



SECTION 1 | MY BACKGROUND

## My background

**FINANCIAL REVIEW**

**Exclusive**

**SEEK moves to strengthen graduate offering with GradConnection acquisition**

Online job 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

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SECTION 1 | RETURNING HOME

## Returning to Aotearoa

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SECTION 1 | MT PISA

## Mt Pisa

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SECTION 1 | PLANTING AN ORCHARD

### Plant a cherry orchard

- 9300 trees (25km)



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SECTION 1 | PLANTING AN ORCHARD

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- 80T of cherries at full production



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## Plant a cherry orchard

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- 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



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## 100% electric farming system

- 20 machines electrified
- 10,000 visitors



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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



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## Award Winners

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

- 45k PV array
- 120kWh battery array



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THE ELECTRIFICATION OF EVERYTHING

## SEANZ 2022



SEANZ presentation last year



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THE ELECTRIFICATION OF EVERYTHING

## SEANZ Case Study

<p><b>Machinery</b> 10 Years</p> <ul style="list-style-type: none"> <li>• or 15 years without grants</li> </ul>	<p><b>Solar Panels</b> 14 Years</p> <ul style="list-style-type: none"> <li>• 45 kW</li> <li>• 30c to 6c per kWh</li> </ul>	<p><b>Batteries</b> 13 Years</p> <ul style="list-style-type: none"> <li>• 120 kWh</li> <li>• 6c to 4c per kWh</li> <li>• Resilience</li> <li>• 75% lower line charge</li> </ul>
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2023  
Then things exploded

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## 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



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## And we didn't stop there

**1 month ago**  
**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

**12 hours**  
**Cromwell orchard launches New Zealand's first driver-optional, fully electric tractor**  
 The 40CV Monarch tractor - the country's first driver-optional, fully electric tractor - was launched at Cromwell on Saturday.  
 1 hour 41 ago

**1 hour 41 ago**  
**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

**11 November 23**  
**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







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## 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

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## Country Calendar

Appearing October 8th.









**HYUNDAI**  
**COUNTRY**  
**CALENDAR**

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## Political Interest









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## Our first export crop

- 8 tonnes Jan 2023
- 30 tonnes expected 2024

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How can we scale electrification nationally?




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## 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.





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## Farm Energy Costs



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

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

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## Consumption Breakdown

**lackcurrent**

**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

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## 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

