



Memorandum

03 June 2021

To	Bioelektra Australia Pty Ltd		
Copy to	Michael Lobos & Fred Itaoui		
From	Carla Pignatelli	Tel	+61 2 92397193
Subject	Community and Stakeholder Engagement Outcomes	Job no.	12536311

The following memo provides a summary of the community and stakeholder engagement activities undertaken by GHD on behalf of Bioelektra Australia Pty Ltd (Bioelektra) between August 2020 and December 2020. These activities were undertaken to support the preparation of the Development Application (DA), and Environmental Impact Statement (EIS) documentation, for the assessment of Bioelektra's Resource Recovery Plant (RRP) in West Nowra.

1 Project background

In 2016, GHD prepared an Environmental Impact Statement (EIS) for Shoalhaven City Council for a Resource Recovery Park (RRP), which was to be located adjacent to its existing landfill facility at Flatrock Road, West Nowra.

Council awarded Bioelektra Australia Pty Ltd (Bioelektra) with the contract to construct and operate Stage 2 of the works. The Stage 2 project is defined as the construction and operation of an integrated resource recovery facility, with pre-treatment for mixed municipal waste of up to 130,000 tonnes per year.

2 Engagement approach

GHD developed a Community and Stakeholder Engagement Plan (CSEP) (see appendices) at the commencement of the project, which:

- Identified key stakeholders (as part of the SEARs)
- Identified directly impacted landholders
- Captured a project communication risk assessment
- Recommended an Engagement Action Plan

Having undertaken communications and engagement activities on behalf of Shoalhaven City Council in 2016, the engagement approach for Bioelektra's program of works was to build upon the knowledge and response to the project in 2016 and to develop an engagement program that was appropriate to the level of interest and impact within the community.

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To successfully deliver appropriate community and stakeholder engagement under the SEARs, GHD worked within the following engagement objectives:

- Understanding the context of engagement activities (what was done previously, with who, the outcomes and gaps)
- Undertaking a robust stakeholder analysis to identify appropriate community members and agencies with an interest in the project and cross checking with those identified in the SEARs
- Carrying out engagement using a variety of both traditional and digital tools to ensure project information was available and accessible to all stakeholders, particularly during COVID-19 and any associated community restrictions
- Opening up communication channels between stakeholders and the project team through the implementation of a 1800 phone line and email address.

3 Engagement activities and outcomes

3.1 Statutory Stakeholder Engagement

GHD undertook statutory consultation activities with agencies identified in the Secretary's Environmental Assessment Requirements (SEARs).

On 22 October 2020 GHD's community relations representative issued a statutory consultation letter to these agencies, providing them with an update on the project, the proposed works to be undertaken, and offering a briefing on the project to those who requested it.

The table below identifies each agency that were issued a consultation letter, and the response received as of early May 2021. A copy of all correspondence is available in the appendices of this report.

Table 1 Statutory engagement activities and outcomes

Agency	Date issued	Response Received	Comments
Transport for NSW – Roads	21/10/2020	None	
Department of Planning, Industry & Environment	21/10/2020	9/12/2020	BDAR Waiver issued, no additional comments required. Note engagement with the EPA still necessary.
Environmental Protection Authority	21/10/2020	Briefing 2/11/2020	Additional points of consideration for inclusion in the EIS. Draft minutes issued 13/11/2020. No response received.



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Agency	Date issued	Response Received	Comments
Rural Fire Service	22/10/2020	None	Letter issued via post. No response received
Shoalhaven City Council	21/10/2020	9/02/2021	Ongoing liaison with Bioelektra project team and Council (see section below). Additional comments for consideration in the EIS received via email on 9/02/2021

Other engagement taking place with agencies as part of the EIS

As part of the development of the EIS, GHD undertook engagement activities with a number of other agencies. In this instance, the relationship from an engagement perspective, was managed by staff from the associated technical teams. These agencies included

- Shoalhaven City Council – ongoing liaison between Council and Bioelektra as the beneficiary of the facility
- Fire and Rescue NSW – a meeting application was submitted to Fire and Rescue NSW (FRNSW) on 29 January 2021 to seek comment on the project including the proposed fire safety measures. A copy of the fire and incident management review was provided to FRNSW as part of the application. A meeting with FRNSW was subsequently held on 18 May 2021. FRNSW indicated it was generally happy with the proposed approach to fire safety and provided some recommendations for consideration during the next design stage.

Additional engagement activities as recommended by DPIE

Following the issue of the draft EIS for adequacy review, DPIE returned to GHD on 10 March 2021 with recommendations for additional consultation activities to take place as part of this project. Follow up meetings were undertaken with DPIE and the Major Hazards Unit of DPIE.

The table below outlines the additional activities that took place.

A copy of the correspondence is provided in the attachments.

Table 2 Statutory engagement activities and outcomes

Agency	Date issued	Response Received	Comments
DPIE	7/04/2021		Teleconference with DPIE to discuss adequacy review and consultation requirements
Major Hazards Unit - DPIE	14/04/2021		Teleconference to confirm preliminary hazard assessment approach



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Jemena Gas Networks	28/04/2021	None	Email issued to Jemena outlining the project and requesting comment. Response received 2 June 2021.
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3.2 Directly impacted landholders

In order to capture feedback from landholders located in the vicinity of the facility, GHD hand-delivered project update letters to the property owners located within the area identified in Figure 1.

The letter provided property owners and residents with an update on the proposed plans for the Bioelektra facility in the vicinity of their property and offered property owners a briefing with the project team. Recipients were provided the project team's 1800 phone line and email address to schedule a meeting.

These letters were hand-delivered to properties on 21 October 2020. GHD received no incoming phone calls or emails from these property owners in relation to the project as of early December. A copy of the letter is available in the appendices.



Figure 1 Directly Impacted Properties – Letter distribution area



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3.3 General Community

3.3.1 *Community update newsletter*

To seek feedback from the broader community surrounding the facility location in West Nowra, GHD prepared a project update newsletter, which was distributed to approximately 1800 West Nowra residents located within a 4 km radius of the facility location (Figure 2). The newsletter was issued to residents on 12 November 2020.

The newsletter included:

- A project update
- Information about Bioelektra and its technology
- An invitation to a community information session, with a link to register attendance
- Contact information for the project team for the community to ask any questions

The newsletter that was distributed to community is available in the appendices.



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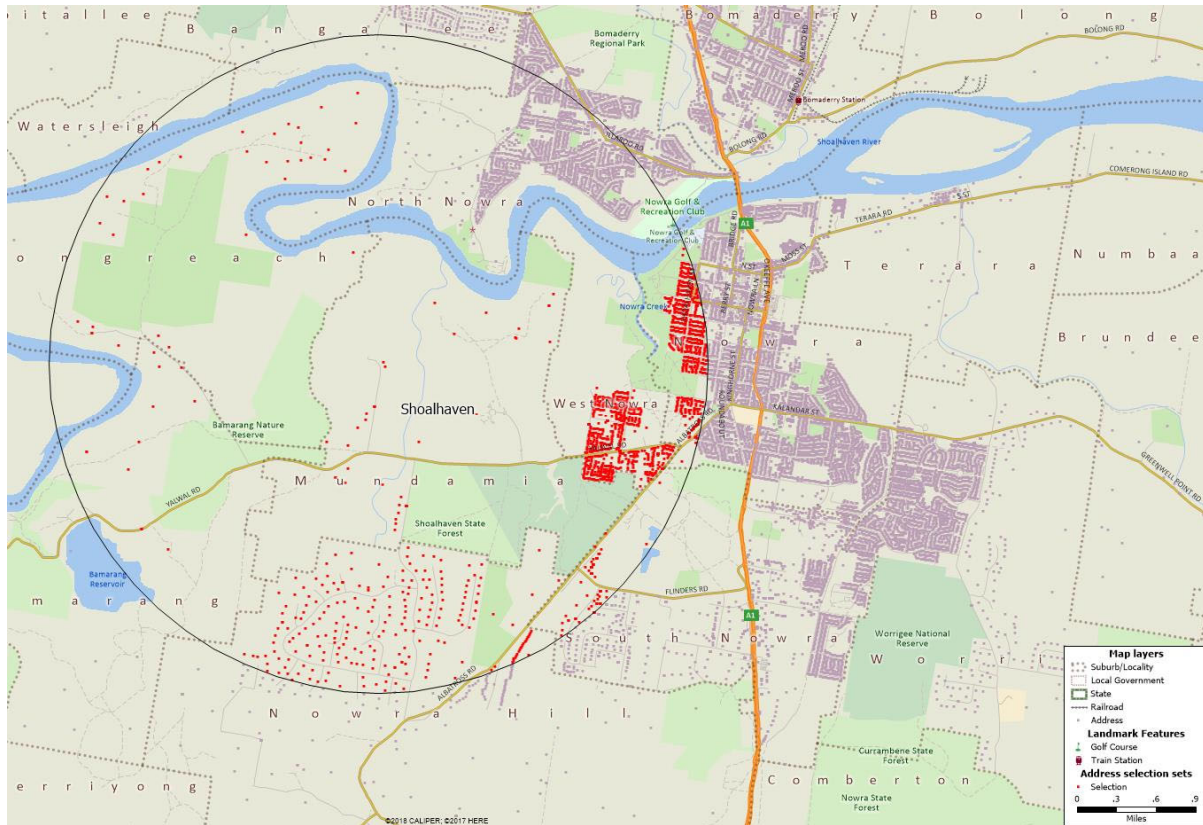


Figure 2 Newsletter distribution area

Recipient response to the newsletter

Since the distribution of the community newsletter on 12 November 2020, GHD received the following incoming correspondence from recipients.

