



SECTION | MY BACKGROUND

My background

FINANCIAL REVIEW

Exclusive
SEEK moves to strengthen graduate offering with GradConnection acquisition

Online jobs classifieds and services business SEEK has acquired graduate job marketplace GradConnection in a move to target young jobseekers finishing up their education.

The acquisition, to be announced on Tuesday, will have SEEK buy 100 per cent of the Sydney-based start-up for an undisclosed sum. GradConnection was launched in 2008 by three New Zealanders, Mike Casey, Dave Jenkins and

NEW ZEALAND ZERO | NZ0 PRESENTATION | © NZ ZERO LTD | PAGE 01

SECTION | RETURNING HOME

Returning to Aotearoa

NEW ZEALAND ZERO | NZ0 PRESENTATION | © NZ ZERO LTD | PAGE 02

SECTION | MT PISA

Mt Pisa

NEW ZEALAND ZERO | NZ0 PRESENTATION | © NZ ZERO LTD | PAGE 03

SECTION 1 | PLANTING AN ORCHARD

Plant a cherry orchard

- 9300 trees (25km)



NEW ZEALAND ZERO

NZ0 PRESENTATION | © NZ ZERO LTD

PAGE 04

SECTION 1 | PLANTING AN ORCHARD

Plant a cherry orchard

- 9300 trees (25km)
- 80T of cherries at full production



NEW ZEALAND ZERO

NZ0 PRESENTATION | © NZ ZERO LTD

PAGE 04

SECTION 1 | PLANTING AN ORCHARD

Plant a cherry orchard

- 9300 trees (25km)
- 80T of cherries at full production
- 3.8T of sequestration per annum



NEW ZEALAND ZERO

NZ0 PRESENTATION | © NZ ZERO LTD

PAGE 04

SECTION 1 | PLANTING AN ORCHARD

Plant a cherry orchard

- 9300 trees (25km)
- 80T of cherries at full production
- 3.8T of sequestration per annum
- 2.5T of fertiliser emissions per year



NEW ZEALAND ZERO

NZ0 PRESENTATION | © NZ ZERO LTD

PAGE 04

SECTION 1 | PLANTING AN ORCHARD

Plant a cherry orchard

- 9300 trees (25km)
- 80T of cherries at full production
- 3.8T of sequestration per annum
- 2.5T of fertiliser emissions per year
- ~60T of carbon from diesel use



NEW ZEALAND ZERO

NZD PRESENTATION | © NZ ZERO LTD

PAGE 04

THE ELECTRIFICATION OF EVERYTHING

100% electric farming system

- 20 machines electrified
- 10,000 visitors



REWORKING AOTEAROA

RA PRESENTATION | © RA 2023

PAGE 05

SECTION 3 | UPRIFT CAPITAL

Bottom Up Climate Action

20 Machines. 60Ts of emissions.

Farm

- 2 Frost Fighting Fans
- 2 Irrigation Pumps
- Solar
- Batteries
- Golf Carts x 2
- Lawnmower
- Tractor
- Forklift
- Ute
- Car (x1)
- Power Tools

Household

- Hot Water Heat Pump
- Heat Pump
- Induction Cooktop
- Car (x1)
- Solar
- Batteries



NEW ZEALAND ZERO

NZD PRESENTATION | © NZ ZERO LTD

PAGE 23

THE ELECTRIFICATION OF EVERYTHING

Award Winners

In 2020 we were jointly awarded the best grid hybrid connected system

- 45k PV array
- 120kWh battery array



REWORKING AOTEAROA


RA PRESENTATION | © RA 2023

PAGE 03

THE ELECTRIFICATION OF EVERYTHING

SEANZ 2022





SEANZ presentation last year



RENEWING AOTEAROA RA PRESENTATION | © RA 2022 PAGE 02

THE ELECTRIFICATION OF EVERYTHING

SEANZ Case Study

<p>Machinery 10 Years</p> <ul style="list-style-type: none"> • or 15 years without grants 	<p>Solar Panels 14 Years</p> <ul style="list-style-type: none"> • 45 kW • 30c to 6c per kWh 	<p>Batteries 13 Years</p> <ul style="list-style-type: none"> • 120 kWh • 6c to 4c per kWh • Resilience • 75% lower line charge
---	--	---

