



Sustainability Advisory Committee

Tuesday 31 October 2023

6.00pm

Council Chambers

209 Comur Street, Yass

ATTACHMENTS TO REPORTS

Sustainability Advisory Committee

Attachments to Reports

Page No.

4.1	2022/23 Annual Report	
	Attachment A. 2022/23 Annual Report.....	3
4.4	Climate Change Surveys	
	Attachment A. EPA Licence 1730 - Yass Sewage Treatment Plant.....	6
	Attachment B. EPA Licence 5895 - Murrumbateman Landfill.....	33
	Attachment C. 2023 Climate Change Survey.....	63
4.5	Community Engagement in the Design of FOGO Service - Current Status and Issues	
	Attachment A. Consultation for FOGO	101
	Attachment B. What is FOGO	104
	Attachment C. Community Organisations.....	106



Sustainability Advisory Committee

Annual Report 2022/23

Terms of Reference

- To embed financial, environmental, social and cultural sustainability into Council's operations through the continuous review of policies, projects and services offered by Council
- To take advice from all sectors of the community, and to research and propose new and innovative ways of bringing sustainability into all of Council's policies and operations
- To make recommendations to Council on best-practice sustainability, consistent with the Community Strategic Plan

Members

Member	Appointed	Resigned
Cr A Cameron	26 May 2022	
J Connelly	26 May 2022	
P Davidson	26 May 2022	
A Wardle	26 May 2022	
A Elvin	26 May 2022	
N Elliott	26 May 2022	
L McAlary	26 May 2022	
C Nelson	26 May 2022	
S Ecker	26 May 2022	
A Tewes	26 May 2022	

Meetings Attended

Member	16 Jun 2022	19 Jul 2022	27 Sept 2022*	7 Nov 2022	31 Jan 2023	4 Apr 2023	20 Ap 2023	30 May 2023
Cr A Cameron	✓	✓	✓	✓	✓	✓	✓	✓
John Connelly	✓	✓	✓	✓	x	x	x	x
Peter Davidson	✓	✓	✓	✓	✓	✓	✓	x
Ana Wardle	✓	✓	✓	✓	✓	✓	x	✓
Alison Elvin	✓	✓	✓	x	✓	✓	✓	x
Nicole Elliott	✓	✓	✓	✓	x	✓	✓	x
Luke McAlary	✓	✓	✓	✓	✓	✓	✓	✓
Caitlin Nelson	✓	✓	✓	✓	✓	✓	✓	✓
Saan Ecker	✓	✓	✓	x	✓	✓	x	✓
Alex Tewes	✓	✓	x	x	✓	✓	✓	x

* Extraordinary meeting

Committee Project Status

Project/Project Officer	Key Stages	Due Date	Status
Sustainability Framework and Sustainability Policy	<ul style="list-style-type: none"> Draft framework Review Revised version Councillor Workshop Revised policy endorsed with priorities 	<ul style="list-style-type: none"> Jul 2022 Nov 2022 Jan 2023 Feb 2023 Apr/May 2023 	<ul style="list-style-type: none"> Completed
Electric Vehicles Update	<ul style="list-style-type: none"> Update Involvement in CRJO Project 	<ul style="list-style-type: none"> Sept 2022 Apr 2023 	<ul style="list-style-type: none"> Continue to monitor Endorsed
Consultation with other Committees	<ul style="list-style-type: none"> Chair to present work by Sustainability Committee and opportunities for collaboration 	<ul style="list-style-type: none"> May 2023 	<ul style="list-style-type: none"> Completed
Community Lead Climate Change Action Plan	<ul style="list-style-type: none"> Project brief to be developed 	<ul style="list-style-type: none"> TBD 	<ul style="list-style-type: none"> Not yet commenced
SE&T Regional Transport Plan	<ul style="list-style-type: none"> Comments provided for Council submission 	<ul style="list-style-type: none"> Jan 2023 	<ul style="list-style-type: none"> Completed
Current and Future Policy and Strategic Plan Reviews	<ul style="list-style-type: none"> Program report Committee's priorities 	<ul style="list-style-type: none"> Sept 2023 	<ul style="list-style-type: none"> Report drafted for Sept 2023 meeting

