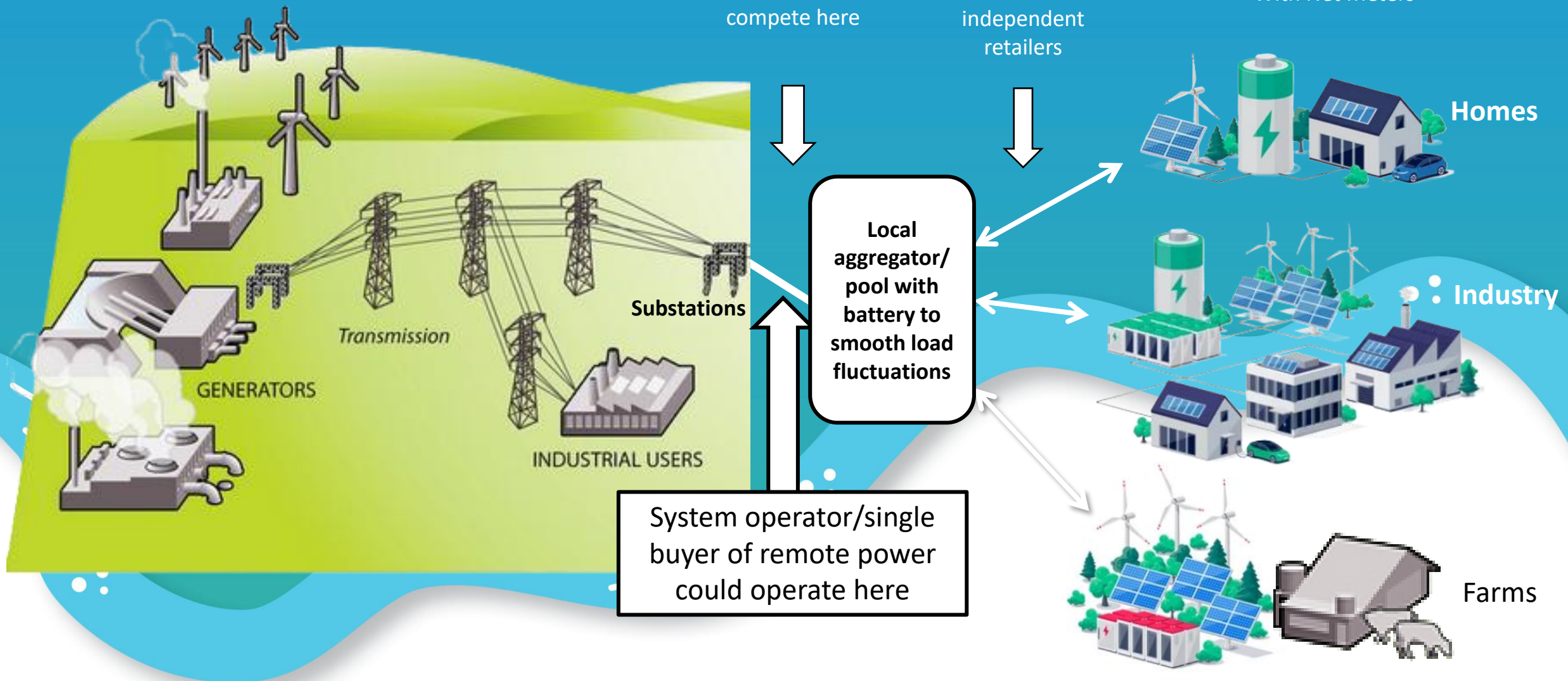
Homes

Industry

Farms

**Local aggregator/
pool with
battery to
smooth load
fluctuations**

System operator/single
buyer of remote power
could operate here



From

Remote generation

Retail Market

Distributed Generation

Transmission

To

Remote Generation
& Transmission

Retail Market

Distributed Generation



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Research.
Knowledge.
Storytelling.



Matt Newman, Community Activator

Rewiring Aotearoa



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Storytelling.

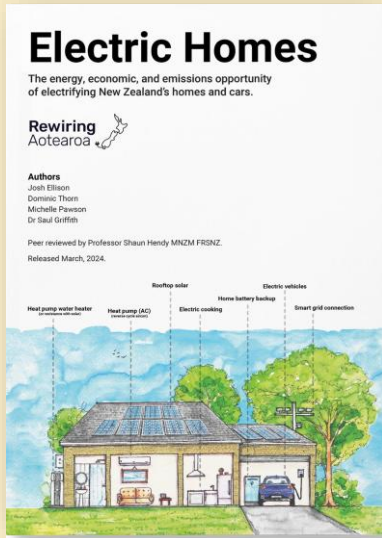
NEW ZEALAND
MADE ENERGY



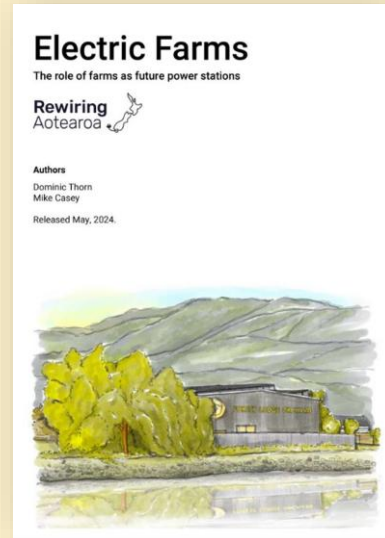
Rewiring Aotearoa



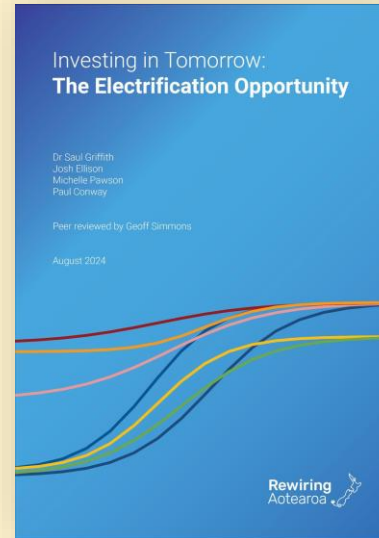
Independent; evidence-based



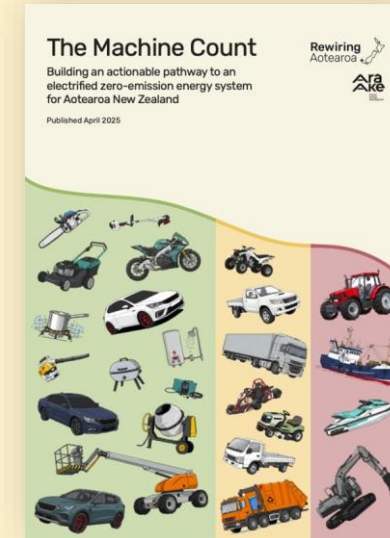
Electric Homes
Report



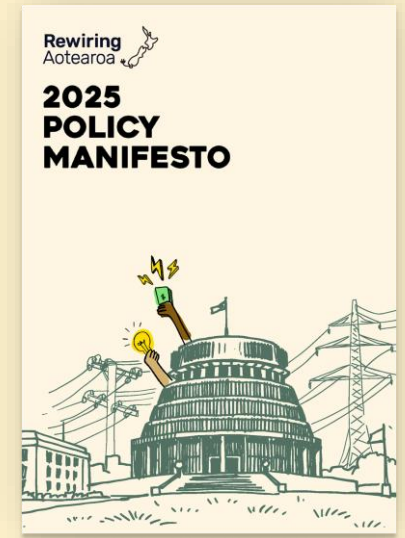
Electric Farms
Report



Investing in
Tomorrow Paper



The Machine Count

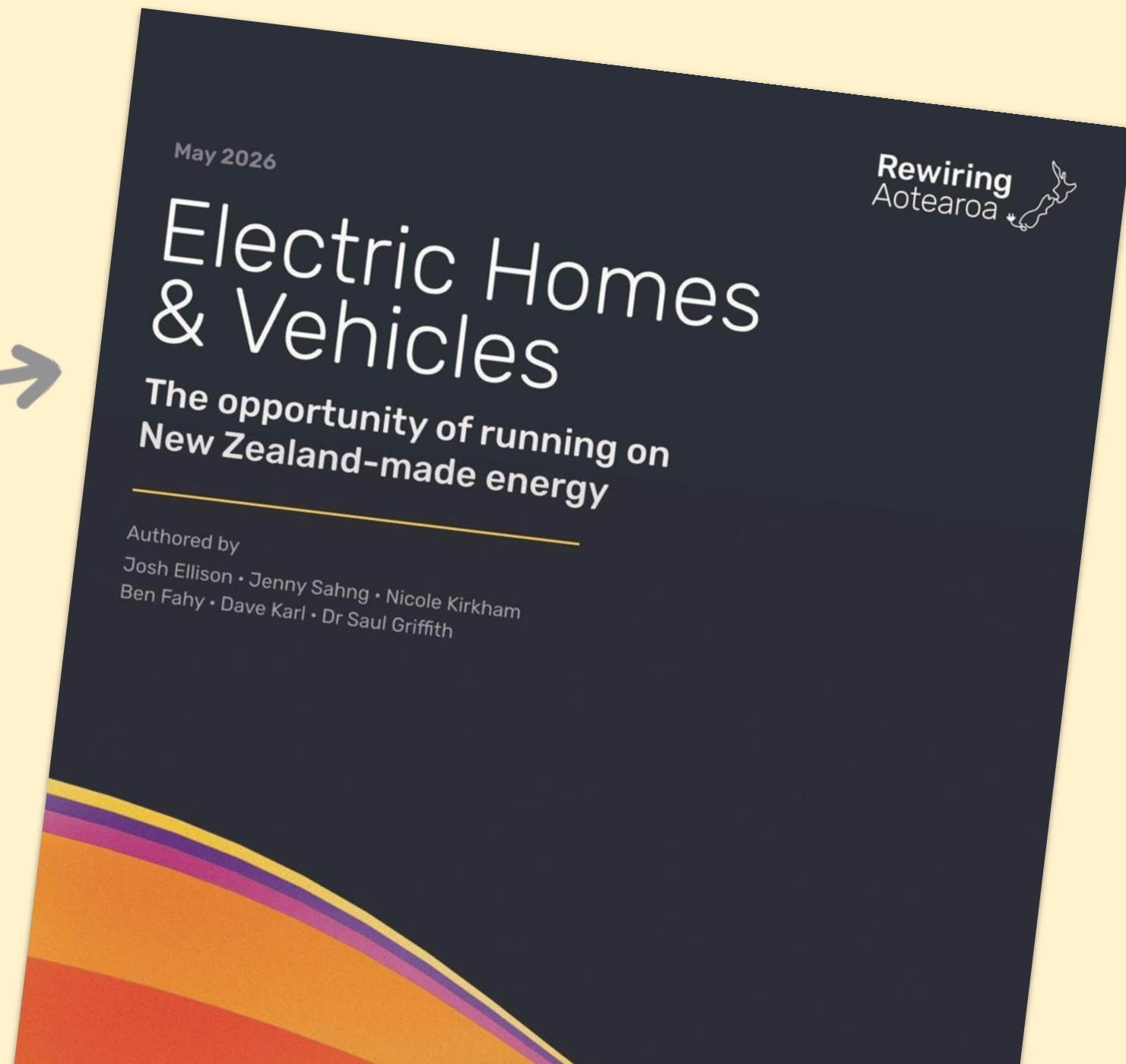


2025 Policy Manifesto

**New report: the
opportunity of
electrifying New
Zealand**



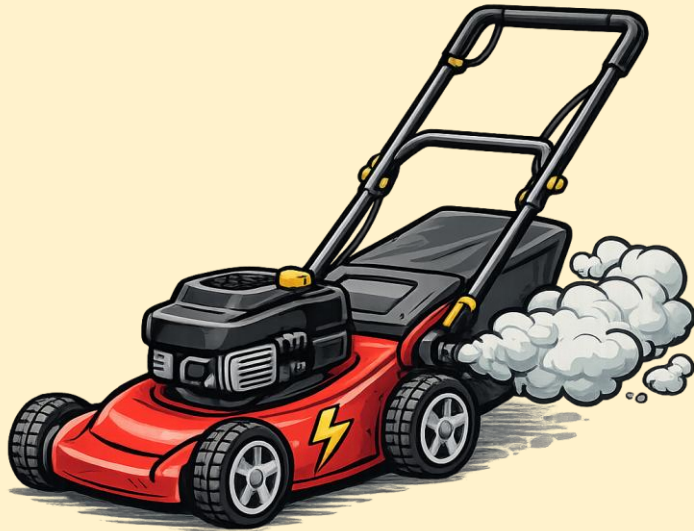
**GET THE
REPORT**



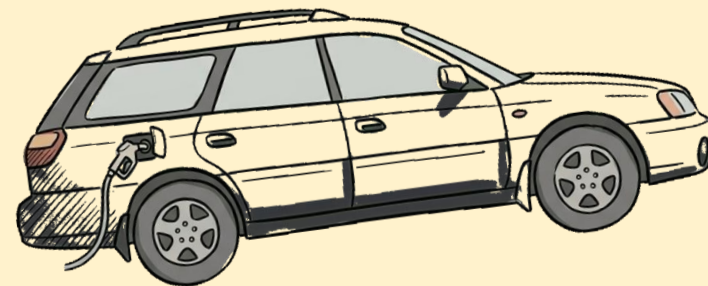
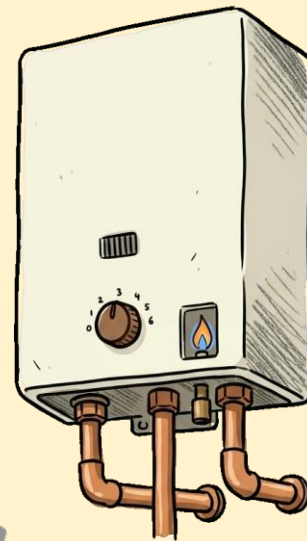
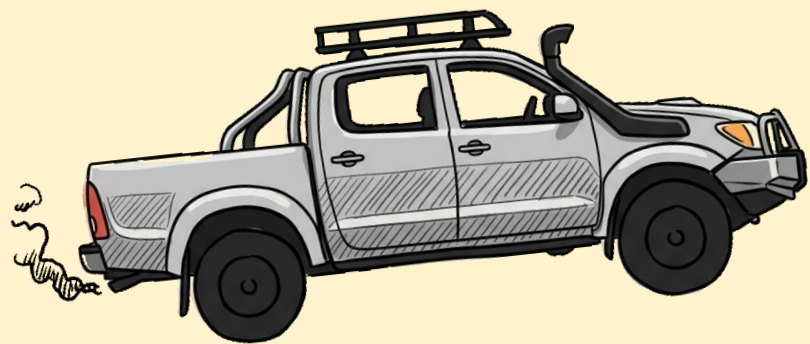
Matt Newman

