
ORDINARY MEETING

OF

WELLINGTON REGION WASTE MANAGEMENT AND
MINIMISATION PLAN JOINT COMMITTEE

MINUTES

Time: 9:30am
Date: Monday, 7 December 2020
Venue: Ngake (16.09)
Level 16, Tahiwī
113 The Terrace
Wellington

PRESENT

Councillor Colenso (via audiovisual link)
Councillor Edwards (Deputy Chair)
Councillor Elliott (via audiovisual link)
Councillor Foon (Chair)
Councillor Greathead (via audiovisual link)
Councillor Hayward
Councillor Lee (via audiovisual link)
Councillor Mailman
Councillor Taylor

IN ATTENDANCE

Councillor Stockley (via audiovisual link)

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1. Meeting Conduct

1.1 Karakia

The Chairperson declared the meeting open at 9:33am and invited members to stand and read the following karakia to open the meeting.

**Whakataka te hau ki te uru,
Whakataka te hau ki te tonga.
Kia mākinakina ki uta,
Kia mātaratara ki tai.
E hī ake ana te atākura.
He tio, he huka, he hauhū.
Tihei Mauri Ora!**

Cease oh winds of the west
and of the south
Let the bracing breezes flow,
over the land and the sea.
Let the red-tipped dawn come
with a sharpened edge, a touch of frost,
a promise of a glorious day

1.2 Apologies

Moved Councillor Foon, seconded Councillor Edwards

Resolved

That the Wellington Region Waste Management and Minimisation Plan Joint Committee:

1. Accept the apologies received from Councillor Taylor for lateness, and from Councillor Lee for early departure.

Carried

(Councillor Hayward joined the meeting at 9:37am.)

1.3 Conflict of Interest Declarations

No conflicts of interest were declared.

(Councillor Taylor joined the meeting at 9:41am.)

1.4 Confirmation of Minutes

Moved Councillor Foon, seconded Councillor Edwards

Resolved

That the Wellington Region Waste Management and Minimisation Plan Joint Committee:

1. Approve the minutes of the Wellington Region Waste Management and Minimisation Plan Joint Committee Meeting held on 7 September 2020, having been circulated, that they be taken as read and confirmed as an accurate record of that meeting.

Carried

1.5 Items not on the Agenda

There were no items not on the agenda.

1.6 Public Participation

1.6.1 Gordon Legge - The Board

Representing The Board, Gordon Legge spoke regarding waste to energy technology.

Attachments

- 1 Gordon Legge - Slideshow
- 2 Gordon Legge - Presentation

2. General Business

2.1 WMMP 3-Year Work Programme 2020-2023

Moved Councillor Foon, seconded Councillor Edwards

Resolved

That the Wellington Region Waste Management and Minimisation Plan Joint Committee:

1. Receive the information.
2. Note the 3-year regional and local work programmes 2020-2023.
3. Direct officers to prepare a letter for each territorial authority in the Wellington Region on behalf of the Wellington Region Waste Management and Minimisation Plan Joint Committee, to include the following:
 - a) Congratulations to each council for its contribution to the Solid Waste Bylaw.
 - b) A reminder that the region as a whole has committed to reducing waste by one third by 2026.
 - c) Encouragement to take into account actions and or commitments toward this goal into the upcoming long term plans.
 - d) That the Joint Committee sees the Long Term Plan process as a further opportunity to strengthen actions and engage our communities in the Waste Free Journey.
4. Delegate to the Chair and Deputy Chair of the Joint Committee the final authorisation of the letters to each territorial authority.

Carried

Secretarial note: Councillor Foon moved the motion with changes from the recommendations in the officer's report (with officer support), the changes are marked in red.

(Councillor Lee left the meeting at 10:33am.)

The meeting adjourned for morning tea at 10:40am and reconvened at 11:03am with the following members present: Councillor Colenso, Councillor Edwards, Councillor Elliott, Councillor Foon, Councillor Greathead, Councillor Hayward, Councillor Mailman and Councillor Taylor.