Project/Project Officer (cont)	Key Stages (cont)	Due Date (cont)	Status (cont)
Regional Waste & Sustainable Materials Strategy 2022-27 and Action Plan	<ul style="list-style-type: none"> Comments provided 	<ul style="list-style-type: none"> Apr 2023 	<ul style="list-style-type: none"> Completed
Environmental Upgrade Financing	<ul style="list-style-type: none"> Referred to Economic Development Committee Feasibility 	<ul style="list-style-type: none"> Apr 2023 Apr 2023 	<ul style="list-style-type: none"> Completed ✓ Not yet finalised
IP&R Documents	<ul style="list-style-type: none"> Provide comments supporting: <ul style="list-style-type: none"> Waste Review Appointment of Manager 	<ul style="list-style-type: none"> May 2023 	<ul style="list-style-type: none"> Completed



Thank you very much for completing the survey. Your responses have been recorded.

Important: if you want to keep a copy of your responses, download the pdf of your responses by clicking the link below. Once you have closed the survey link, you will not be able to obtain your responses.

Below is a summary of your responses

[Download PDF](#)

Welcome

As we implement the actions outlined in our [Climate Change Policy and Action Plan](#), we are keen to better understand the work you may already be doing to manage your facility's greenhouse gas emissions and climate risks.

Our survey is your opportunity to let us know how you are contributing to the NSW Government's climate change objectives to mitigate emissions and reduce climate risks. We also want to know how we can support you to build your capacity to take meaningful action on climate change.

This survey should take about 1 to 2 hours to complete. If your organisation has multiple facilities, and you have already completed the survey for one of your facilities, it should take substantially less time to complete.

More information about the survey is on our [survey information webpage](#).

Thankyou in advance for participating

Important Information

When must the survey be completed?

Your response to the survey is due by **5pm on Friday 15 September, 2023.**

Do I need to do the survey all at one time?

No. You may close the survey and continue at any time during the submission period. All you do is close the link and resume the survey by re-opening the link.

Is this survey mandatory?

Yes. Completing this survey is mandatory. Our licensees have different support needs. We cannot simply rely on a sample of licensee responses. The results of this survey will help us to ensure future actions we take are meaningful, feasible and cost-effective for our licensees.

If you do not complete the survey by the due date, we will be following up by various means. This could include issuing a notice to provide information and records, under Section 191 of the *Protection of the Environment Operations Act 1997* (the POEO Act).

Who should fill out the survey? What level of sign-off is required?

To ensure we receive accurate information from your organisation, it is important that the survey is filled out and signed off by the right people. The person(s) filling out the survey should be someone with a good understanding of how the facility is managing its climate risks and greenhouse gas emissions.

Before the survey is submitted to the EPA, it needs to be signed (within the survey platform). The person who signs-off on the survey needs to be the Director or proprietor of your organisation, **or** someone who has been given permission to sign off on the survey on behalf of the Director or proprietor. We will assume that any such permission has been obtained by a person signing on behalf of your organisation.

Can I get a copy of my survey responses?

have done this. Once you have closed the survey link you will not be able to retrieve your responses.

Will this survey be used for compliance purposes?

This survey is **not** being issued for compliance purposes. We ask that you please be as candid and detailed as you can. Please be aware, however, that it is an offence under section 167A of the POEO Act to provide information to the EPA that is false or misleading.

How can I get help?

- Read the Frequently Asked Questions (FAQs) on our [survey information webpage](#).
- Email climatechange.review@epa.nsw.gov.au for support. We will aim to respond within 1 to 2 business days.
- Call the survey helpline on 0460 767 475 or 0458 875 664, which will be open from 11am-1pm and 2pm-4pm Monday to Friday (except public holidays). If these times do not suit you, please email us to make an appointment.

More Frequently Asked Questions, including how we share, store and publish the data we collect, is available on our [survey information webpage](#).

PART 1: Submitter Details

Q1.1 Your name

Kuga Kugaprasatham

Q1.2 Your position

To ensure accurate information is provided to the EPA, the person(s) filling out the survey should be someone

Manager Water and Wastewater

Q1.3 Facility name (your "premises" name, as it appears on your licence)

YASS SEWAGE TREATMENT PLANT

Q1.4 Facility address (your "premises" address, as it appears on your licence)

FAULDER AVE YASS NSW2582

Q1.5 Enter your Australian Business Number and/or your Australian Company Number

☒ **Australian Business Number**

50 119 744 650

☐ **Australian Company Number**

Q1.6 Email address

council@yass.nw.gov.au

Q1.7 Phone number (numbers only - no spaces, dashes or plus sign)

0262261477

PART 2: Operating Details. It is important that you complete this part before proceeding to subsequent parts in the survey.