Table 3

Correspondence type	Date	Enquiry	Response
Incoming phone call (1800 line)	16/11/2020	Would like to know more about how waste is turned into energy.	Confirmed the facility generates products that can be recycled. Directed caller to Bioelektra's webpage via email.
	25/11/2020	Is there an opportunity for Bioelektra to partner with local hospitals to aide in recycling of medical waste?	Enquiry forwarded to Bioelektra to manage directly.



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Correspondence type	Date	Enquiry	Response
Information session registration	15-18/11/2020	x3 registrations using Microsoft Forms	Confirmation phone call or email issued.

3.3.2 Community information session

An in-person community information session was held on 25 November 2020, between 3 pm and 6 pm at the Committee Room in the Nowra Showground. The session was advertised via a community newsletter, distributed to over 1 800 residents in the West Nowra area.

The purpose of this session was to:

- Provide a platform for the community to ask questions about the project
- Inform the local community about Bioelektra's technologies
- Seek feedback on the project for consideration in the EIS.

To ensure staff and community attendees were kept safe, GHD took steps to ensure COVID-19 safe measures were in place. This included, physically distanced room set up, pre-registration for the session to manage incoming attendees and provision of hand sanitiser, face masks and disinfectant.

Prior to the session, three groups of attendees registered for a 30-minute timeslot at the information session. On the day of the session, two groups, three people in total, were in attendance.

Comments received at the session

During the session, the comments relating to the project were overwhelmingly positive. A range of questions were asked, these included:

- The size and layout of the plant
- How materials are recycled and who were the on-sellers for the recyclable products
- Project timing
- The service area for the project
- Other similar facilities and their success
- Alternative recycling technologies in Australia
- How the site will be powered
- Funding avenues for the project
- Impact of the project on Council rates
- Opportunities for collaboration with other South Coast industries such as University of Wollongong
- How does the recycling product the plant creates get recycled?



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4 Recommended next steps

The interaction from community and stakeholders regarding this project was limited during these communication activities, however, the comments that were received from attendees at the information session were positive.

Noting this, GHD recommends Bioelektra continue to engage with the West Nowra community as appropriate. This will aid in continuing to gather feedback on their proposal, and to also inform the community of the facility as planning progresses.

If the DA for this project is approved, GHD recommends an ongoing community engagement program with the affected catchment for this project. The program will continue to educate the community on the technology, benefits, and provide information on how this project will impact local community household waste management.

To further establish the Bioelektra facility in the Shoalhaven community, GHD recommends Bioelektra liaise with University of Wollongong, using its waste management technology as a way to support education around sustainability, waste management and recycling.

Regards

A handwritten signature in black ink, reading 'Carla Pignatelli'. The signature is written in a cursive, flowing style.

Carla Pignatelli
Engagement Advisor

Appendices

Carla Pignatelli

From: Carla Pignatelli
Sent: Wednesday, 21 October, 2020 4:56 PM
To: development.southern@rms.nsw.gov.au
Subject: Attn: Rachel Carrocci - Statutory Consultation for Bioelektra RRP, West Nowra
Attachments: SEARs - SSD 9887.pdf; 2127977-REP-1_West Nowra Resource Recovery Facility - PEA.pdf; 12536311-LET_Statutory Consultation letter_TFNSW.pdf

Good afternoon Rachel,

Myself and GHD are working on behalf of Bioelektra to prepare an Environmental Impact Statement for the stage 2 upgrade of their Resource Recovery Park in West Nowra.

I have attached a statutory consultation letter, providing you with an update on the works and a request for comment.

I have also included the following for reference:

- SEARs
- Preliminary Environmental Assessment Requirements (PEA)

If you require further information or would like to speak with the team, you can contact me using my information below.

Kind regards,
Carla

Carla Pignatelli
Consultant
Engagement, Communication and Communities

GHD

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Carla Pignatelli

From: Daniel Robson <Daniel.Robson@environment.nsw.gov.au>
Sent: Wednesday, 9 December, 2020 2:02 PM
To: Carla Pignatelli
Cc: Bruce Zhang; Anna Montgomery
Subject: RE: Attn: Daniel Robson - Statutory Consultation for Bioelektra RRP, West Nowra

Hi Carla – given that you have a BDAR waiver, there is nothing for our team to assess with this project, noting that the EPA is a separate entity who you need to consult with directly

Cheers, Dan

Dan Robson
Senior Conservation Planning Officer, Planning (Illawarra)
South East Branch

Biodiversity and Conservation | Department of Planning, Industry and Environment T 02 4224 4185 | E daniel.robson@environment.nsw.gov.au
Level 3, 84 Crown Street, Wollongong NSW 2500
www.dpie.nsw.gov.au



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From: Carla Pignatelli [mailto:Carla.Pignatelli@ghd.com]
Sent: Wednesday, 9 December 2020 1:48 PM
To: Daniel Robson <Daniel.Robson@environment.nsw.gov.au>
Cc: Bruce Zhang <Bruce.Zhang@planning.nsw.gov.au>; Anna Montgomery <Anna.Montgomery@ghd.com>
Subject: Attn: Daniel Robson - Statutory Consultation for Bioelektra RRP, West Nowra

Hi Daniel,

Bruce Zhang provided your contact information as the officer at the EES Group who dealt looked after the SEARs for the Bioelektra project in West Nowra.

I have attached a Statutory Consultation letter, which I had originally provided to Bruce, as well as:

- SEARs
- Preliminary Environmental Assessment Requirements (PEA)
- BDAR waiver Approval

Are you able to review and contact me with any comments or questions? If you would like a project briefing, I am also happy to arrange this with the team. My contact information is in the email signature below if you wish to get in touch.

Kind regards,
Carla

CARLA PIGNATELLI
BA (Int. Rels. & Dev. Studies) IAP2 Cert
Consultant – Engagement, Communication and Communities

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From: Carla Pignatelli
Sent: Wednesday, 21 October, 2020 3:07 PM
To: bruce.zhang@planning.nsw.gov.au
Subject: Attn: Bruce Zhang - Statutory Consultation for Bioelektra RRP, West Nowra

Good afternoon Bruce,

Myself and GHD are working on behalf of Bioelektra to prepare an Environmental Impact Statement for the stage 2 upgrade of their Resource Recovery Park in West Nowra.

I have attached a statutory consultation letter, providing you with an update on the works and a request for comment.

I also note the approval from Planning for the waiver of requirement to prepare a biodiversity development assessment received 19/3/2019 (attached). Which would suggest no further comments from DPIE would be expected, however I wanted to make sure we were addressing all the requirements stipulated in the SEARs and confirm this was the case.

I have also included the following for reference:

- SEARs
- Preliminary Environmental Assessment Requirements (PEA)

If you require further information or would like to speak with the team, you can contact me using my information below.

Kind regards,
Carla

Carla Pignatelli
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Carla Pignatelli

From: Carla Pignatelli
Sent: Wednesday, 12 May, 2021 12:13 PM
To: Greg Frost
Subject: RE: Bioelektra project briefing - meeting notes - DFT
Attachments: 12536311-MIN_Agency briefing (EPA) FNL.pdf

Good afternoon Greg,

Apologies for the delayed response. I have attached the final meeting minutes for your information.

We hosted a community information session on 25 November 2021, which was met with a positive response from the community members who attended.

Further information on our EIS, including the consultation outcomes report, will be available in the coming months.

Kind regards,
Carla

Carla Pignatelli
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From: Greg Frost <Greg.Frost@epa.nsw.gov.au>
Sent: Tuesday, 17 November, 2020 12:01 PM
To: Carla Pignatelli <Carla.Pignatelli@ghd.com>
Subject: RE: Bioelektra project briefing - meeting notes - DFT

Good afternoon Carla

Thank you for meeting with us and giving us an opportunity to engage early in the process. I have no comments to make on the draft meeting minutes you provided.

I also appreciate the update on community engagement regarding the proposal.