2.2 WMMP Overview of Resource Recovery

Moved Councillor Foon, seconded Councillor Edwards

Resolved

That the Wellington Region Waste Management and Minimisation Plan Joint Committee:

1. Receive the information.
2. Note the detailed breakdown of Regional WMMP actions provided in Attachment 1.
3. **Include in the letter to Territorial Authorities regarding the upcoming Long Term Plan (passed in the previous motion) that Councils consider increasing resourcing, including staff, in the waste minimisation area so that we can accelerate progress.**

Carried

Secretarial note: Councillor Foon moved the motion with a change from the recommendations in the officer's report, the change is marked in red. This change altered the resolution passed in item 2.1 WMMP 3-Year Work Programme, which was permitted under standing order 3.9.17 as new information was received during the discussion of item 2.2 WMMP Overview of Resource Recovery.

The meeting adjourned at 11:14am and reconvened at 11:18am with the following members present: Councillor Colenso, Councillor Edwards, Councillor Elliott, Councillor Foon, Councillor Greathead, Councillor Hayward, Councillor Mailman and Councillor Taylor.

Councillor Taylor left at 11:32am.

2.3 Update on the Regionally Consistent Solid Waste Management and Minimisation Bylaw 2020

Moved Councillor Foon, seconded Councillor Hayward

Resolved

That the Wellington Region Waste Management and Minimisation Plan Joint Committee:

1. Receive the information.
2. Note the overview of changes to a suite of proposed Solid Waste Management and Minimisation Bylaw's (2020) recommended following public consultation.
3. Note that a joint-council overview of the forthcoming bylaw implementation workstream is currently being developed and will be provided to the WMMP Joint Committee as information at their next meeting in March 2021.

Carried

The meeting concluded at 11:38am with the reading of the karakia:

Unuhia, unuhia, unuhia ki te uru tapu nui	Draw on, draw on
Kia wātea, kia māmā, te ngākau, te tinana, te wairua	Draw on the supreme sacredness To clear, to free the heart, the body and the spirit of mankind
I te ara takatū	
Koia rā e Rongo, whakairia ake ki runga	Oh Rongo, above (symbol of peace)
Kia wātea, kia wātea	Let this all be done in unity
Āe rā, kua wātea!	

Authenticated: _____

Chair

ORDINARY MEETING

OF

WELLINGTON REGION WASTE MANAGEMENT AND
MINIMISATION PLAN JOINT COMMITTEE

MINUTE ITEM ATTACHMENTS

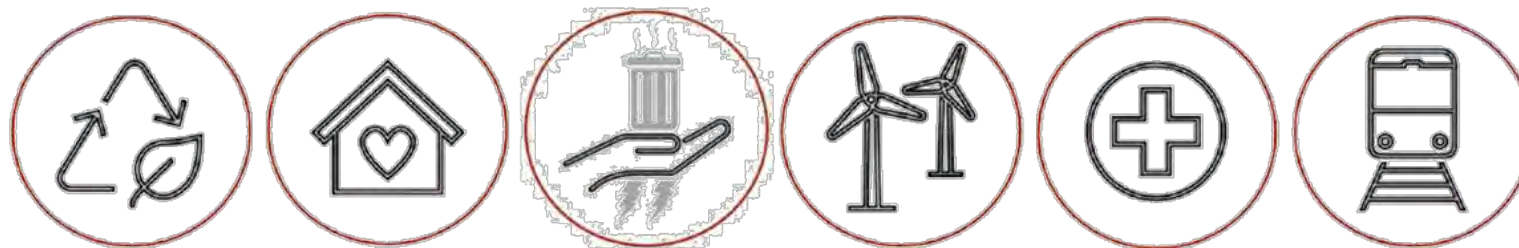
Time: 9:30am
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Business

Page No.

1.6.1 Gordon Legge - The Board

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Email us: contact@theboard.co.nz





The Problem

Mountains of Waste

We have been to the moon and to the depths of the oceans but we are still dealing with our waste the same way as we did 20,000 years ago.

There are landfills all over the country leaching into our waterways and coastline.

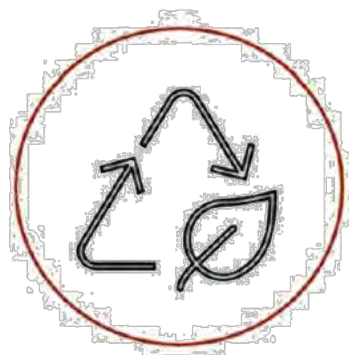
Future plans around the country are to develop more landfills, because councils know no better.