Community Activator,
Rewiring Aotearoa











\$3K
~~\$1,5k~~

My fuel costs in January, if using
today's fuel prices, not including
RUCs or servicing.

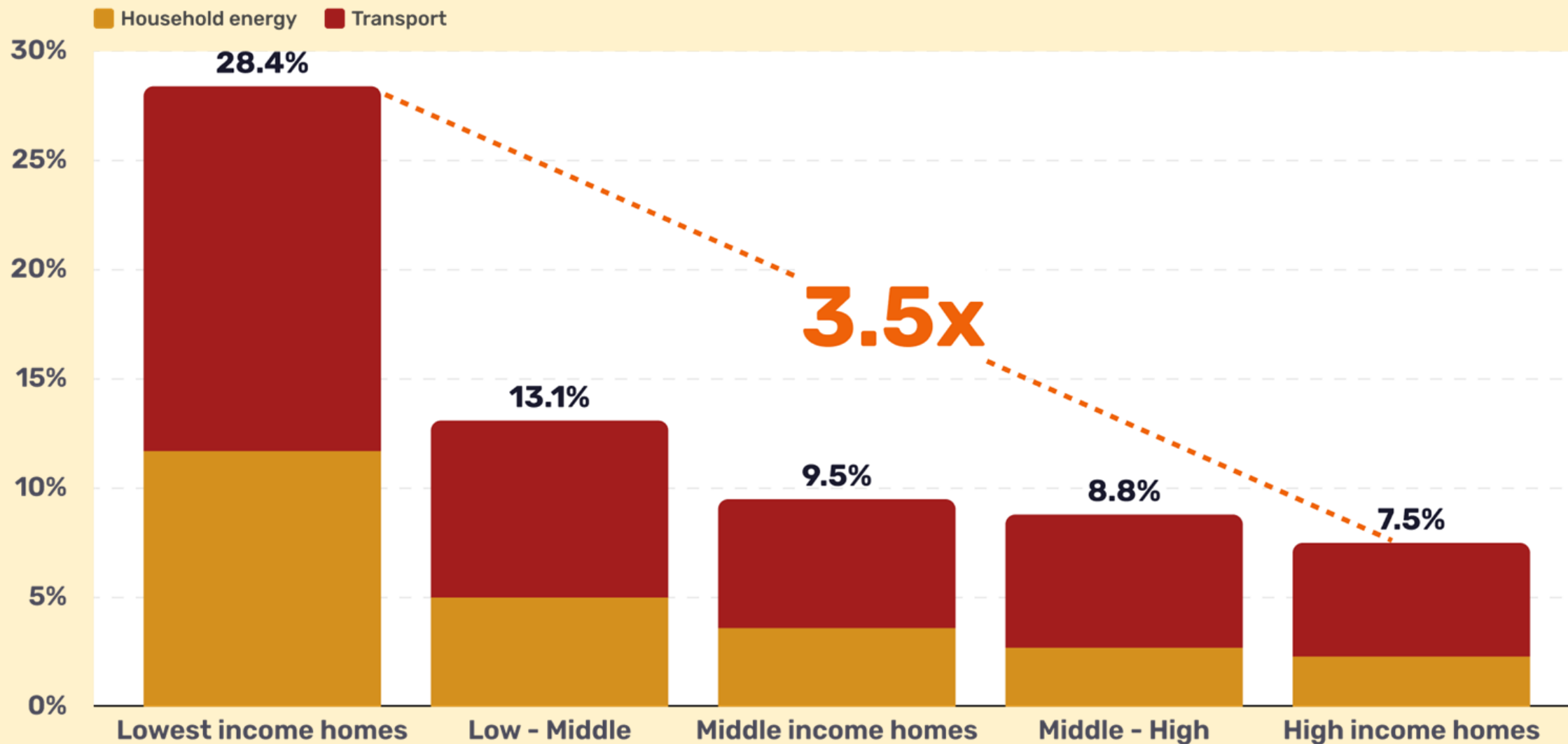
\$2 billion dollars



ENERGY

The word "ENERGY" is rendered in a bold, orange, 3D block font with a black outline and a textured surface. A thick, grey, braided rope is wrapped twice around the middle of the letters, crossing itself in the center. The rope has a detailed herringbone pattern and a black outline. The entire graphic is set against a plain, light cream-colored background.

Percentage of disposable income spent on energy by income group



1 in 10

New Zealand households borrowed money from family or friends to pay their energy bills in 2025.



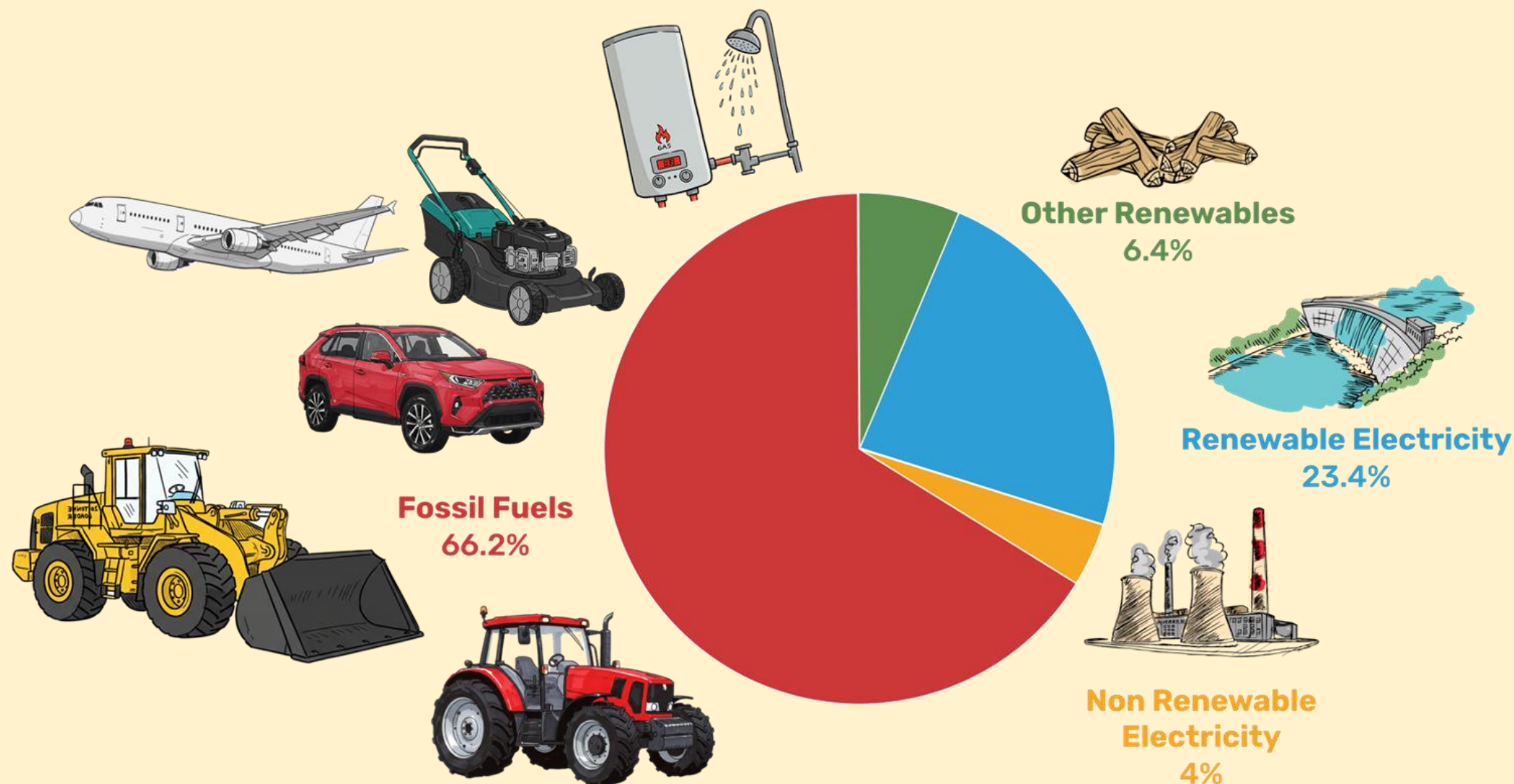


WIN WIN



**HOW DO WE ELECTRIFY
ALL OF NEW ZEALAND?**

New Zealand's Energy System



10 MILLION MACHINES





700,000
NOT READY





1 MILLION
ALMOST READY



8.5 MILLION
READY TO ELECTRIFY





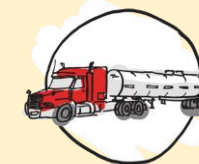
3.1m tonnes
Refined fuels



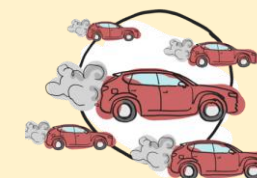
68 ships
Refineries > NZ



300k truck rolls
Across NZ



5m vehicles
Around NZ





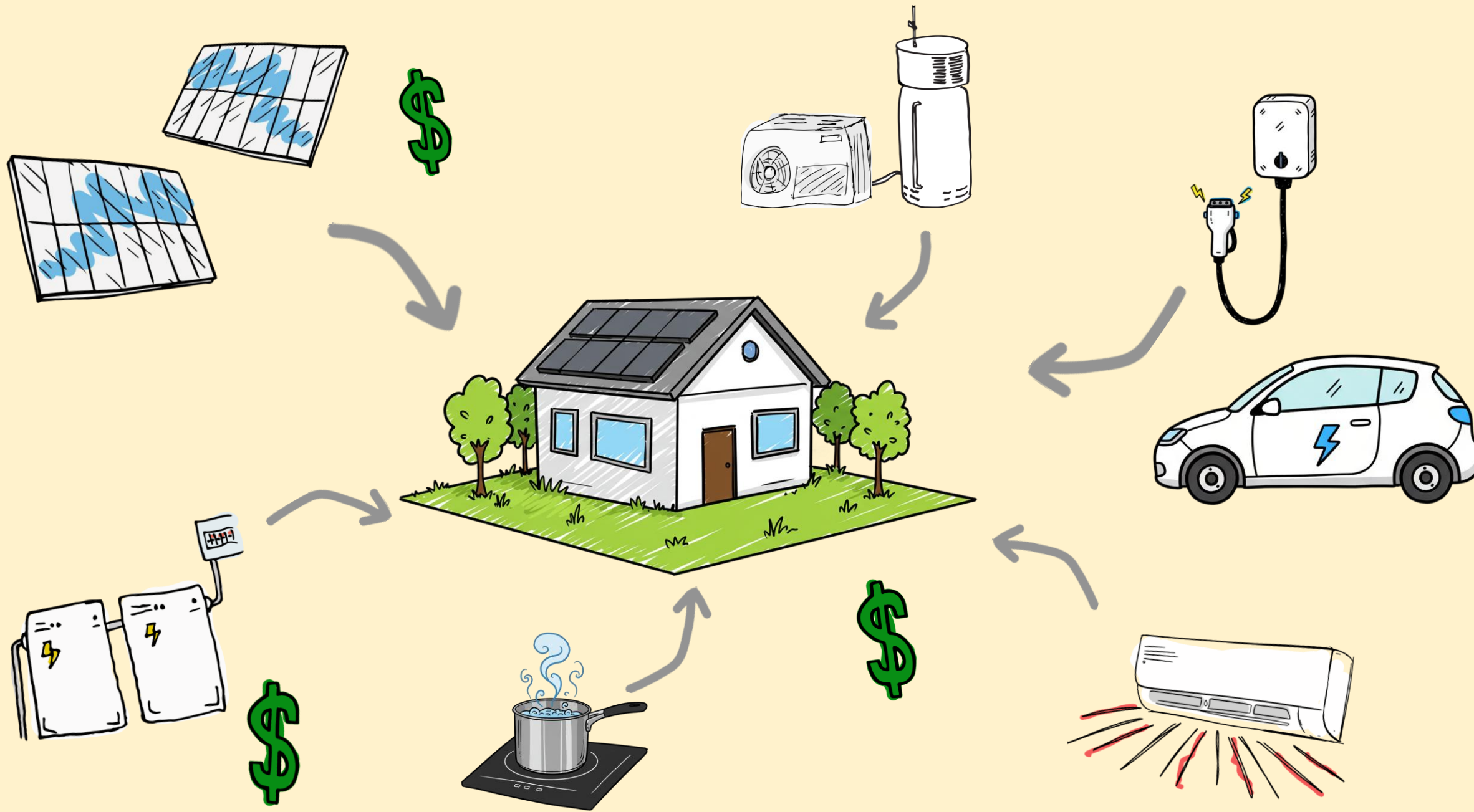
AND IT'S EXPENSIVE!