Regards,

Greg Frost

Operations Officer
Regulatory Operations
NSW Environment Protection Authority
D 02 4224 4113 | M 0438 345 772



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From: Carla Pignatelli <Carla.Pignatelli@ghd.com>
Sent: Friday, 13 November 2020 9:48 AM
To: Greg Frost <Greg.Frost@epa.nsw.gov.au>; Nick Feneley <Nick.Feneley@epa.nsw.gov.au>
Cc: Anna Montgomery <Anna.Montgomery@ghd.com>; David Gamble <David.Gamble@ghd.com>; michael lobos (InTouch) <michael@bioelektra.com.au>; 'Fred Itaoui' <fred@bioelektra.com.au>
Subject: Bioelektra project briefing - meeting notes - DFT

Good morning all,

It was great to catch up with you last week to discuss this project. I have attached a draft set of meeting notes for your reference. If you have any further amendments or questions, please let me know.

As an FYI, we recently distributed a project update newsletter to residents within a 4 km radius of the site, with an information session scheduled for two weeks' time.

Thanks again,
Carla

CARLA PIGNATELLI
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Minutes

13 November 2020

Project	Bioelektra - West Nowra RRF SSD EIS	From	Carla Pignatelli
Subject	Authority Consultation Briefing - EPA	Tel	+61 2 92397193
Venue/Date/Time	Microsoft Teams' Meeting / 02 November 2020 / 11 am - 12 pm	Job No	12536311
Copies to	All attendees and Name (Company)		
Attendees	CP Carla Pignatelli (GHD) AM Anna Montgomery (GHD) DG David Gamble (GHD) ML Michael Lobos (Bioelektra)	FI Fred Itaoui (Bioelektra) GF Greg Frost (EPA) NF Nick Feneley (EPA)	

Minutes

Action

1 Introductions

N/A

2 Project update and overview

Bioelektra awarded agreement with Shoalhaven Council (Council) to develop a recycling facility in Nowra. Bioelektra are working with GHD to develop an EIS.

Plant will sterilise waste material and then use technologies to separate the waste into various fractions for reuse.

Process deals with red lid bins primarily. It has potential to deal with yellow lid bins but Bioelektra is currently not contracted to deal with yellow lid bins.

Only place where waste is touched in the facility is in the reception hall and then the remaining process is automated.

At the end of the process there are 12 different fractions of the waste. Technology can automatically separate different fractions including biodegradable, glass, material and separated down to about 2 cm in size. 99.99% pure.

EIS lodgement is aiming for early 2021.

Community and stakeholder engagement is also taking place as stipulated in the SEARs. GHD have issued agency letters similar to the one received by the EPA, offering a briefing.

Minutes**Action**

A project newsletter will be distributed to within approximately 4 km radius of the site, which will advertise a pre-registered information session two weeks later.

3 Air quality management

Minimal air quality impacts anticipated as there is only one point of receipt (enclosed receipt hall).

NF – EIS should provide a comprehensive air quality assessment. This needs to identify odour sources, assess impacts and identify treatments and mitigation measures. What are the odour control measures in the receipt hall? Is there any odour potential from biomass during maturation stage or handling?

FI – end up with low moisture of biomass – 10% to 15% moisture level once the process is complete. No intention to store on site for extended periods – likely removal from site within 24 hrs. Experience is that it smells like dirt.

NF – requested example of similar products that could indicate odour impacts. FI - Data from Plant operating in Poland. And also noted all materials stored under cover.

GF noted air quality and odour management would be the key focus for the assessment of the EIS. FI mentioned this was the key focus in developing the technology as well and will be outlined in the EIS.

4 Water Management

NF – had questions about leachate. FI mentioned there is a slanted flooring going into drains and on-site water management system.

NF – important to see water management described and quantified in the EIS. This includes a water balance which identifies water demand, water reuse and disposal quantities.

Steam is not injected directly to the waste – the steam is injected into the jackets of the autoclaves. This allows approx. 80% of this steam to be reused. The sterilisation occurs when inherent moisture content of the waste heats up to generate steam.

NF - Stormwater management to also be included in EIS

5 Contamination Management

GF – Process control – what contingencies would be in place.

FI – truck loading bay for inspection of waste before process commences. They have scanners in place to detect asbestos. If it does have asbestos that will be isolated and follow appropriate baggage and notification process.

Noted the only things that would be considered contaminated waste would be asbestos or construction waste. They have an agreement

Minutes**Action**

with Council to reject a load of waste if contaminated. Otherwise they are equipped to handle most household and commercial waste items.

Information to be detailed in the EIS.

6 Outputs

NF noted that if the product at the end to be used as fuel, there are some contamination requirements about what can and can't be used. Those products can be dangerous when burned. Has Bioelektra made allowances for this? FI confirmed the technology can identify these substances and they are removed during the process.

NF – Biomass outputs referenced in meeting where MWOO Resource Recovery Order was revoked. How would biomass be handled ad used without MWOO Resource Recovery Order that was revoked?

FI – biomass can be used in a number of ways. They have contacts who can use the biomass in bricks. This agreement has been secured already prior to commencement of the EIS. High quality, clean and dry product is manufacturer ready so very attractive to manufacturers because it doesn't have to go through additional processes. There will be no application of biomass to land.

NF – requested Bioelektra identify this in the EIS what the end markets are for the outputs of the facility.

7 Additional comments

Autoclave questions – NF noted it is important to understand how the process works in the EIS so EPA can appropriately to understand impacts from an environmental perspective.

NF noted that adherence to any guidelines specified in the SEARs will streamline the EIS assessment process.

8 Close

Carla Pignatelli

Engagement Advisor

22 October 2020

Alan Bawden
NSW Rural Fire Service
NSW Rural Fire Service Locked Bag 17
Granville NSW 2142

Our ref: 12536311-15790-92
Your ref:

Dear Mr Bawden

West Nowra Resource Recovery Park – Stage 2

Project background

We previously wrote to you 2013 to notify you of Shoalhaven City Council's (Council) proposal to develop a Resource Recovery Park (RRP) adjacent to its current landfill facility at Flatrock Road, Nowra. The objectives of this RRP are to:

- Reduce the amount of waste requiring landfill disposal, and thereby extend the life of the West Nowra landfill to allow it to continue to serve the local community's waste disposal needs further into the future
- Improve resource recovery rates in line with the objectives of the NSW Waste Avoidance and Resource Recovery Strategy 2014-21, which includes targets for diverting more waste from landfill and increasing recycling.

In 2016 Council submitted an Environmental Impact Statement (EIS) for a Concept Proposal for the RRP with a combined capacity of 130,000 tonnes per year as well as Project Approval for the first stage of the development. The Concept Proposal included:

- Stage 1 – clearing of land and provision of basic infrastructure on the nominated site, which would be undertaken by Council or contractors appointed by Council as part of early construction works.
- Stage 2 – construction and operation of a resource recovery park which would be undertaken by an alternative waste technology provider/facility operator, selected through a tendering process to provide the specialised resource recovery facilities.

A staged approach was adopted to enable construction of Stage 1 of the proposal to commence (subject to planning approval) while a contractor was appointed and while the details of Stage 2 were determined via the tendering and design process.

Council received Concept Approval and Stage 1 Project Approval for the West Nowra Resource Recovery Park on 25 August 2016 (SSD 7015).

For more information on these activities, please visit Council's website at <https://getinvolved.shoalhaven.nsw.gov.au/rrf>.

Stage 2 activity status

Council has since awarded Bioelektra Australia Pty Ltd (Bioelektra) with the contract for Stage 2 of the works.

The Stage 2 project is defined as the construction and operation of a resource recovery park with pre-treatment for mixed municipal waste of up to 130,000 tonnes per year, comprising:

- Shredder operations
- Sterilisation of waste through autoclaving
- Sorting and processing operations
- Other areas for processing and storing and receiving processed material
- Transformer hall
- Boiler room
- Offices and amenities

The project also includes the provision of ancillary infrastructure, including:

- Weighbridges and weighbridge offices
- Circulation roadways and road reserves
- Staff and visitor car parking, including line marking
- Two sediment / detention basins
- Fencing around the perimeter of the site
- Asset protection zones (APZs)
- Liquid Petroleum Gas (LPG) station
- Pumping station and firefighting tank

The Concept Approval (SSD 7015) included construction and demolition waste processing and an alternative waste treatment/materials recovery facility.

Construction and demolition waste processing is no longer a proposed part of the project and the waste processing technology proposed by Bioelektra includes sterilisation of waste through autoclaving and materials recovery through various sorting operations.

Other ancillary infrastructure not included as part of the Concept Approval but proposed for this project now includes a boiler room, transformer hall, LPG station and pumping station and firefighting tank.

Environmental impact statement (EIS)

GHD is currently preparing an Environmental Impact Statement (EIS) on behalf of Bioelektra to support a development application for Stage 2 including an assessment of the potential environmental impacts of the facility in accordance with the SEARs for Stage 2 (SSD 9877). GHD is also undertaking additional community and stakeholder consultation.