But there is a better way.

Here it is.....



The Solution: Conversion



Conversion to Fuel Pellets/Fluff. The Board's principal, US Green, has developed a process to remedy old (and current) landfills by converting MSW (municipal solid waste) to high energy pellets that can be sold on the international market or reformed as "fluff" for local consumption by power stations, cement factories, etc

We will employ a new, remarkable technology that is emissions free and will in fact, **generate carbon credits**. Our principal will build a plant on the landfill itself, mine the contents of the landfill together with "fresh" MSW, transforming the waste into pellets and/or fluff. At the end of the processing **the land will be returned to its original condition**. Our principal is willing to fully finance their projects





The Plant

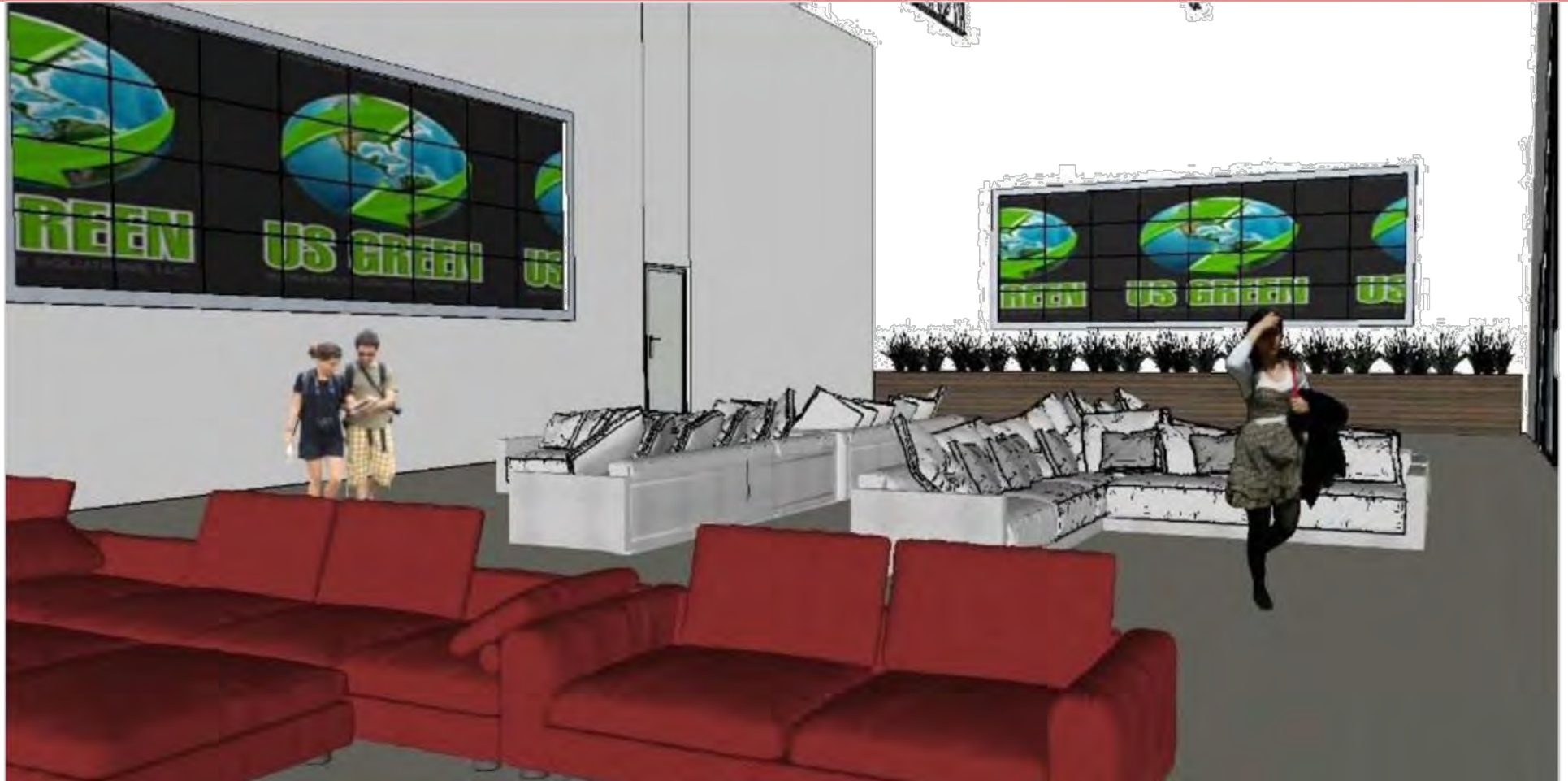
THE US GREEN ZERO EMISSIONS TOTAL WASTE PLANT