Q2.1 What is your Environment Protection Licence (EPL) Number?

Q2.2 Enter your annual production or activity level that is most representative of your facility in the last three years (i.e. the amount of activity over a given 12 month period).

An example of production level could be the amount of ROM coal if you are a coal mine, or kg liveweight produced if you are a piggery. An example of an activity level could be tonnes of waste disposed to land if you are a landfill or the amount of chemicals stored if you are a fuel terminal. These examples are to give you an indication about what we mean by production or activity level, and will depend on the primary activity listed in your licence. Units will depend on the fee based activity in your license.

Why are we asking? This will assist us in calculating emissions intensities for your sector.

Enter the annual production or activity level (a number). Enter "rather not say" if you don't want to give this information.

762

ML

☐ Kg

Q2.5 You have stated that your production amount/level of activity is in terms of a weight or volume. Specify what weight or volume you are reporting (e.g. ROM coal, raw steel, dairy product, waste landfilled).

Treated sewage effluent discharge to environment

Q2.6 Enter the reporting year for the annual production/activity level provided in Q2.2. The reporting year is the period over which you report, i.e. it does not need to be a calendar year or a financial year, as long as the period spans a year. For NGERS facilities please list for your NGERS reporting year.

☐ Calendar year 2020

☐ FY 2021-2022

☐ Calendar year 2021

☐ FY 2022–
2023

☐ Calendar year 2022

☒ Other (please specify: day/month/year –
day/month/year – must be a year)

01/05/2022 – 30/04/2023

☐ FY 2020–2021

☐ Rather not say

Q2.7 Are you part of an organisation that has other facilities licensed by the NSW EPA?

An organisation is a company, local council, state owned corporation or public authority. We are asking this so you may be able to skip some organisational questions that may have been answered in a previous survey

☒ Yes, (specify name of
organisation)

Yass Valley Council

☐ No

Q2.8 Is this the first time your organisation has completed the survey for any of its facilities?

If your organisation has filled in the survey for another of its facilities, and some aspects of climate related matters are managed by your organisation, the survey will skip some of these organisational questions. (We recommend your first survey is completed for a facility that has the most areas of climate change managed by your organisation). Many organisational level questions can then be skipped for subsequent surveys.

☒ Yes

☐ No (specify the EPL number of the facility that has completed the first survey)

☐ Don't know

who we could potentially partner with to support licensees to manage greenhouse gas emissions and climate risks

<input type="checkbox"/> Agribusiness Australia	<input type="checkbox"/> Bioenergy Australia	<input type="checkbox"/> Minerals Council
<input type="checkbox"/> Australian Glass and Glazing Association	<input type="checkbox"/> Business Council of Australia	<input type="checkbox"/> Meat and Livestock Australia
<input type="checkbox"/> Australian Industry Greenhouse Network	<input type="checkbox"/> Cement Concrete and Aggregates Australia	<input type="checkbox"/> NSW Farmers
<input type="checkbox"/> Australian Landfill Owners Association	<input type="checkbox"/> Cement Industry Federation	<input type="checkbox"/> Waste Management Association Australia
<input type="checkbox"/> Australian Lot Feeders Association	<input type="checkbox"/> Dairy Australia	<input type="checkbox"/> Water Services Association of Australia
<input type="checkbox"/> Australian Pipelines	<input type="checkbox"/> Institute of Quarrying Australia	<input checked="" type="checkbox"/> The Water Directorate
<input type="checkbox"/> Australia Pork Limited	<input type="checkbox"/> Gas Energy Australia	<input type="checkbox"/> Other (please specify) <div style="border: 1px solid #ccc; height: 15px; width: 250px; margin-top: 5px;"></div>
<input type="checkbox"/> Australian Sustainable Business Group	<input checked="" type="checkbox"/> Local Government NSW	<input type="checkbox"/> No
<input type="checkbox"/> Australian Water Association	<input type="checkbox"/> Manufacturing Australia	<input type="checkbox"/> Rather not say

Q2.11 Do you currently receive guidance or support from your industry association to assist you to manage the risks caused by climate change and/or your greenhouse gas emissions at your facility?