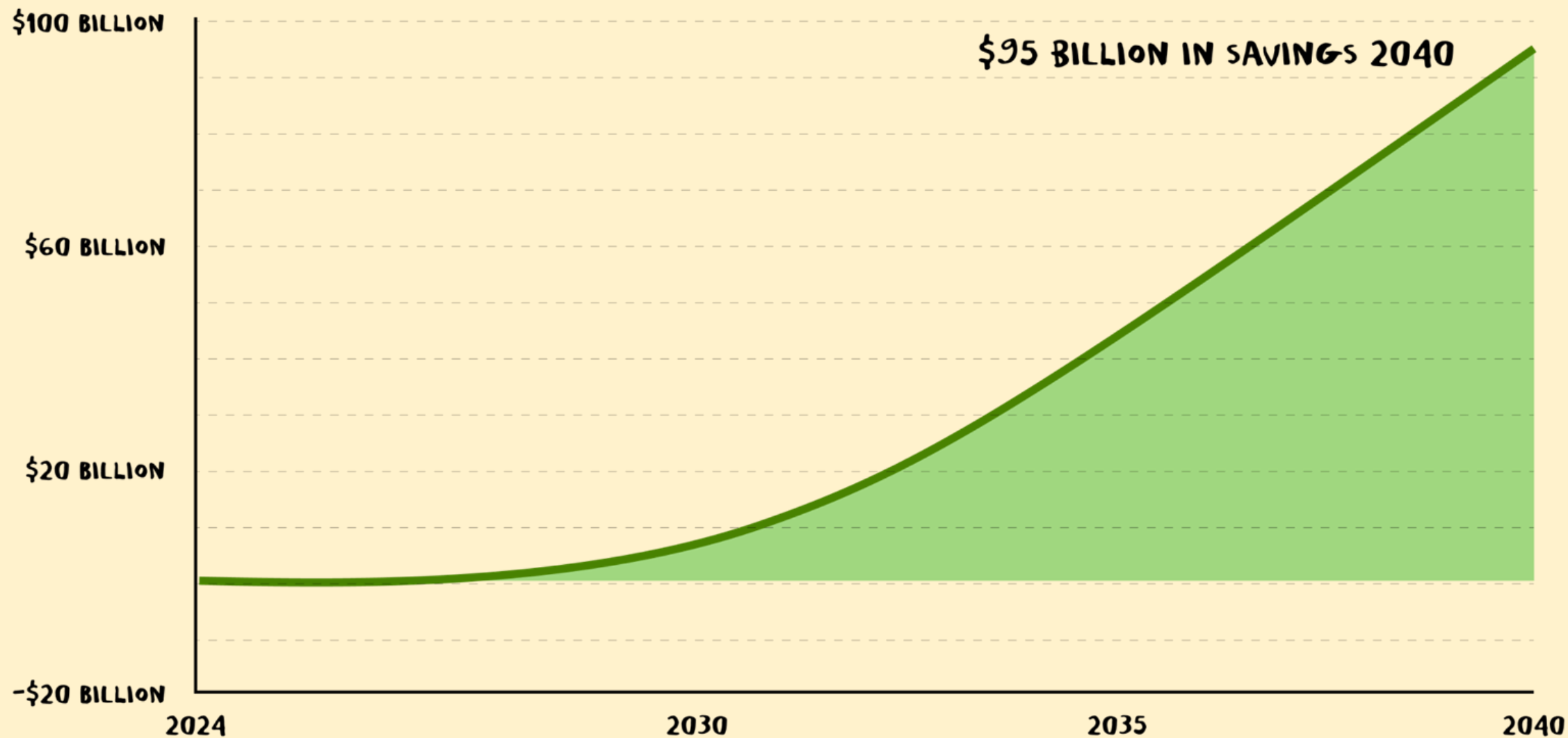


“Make 6 good decisions over the
next 10 years.”





CUMULATIVE SAVINGS FROM THE ELECTRIFICATION OF NEW ZEALAND HOMES AND VEHICLES





30x
Dunedin
Hospitals



16x
Cityrail Links



31x
LNG
Terminals



139x
Christchurch
Stadiums



380x
Queenstown
roundabouts



5x
Second Auckland
harbour bridges



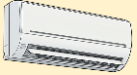
**SO HOW DOES NEW ZEALAND
TAKE ADVANTAGE?**



**MAKE 6 GOOD DECISIONS
OVER THE NEXT 10 YEARS**



Cooktop



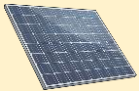
Heat pump



Hot water
heat pump



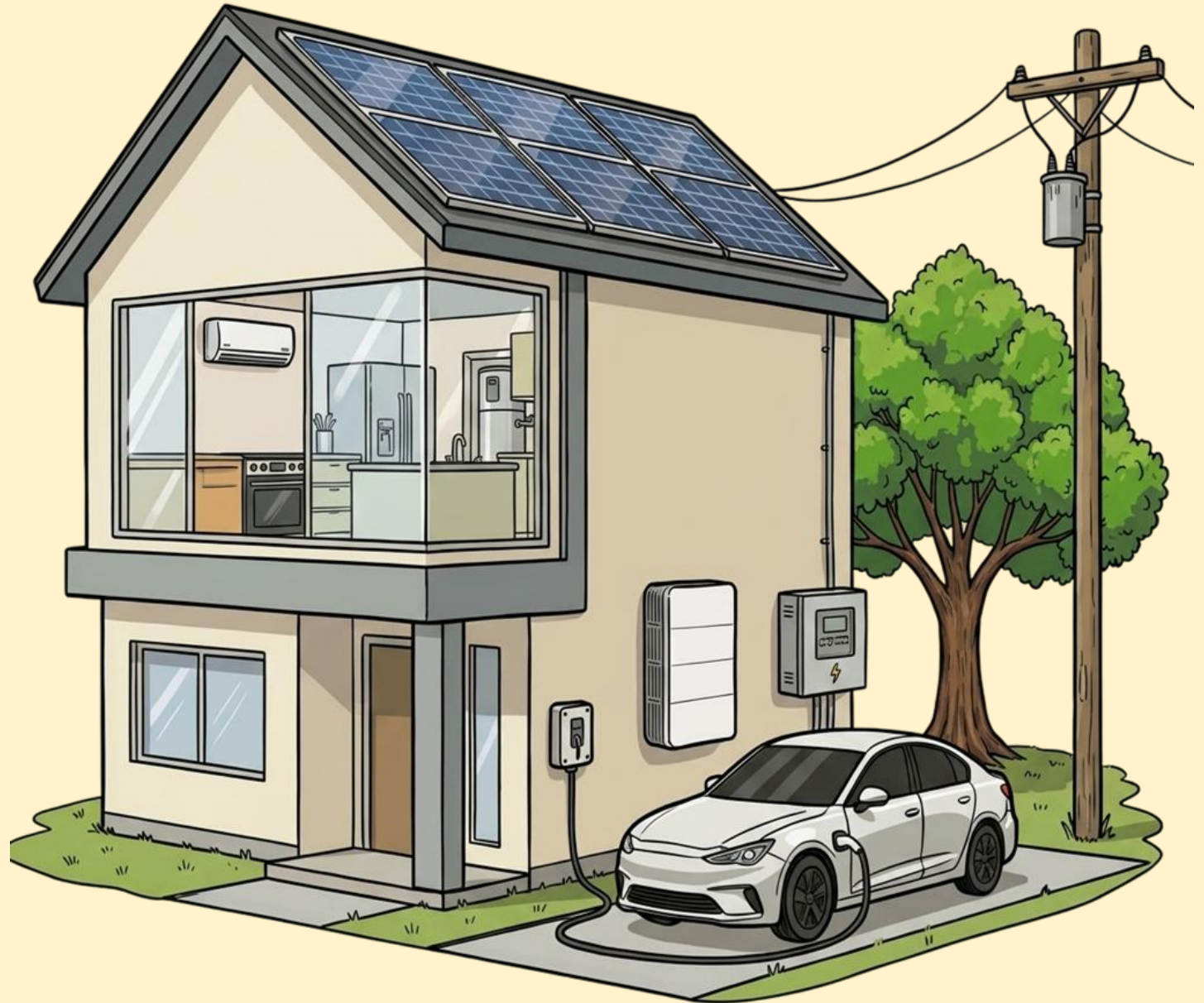
Car

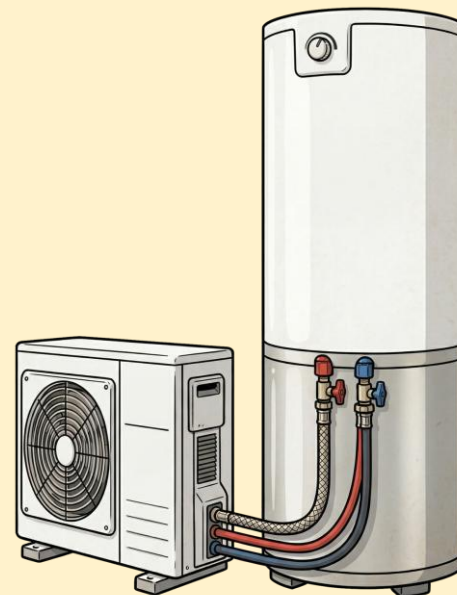
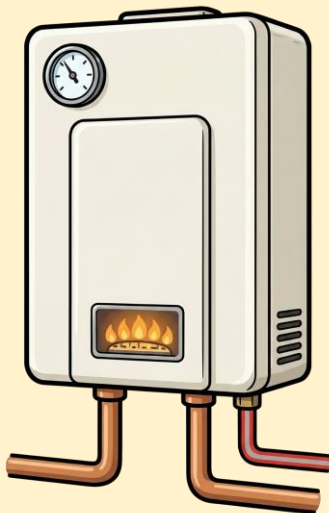
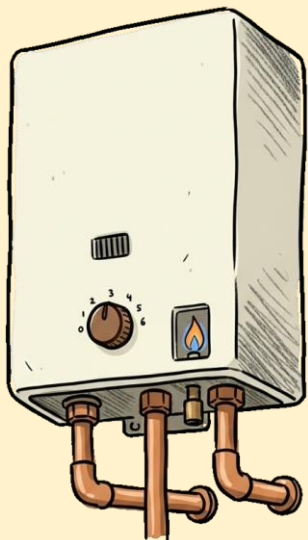


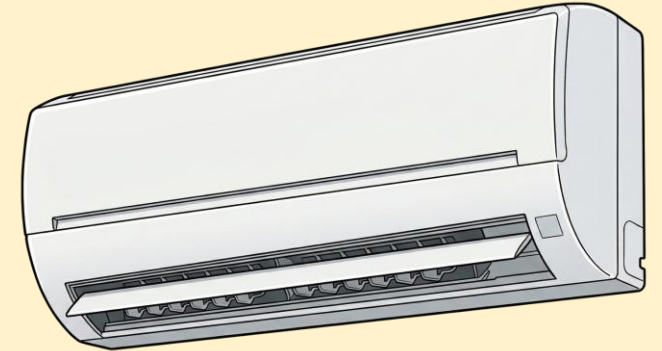
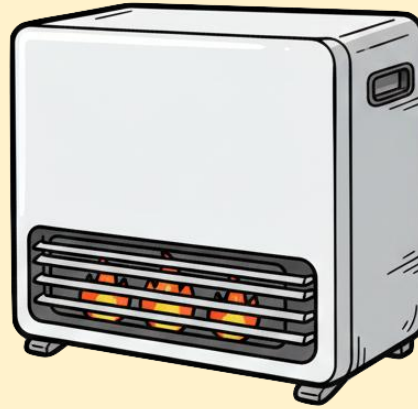
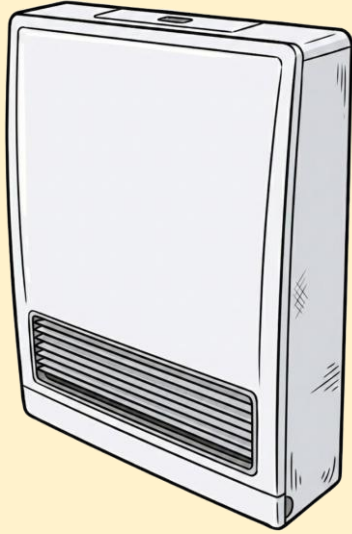
Solar