FRONT ELEVATION



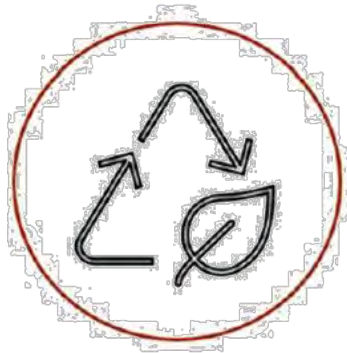


Video Room for Environmental Education





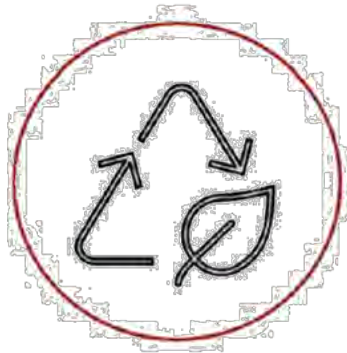
Here's How it Works



https://www.youtube.com/watch?v=wsRPDNRIObk&feature=emb_logo



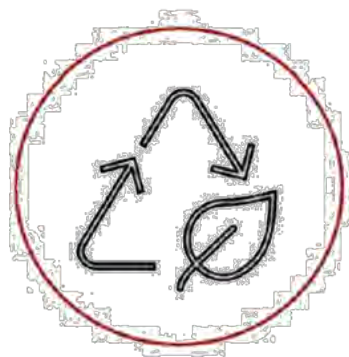
The Proposal



- ❖ **Build an emissions-free US Green plant at an existing landfill**
- ❖ **Build, install and run it, Free of charge**
- ❖ **After 30 years, gift the fully functioning plant to the city**
- ❖ **Process all daily incoming waste + 25% existing landfill content**
- ❖ **Convert this waste to pellet/fluff fuel OR electrical energy**
- ❖ **Pellets or Fluff can be used at a power station or sold to Fonterra**
- ❖ **The fuel can be readily sold on the International energy market**
- ❖ **Or generate clean electricity directly. 2000T/day = 1000MW**



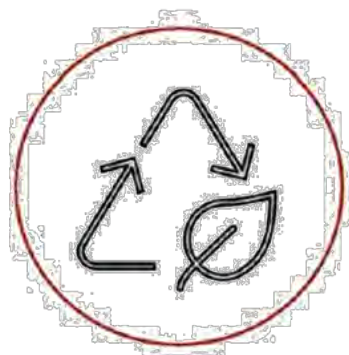
The Outcomes



- ❖ **The landfill will be remedied back to original condition**
- ❖ **No more landfills. Ever.**
- ❖ **As land is restored it can be sold off**
- ❖ **Wellington Council becomes a Champion of the Environment**
- ❖ **Wellington Council eliminates landfill aftercare costs**
- ❖ **Wellington region has a solution for the next 30 plus years**
- ❖ **The process is scaleable so can easily adjust to a growing city**



The Options

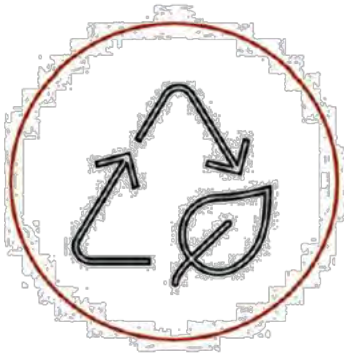


- ❖ **The US Green plant is built and operated at no cost to the country and US Green owns the production OR**
- ❖ **The US Green plant is purchased by Council and the Council owns the production**
- ❖ **The US Green plant can be configured to produce electricity, pellets or fluff, as well as drinking water**
- ❖ **For example, a power generation module can be added to the plant to produce 500MW per 1000T of MSW**
- ❖ **Fully funded plants can be set up to process as little as 500T/day**