Why we are asking: This assists us in understanding what support is available for your sector, and how we can potentially partner with industry associations to support licensees to manage emissions and climate risks

- ☐ Yes
☒ No

Q2.13 Do you receive support from any other non-government organisation to support you to manage your climate risks and/or greenhouse gas emissions?

Why we are asking: This assists us in understanding what support is available for your sector

- ☐ Yes (please specify)

- ☒ No
☐ Rather not say

Q2.14 Before receiving this survey, were you aware of the EPA's [Climate Change Policy and Action Plan 2023-26](#) that was released in January this year?

Why we are asking: This is to assist us in understanding how aware our licensees are of the EPA's climate change policy and action plan – and to make you aware (if you were not already)

- ☐ Yes
☒ No

Q2.17 Do you or your organisation have a dedicated person(s) responsible for management of your greenhouse gas emissions and risks to your operations and facility caused by a changing climate?

Why we are asking: To understand how progressed your sector is in managing the causes and consequences of climate change

☐ Yes, we have a corporate climate and sustainability team

☐ Not yet, but we will

☐ Yes, we have a dedicated climate change person(s)

☐ No, the facility is too small, so not necessary

☐ Yes, Managing Director

☐ No, the facility doesn't have any greenhouse gas emissions and negligible risks due to climate change, so this is not necessary

☐ Yes, the organisation does it

☒ **No, other reason (please specify)**

Sewage treatment operations.

Q2.18 Do you have any other existing internal or external drivers that are influencing your approach to climate change?

This is being asked to understand your other obligations

☐ Yes, it is a strategic priority for the organisation

☒ **Other (please specify)**

climate change impacts yield of water supply source.

☐ Yes, the organisation has requirements in other jurisdictions (please describe)

☐ Yes, it is a condition of our consent

☐ Rather not say

PART 3: Climate Hazards

Questions in this part rely on some of your responses in Part 2. It is important that you do not start this part until you have completed Part 2.

Q3.1 In the past 5 years, has your facility been directly or indirectly affected by climate hazards?

Note: A climate hazard is defined as a physical event (hydro-meteorological or oceanographic) that can harm human health, livelihoods, or natural resources.

Why we are asking: This question assists us in understanding the hazards your sector and location may face

- ☒ Yes
☐ No
☐ Don't know

Q3.2 Please specify and rate the severity of the climate hazard(s)

Why we are asking: This assists us in understanding what hazards your sector and location may face

	Severe, causing major disruption to operations at the facility	Moderate, causing a medium level of disruption	Minor, causing negligible disruption	We haven't experienced this hazard	Rather not say
Bushfire	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
Flood	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Drought	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Rising sea level	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
Severe storms	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

heat	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
Sustained rainfall	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Q3.3 Is there another climate hazard(s) not specified in Q3.2?

☒ **Yes (please specify). If there are more than one, separate by a semicolon**

decreasing yield of water sources

☐ No

Q3.4 Specify the severity of this other climate hazard(s) (If more than one hazard is specified, select all that apply)

- ☐ Severe, causing major disruptions
- ☐ Moderate, causing a medium level of disruption
- ☒ **Minor, causing negligible level of disruption**

Q3.5 What environmental management challenges have you experienced at your facility as a result of these climate hazards?

Why we are asking: This assists us in understanding the management challenges your sector and location may face

	Major challenge	Moderate challenge	Minor challenge	No challenge	Not sure	Rather not say
Chemical or fuel containment	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Wastewater generation and/or containment	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Ensuring continuous refrigeration and cooling	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>

	bushfire or flood)	challenge	challenge	challenge	challenge	Not sure	say
Waste containment	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Ensuring a continuous energy supply	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Air emissions, e.g. dust	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Odour emissions	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Water availability	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Ensuring continuous environmental monitoring where required	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Landslips/slope stability	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Q3.6 Is there another management challenge(s) not listed in Q3.5?