Briefing offering and request for feedback

Consultation is an integral component of the project as it allows relevant government agencies to stay informed and provide feedback. It also allows the project team to integrate feedback from the agencies early into the EIS document preparation. Attached to this letter are the Preliminary Environmental Assessment (PEA) & Secretary's Environmental Assessment Requirements (SEARs) for your information and reference.

As part of this process, we would like to offer your organisation a briefing. Please contact our Community and Stakeholder Engagement Advisor, Carla Pignatelli on 1800 810 680 or email community.input@ghd.com to arrange a teleconference at a time that is convenient.

Alternatively, if you would like to provide written feedback for consideration during the preparation of the EIS, please feel free to email us at community.input@ghd.com.

Sincerely
GHD

Carla Pignatelli

Engagement Advisor
+61 2 92397193

Carla Pignatelli

From: Elliott Weston <Elliott.Weston@shoalhaven.nsw.gov.au>
Sent: Tuesday, 9 February, 2021 8:57 AM
To: Carla Pignatelli
Subject: RE: Attn: Stephen Dunshea - Statutory Consultation for Bioelektra RRP, West Nowra

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Hi Carla,

I refer to your email below in relation to State Significant Development No. SSD 9887 relation to Council land identified as No. 114 Flatrock Road, Mundamia (Lot 342 DP 257515).

It is noted that GHD is currently preparing an Environmental Impact Statement (EIS) on behalf of Bioelektra to support a development application for Stage 2 including an assessment of the potential environmental impacts of the facility in accordance with the SEARs for Stage 2 (SSD 9877).

It is noted that on 25 August 2016, the Minister for Planning issued Concept Approval (SSD 7015) for the West Nowra Resource Recovery Park, comprising:

"A concept proposal for a resource recovery facility designed to process up to 130,000 tonnes of waste per annum.

Stage 1 works consisting of the demolition of existing buildings, clearing of land, site grading, provision of basic infrastructure including offices and amenities, a new site entrance, site access roads, detention basins, car parking and preparation of asset protection zones for bushfire protection."

The concept proposal conditions under Schedule B of SSD 7015 (the Consent) limits Stage 2 and any future application and determination to be generally consistent with the terms of the Consent as described in Schedule A, and subject to the conditions in Schedule B.

Any application for Stage 2 must therefore reflect the conditions of the Consent and have regard to the comments from the relevant sections of Council (below) as part of the SEARS (SSD9887) which requires the preparation of the EIS, you consult with Council and identify where the design of the development has been amended in response to these issues. Where amendments have not been made to address an issue, a short explanation should be provided.

Environmental Assessment Officer

The 3 documents sent by GHD which includes the Preliminary Environmental Assessment (PEA) requirements and the SEAR's issued by the state government. Have been reviewed. It is understood that Stage 1 clearing works have been approved already and stage 2 (which this PEA and SEAR's applies to) includes developing the resource recycling centre on the cleared site. The PEA already states the project will be done in accordance with all legislation and further impact on threatened matters will be assessed. As clearing has already been approved for the stage 1 works no further assessment is recommended by the Environmental Planning and Assessment Team for the stage 2 works as the PEA and SEAR's already details a comprehensive assessment requirement.

Environmental Services

Environmental Services has reviewed the request for information to be included in the EIS for - West Nowra Resource Recovery Facility Stage 2. It is noted that this site has been earmarked for use as a recovery centre and the closest sensitive receivers are owned by Council or other State organisations, including the Aboriginal Land Council and NPWS. Therefore, the acoustic and vibrations concerns will be minimal, however, should be considered.

The site is serviced by reticulated water, however, there are no sewerage utilities, therefore wastewater considerations will also be required.

Consideration should also be given to dust, sediment and erosion, leachate and pollution prevention and include the storage of any chemicals on-site and hazard management.

Development Engineer

A Bulk earthworks concept plan should accompany the application.

Traffic impacts and on-site parking/manoeuvring requirements:

- The preliminary EIS states that 22 employee spaces plus 11 visitor spaces would be provided. It would be ideal for these numbers to be justified, such as discussion of the number of anticipated employees, and the type, number and nature of visitors to the site.
- The site plan included in the preliminary EIS shows the parking spaces within the property frontage accessing directly to Flatrock Rd. This is not ideal due to the conflict of vehicles reversing in/out directly onto the public road, which will also experience significant heavy vehicle traffic. Ideally, these spaces should be within the site and accessed by an entry/exit driveway with acceptable sight distance.
- Light vehicle parking should be separated from heavy vehicle movements where possible, to reduce conflict.
- Internal manoeuvring will need to be demonstrated for the largest anticipated vehicles.

Stormwater drainage and water quality:

- Stormwater drainage off the site should be conveyed to a suitable point of discharge in accordance with Council's Engineering Design Specifications. Water quality targets for runoff should comply with the targets outlined in Council's DCP Chapter G2. A MUSIC model should be submitted alongside stormwater concept plans to demonstrate pollutant removal effectiveness.

Erosion and sediment control - Soil and Water Management concept plans should be included to demonstrate how erosion can be managed onsite during construction.

Traffic impacts and soil & water management are to be assessed as part of the final EIS.

The application will be required to be lodged through the NSW Planning Portal.

We trust that the above comments are of assistance and remain open to discussing the matters further, prior to the lodgement of the Development Application and EIS.

If you have any questions please don't hesitate to contact me.

Regards,

Elliott Weston

Senior Development Planner

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From: Carla Pignatelli <Carla.Pignatelli@ghd.com>
Sent: Friday, 23 October 2020 9:37 AM
To: Council Email <Council@shoalhaven.nsw.gov.au>
Subject: Attn: Stephen Dunshea - Statutory Consultation for Bioelektra RRP, West Nowra

Good afternoon Mr Dunshea

GHD are working with Bioelektra to prepare an Environmental Impact Statement for the stage 2 of the Resource Recovery Park project in West Nowra. I understand you are in ongoing discussions with Bioelektra about the upgrade, however I wanted to provide you with a formal Statutory letter, providing you with an update on the works and a request for comment. This letter has also been issued to all agencies identified in the SEARs.

I have attached a this letter, as well as the following reference documents::

- SEARs
- Preliminary Environmental Assessment Requirements (PEA)

If you require further information or would like to speak with the team, you can contact me using my information below.

Kind regards,
Carla

Carla Pignatelli
Consultant
Engagement, Communication and Communities

GHD

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From: Leonard Gawecki <Leonard.Gawecki@ghd.com>
Sent: Wednesday, 28 April 2021 2:46 PM
To: renee.mccall@jemena.com.au
Cc: Anna Montgomery; David Gamble; Emily Killoran
Subject: RE: Request by DPIE for formal consultation with Jemena Gas Networks - Bioelektra Development Proposal SSD 9887

Hi Renee,
as discussed today I provide the background and site layout for the Bioelektra Waste Facility proposal in South Nowra,
which is located approximately 125 metres from the easement of the Eastern Gas Pipeline.
DPIE have requested we contact you for comment and advise as part of the development process,
and include your response (in an Appendix) in our EIS (PHA) for completeness.

Summary project details below.
If you need anything further just call or email – contact details undersigned.

Tx in advance
Len

Bioelektra Development Proposal SSD 9887

Background

Bioelektra proposes to construct and operate an integrated resource recovery facility at West Nowra (referred to in this report as 'the project'). This report has been prepared by GHD to provide a preliminary screening and, if required, the preparation of a Preliminary Hazard Analysis (PHA) in accordance with SEPP 33 and Applying SEPP 33 (the NSW Department of Planning and Infrastructure, 2011) for the project as input to the EIS.

The Proposal includes:

- Stage 1 – clearing of land and provision of basic infrastructure on the nominated site, which would be undertaken by Council or contractors appointed by Council as part of early construction works.
- Stage 2 – construction and operation of a resource recovery park which would be undertaken by an alternative waste technology provider/ facility operator, selected through a tendering process to provide the specialised resource recovery facilities.

The project is defined as the construction and operation of a resource recovery facility with pre-treatment for mixed municipal waste of up to 130,000 tonnes per year, comprising:

- Shredder operations
- Sterilisation of waste through autoclaving
- Sorting and processing operations
- Other areas for processing and storing and receiving processed material
- Transformer area
- Boiler room
- Wastewater treatment plant
- Offices and amenities (2 levels).

Location / Site Layout

The project site is approximately five kilometres to the west of the Nowra Central Business District and is accessed from Flatrock Road, off Yalwal Road in West Nowra. The site is adjacent to the existing landfill and is located on an approximate 3.6 ha parcel of land (Lot 342 DP 257515).

The subject site is zoned SP2 Infrastructure under the Shoalhaven Local Environmental Plan 2014 (Ref. 1) and allows for infrastructure and related uses. Under this zoning the site is assumed to be industrial.