Further Options

- ❖ The US Green plant can be adapted to produce housing components
- ❖ The resulting houses (or apartments) are cheap, can be fully constructed in 3 days, are cyclone and earthquake resistant and are completely insulated. They can also be provided with their own electricity supply





This revolutionary technology is provided by
US Green Infrastructure Solutions LLC
The Board is the Exclusive Representative for US Green in NZ

for more information, please contact



The Board Ltd is a private consulting company that seeks out the latest technologies and practices to provide the best solutions to infrastructure problems that impact on our future

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www.theboard.co.nz



**SUBMISSION TO
THE WASTE MANAGEMENT AND MINIMISATION PLAN
JOINT COMMITTEE MEETING**

1. EXECUTIVE SUMMARY

1.1. Since the time of the Cavemen, household waste has been disposed of in the same way: by digging a hole and burying it. Surely, 20,000 years later, there has to be a better way of dealing with waste. Of course there is.

1.2. The USA and Europe have started to make major changes to how they deal with MSW (Municipal Solid Waste). Florida is cancelling landfill contracts (Polk County and Orange County) and replacing them with environmentally-friendly processing plants. Belgium has banned landfills and has removed all capped landfills throughout the country

1.3. Initially, in many OECD countries, plants were set up to incinerate MSW, however these plants also created their own problems as they generated lethal carcinogenic emissions and toxic residual ash – as much as 30% by weight of the MSW processed – which then went to landfill

1.4. Later, plants were designed to incinerate MSW and generate electricity, but the deadly emissions and residues continued to be produced

1.5. Recently, new technologies have evolved, and we now have access to a solution which will comfortably process with ZERO emissions all of the MSW generated in the lower North Island with the only residue (3-5%) being a harmless ash which can safely be used as a very effective fertilizer. In fact, the process CREATES CARBON CREDITS

1.6. This technology, provided by US GREEN INFRASTRUCTURE SOLUTIONS LLC (www.usgreenrg.com), represented by my company, THE BOARD LTD, can be configured to produce significant amounts of electricity and/or fuel pellets, and/or construction materials

1.7. The only by-products are drinking water and the aforementioned fertilizer-ash

1.8. Not only will such a plant finally, after so many millennia, render landfills obsolete, it can also mine waste from old landfills and restore the land to its original condition

1.9. US Green is also prepared to totally finance the construction and operation of a Zero Emissions plant to service the Wellington region (subject to some conditions)

1.10. We submit that landfills are not longer required. Ever. If there exists such a solution as we have presented here, it would be irresponsible to contemplate creating new landfills

2. ARE MODERN LANDFILLS SAFE?

2.1 Regulations require that most landfills use liners and leachate collection systems to minimise the seepage of leachate to ground water. Although liners and leachate collection systems minimise leakage, liners can fail and leachate collection systems may not collect all the leachate that escapes from a landfill. Leachate collection systems require maintenance of pipes, and pipes can fail because they crack, collapse, or fill with sediment. The USEPA has concluded that all landfills eventually will leak into the environment (U.S. Environmental Protection Agency, 1988). Thus, the fate and transport of leachate in the environment, from both old and modern landfills, is a potentially serious environmental problem. Source: U.S. Geological Survey Fact Sheet 040-03 - August 2003 by Scott C. Christenson and Isabelle M. Cozzarel

3. WHO WE ARE

3.1. The Board Ltd's mission is: **To identify environmental, infrastructure and health problems and apply our experience and wisdom to finding a better solution**

3.2. The Board Ltd is a NZ owned and operated company

3.3. The Board Ltd is the exclusive representative of US Green in New Zealand

3.4. US Green Infrastructure Solutions LLC is a registered corporation based in the USA. Although the technology is very new, it has built Zero Emissions plants in the USA and has signed agreements to build Zero Emissions plants in Russia, Asia, Europe, Africa and South America