

8 November 2021

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### **Waste to Energy plant in Waimate**

I would like copies off all correspondence and meetings notes councillors or council staff have had around South Island Resource Recovery Limited's proposal to build Waste to Energy plant in Waimate

That is;

1. Any advice councillors have had from staff around the proposal
2. Any correspondence or meeting notes councillors or staff have had with South Island Resource Recovery Limited
3. Any correspondence or meeting notes the Waitaki District Council has had with Waimate District Council around the proposal.

Waitaki District Council (WDC) Councillors advised that they have not received any advice or had any correspondence in regard to this matter.

The public drop-in session (notes attached) was attended by WDC's Solid Waste Manager.

#### Attached Files

Waste to Energy Report.pdf

Drop in Notes.pdf

13<sup>th</sup> October Meeting.pdf

Waste Energy Drop in Session Report LGOIMA Relevant.pdf

Yours sincerely,

**Information Management Officer**

Eden Maher

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From: Steve Clarke <sclarke@waitaki.govt.nz>  
Sent: Friday, 24 September 2021 5:19 PM  
To: Erik van der Spek  
Cc: Lucianne White; Alex Parmley  
Subject: Waste To Energy Report  
Attachments: Waste to Energy Drop In Session Report.docx

Hi Erik,

I've attached a report following on from my attendance at the drop in session in Waimate on the 22<sup>nd</sup> for the Project Kea Waste to Energy Plant. I've included an overview, my thoughts, some history and a couple of options to ponder.

Thanks,

Steve

**Steve Clarke**  
Solid Waste Manager

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## Q Drop IN session

No ~~start~~ presentation as such.  
Drop In - NO Q+A.

Waste from commercial, domestic, councils  
and refuse transfer stations throughout the  
South Island



Community Information Pack has typos and  
sentences that don't make sense.

Incineration / old Technology  
In presence of oxygen - Toxicity??

\* PYROLYSIS - Gasification - in absence of  
oxygen

\* PAUL Astbury -

↳ 7 Step treatment  
to remove almost everything.

↳ Real time monitoring.

↳ Consent will determine.

- FLY ASH? - Plasma treatment 10,000°C

## DROP IN SESSION

\* Bellam Ash - Construction Materials.

Reuse.

\* Sweden 31% now imports waste.

Ant - Tim - CO2C - O2C

TS ←

Waste Net. - South - UK - Gov.

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■ lower gate fees possible.

■ Carbon Credits?

■ ETS?

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\* New technology.

\* Community Communication.

\* Change of personnel.

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6 weeks? -

13<sup>th</sup> OCT SIRRL

KEVIN STRATFOL - ALEX.P. - MYSELF

RC → MAY 2022

Timeframes? \* 2024. Doors open.

Contaminated land.

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Babbage Consulting

RC \* Purchase land within  
2-3 weeks.

Converting Coal - Electricity.

Business ~~that~~ Community.

- Concrete Blocks

- Hydrogen -

\* Plasma treatment - capture toxins

- electrolysis

- Glass

- Crushed

- Bottom Ash }  
}

✓ Roading aggregate

✓ Concrete Blocks.

Severed by [redacted] 200,000 tonnes already

Climate Commission - Class 1??

2021 - 1.2m Tonnes ??? All Landfills.

2050 - 750 Tonnes East Coast

Value Proposition? - Gate Rates

200,000 T Industry - Hazardous / Contaminated

VBASA - TECH 49 60% NZ

CNTY - 80% OS

Copenhagen - Ski Field - Incineration Plant  
Paris

\* Plant will take contaminated sites.

\* Storage for sorted waste: Renew  
Energy

## Report

To:	Erik van der Spek, Recreation Manager
From:	Steve Clarke, Solid Waste Manager
Date:	September 24, 2021
Topic:	Waste to Energy Plant Waimate, Drop In Information Session Report

### 1. Background

The consortium South Island Resource Recovery Ltd (SIRRL) is proposing to establish a Waste to Energy Plant in the Waimate District. SIRRL is a Joint Venture between Renew Energy Ltd (NZ), China Tianying Inc. (China) and Urbaser (Spain).

The brand being used to develop the project is Project Kea [www.projectkea.co.nz](http://www.projectkea.co.nz)

Information presented to date suggests actual sites are yet to be identified. Preferred sites have been identified as needing to be close to SH1 and the main railway line.

The technology to be utilised is Incineration as opposed to Pyrolysis. The difference between the processes can be found here:

<https://protect-au.mimecast.com/s/GlltCnx1AGTmyGGI9m4Qq?domain=differencebetween.com/>

The plant will require 350,000 tonnes of waste per annum to operate at its most efficient. According to Project Kea's own source and Statistics New Zealand a total of 800,000 tonnes of waste was landfilled in the South Island in 2020. This number is forecast to decrease to 600,000 tonnes by 2044.

### 2. The Drop In Session, 22nd Sep, Waimate Events Centre

The drop-in session was an informal gathering consisting of information panels spread around the walls of the room and printed information for takeaway, that is currently available on the Project Kea website. No new information was presented. 2 directors were present to talk with folk one on one. There was no formal presentation or Q&A session.

I spent the first hour reading the documentation, making notes and listening in on conversations to get a feel for the room. I heard positive comments from folk I assumed were residents about the economic opportunity it brought to Waimate.

I also heard several conversations wanting clarification on the environmental impact the operation would have. Those conversations were well handled by the directors and referred folk to the specs about the operation and in particular the 7 step flue gas treatment system. The directors also reassured folk that in the end the EPA would impose strict resource consent conditions for the emissions.

I met with Michael Macbeda, Waimate District Councils new Waste Officer and we discussed the information presented by Project Kea so far. We shared similar questionable views on the statement that "Waste, minus any recycling is expected from commercial and domestic suppliers, councils and refuse transfer stations throughout the South Island"

After an hour Michael and I invited Paul Taylor, a director, to join us and answer a few questions. Michael has good knowledge around the waste to energy process and questioned Paul around some of the technical issues. Nothing in those Q&A's gave me any cause for concern or were requiring reporting on.

The questions I asked were:

Q: What value proposition are you offering to penetrate the market and secure 350,000 tonnes of waste per annum?

A: Price competitiveness is their main offering. Without disclosing their rate per tonne they anticipate being very cost effective. They believe they will avoid MFE waste levy charges (currently \$20 tonne) and EPA levies (currently \$55 tonne). They also have revenue streams from the supply of energy and another byproduct of the incineration process that can be used in roading.

I did challenge Paul on the fact that most South Island councils have an investment in landfills and control most waste streams and was that factored into their business model?  
He said they were comfortable that they had done their maths.

Q: If the tonnage can't be secured nationally are they considering importing waste (Pacific Islands?) given the Port of Timaru was just up the road.

A: Paul did not rule out importation but did say they hadn't really considered it.

My view on this is that if waste was needing to be imported then this is a good sign. There is a perception that Waste to Energy plants are a beast that once fed need a constant supply of waste. This in turn is contrary to the philosophy of waste minimisation. If waste is being imported, then it is not being generated in NZ and therefore is irrelevant in terms New Zealand's waste minimisation goals. If that imported waste is being diverted from a landfill somewhere it adds even more value to the environment while adding value to the local economy.

Q: What had they learned from their attempt to develop the same operation on the West Coast 7 years ago?

A: The need for early engagement with the effected communities.  
The West Coast project was run by Renew Energy alone and they now have partners that bring technology and capital to the project.  
The technology has advanced significantly in 4 years