The regional map is shown in Figure 2 1 and shows the location of the proposed waste facility relative to the jemena gas pipeline (eastern gas pipeline (EGP)).



Len

Leonard Gawecki
 MBA, BE (Chem), MIE (Aust) , FAI
 Executive Advisor

GHD Advisory

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Minutes

07 April 2021

Project	West Nowra RRP Stage 2 SSD EIS	From	Anna Montgomery
Subject	Response to DPIE adequacy review comments	Tel	+61 2 92397379
Venue/Date/Time	Microsoft Team 7 April 2021 2:00 PM	Job No	12536311
Copies to			
Attendees	Bruce Zhang (DPIE) Kate Symington (DPIE) David Schwebel (DPIE) Fred Itaoui (Bioelektra) Michael Lobos (Bioelektra) Leonard Gawecki (GHD) Anna Montgomery (GHD) Laura Yum (GHD)	Apologies	William Hodgkinson (DPIE) Sheelagh Laguna (DPIE) David Gamble (GHD)

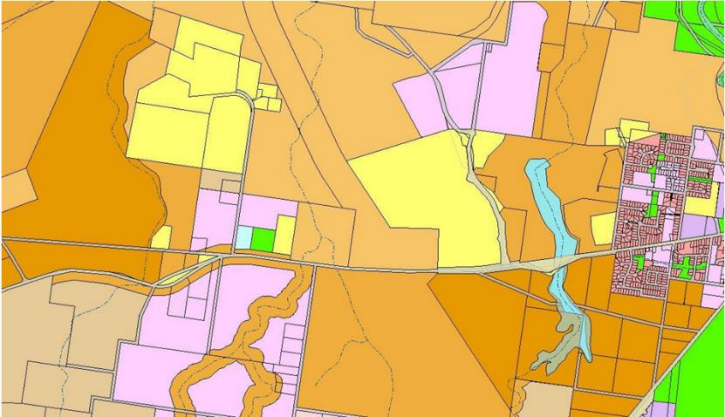


DPIE Review Comments (10 March 2021)	Response to DPIE (7 April 2021)	Notes from meeting
General Requirements:		
1. Technical reports are provided in a combined volume which makes it difficult to read and follow. When submitting the application via the Department's website, please upload technical reports individually, not as a combined volume.	Noted. Appendices including technical reports will be uploaded as individual files at lodgement.	Noted
Existing Approvals		
1. Please clarify in the EIS the status of the Stage 1 development approved under SSD-7015 in 2016. In particular, whether demolition, clearing and bulk earth works have been completed. If not yet completed, please provide a timeframe for completion of Stage 1 works and how this timing will relate to the construction works proposed under SSD-9887 (this proposal).	Stage 1 is proposed to be undertaken prior to commencement of Stage 2 works. Stage 1 is anticipated to take approximately 4-6 weeks. Stage 2 would commence immediately following completion of Stage 1. Details will be added to the EIS to provide this detail.	Noted that Stage 1 works need to be activated within 5 years from project approval prior to the lapse of the consent. Need to include an indicative date in the EIS. To activate consent the works need to be substantially commenced.
2. Please identify any works proposed outside of the development footprint shown in the site layout at Appendix 1 of the consent for SSD-7015.	An overlay figure will be provided and text added to the EIS to clarify the development footprint for SSD-7015 and how it relates to the Stage 2 footprint – including if any part of Stage 2 is proposed outside of the development footprint of SSD-7015.	Noted

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Community and Stakeholder Engagement		
1. Please include the original correspondence between the Applicant and consulted government agencies as an appendix to the EIS.	Noted. The correspondence between agencies will be included as an appendix to the EIS.	Noted
2. In particular, please include evidence of outcomes of consultation with the EPA regarding the EfW policy statement and recovered biomass.	See above. GHD notes that the consultation regarding the EfW policy statement and recovered biomass was discussed at a meeting with the EPA. Minutes of the meeting will be included in an appendix to the EIS.	Meeting minutes will be sufficient evidence. It was noted that air quality, emissions, and biomass outputs were discussed with EPA. Discussion did not specifically include EfW policy or RDF outputs. DPIE flagged that it would like to see consultation with EPA regarding heavy and light RDF and EfW policy requirements. Bioelektra noted that the RDF would be transferred to Boral cement kiln in Berrima.
Waste Processing		
1. Please show indicative machine and plant layout within the processing building on a plan and explain how the movement of materials occurs across different sections of the building.	Additional plan views will be provided in the waste chapter to show the plant and equipment in each part of the facility. Further explanation will be added which describes the material flows/movement between the various part of the facility and within the building.	Noted
2. Please clarify on a plan where unloading of waste materials will be undertaken	Additional labels will be added to the site floor plan to identify the waste unloading areas.	Noted

DPIE Review Comments (10 March 2021)	Response to DPIE (7 April 2021)	Notes from meeting
within the processing building.		
3. Please clarify where non-conforming waste will be stored within the waste reception hall.	Additional information will be added to the waste chapter regarding the configuration of the reception hall and where non-conforming waste will be stored.	Noted
4. Please clarify what the difference is between refuse derived fuel – heavy and refuse derived fuel –light.	Definition of heavy and light RDF will be added to Section 8.3.5 (see below). Heavy RDF comprises 2D materials of size over 60 mm mostly textiles. Light RDF comprises 3D material of size 12 – 40 mm such as paper, plastic films and foils. The heavy RDF is separated by a cascade separator and the light RDF is separated using pneumatic separators.	DPIE requested further explanation of the difference between 2D and 3D material and inclusion of typical photos for comparison.
5. Some of Figure 6.5 in the EIS has been cut off due to an editing error. Please update Figure 6.5 of the EIS to show the entire image.	Noted. Figure 6.5 to be amended.	Noted
Air Quality and Odour		
1. The Department notes the stack flow rate of the proposed stack at the waste reception hall is significantly lower than the referred Banksmeadow Waste Transfer Station. It is unclear whether the Banksmeadow Waste Transfer Station stack is equipped with similar dust and odour control devices to those proposed at the development. Further, the	The methodology adopted to calculate odour emissions from the project accounted for differences in stack flowrate and waste tonnage between the reference facility and the project. The project's flowrate is lower and the tonnage is higher than the reference facility and therefore odour emissions from the project were scaled up to conservatively account for these differences. Calculating the odour concentration at the projects roof extraction fan results in an odour concentration of 19,562 OU (45.5 times greater than the measured 430 OU at the Banksmeadow Waste Transfer Station). In addition, it should be noted that GHD used the maximum odour concentration	Confirmed the modelling doesn't show any significant air quality impacts considering emission controls and mitigation measures. GHD noted that this facility is the most representative. Include comment on representativeness in EIS.

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Department notes the proposed waste reception hall would store a significantly larger amount of waste than Banksmeadow Waste Transfer Station (1,400 t compared to 250 t). Please provide details of how representative Banksmeadow Waste Transfer Station is when used as a basis for the odour assessment of waste reception hall.	measured at the reference facility to add a layer of conservatism to the assessment. GHD considers the methodology adopted and use of the Banksmeadow Waste Transfer Station as a reference facility to be the best alternative as site specific data is not available.	
2. Please include future residences in Mundamia and Bamarang residential subdivisions as sensitive receivers in the AQIA. The adopted criteria for odour assessment should be updated to reflect the future increased population of the affected community.	GHD notes that the Mundamia subdivision is available at https://www.planningportal.nsw.gov.au/major-projects/project/13691 However, the 'Bamarang subdivision' does not appear to be available. Bioelketra has sought information on this subdivision from Council. Council has advised that the 'Bamarang residential subdivision' may be referring to the 'Cabbage Tree Lane Urban Release Area' to the south of the site (both sides of Yalwal Road to west of Cabbage Tree Lane – shown in pink below).	The Bamarang subdivision was identified in the Nowra Development Strategy. The Bamarang subdivision does not have development consent. DPIE acknowledge that without a DA there is no detail for the scale of the subdivision for inclusion as a sensitive receiver. DPIE recommended inclusion of discussion in the EIS that the Bamarang subdivision was considered as a potential sensitive receiver however scale and number dwellings etc is unknown.