Battery





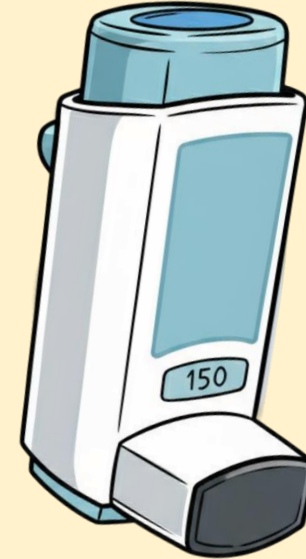






200+

premature deaths
every year



3,200+

child asthma cases every year

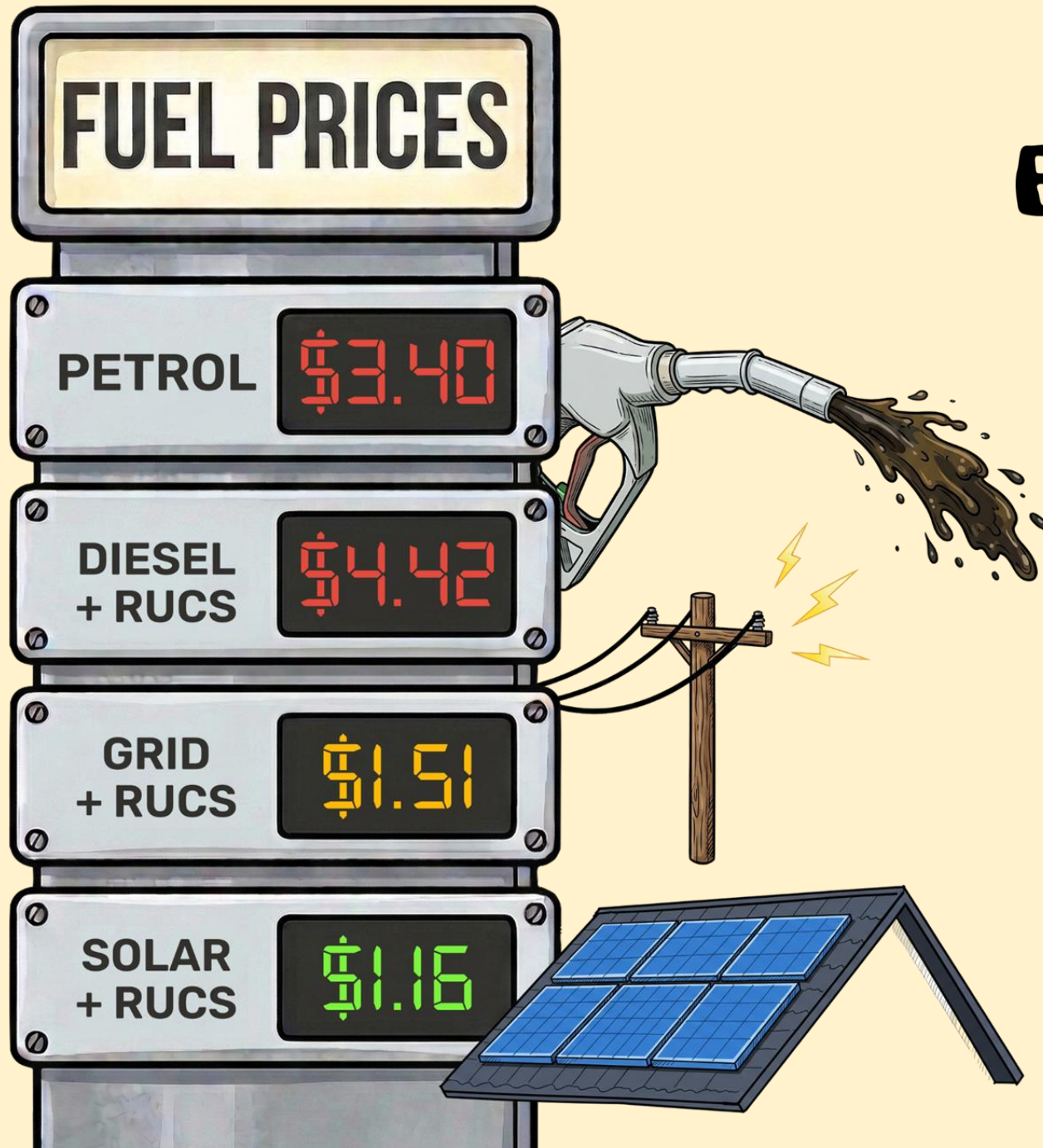
\$3.3b

Lost in productivity and health costs.



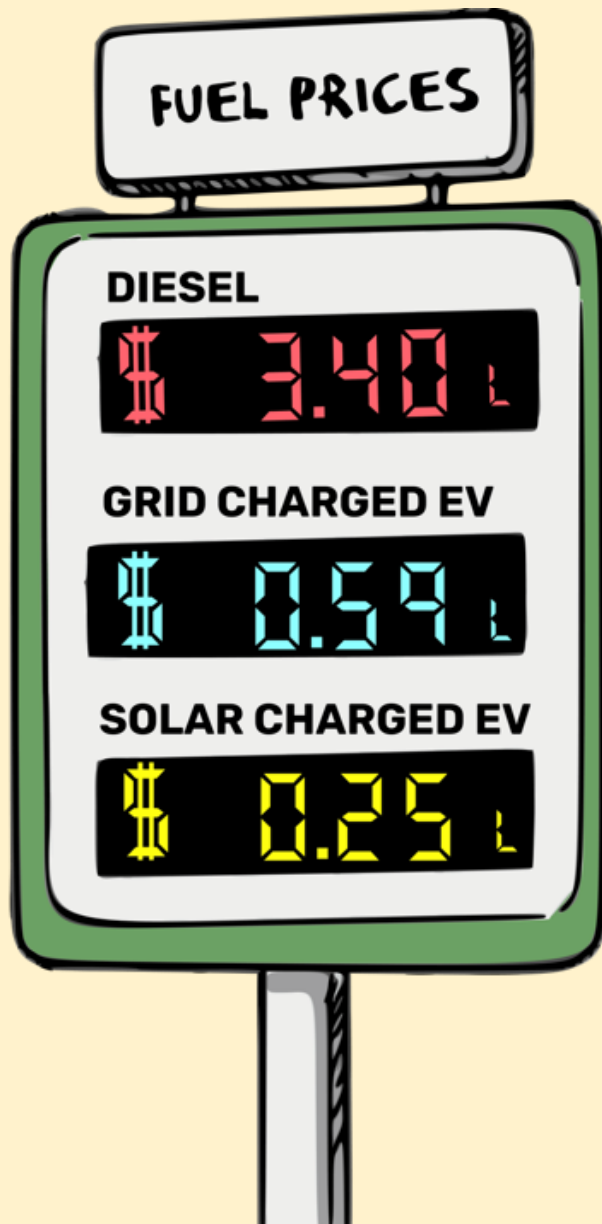


...and they suck to clean



**ELECTRICITY IS THE
CHEAPEST FUEL**

**...ESPECIALLY IN
A FUEL CRISIS**



Ford Ranger

DIESEL

\$10,200

Per 28,000km

AT \$3.40/LITRE DIESEL

+\$2,128 RUCS



Riddara RD6 Pro

ELECTRIC

\$740

Per 28,000km

SOLAR CHARGED, \$1,760 IF GRID-CHARGED

+\$2,128 RUCS



ELECTRIFY EVERYTHING



Oliver Bylett

Where are we getting this electricity dickhead!

2h

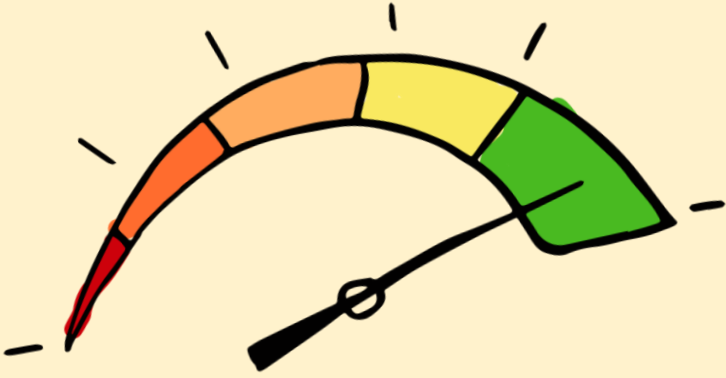
Like

Reply

Share

329

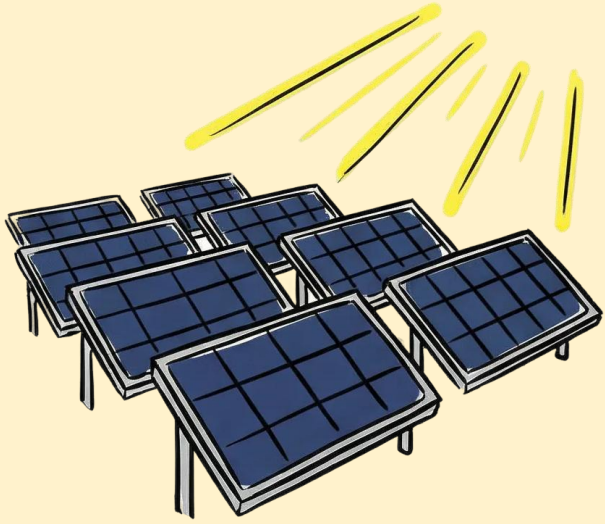




2x



We need to double our energy generation
in order to electrify everything.