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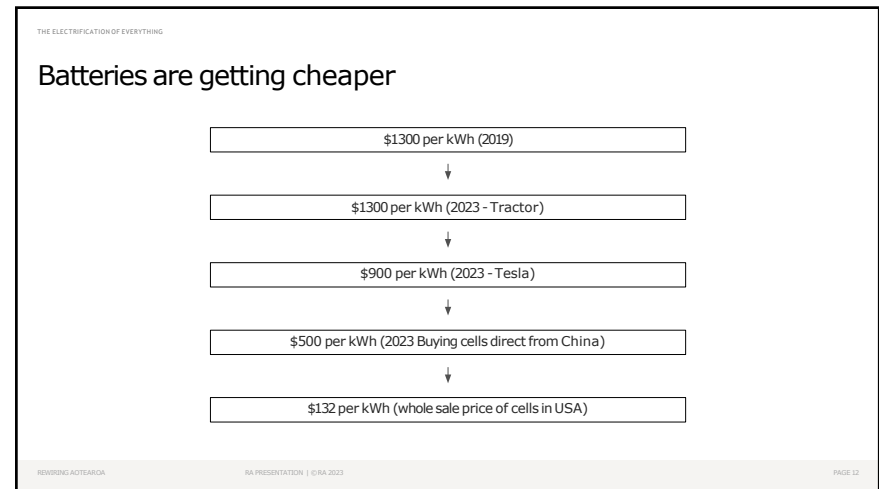
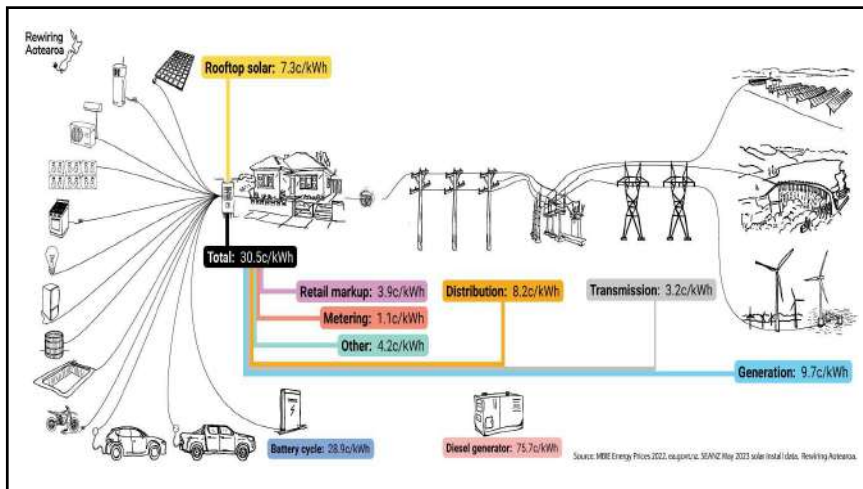
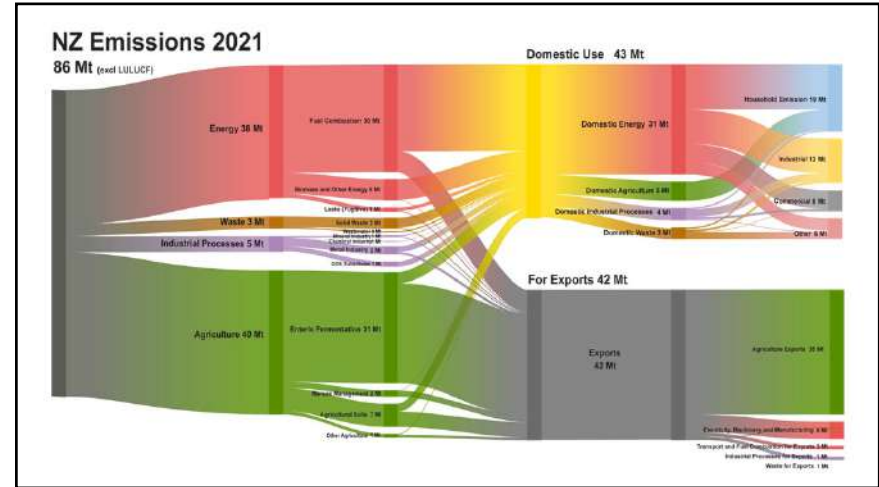
## Rooftop solar benefits

It's too hard to explain.

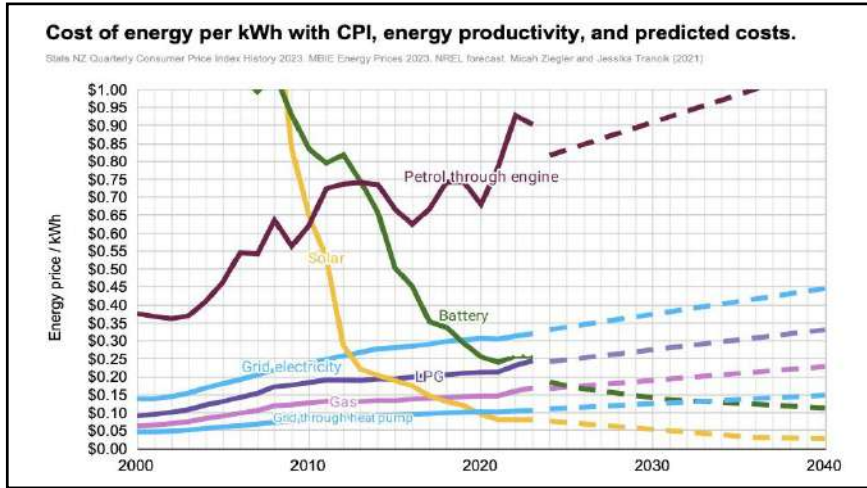
- 40% decrease in grid take

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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.*

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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>

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- But we want 1.5C

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- 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