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	 This area is zoned General Residential but does not have development consent. Can DPIE please confirm this is the same subdivision it has referred to as 'Bamarang residential subdivision'? The additional receptors will be added to the air quality assessment, odour criteria will be reviewed and confirmed and assessment results at this new receptors will be included in the maps and tabular results.	
3. Please provide cumulative odour and particulate concentration contours.	GHD will undertake modelling of the air quality emissions from the West Nowra Recycling and Waste facility to inform a cumulative assessment per EPA guidelines. The odour model created for the landfill (undertaken by SLR) will be integrated with the existing model prepared for the project. The air quality impact assessment will be updated to include the cumulative assessment.	DPIE consider current landfill operations and future expansion should be included in the odour contours. Ideally the project needs to be reviewed against the current and future context. DPIE acknowledged that inclusion of the cumulative odour contours is contingent on availability of previous SLR modelling data.
Soils and Water		

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1. Please update the architectural plan and the SWA to show the basin numbers.	Figure 1-1 of SWA will be updated with labelled basins (Basin 1, Basin 2 & Basin 3).	Noted
2. Section 2.2 of the SWA states an existing clean water drain exists along the western boundary of the site. Figure 4.2 (Site Features) in the EIS does not show there is an existing drain along the western site boundary. Please clarify the location of the existing clean water drain.	The location of drain will be added to Figure 1-2 of the SWA Report.	Noted
3. Please provide justification for directly discharging runoff from the western perimeter road and rooftop and a prediction of the discharged water quality to demonstrate its compliance with the ANZECC guideline.	Further justification will be added to Section 3.1.1 of the SWA. GHD notes that justification is also referenced in EIS Section 6.2.3.	Noted
4. Figure 4-3 of the SWA shows the entire building roof as one catchment. This is contradictory to Section 3.1.2 which states runoff from the western side of the roof will be discharged directly off-site and runoff from the eastern side of the roof will be drained to a wetland. Please clarify	Figure 4-3 will be adjusted to separate the roof into two catchments i.e. eastern and western roofed areas. Section 3.1.1 – states runoff from NW hardstand areas would be diverted to NW basin (Basin 1) and eastern sides would be diverted to the constructed wetland (Basin 3). Minor alteration of MUSIC modelling would be undertaken to recognise the updated catchment on the plan.	Noted

DPIE Review Comments (10 March 2021)	Response to DPIE (7 April 2021)	Notes from meeting
whether the building roof is divided into two catchments.		
5. Please provide additional information regarding the proposed wetland near the eastern site boundary, including what the wetland is comprised of, how the wetland will treat collected water, and how effective the wetland treatment will be (including a comparison of pre- and post-development water quality with key analytes such as TSP and total phosphorus).	Further details of wetland will be added to Section 3.	Noted
6. Please clarify when the three basins proposed under SSD-7015 will be built.	Section 3.1.2 describes how the three basins will be built during Stage 1 works. Additional detail will be added regarding timing of the Stage 1 works (see Item 1 under Existing Approvals above).	Refer comments on activation of the existing consent (item 1 existing approvals)
7. Please clarify when decommissioning of the existing dams will occur.	Section 3.1.1 states that in the operational phase the NW basin (Basin 1) would be converted into a permanent detention basin. The eastern basin (Basin 3) would be converted to a constructed wetland. The temporary basin in the SW boundary would be removed during construction.	Noted, refer item 6.
8. Please clarify what an autoclave jacket is, how the autoclave will condense vapour, how condensed vapour will be discharged from autoclaves to the wastewater treatment plant,	The walls of the autoclave will be heated by injection of steam. The autoclave jacket separates the waste from where the steam is injected. Steam is not directly injected into the waste and therefore does not come into contact with the waste. Steam from the internal part of the autoclave is discharged during decompression to the external post-process steam condensation system which has a two-speed condensing	Noted DPIE requested that an image of autoclave jacket to be included for reference.

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and how the wastewater treatment plant will work.	system with exchangers, fans and chillers. A modular biological-mechanical filter will be installed downstream of the condensing system at the exhaust air outlet. The condensate will be discharged through a pipeline directly to the wastewater treatment plant. Details of autoclave technology will be added to Section 3.	
9. Please clarify how leachate from waste received in the Waste Reception Hall will be collected and treated. Similarly, how will wastewater from washing down the reception hall area be collected and treated.	The floor of the reception hall would be graded to facilitate cleanout, drainage and collection of washdown water/leachate. Any washdown water/leachate from within the waste reception hall would be collected from sewage grates installed in front of the entry gate system and discharged into a buffer tank, from there it will be transported by pipeline to the WWTP and treated to a standard that enables it to be tankered from the site to the Council wastewater treatment plant. All leachate generating activities would take place within the buildings on sealed concrete slabs so there is minimal potential for contaminated water to enter the water table. Details of leachate management will be added to Section 5.1 of SWA and to the EIS.	Noted DPIE requested that the transfer of wash down water to the WWTP is included in the figure annotation of processing areas and material flows.
Traffic and Transport		
1. The Department notes that the traffic assessment approach has been agreed with Council. However, please clarify the validity of utilising 2008, 2009 and 2014 traffic survey data as baseline input in traffic modelling.	The approach was approved by the Council. A growth factor was applied for 2020 traffic. New traffic surveys were not undertaken as the difference between traffic generation during construction and operation in Stage 1 and Stage 2 were very low.	DPIE will to defer to Council for comment as the authority for local roads.
2. It is noted that the TfNSW Centre for Road Safety	Crash data updates will be added to the traffic assessment.	Noted

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updated the crash statistics in October 2020. Please update Section 2.8 of the TIA to reflect the most current information.		
3. The car park design should be updated to include the wider parking spaces to comply with AS 2890 and the addition of a turning space so that cars can always exit the car park in a forward direction as recommended in Section 4.3 of the report.	The carpark design will be updated to comply with AS 2890. A new plan showing the carpark design will be included in the traffic assessment and EIS.	Noted
4. Please clarify whether the assessment has considered the level of traffic generation by the recently approved expansion of the adjoining West Nowra landfill.	The approved landfill extension would extend the duration of current landfilling operations at the West Nowra Recycling and Waste Depot adjacent to the project site (and associated traffic on Flatrock Road). Baseline traffic included traffic associated with the ongoing landfill operations and a growth factor was applied for 2020 traffic. Additional traffic associated with the project was estimated on the basis of expected waste growth and that a portion of waste currently (and in future as part of the landfill extension) being sent to the landfill would be re-directed to the West Nowra RRP once it becomes operational. It also identified additional traffic associated with transport of outgoing products.	Noted
Noise and Vibration		
1. Please update peak hour vehicle movements in 2030 detailed in the NVIA to	The NVIA will be updated to be consistent with the TIA	Noted

DPIE Review Comments (10 March 2021)	Response to DPIE (7 April 2021)	Notes from meeting
ensure it is consistent with the TIA.		
2. The traffic noise impact assessment should not be based on traffic being evenly distributed throughout the day. Please revise the traffic noise impact assessment to consider the worst-case scenario during operational peaks.	The NVIA will be updated following confirmation of the worst-case scenario during operational peaks	Noted
3. Please consider future residences in Mundamia and Bamarang residential subdivisions as sensitive receivers in the NVIA.	GHD notes that the Mundamia subdivision is available at https://www.planningportal.nsw.gov.au/major-projects/project/13691 See Item 2 under Air Quality. These additional receptors will be added to the NVIA assessment, and assessment results at this new receptors will be included in the maps and tabular results.	Refer Item 2 under Air Quality
4. The NVIA does not include a cumulative impact assessment considering noise emissions from the development and West Nowra Landfill. Please include a cumulative noise impact which includes the landfill operation in its current form as well as the approved landfill expansion with associated noise emissions.	SEARs 9887 does not specifically require a cumulative noise impact assessment be undertaken. It is understood that the West Nowra Landfill Extension operates under a separate development consent being SSD 7187 (120 Flatrock Road) with separate noise limits set for the nearby residents.	Refer comments on item 3 under Air Quality DPIE recommend inclusion of this information if available. Alternative presentation of cumulative noise (such as tabular or colour coded at receivers) rather than noise contours would be sufficient. However, DPIE noted the addition of cumulative air quality contours is warranted and recommended.

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Fire and Incident Management, Hazard		
1. Please update the PHA to identify all the dangerous goods stored, including those potentially associated with the wastewater treatment plant.	All chemicals associated with operation of the WWTP and proposed to be stored on site would be listed, and Dangerous Goods identified. The risk screening would be updated accordingly.	Noted
2. The Department notes the site is in proximity to a High-Pressure Natural Gas pipeline to the east of the site. The EIS does not include consultation with the gas pipeline operator. Please consult with the operator and include the consultation outcome in the EIS.	An SMS for the pipeline will be invoked as a normal part of the development process, typically during detailed design. GHD notes that consultation is typically done at a later stage as part of this process. Consultation will be undertaken with the pipeline operator and results of consultation will be included in the PHA.	Noted, DPIE to forward proposed approach to their hazard specialist in the Major Hazard Unit.
3. Section 4.4 of the PHA has described the development as not being potentially offensive by "Applying SEPP 33". There is an inconsistency with EIS (paragraph 10, page 8 of the EIS). Please update the PHA to be consistent with the EIS.	Wording in EIS will be reviewed and updated for consistency with the PHA.	Noted
4. The Department notes the PHA only identified hazards associated with the LPG station, but does not identify hazards of chemicals	As per item 1	Noted