☐ Yes (please specify). Where there are more than one, separate by a semicolon

☒ No

Q3.8 What actions have you taken to consider how climate hazards may change in the future? Select all that apply

Why we are asking: This assists us in understanding how progressed your sector is in managing climate risks

☐ Attended climate information sessions or workshops

☐ We have begun to embed this in our planning processes

☐ Not sure

organisation has done this

☒ Engaged a consultant/expert to help us understand future climate hazards

☐ No action

☐ Rather not say

☐ We have discussed internally but have not decided or don't know how to identify future climate hazards

PART 4: Management of Climate Risk

You will now be asked about how you manage your climate risks. If you are part of an organisation that has multiple facilities in NSW, and this is not the first survey you have submitted (EPL of first survey submitted was provided in Q2.8), you may be able to skip organisational level questions and only be asked facility level questions. **It is important that you do not start this part, until you have completed Part 2.**

Q4.4 Do you or your organisation have an over-arching risk management framework or process, that includes identification and management of environmental risks?

Why are we asking? This assists us in understanding how progressed your sector is in managing its environmental risks

- ☒ Yes
☐ No
☐ Don't know

Q4.5 Does your framework or process include a climate change risk

environmental risks

- ☐ Yes
- ☒ No
- ☐ Don't know

Q4.21 Have you or your organisation undertaken or updated a climate change risk assessment in the last 3 years?

Why are we asking? This assists us in understanding how progressed your sector is in managing its climate risks

- ☒ Yes
- ☐ No

Q4.22 Did the climate change risk assessment identify a need to manage risk to the surrounding environment if climate hazards were to impact your facility?

Why are we asking? This assists us in understanding how progressed your sector is in managing climate risks

- ☐ Yes
- ☒ No
- ☐ Don't know

Q4.23 How often is your climate change risk assessment reviewed?

Why are we asking? This assists us in understanding how progressed your sector is in managing climate risks

- ☐ Yearly or more frequently than once per year

☒ Other (please specify)

Commenced in 2021.

- ☐ Every two years

☐ Don't know

- ☐ When there's a significant change

Q4.24 What support or guidance did you use to undertake your climate change risk assessment? Select all that apply.

Note support or guidance to identify and evaluate climate risks is also available in the resources section of this survey

Why are we asking? This assists us in understanding what support you found useful for your sector to undertake a climate change risk assessment

<input type="checkbox"/> Our risk management framework	<input type="checkbox"/> ISO/TS 14090 , 14091 , 14092	<input type="checkbox"/> External expert –please specify type (e.g. academic, industry organisation expert) <input type="text"/>
<input type="checkbox"/> Adapt NSW Climate Risk Ready Guide	<input type="checkbox"/> AS 5334: 2013	<input type="checkbox"/> Other (please specify) <input type="text"/>
<input type="checkbox"/> Adapt NSW's Climate Change in my Region	<input type="checkbox"/> Internal Expert	<input type="checkbox"/> None
<input type="checkbox"/> Guide to Climate Change Risk Assessment for NSW Local Government	<input checked="" type="checkbox"/> External Expert – consultant	<input type="checkbox"/> Rather not say
<input type="checkbox"/> ISO 31000		

Why are we asking? This assists us in understanding the how progressed your sector is in managing its climate risks

☐ Yes, [NARClIm 1.0](#) near future

☐ Other (please specify)

☐ Yes, [NARClIm 1.0](#) Far future

☐ No, not really sure what you mean

☐ Yes, [NARClIm 1.5](#) (RCP 4.5)

☒ **Not sure**

☐ Yes, [NARClIm 1.5](#) (RCP 8.5)

☐ No

Q4.26 Is the climate change risk assessment publicly available (e.g. in your company's annual report or publicly available corporate risk assessment)?

Why are we asking? Providing this can reduce duplicate reporting

☐ Yes (provide link)

☐ Yes, can upload

☒ **No**

Q4.56 Please provide any additional information that is relevant to describe how climate risks are managed (Optional)

PART 5: Assessment of Greenhouse Gas Emissions

You will now be asked how you assess your greenhouse gas emissions. If you are part of an organisation that has multiple licensed facilities in NSW, and this is not the first survey you have submitted (EPL of first survey submitted was provided in Q2.8), you may be able to skip organisational level questions and only be asked facility level questions. Questions in this

Q5.11 Have you or your organisation undertaken any actions to assess greenhouse gas emissions at your facility?

Greenhouse gas emissions are carbon dioxide, methane, nitrous oxide, ozone and some synthetic gases.

Why are we asking? This assists us in understanding how progressed your sector is to assess greenhouse gas emissions. Also, if you haven't done anything to assess greenhouse gas emissions you may be able to skip some questions.