RENEWING AOTEAROA RA PRESENTATION | © RA 2022 PAGE 04




2023
Then things exploded

THE ELECTRIFICATION OF EVERYTHING

Invited to be apart of EECA Genless campaign

- 30 and 60 second video campaign
- 4M reach
- 3.1M completed video views
- 200,000 campaign page sessions



MIKE CASEY
Co-Founder
NZ Zero

RENEWING AOTEAROA RA PRESENTATION | © RA 2022 PAGE 08

THE ELECTRIFICATION OF EVERYTHING

And we didn't stop there

- Staff write**
New Zealand's first electric tractor is here, but how does this line up with conventional farming?
New Zealand's first electric tractor arrived from California this week to a cherry farm just outside of Cromwell, Central Otago.
1 month ago
- NZ News**
Cromwell orchard launches New Zealand's first driver-optional, fully electric tractor
The MCV Monarch tractor - the country's first driver-optional, fully electric tractor - was launched in Cromwell on Saturday.
1 month ago
- Chris News**
Cherry grower brings one of country's first electric tractors to Cromwell
This week Cromwell cherry grower Mike Casey has been using his new tractor to power an espresso machine and a toasted sandwich maker for...
1 month ago
- NewsLab 28**
The first electric tractor has arrived in the country and is being trialled out
How do you feel about electric tractors? The first one arrived in the country this week and Forest Lodge orchard owner Mike Casey has been...
1 month ago



REWIRING AOTEAROA

RA PRESENTATION | © RA 2023

PAGE 09

THE ELECTRIFICATION OF EVERYTHING

2023 - NZ's first commercial electric tractor

- 40 hp (but we will prove it can replace up to 80hp)
- Full automation (driver optional)
- 100kWh+ battery (can be integrated into our system)
- 66th in the world, first outside of California



REWIRING AOTEAROA

RA PRESENTATION | © RA 2023

PAGE 10

THE ELECTRIFICATION OF EVERYTHING

Country Calendar

Appearing October 8th.



REWIRING AOTEAROA

RA PRESENTATION | © RA 2023

PAGE 21

THE ELECTRIFICATION OF EVERYTHING

Political Interest



REWIRING AOTEAROA

RA PRESENTATION | © RA 2023

PAGE 11

THE ELECTRIFICATION OF EVERYTHING


Our first export crop

- 8 tonnes Jan 2023
- 30 tonnes expected 2024




REWBING AOTEAROA RA PRESENTATION | © RA 2023 PAGE 12

How can we scale electrification nationally?




THE ELECTRIFICATION OF EVERYTHING

Win the economic argument

- Save \$50,000 per year
- \$50k expected profit per hectare
- 10% increase in profit margin.

And an added bonus is we save 60T of emission on the farm and 10T of emissions in the household.





REWBING AOTEAROA RA PRESENTATION | © RA 2023 PAGE 15

THE ELECTRIFICATION OF EVERYTHING

Farm Energy Costs

Diesel: \$56,370
↓
100% Electric: \$25,687
↓
Basic Solar: Without Batteries \$15,115
↓
Informal Demand Response: \$5,194
↓
Software improvements: \$0

REWBING AOTEAROA RA PRESENTATION | © RA 2023 PAGE 16

THE ELECTRIFICATION OF EVERYTHING

We have increased our electricity consumption 900%. Is that scary?

REWBING AOTEAROA RA PRESENTATION | © RA 2023 PAGE 17

THE ELECTRIFICATION OF EVERYTHING

lackcurrent

Consumption Breakdown

Household
47.69MWh total
Savings \$10,000 p/a

Category	Consumption (MWh)
HWHP	16.28
Aircon	15.96
Family EV	4.419
Everything else (Previous House used 11MWh)	8.941

Orchard
49.11MWh total
Savings \$50,000 p/a

Category	Consumption (MWh)
Frost fighting	24.86
Forklift, Tractors, Tools, Off road vehicles etc.	12.18
Farm EV	7.1
Irrigation	3.961

REWBING AOTEAROA RA PRESENTATION | © RA 2023 PAGE 18

THE ELECTRIFICATION OF EVERYTHING

Smart Electricity Consumption

No distribution or transmission infrastructure investment required to support my orchard or household electrification.