We will need more big stuff

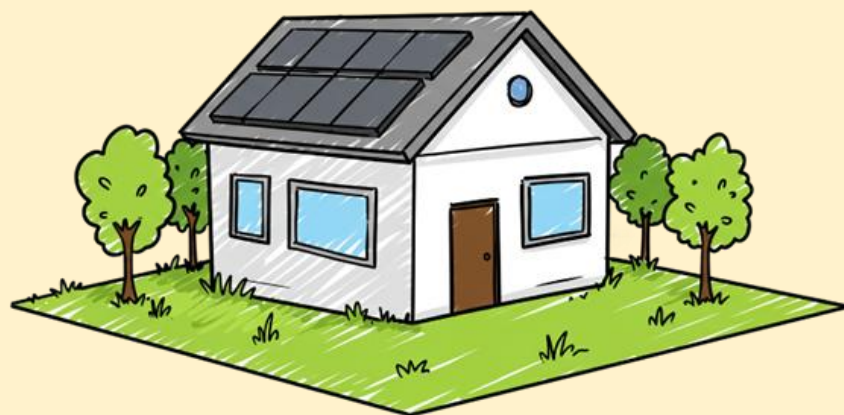




We also need more small stuff

80%

OF OUR HOMES WITH A 9KW
ROOFTOP SOLAR SYSTEM



≈

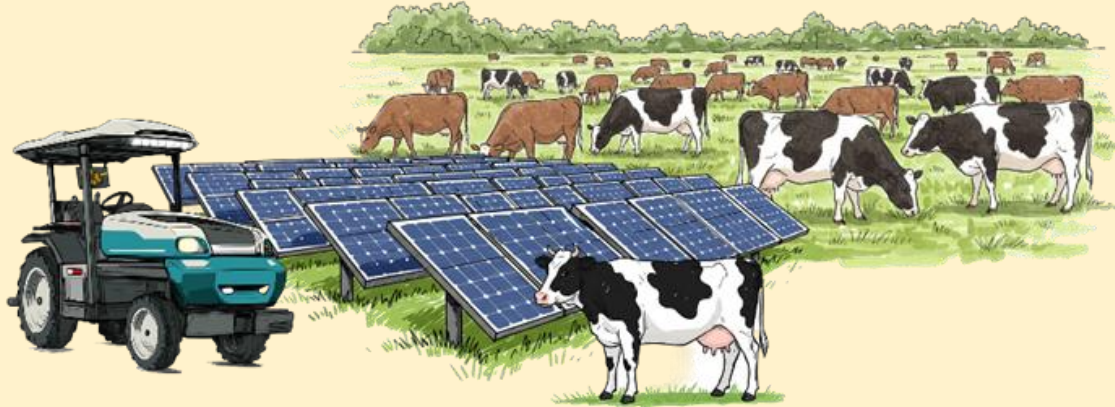
40%

MORE ELECTRICITY
GENERATION



50,000

FARMS WITH A MID-SIZED SOLAR SYSTEM



≈

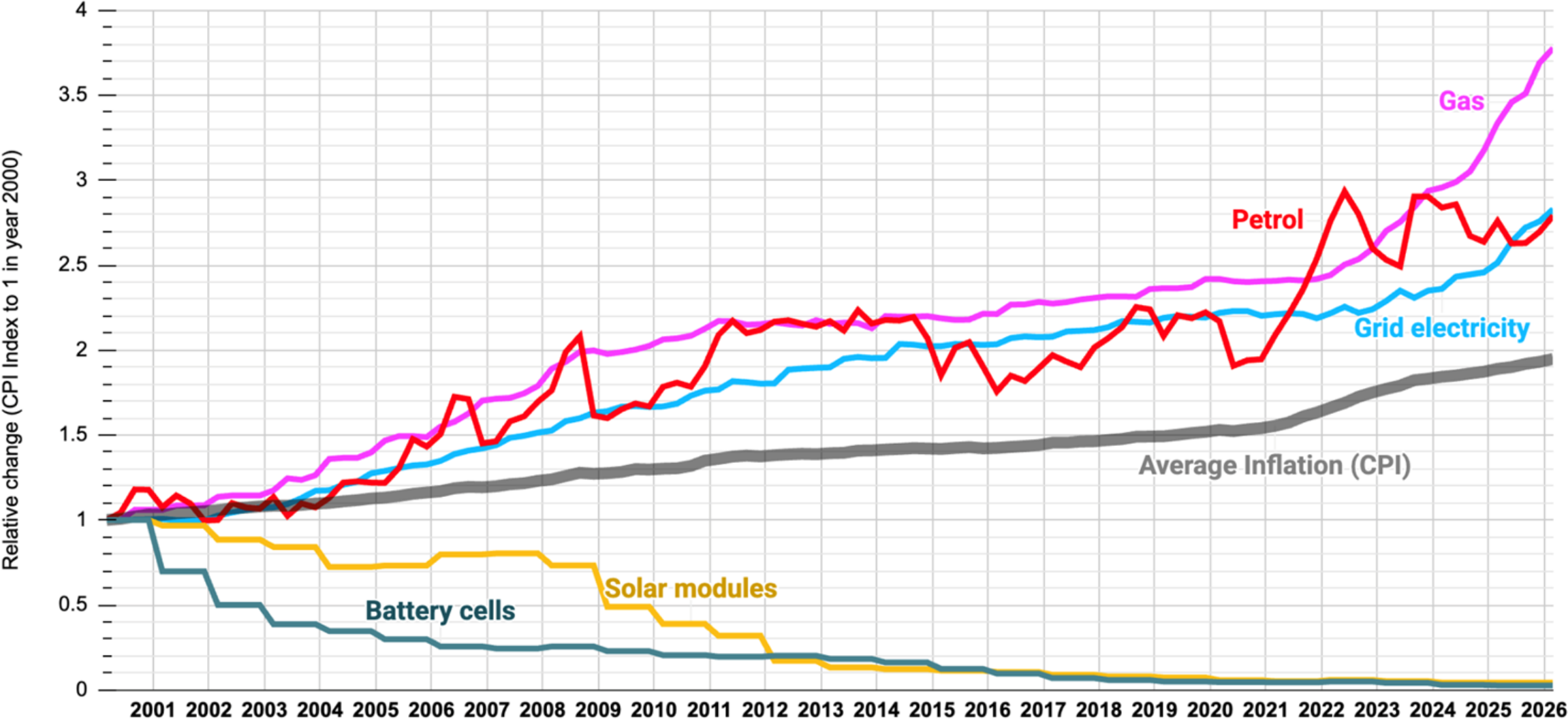
60%

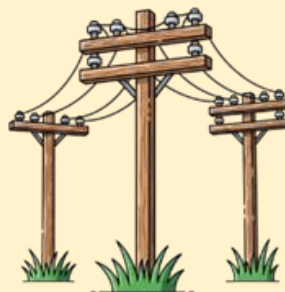
MORE ELECTRICITY
GENERATION



Price index across consumer energy 2000 - 2026

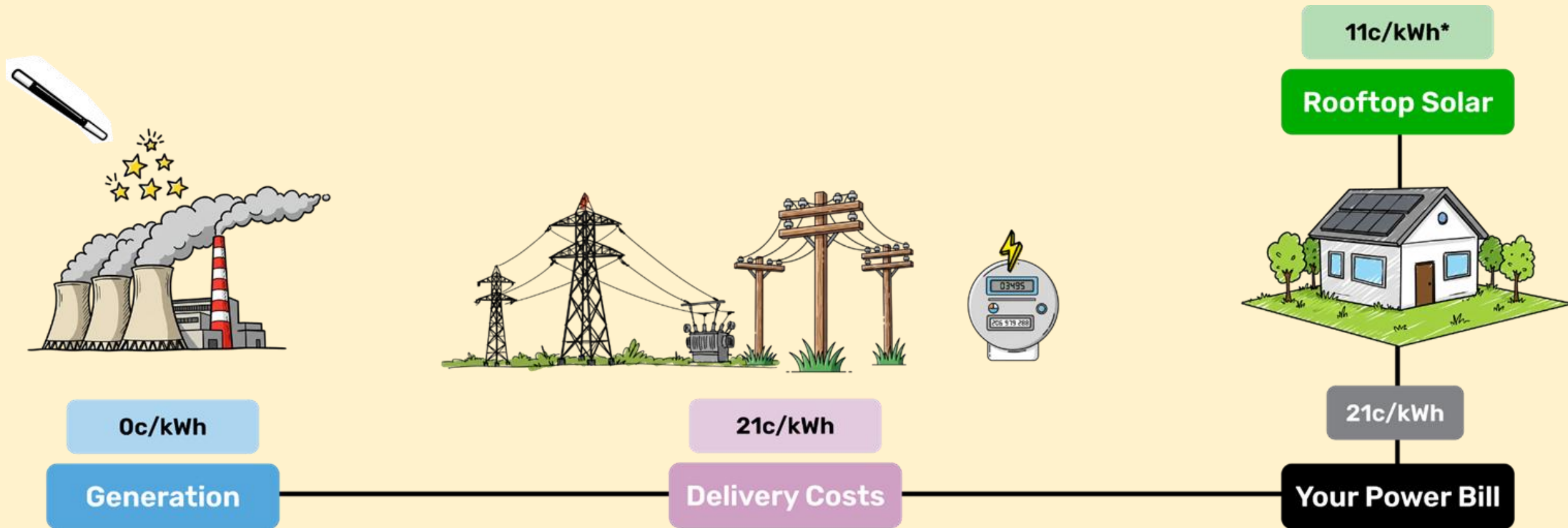
Stats NZ Consumer Price Index history, indexed to 1 in the year 2000. Solar module & battery prices derived from Our World in Data, SolarChoice, and BloombergNEF.