- ☒ Yes
☐ No
☐ Don't know

Q5.12 Are Scope 1 and Scope 2 emissions at your facility reported to the Clean Energy Regulator as a requirement of the National Greenhouse and Energy Reporting Scheme (NGERS)? Scope 1 and Scope 2 emissions are defined in the glossary

Why are we asking? This assists us in understanding your reporting requirements, so we don't duplicate

- ☐ Yes (Provide facility name reported to NGERS)

- ☐ Yes, emissions are reported as an aggregate (provide name of controlling corporation)

- ☒ No

Q5.15 In the past three years, have you or your organisation reported annual quantified emissions to the [Carbon Disclosure Project](#) (CDP)?

Why we are asking? This will help avoid duplicate reporting

- ☐ Yes
☒ No

Q5.17 Is your facility captured under your organisation's internal greenhouse gas (Scope 1 and/or Scope 2) emissions reporting

how progressed your sector is in assessing greenhouse gas emissions.

- ☐ Yes
- ☐ No
- ☒ **No, we are not part of a larger organisation**

Q5.21 Have you quantified your annual greenhouse gas emissions from operations at the facility any time over the last 3 years?

Why are we asking? This assists us in understanding reporting requirements of non-NGERS facilities as well as how progressed your sector is in assessing greenhouse gas emissions.

- ☒ **Yes**
- ☐ No

Q5.22 Are the quantified emissions publicly available, e.g. in a company report?

Why are we asking? This assists us to assess transparency of reporting. We also ask this so that some questions in this survey can be skipped, thus minimising duplicative reporting

- ☐ Yes (provide link below)

- ☐ Yes, we can upload
- ☒ **No**

Q5.24 Provide a range of your facility's total Scope 1 and total Scope 2 emissions (in tonnes of CO₂-e per year)

Why are we asking? This assists us in understanding the broad magnitude of emissions for your sector

	0-5,000	5,000-10,000	10,000-15,000	15,000-20,000	20,000-25,000	Rather not say
Total Scope 1	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
Total Scope 2	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>

Q5.25 What is your facility's major source of Scope 1 emissions? Select one

help us to develop better policies and guidance

<input type="checkbox"/> Non-road vehicles and equipment e.g. forklifts, conveyors, excavators, trucks	<input type="checkbox"/> Fugitive emissions from landfills	<input type="checkbox"/> Transportation emissions of your fleet to transport product or feedstock between your organisation's facilities
<input type="checkbox"/> Stack emissions from industrial processes, e.g. boilers, ovens, kilns, diesel generators	<input checked="" type="checkbox"/> Fugitive emissions from sewage treatment plants and sewage networks	<input type="checkbox"/> Other (Please specify)
<div></div>		
<input type="checkbox"/> Fugitive emissions from coal seams	<input type="checkbox"/> Fugitive emissions from treatment ponds	<input type="checkbox"/> Don't know
<input type="checkbox"/> Fugitive emissions from gas infrastructure	<input type="checkbox"/> Use of fossil fuels directly (no combustion) to produce feedstock, e.g. fertilizer production	<input type="checkbox"/> Rather not say

Q5.39 Who quantified your Scope 1 and 2 emissions?

Why are we asking? This assists us in understanding how sectors quantify their emissions, and what support they may need

☐ Internal employee

☒ Other (Please specify)

Local Water Utility annual performance reporting worksheet based on electricity and fuel usage for sewerage operations

☐ External (consultant) engaged by the facility

☐ Don't know

☐ My organisation did it

☐ Rather not say

Q5.40 How were your Scope 1 emissions quantified? (Select all that apply)

Why are we asking? This assists us in understanding how sectors quantify their emissions

☐ [National Greenhouse Accounts](#) (NGA) emission factors for all sources

☒ Other (Please specify)

Using worksheet provided by DPE Water.

☐ [NGERS Determination](#) (Method 1 based on emission factors)

☐ Don't know

☐ Monitoring (site specific) for all sources

☐ Rather not say

☐ Mix of monitoring and emission factors

Q5.42 Did you or your organisation receive any government assistance (funding or support) to quantify your emissions, e.g. as part of the NSW

sector

☐ Yes (please specify the program)

☒ No

☐ Rather not say

Q5.43 Have you or your organisation assessed your Scope 3 (upstream and downstream) emissions?

A definition of Scope 3 emissions is in the glossary section of this survey.