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potentially associated with the wastewater treatment system and contamination of the municipal solid wastes with hazardous material during shredding and sterilisation.		
5. Please detail and examine external hazards including but not limited to bushfires, vehicle impacts, lighting strikes, and fires in adjacent facilities.	Noted, external hazards and a qualitative discussion will be added.	Noted
6. The Department notes the release scenarios developed within the PHA in Appendix B have not considered the worst-case scenario. Please update the PHA to include scenarios for larger diameter failures including releases from unloading pipework, recovery manifold, pump suction and discharge, overfilling the tank and guillotine failure of the unloading hose.	This requires detailed engineering data/design for the LPG station which is not available at this stage. This would be undertaken as part of the final PHA, during detailed design.	GHD discussed applicability of a level 3 assessment at this stage prior to detailed design. A final PHA will be required for the project post determination. DPIE noted that some requirements can be fulfilled post determination. However it acknowledged that when a level 3 assessment is completed as part of an EIS, design changes may be required as a modification. Major Hazard Unit to follow up directly to discuss with Leonard Gawecki to agree on level of analysis required for the project. GHD provided Leonard's contact details to Bruce Zhang.
7. Please undertake analysis of the potential consequences of LPG pool fires in the consequence	This requires a L3 QRA and further modelling to compute injury risk levels. A L2 approach was adopted, in accordance with SEPP33 guidelines) due to the remote location, site conditions etc. The L2 assessment demonstrates that the	Refer item 6

DPIE Review Comments (10 March 2021)	Response to DPIE (7 April 2021)	Notes from meeting
analysis for hazardous events.	facility is appropriately located from a land use safety perspective. A L3 QRA requires detailed engineering data/design which is not available at this stage. This would be undertaken as part of the final PHA during detailed design.	
8. Please undertake gas dispersion modelling for the night-time condition F2 under all release scenarios.	Noted Night-time F2 results will be included	Noted
9. Please assess propagation risks from BLEVE, VCE and flashfire events (i.e. overpressure to 14 kPa and heat radiation to 23 kW/m ² as described in HIPAP 4) and provide contours to demonstrate that criteria for explosive overpressure and indecent heat flux radiation listed in HIPAP 4 are met.	This requires a L3 QRA and further modelling to compute injury risk levels. A L2 approach was adopted, in accordance with SEPP33 guidelines) due to the remote location, site conditions etc. The L2 assessment demonstrates that the facility is appropriately located from a land use safety perspective. A L3 QRA requires detailed engineering data/design which is not available at this stage. This would be undertaken as part of the final PHA during detailed design.	Refer item 6
10. Please verify the information presented in Appendix B, Figure 8-2 is consistent with the information presented in Appendix B Table 8-5.	Noted. Overpressure results will be used, and table and figures will be made consistent.	Noted
11. The Department notes the gas modelling results presented in Appendix B Table 8-9 of the PHA. This table lists the results of a gas dispersion modelling for a pump casing failure and concludes UFL and LFL as "not reached". The	Noted. Distances to UFL, LFL will be checked and updated where necessary.	Noted

DPIE Review Comments (10 March 2021)	Response to DPIE (7 April 2021)	Notes from meeting
Department considers the conclusion is unreasonable as both the UFL and LFL would occur before an LFL fraction. Please clarify how the conclusion is reached.		
12. Please verify the accuracy of distances from the site to surrounding residences listed in Table 9.1 of the EIS.	The distances listed in Table 9.1 (and also replicated in the Air Quality Impact Assessment) will be updated. These were previously based on the entire facility presented in the Concept Proposal and not just the portion of the site proposed to be used per the Stage 2 layout.	Distances were taken from concept proposal and have now been checked and updated. Noted
Other Issues		
1. Please clarify the location of the ventilation and boiler stacks identified in Section 17.1.3 of the EIS.	The boiler stack will be located above the boiler room and ventilation stacks will be located on fan discharges and primarily located over the waste reception hall and processing hall. The exact location of ventilation and boiler stacks would be confirmed during detailed design.	Noted
2. Please correct the reference to Table 17.3 to 17.5 in Section 17.2.4 of the EIS.	Noted. In text referencing in Section 17.2.4 will be amended.	Noted
3. Please clarify on the plans how the first-floor viewing gallery will be accessed.	Additional clarification will be added regarding how the viewing gallery will be accessed.	Noted



Bioelektra
AUSTRALIA

21 October 2020

Dear Sir/Madam

West Nowra Resource Recovery Park - Stage 2 Resident Notification Letter

Project Background

In 2016, Shoalhaven City Council commenced planning activities to develop an integrated resource recovery park (RRP) adjacent to its current landfill area at Flatrock Road, West Nowra. The objective of this proposed new facility is to control waste management costs and increase the life of the landfill at Flatrock Road by reducing waste to landfill (which attracts a NSW Government Waste Levy).

The proposed new facility, if approved, will position the local government area, as innovative leaders in the recovery of recyclable materials by re-using and processing waste types that would normally end up in landfill.

In August 2016 Council received project approval for Stage 1 of the works. Stage 1 of the works included land preparation such as vegetation clearing and provision of basic infrastructure on the site. In 2018, Council awarded Bioelektra Australia Pty Ltd (Bioelektra) the contract for Stage 2 works, which includes construction and operation of the integrated resource recovery park at the site.

For more information on these activities, please visit Council's website at <https://getinvolved.shoalhaven.nsw.gov.au/rrf>.

Environmental Impact Statement (EIS)

GHD, are currently preparing an Environmental Impact Statement (EIS) on behalf of Bioelektra to support a development application for Stage 2, including an assessment of the potential environmental impacts of the facility and community consultation regarding project developments.

The key purpose of the EIS is to assess the economic, environmental and social impacts of a project, and to help the community and government agencies make informed comments and decisions on the project. It will also assess the cumulative impacts of the project.

The EIS and its supporting environmental studies will assess the potential and likely impacts of the project and propose suitable measures to minimise impacts. It will also identify opportunities to enhance the environment, where possible.

Community Consultation

We have identified your property as being in proximity to the proposed new facility. As part of our EIS engagement activities, we would like to meet with you to discuss the works proposed as part of Stage 2 of the project, and understand how this may impact your property, if at all, and any concerns you may have.

We propose this meeting take place in person, or via teleconference, depending on your preference. We will ensure social distancing measures are put in place, should the meeting be in face to face.

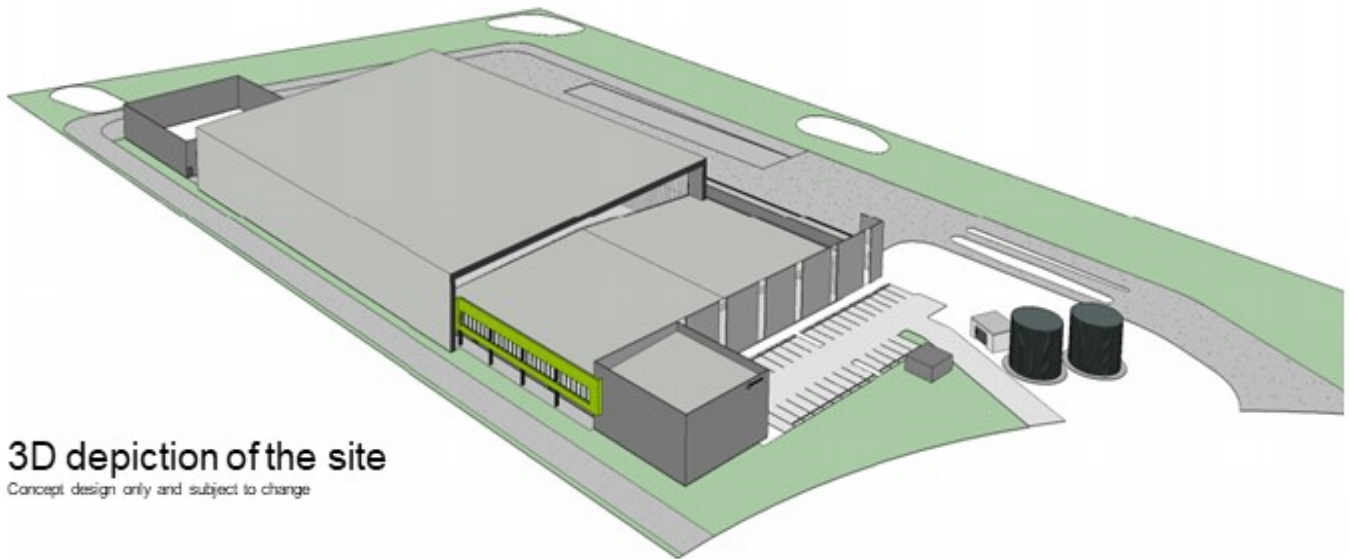
To arrange a meeting, please contact Community and Stakeholder Engagement Advisor, Carla Pignatelli on 1800 810 680 or community.input@ghd.com.