11c/kWh*
Rooftop Solar

*on 5.5% finance, 6 c/kWh if bought outright



*on 5.5% finance, 6 c/kWh if bought outright



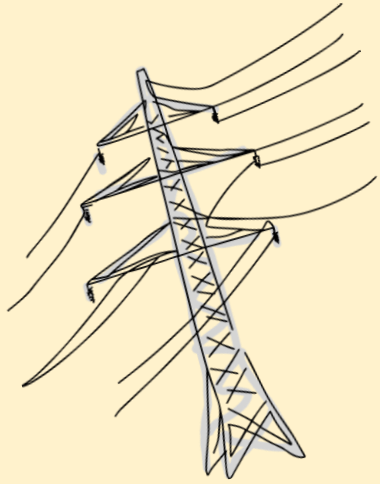
Paula Mires

Hey moron our grid cant handle it

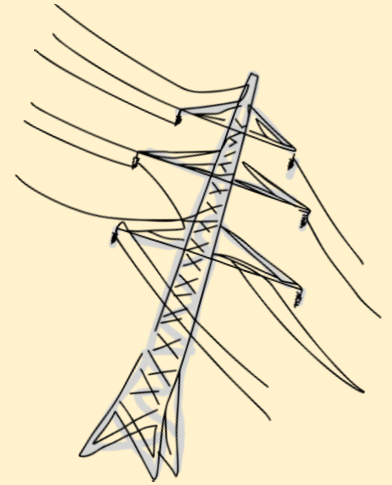
2 days ago Reply Share

154 👍 ❤️ 😲 😡

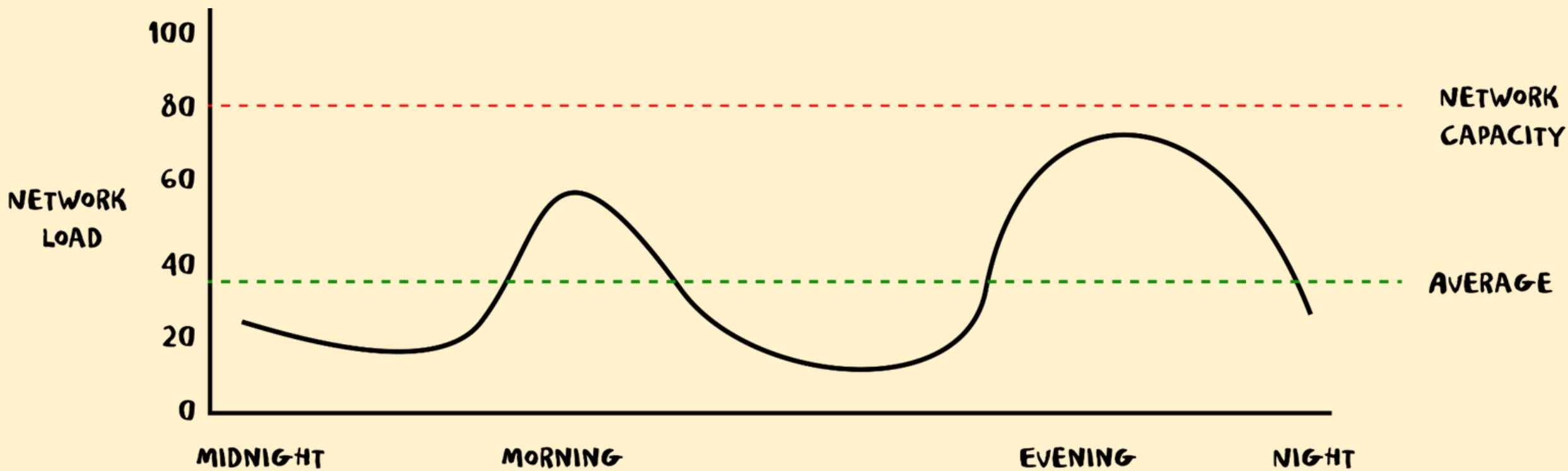


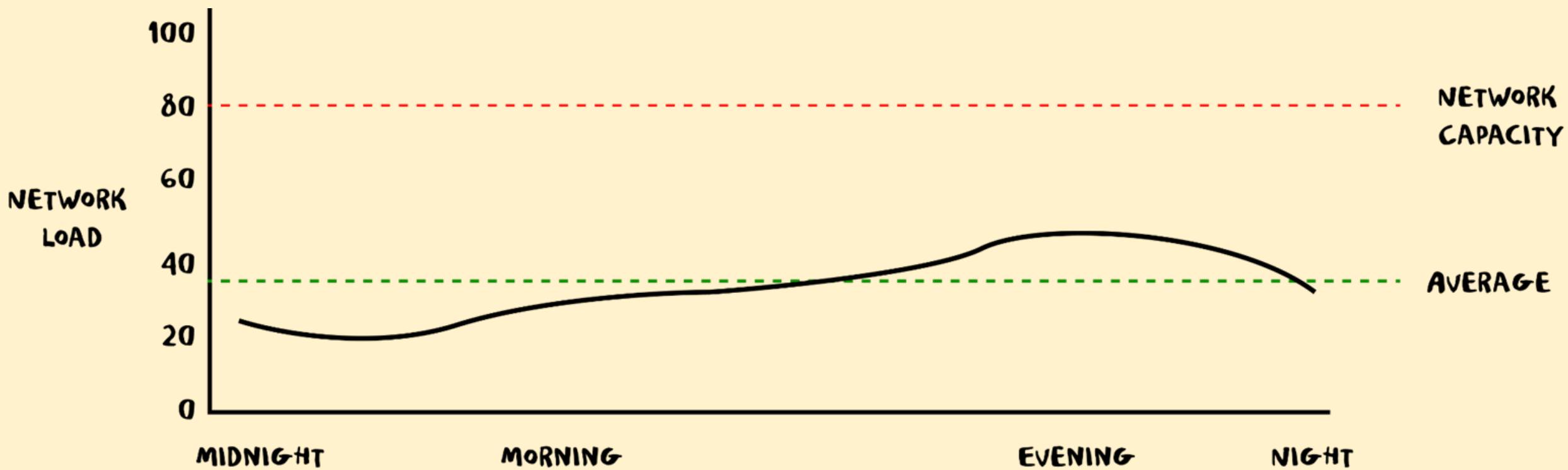


~40%

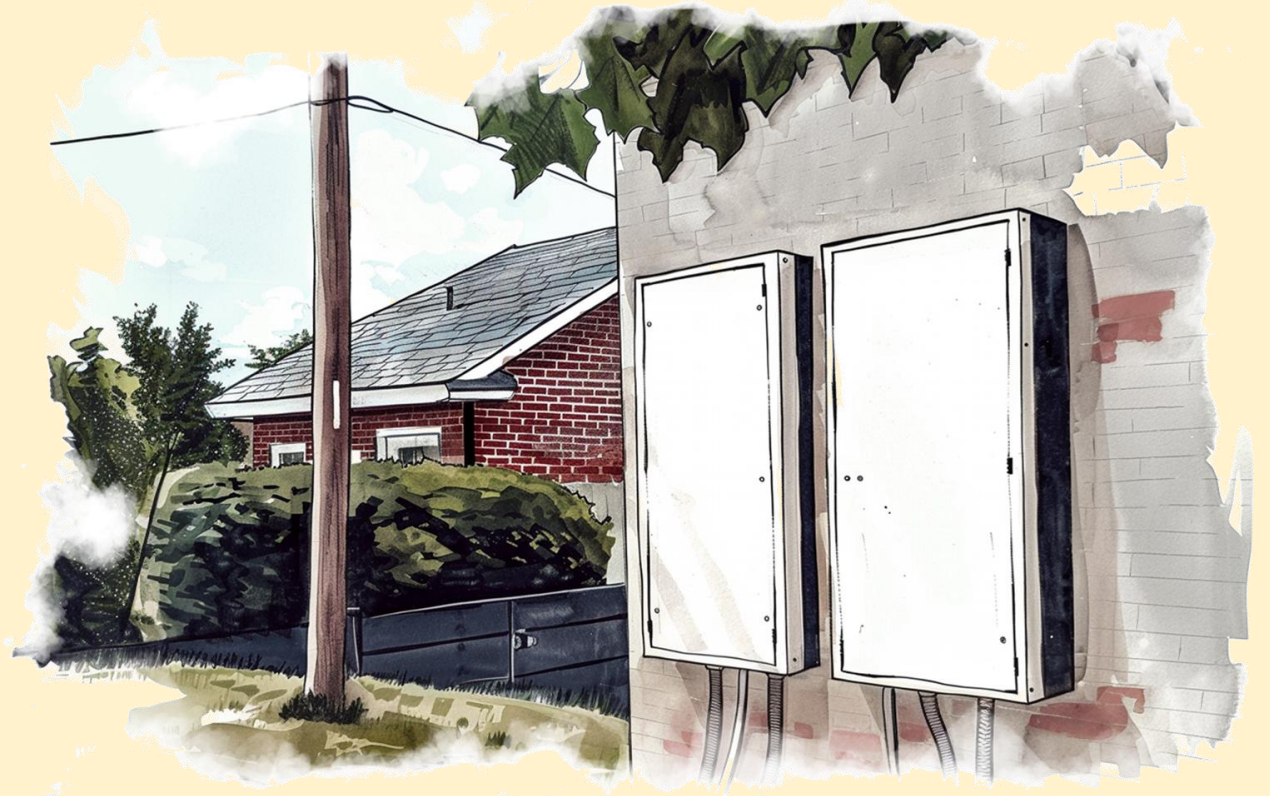


average network load of New Zealand's grid

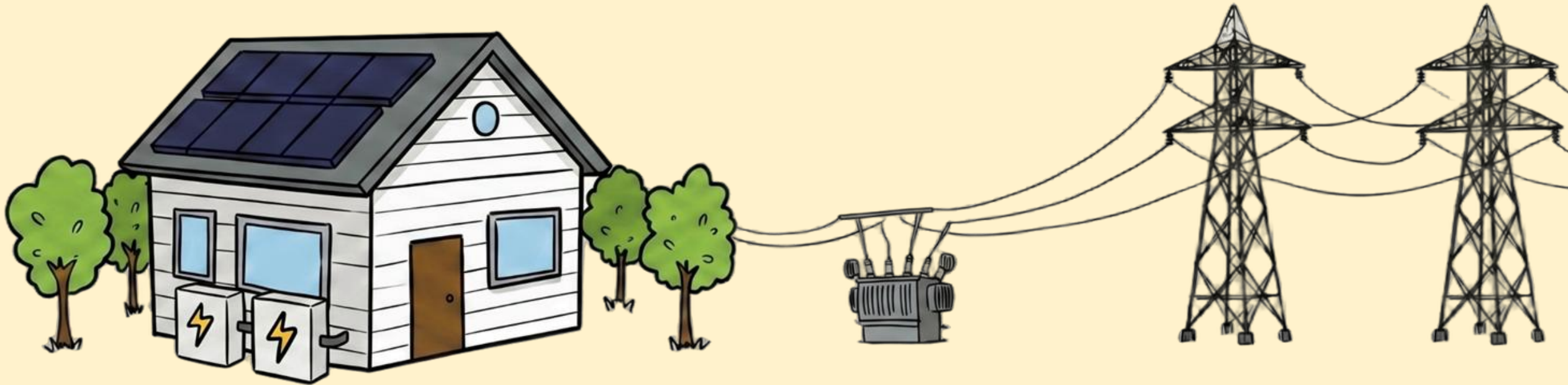




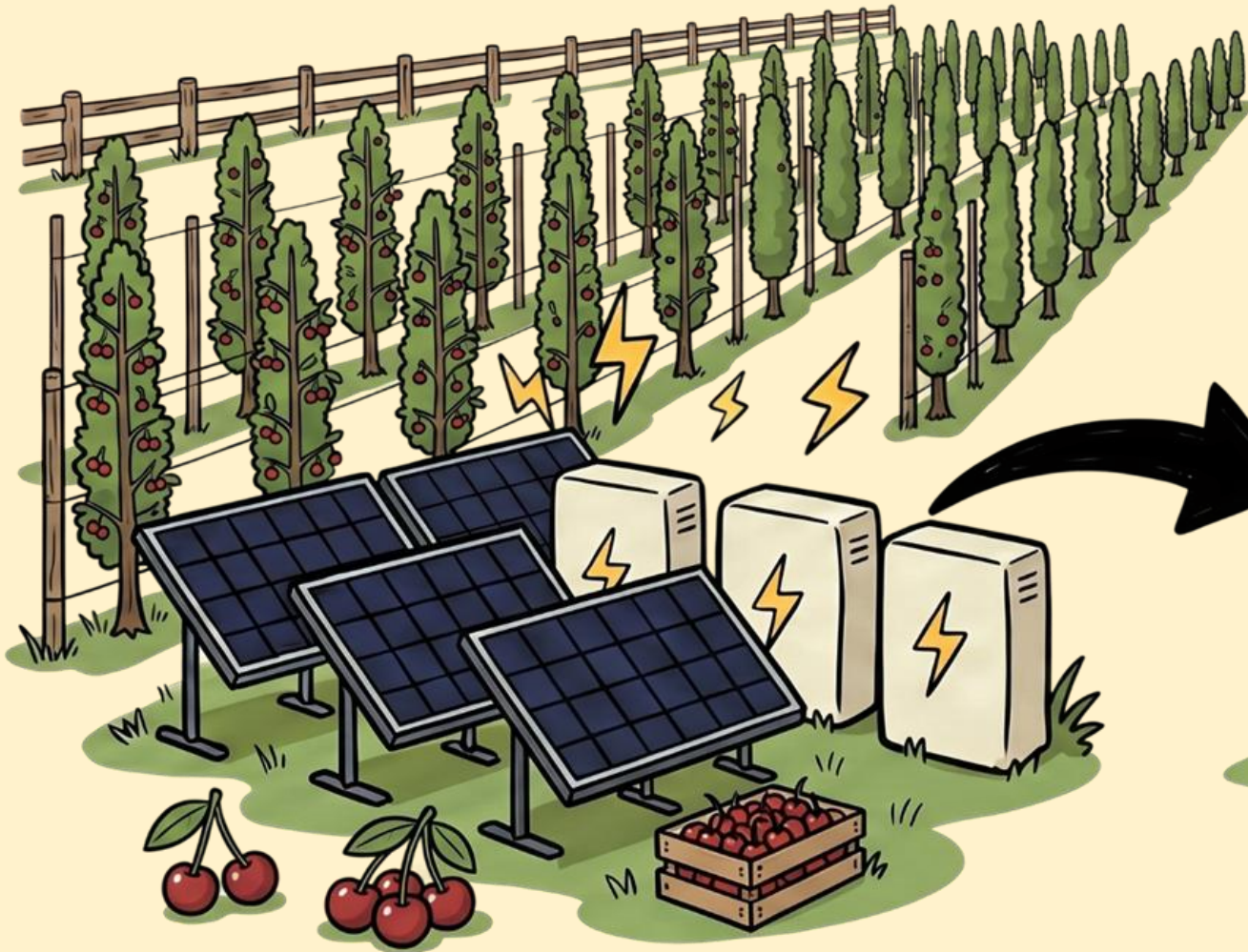
Batteries



A battery removes
a home from peak



My farm removes 25
homes





Frank Western Smith

Hey Drophick Electirfiying just means we burn more coal!

1 day ago

Reply

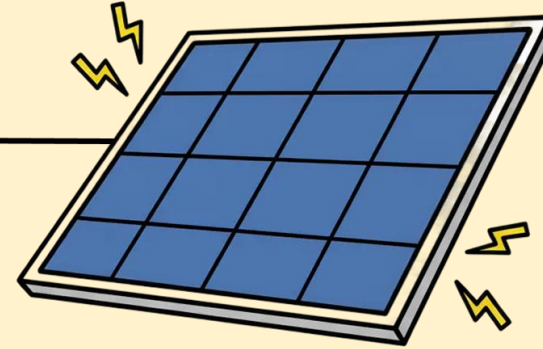
Share

43



One single solar
panel

22kg



Will generate the same lifetime energy as....