Off Peak
900% increase

Year	Consumption (MWh)
2018	11
2023	97

On Peak
5% decrease

Year	Consumption (KWh)
2018	2.0
2023	1.9

REWBING AOTEAROA RA PRESENTATION | © RA 2023 PAGE 19

THE ELECTRIFICATION OF EVERYTHING

Rooftop solar benefits

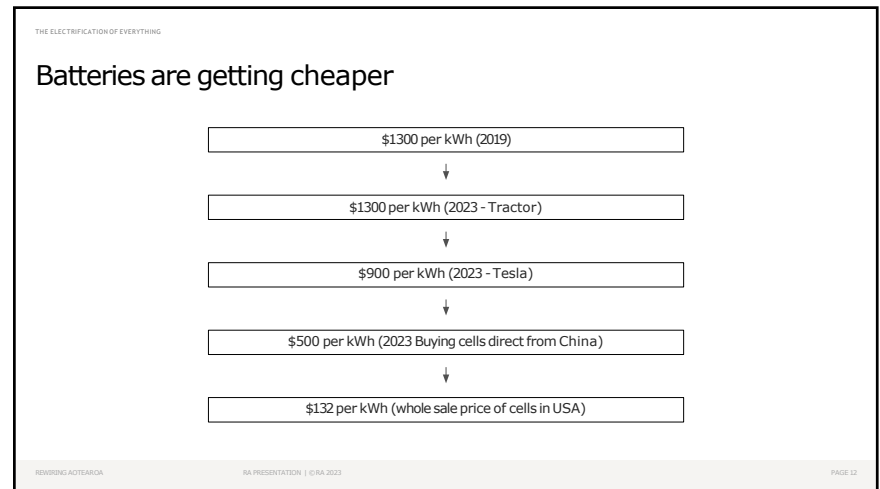
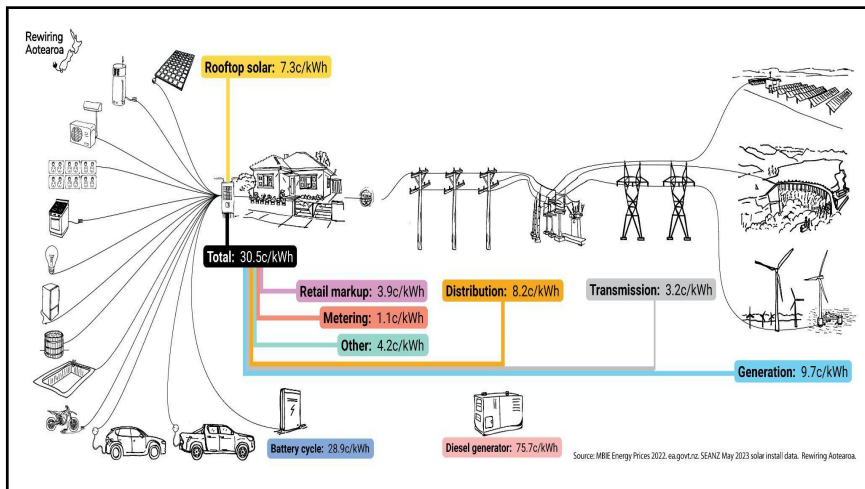
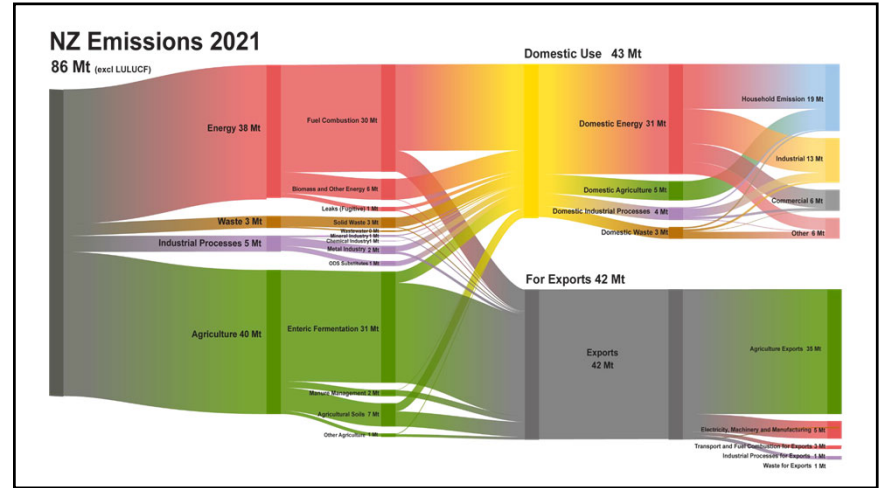
It's too hard to explain.