Sincerely
GHD

Carla Pignatelli
Engagement Advisor



Bioelektra
AUSTRALIA



3D depiction of the site

Concept design only and subject to change

Project Update – West Nowra Resource Recovery Park

Invitation to attend community information session

Project Background

In 2016, Shoalhaven City Council commenced planning activities to develop a resource recovery park adjacent to its current landfill facility at Flatrock Road, West Nowra.

In August 2016 Council received project approval for Stage 1 of the works. Stage 1 primarily included land preparation such as vegetation clearing and provision of basic infrastructure on the site. In 2018, Council awarded Bioelektra Australia Pty Ltd (Bioelektra) the contract for Stage 2 works, which includes construction and operation of the integrated resource recovery park at the site, which will treat and recover waste from landfill.

GHD, are currently developing an Environmental Impact Statement (EIS) on behalf of Bioelektra to support the development application for Stage 2, which includes an assessment of the potential environmental impacts of the facility and community consultation regarding project developments.

Project benefits

The objective of the resource recovery park is to control waste management costs and increase the life of the landfill at Flatrock Road by reducing waste to landfill (which attracts a NSW Government Waste Levy). The proposed resource recovery park will position Council as a leader in the recovery of recyclable materials from the waste stream by re-using and processing waste types that would normally end up in landfill.

Once completed, the operation of a resource recovery facility will include pre-treatment for mixed municipal waste

of up to 130,000 tonnes per year and recover a variety of valuable resources from the waste.

Community consultation

Due to COVID-19 restrictions, we have had to rethink the way in which we engage with community and stakeholders about this project. You're invited to register to attend a community information session to discuss the project and answer any questions you may have.

Details for the session is below. To register, please visit the following website through our QR code, via Council's webpage or contact our project team.

Date: Wednesday 25 November 2020

Location: Nowra Showground Committee Room
20 West Street, Nowra 2541

Time: between 4 pm – 6 pm (30-minute timeslots)

All feedback from community and stakeholders will be collated and recorded as part of the Stage 2 EIS, which will be submitted to the Department of Planning, Industry and Environment in early 2021.

To discuss the project over the phone, or for more information please contact us using the details below:

T 1800 810 680

E community.input@ghd.com

W: <http://bioelektra.com.au/>

(last updated: 10-Nov-20)



Bioelektra information session registration

Thank you for your interest in Bioelektra's Resource Recovery Facility in West Nowra.

If you would like to attend our project information session, please provide your details and a nominated time that we can expect you. This information will help us manage the safety of our staff and attendees at the session and help reduce the risk of COVID-19.

* Required

1. Name of attendees *

2. Phone number of primary attendee *

3. Email address of primary attendee *

4. Preferred attendance time (note you may be contacted by a team member to confirm or change your time, depending on number of registrations for each timeslot) *

☐ Wednesday 25 November 4 - 4.30 pm

☐ Wednesday 25 November 4.30 - 5 pm

☐ Wednesday 25 November 5 - 5.30 pm

☐ Wednesday 25 November 5.30 - 6 pm

☐

Other

5. If you have any, please list any questions about the project you would like to discuss with the project team?

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 Microsoft Forms

Meeting minutes with FRNSW

Date Meeting Held: 18 May 2021

Location: Teleconference (Microsoft Teams)

Attendance:

FRNSW – Nathan Everett, John Hawes, Troy Ingle

GHD - Colin Thomson, Mark Tsai, Anna Montgomery

Bioelektra – Fred Itaoui and Bass Adasi

Person	Comments
Colin	General introductions
Fred & Bass	Introduced the West Nowra facility and process
Colin	Provided a walk through of the FRNSW Guidelines as they have been applied thus far to this site as per Fire and Incident Management Review document A couple main points: - Perimeter access provided around building, hardstand capable of supporting trucks - Major fire safety systems (detection/hydrant flow/sprinklers), shall comply with requirements as per FRNSW guidelines - Internal stockpiles in waste reception hall to comply with FRNSW Guideline limitations for size/volume/heights/separation. - Sorted stockpiles in hook-lift bins, on external side of sortation hall, treated as 'internal' and would be sprinkler protected. Aggregate area set aside for these sorted piles may exceed 1,000 m³ (~1,390 m³), however each sorted area is separated from each other by 4 m high walls, and most are into hook-lift bins, not loose stockpiles (i.e. true aggregate volume is likely much smaller in each area). - External stockpile approximately 87.5 m x 11.5 m (~1,000 m²). Longer than the 50 m from guidelines, but aggregate area (~1,000 m²) consistent with guidelines and again is primarily hook-lift bins. - Automatic smoke exhaust provided to waste reception hall only (4 m height maintained for >2 hr for smoke layer), smoke clearance system to non-stockpiled halls (will be subject to performance solution). - Hydrant coverage to be provided to all internal and external stockpiles (presence of internal hydrants may be required, depending on layouts, so TBD, but design will start with external hydrants). - The building will be subject to the FEBQ / FER process as the design progresses, therefore later FRNSW consultation will occur. Continued assessment against the FRNSW guidelines will be documented in those reports as well to enable continued feedback once more detailed design is known.
Nathan	- Consideration should be given as to fire separation of the halls for asset protection - Consideration should be given as to how the awning covered area that has waste will be fire separated from the hall - Consideration should be given around redundancy to the pump-sets for asset protection - Recommendation that upon fire trip at the facility (sprinklers/detectors), conveyors are halted to prevent fire spread via conveyor system - Emergency response plans should consider the presence of smaller fuel sources such as mobile phone batteries, and consider implementation of thermal monitoring, or other means, to watch for early, small fire scenarios, and how to respond to such a scenario.

John	- Consideration regarding the fire separation between the halls – what about the penetrations i.e. conveyor? - Consideration as to how to address potential false alarming (<i>CT – Aspirating detection system likely to be required, given dusty environment</i>) - Will the site have provision for large bore suction? - Are there any hydrants on flatrock road, or reticulated water for infill to the tanks? - Site is in a rural area, and note that RFS, if first responders, need 65mm for their suction. Consideration should be given as to how to appropriately cater for suction needs of attending brigade.
Colin	Comments noted above from Nathan and John to be discussed by design team and look how to integrate and address them as the design progresses <i>CT – These comments will also be put into an Appendix of the Guideline Review document, as well as any further FRNSW response to this email.</i>

From: Renee McCall <Renee.McCall@jemena.com.au>
Sent: Wednesday, 2 June 2021 3:09 PM
To: Leonard Gawecki
Cc: Anna Montgomery; David Gamble; Emily Killoran; Gavin Sherriff
Subject: RE: Request by DPIE for formal consultation with Jemena Gas Networks - Bioelektra Development Proposal SSD 9887

Hi Len,

At this stage, based on the current proposed design and the provided detail, a formal Safety Management Study (SMS) risk assessment workshop will not be required and a desktop risk assessment will be undertaken by our engineers. Once detailed design has been provided, Jemena will provide confirmation on this and may determine that an SMS is required.

Kind regards

Renee McCall

Lands Manager

Jemena

0419 719 448

renee.mccall@jemena.com.au | www.jemena.com.au

www.gonaturalgas.com.au



From: Renee McCall <Renee.McCall@jemena.com.au>

Sent: Wednesday, 2 June 2021 2:56 PM

To: Leonard Gawecki <Leonard.Gawecki@ghd.com>

Cc: Anna Montgomery <Anna.Montgomery@ghd.com>; David Gamble <David.Gamble@ghd.com>; Emily Killoran <Emily.Killoran@ghd.com>; Gavin Sherriff <Gavin.Sherriff@jemena.com.au>

Subject: RE: Request by DPIE for formal consultation with Jemena Gas Networks - Bioelektra Development Proposal SSD 9887

Good afternoon Len,

Jemena have now had opportunity to review the provided detail on the Bioelektra Development Proposal.

We have identified that this proposal falls within the measurement length for the Eastern Gas Pipeline. This asset is a buried, high pressure gas pipeline and forms a critical part of the gas transmission and distribution network in Australia. As you've identified, the development is some 130+ metres from our pipeline, however as it falls within the measurement length, the impact and interaction with our asset must be assessed. Jemena provide the following response to your email:

- Bioelektra must engage with Jemena throughout design and construction, ensuring no additional protection or control measures are required by Jemena;
- Any change to the site footprint or scope must be submitted for review by Jemena;
- All work to be in accordance with Jemena's Design and Construction Guidelines (GAS-960-GL-PL-001);
- Any HDD or blasting within the development site is advised to Jemena and risk assessed (as required).

Please do not hesitate to contact me if you'd like to discuss. I'm happy to provide a letter of response, however would appreciate if you're able to provide a set of drawings/plans to reference.

Kind regards

Renee McCall

Lands Manager

Jemena

0419 719 448

renee.mccall@jemena.com.au | www.jemena.com.au

www.gonaturalgas.com.au