10,000kg

COAL



3,800kg

GAS PEAKER

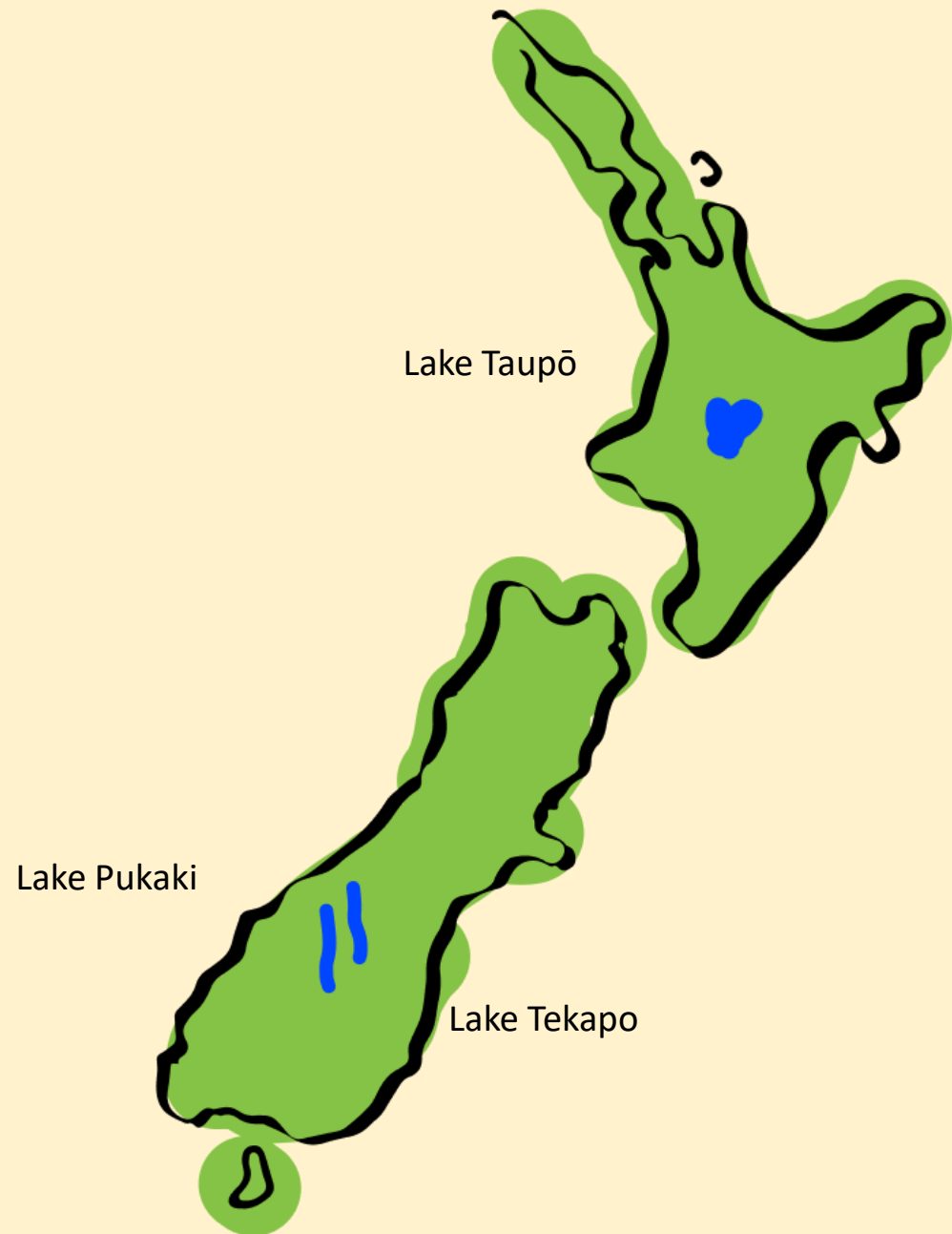


4,400kg

DIESEL

4,000 GWh
of storage

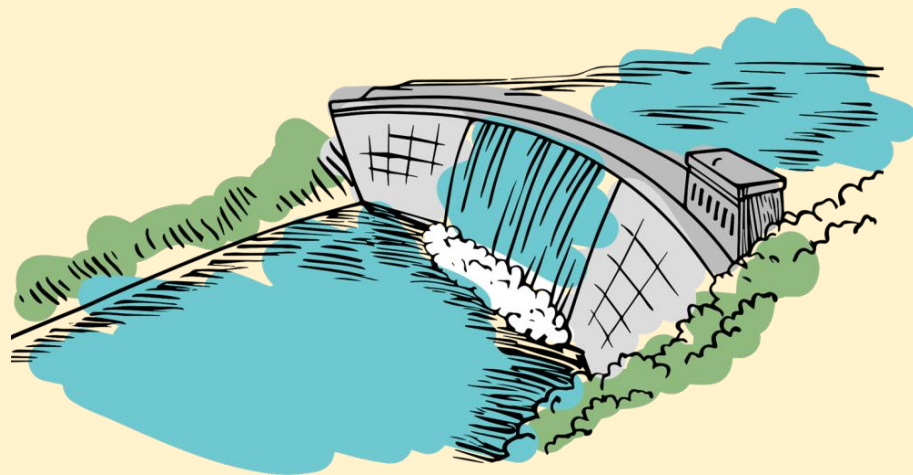
6-8 weeks





PRE-EMPTIVELY

FIRM OUR HYDRO WITH SOLAR



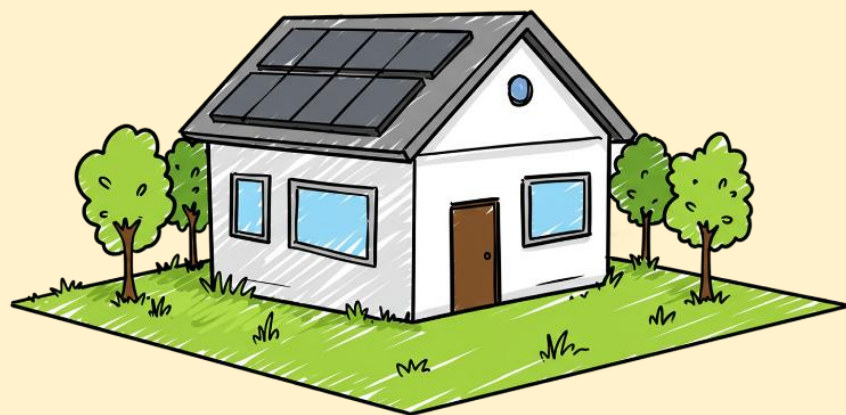
RETROSPECTIVELY

FIRM OUR HYDRO WITH COAL

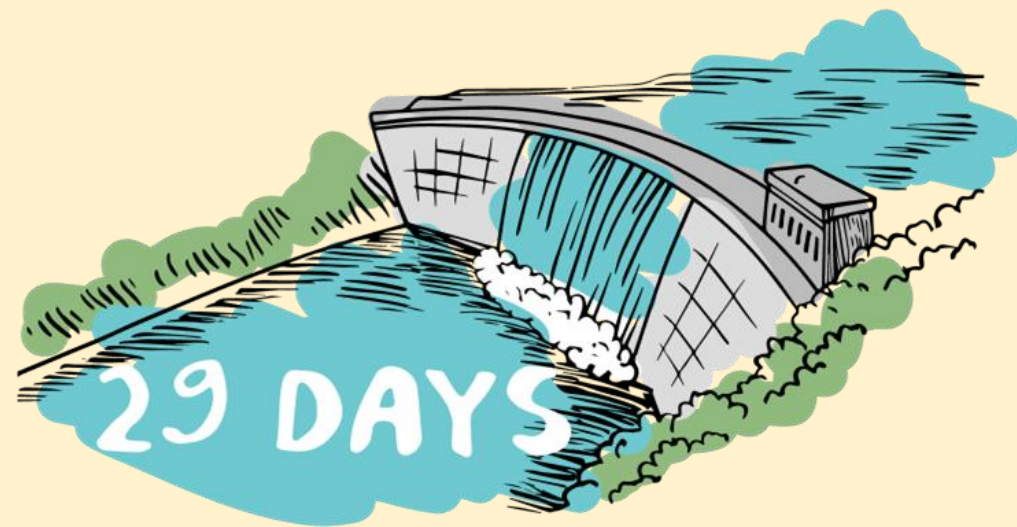


80%

OF OUR HOMES WITH A 9KW
ROOFTOP SOLAR SYSTEM



≈

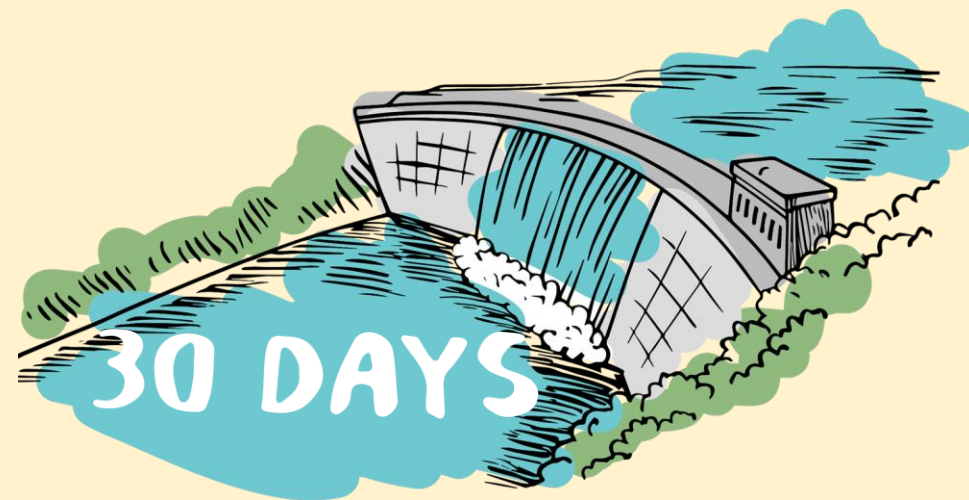


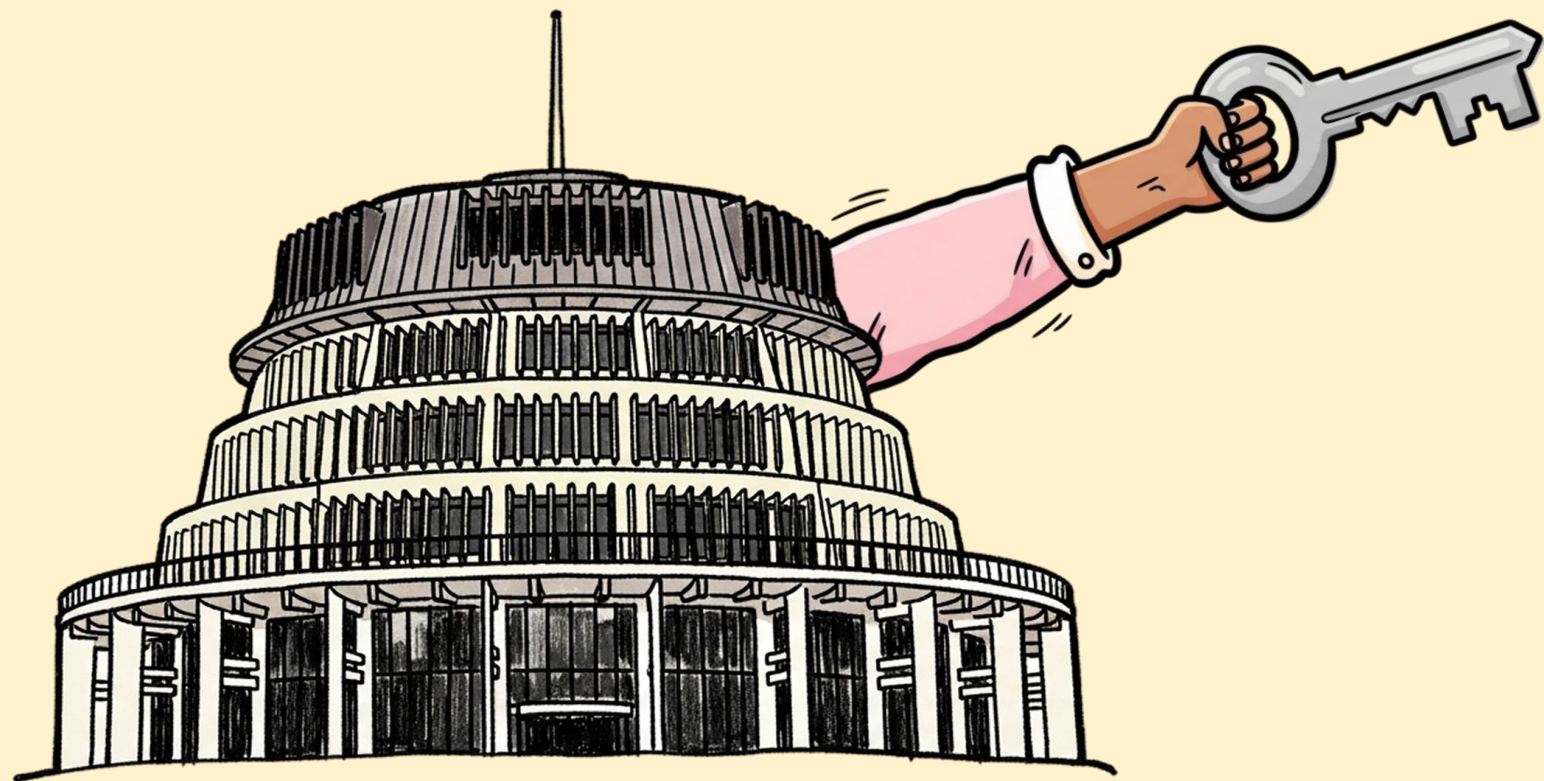
50,000

FARMS WITH A MID-SIZED
SOLAR SYSTEM



≈







**CHEAPER,
CLEANER,
STRONGER**



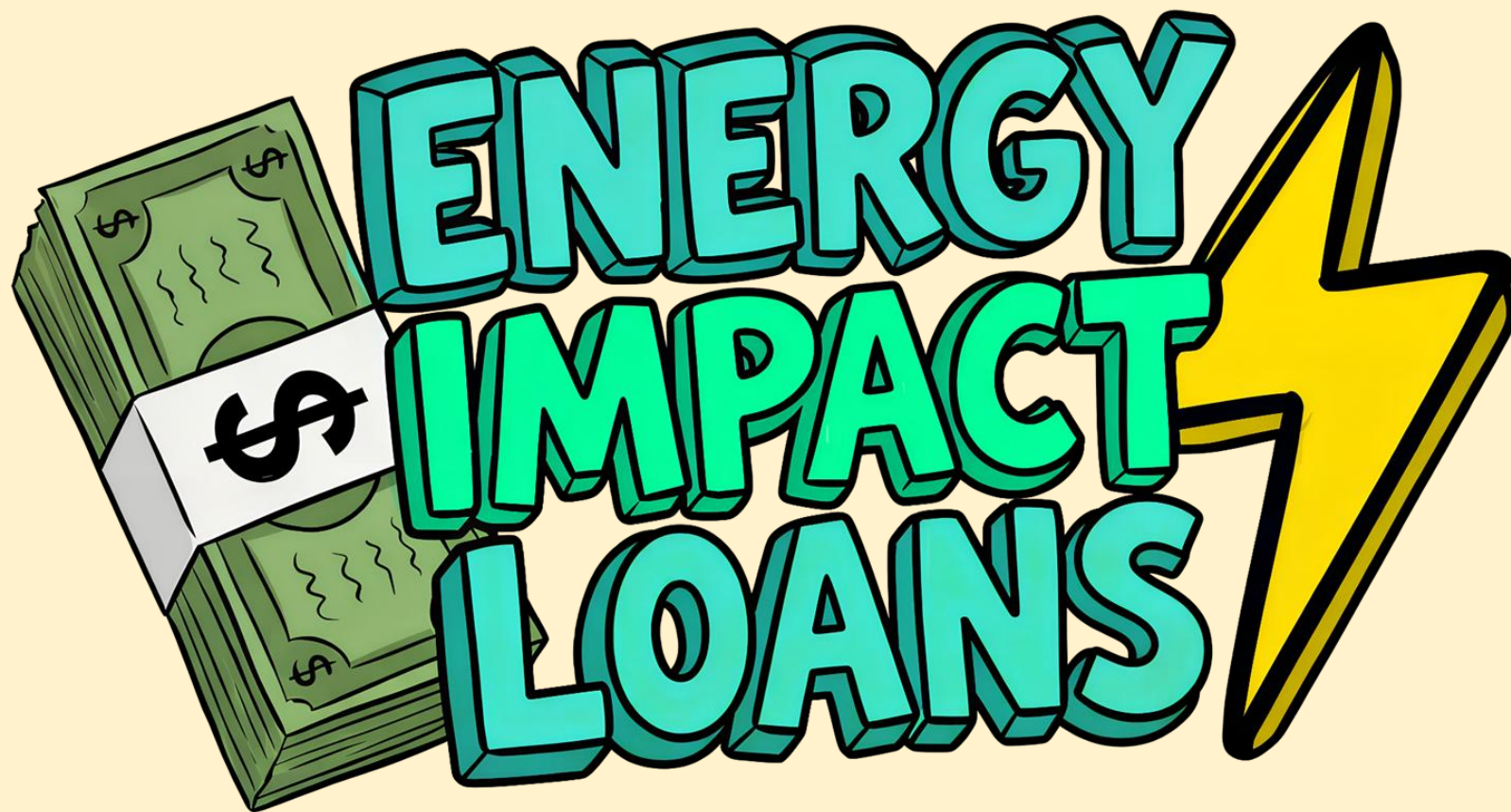
☒ *Vote*
ELECTRIC

**See you at the
'Electric Election'**

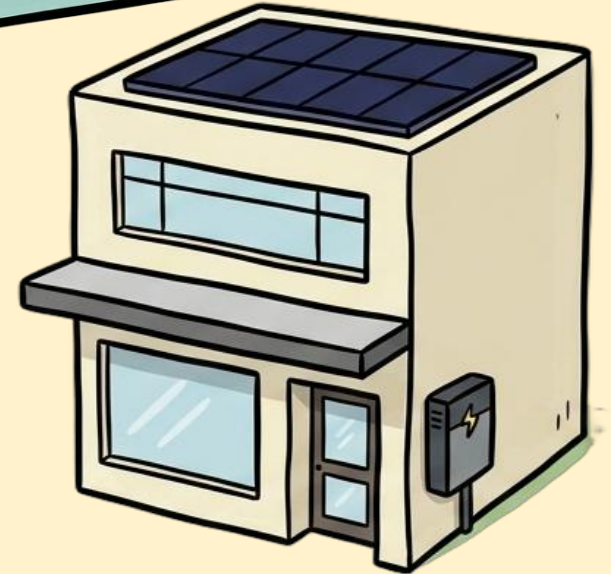


Policies we need





- Long Term
- Low Interest
- Flexible



For Hāpori
Maori



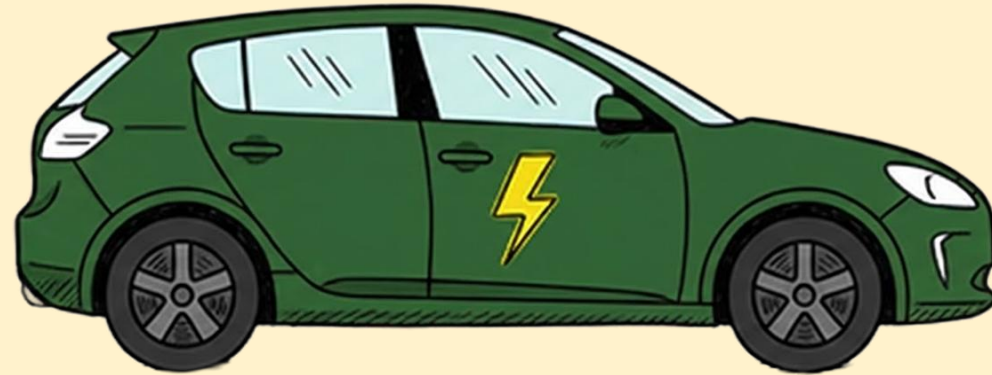
For renters





**Warmer
Kiwi
Homes™**

Electrifying our cars



Our fleet is old...



New Zealand average car age
14.9 years old



20% of our cars are at least
20 years old



Currently, EVs make up just
2% of fleet

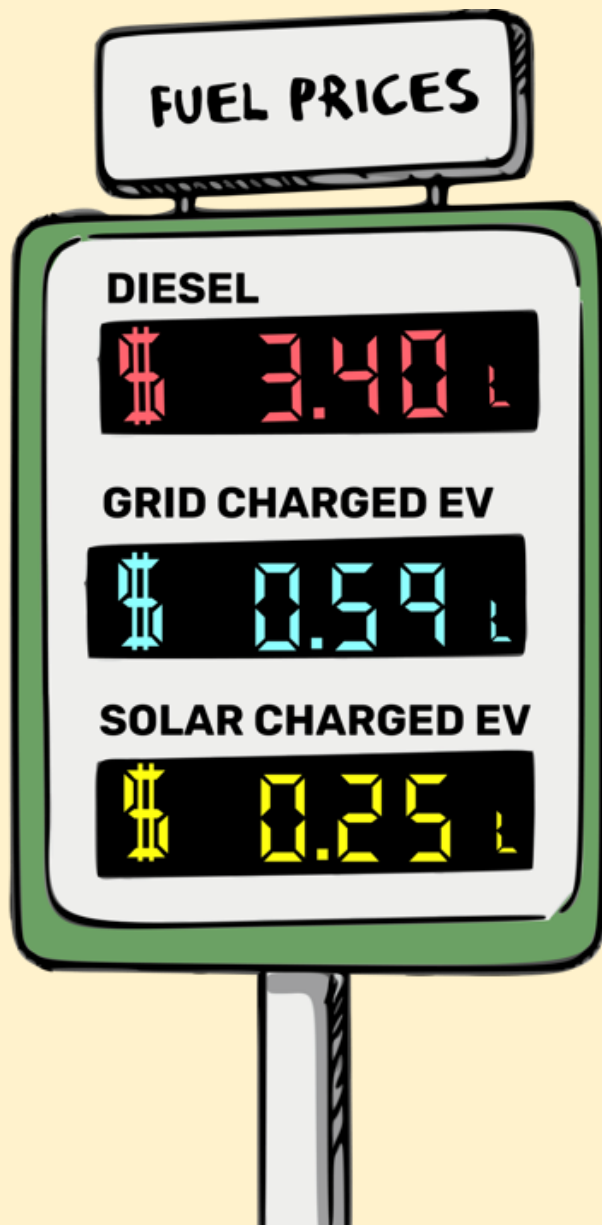
... and it's costing us

THE COST TO NEW ZEALAND-

 ~~\$40m~~ * **\$65m** 
everyday at the pump

* and rising!

150,000 new vehicles
each year



Ford Ranger

DIESEL

\$10,200

Per 28,000km

AT \$3.40/LITRE DIESEL

+\$2,128 RUCS



Riddara RD6 Pro

ELECTRIC

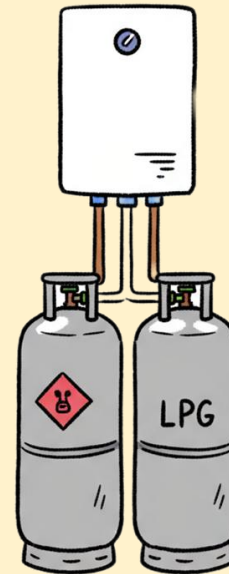
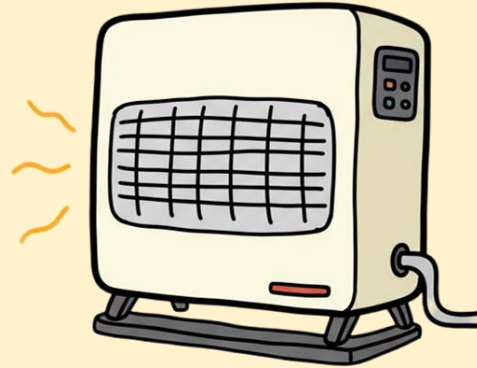
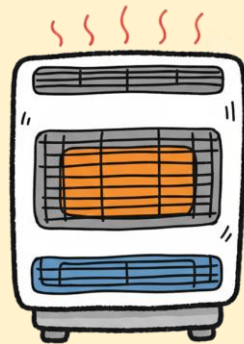