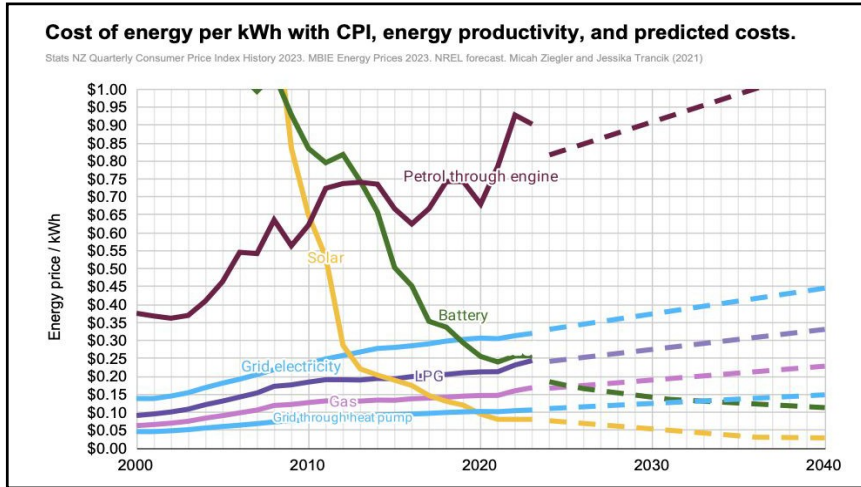
- 40% decrease in grid take

97MWh Consumption

59.18MWh Grid Import

REWBING AOTEAROA RA PRESENTATION | © RA 2023 PAGE 20





THE ELECTRIFICATION OF EVERYTHING

The Climate Emergency defined by machines

10 million small fossil fuel machines in our households, communities, small businesses and on our farms.

Dinner table decisions.

REWORKING AOTEAROA RA PRESENTATION | © RA 2023 PAGE 21

THE ELECTRIFICATION OF EVERYTHING

If we retire every fossil fuel machine in the world at its natural end of life we will keep global warming to 1.8C

- Tong, D., Zhang, Q., Zheng, Y. et al. Committed emissions from existing energy infrastructure jeopardize 1.5°C climate target. Nature 572, 373–377 (2019). <https://doi.org/10.1038/s41586-019-1364-3>

REWORKING AOTEAROA RA PRESENTATION | © RA 2023 PAGE 24

THE ELECTRIFICATION OF EVERYTHING

If we retire every fossil fuel machine in the world at its natural end of life we will keep global warming to 1.8C

- Tong, D., Zhang, Q., Zheng, Y. et al. Committed emissions from existing energy infrastructure jeopardize 1.5°C climate target. Nature 572, 373–377 (2019). <https://doi.org/10.1038/s41586-019-1364-3>

- But we want 1.5C

REWORKING AOTEAROA RA PRESENTATION | © RA 2023 PAGE 25

If we retire every fossil fuel machine in the world at its natural end of life we will keep global warming to 1.8C

- Tong, D., Zhang, Q., Zheng, Y. et al. Committed emissions from existing energy infrastructure jeopardize 1.5°C climate target. Nature 572, 373–377 (2019). <https://doi.org/10.1038/s41586-019-1364-3>

- But we want 1.5C
- And we keep buying new fossil fuel machines

"the greatest transfer of wealth in human history, from energy producers to energy consumers"

- Sean Casten, U.S. representative for Illinois's 6th congressional district (Congressman)



Conclusion

Buy our 'electric cherries'

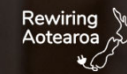
- Visit <http://market.nz0.com/> (or NZ0.com and click the 'Preorder' menu option in the top right of the site).
- Enter promo code 'SEANZ' and receive a 10% discount.
- First pick, fresh, crunchy, zero fossil fuel, export quality cherries will be delivered to your door!



We need to make sure everyone's next purchasing decision is electric.



Conclusion



Nga mihi nui