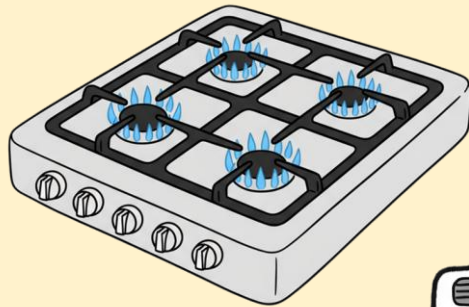
\$740

Per 28,000km

SOLAR CHARGED, \$1,760 IF GRID-CHARGED

+\$2,128 RUCS

ELECTRIFY EVERYTHING



ELECTRIFY EVERYONE ⚡⚡⚡





ELECTRIFY NEW ZEALAND

NEW ZEALAND
MADE ENERGY



Q&A



**Wellbeing
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Research.
Knowledge.
Storytelling.

The Affordable Energy Webinar Series

June-November 2026



Graham Campbell & Pippa Player
New Zealand Infrastructure
Commission
15 July, 11am

Use same link as this webinar to join back in.



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Upcoming Speakers:

• Jonathan Kay	Waipa Networks	22 July
• Manu Barrett	Solar Sense	5 August
• Quilae Wong	The Opportunity Party	19 August
• Simon Bridges	Ak Chamber of Commerce	2 September
• Rob Johnson, Ezra Hirawani	Nau Mai Ra	16 September
• John Campbell	Our Energy	23 September
• Kelli Pike	GoEco	30 September
• Gareth Cartwright	Community Energy	14 October
• Blair Dickie	Waikato Regional Council	4 November

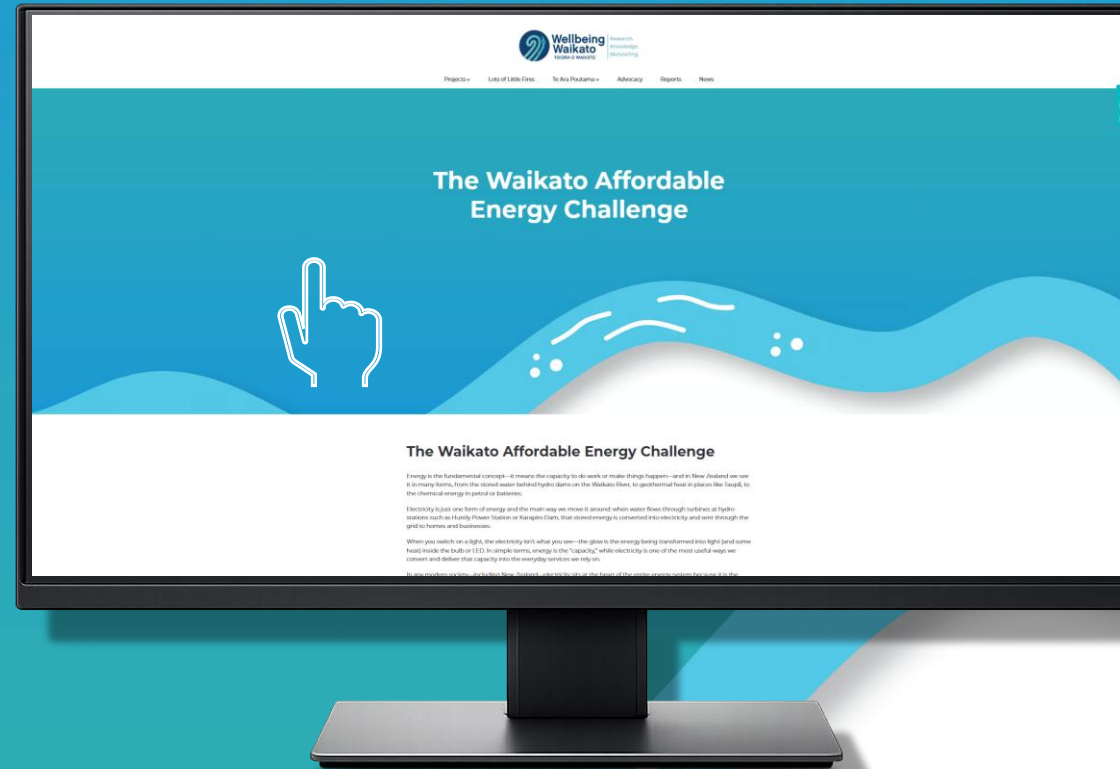
...and more



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Waikato**
TOIORA O WAIKATO

Research.
Knowledge.
Storytelling.

Go to our Website to See all Presentations and Slides from the Series:



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Storytelling.

Thank you!

www.wellbeingwaikato.org.nz

harvey@wellbeingwaikato.org.nz

021 913 418



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Knowledge.
Storytelling.