Why are we asking? We are asking this to ascertain how many and to what extent of our licensees are considering Scope 3 emissions

☐ Yes, identified and quantified

☐ Yes, identified only

☒ No

☐ Rather not say

Please provide any additional information about how greenhouse gas emissions are assessed (optional)

GHG emissions are estimated for water and sewerage operations annually and reported with other performance data for water and sewerage operations to DPE Water/BOM.

PART 6: Management of Greenhouse Gas Emissions

This is the beginning of the emissions reduction section. Questions in this part rely on some of your responses in Parts 2 and 5. **It is important that you do not start this part until you have completed Parts 2 and 5.**

Q6.1 Does your facility have a greenhouse gas management plan that was required through the planning approvals process?

Why are we asking? This assists us in understanding the requirements you may already have to manage your

☒ No

Q6.5 Does your facility have obligations to reduce its point-source air pollutant emissions (e.g. from boilers, kilns, furnaces) to comply with the standards of concentration listed in [Schedule 2 of the Protection of the Environment Operations \(Clean Air Regulation\) 2022](#)?

Note: Plant and activities that commenced operation between 1 July 1979 and 1 August 1997 will be moved to the stricter air emission standards of Group 5 by 1 November 2027 and Group 6 by 1 November 2030.

Why are we asking: This assists us to understand what other regulatory obligations you already have, and raises awareness about other regulatory requirements

- ☐ Yes
- ☒ No
- ☐ Don't know

You will now be asked about greenhouse gas emissions reductions. If you are part of an organisation that has multiple facilities in NSW, and this is not the first survey you have submitted (EPL of first survey submitted was provided in Q2.8), you may be able to skip organisational level questions and only be asked facility level questions.

Q6.14 Do you or your organisation have an emissions reduction plan that applies to your facility?

Why are we asking? This assists us in understanding how progressed your sector is in managing greenhouse gas emissions

- ☐ Yes
- ☒ No

Q6.35 Although you don't have an emissions reduction plan, have you undertaken, or planned to undertake, any actions to reduce emissions at your facility? Select all that apply

Why are we asking? This assists us to understand what emissions reductions have been undertaken or

4.4 Climate Change Surveys

Attachment A EPA Licence 1730 - Yass Sewage Treatment Plant

	Implemented	Planned
· Increase energy efficiency	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
· Purchase renewable electricity	<input type="checkbox"/>	<input type="checkbox"/>
· Process optimisation (not energy efficiency)- give details <input type="text"/>	<input type="checkbox"/>	<input type="checkbox"/>
· Generate renewable electricity onsite (please give details) <input type="text" value="solar panels"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
· Use methane released onsite to generate electricity	<input type="checkbox"/>	<input type="checkbox"/>
· Methane capture and flaring	<input type="checkbox"/>	<input type="checkbox"/>
· Switch to electric vehicles	<input type="checkbox"/>	<input type="checkbox"/>
· Switch to electric plant, e.g. boilers, furnaces, kilns	<input type="checkbox"/>	<input type="checkbox"/>
· Switch to a greener fuel (please specify) <input type="text"/>	<input type="checkbox"/>	<input type="checkbox"/>
· Hydrogen injection	<input type="checkbox"/>	<input type="checkbox"/>
· Install covered anaerobic ponds	<input type="checkbox"/>	<input type="checkbox"/>
· Reduce synthetic fertiliser use	<input type="checkbox"/>	<input type="checkbox"/>
· Plant trees on-site	<input type="checkbox"/>	<input type="checkbox"/>
· Other (please specify) <input type="text"/>	<input type="checkbox"/>	<input type="checkbox"/>

Purchase carbon offsets	<input type="checkbox"/>	<input type="checkbox"/>
Don't know	<input type="checkbox"/>	<input type="checkbox"/>
No	<input type="checkbox"/>	<input type="checkbox"/>
Rather not say	<input type="checkbox"/>	<input type="checkbox"/>

Q6.36 Are you or your organisation, planning, or in the process of, developing an emissions reduction plan that will apply to your facility?

Why are we asking? This assists us in understanding how progressed your sector is in developing emissions reduction plans

- ☐ Yes
- ☒ **No**
- ☐ Don't know
- ☐ Rather not say

Q6.43 What are the main barriers or obstacles that are preventing you or your organisation from developing an emissions reduction plan? Select all that apply

Assists us in understanding the challenges our licensees face to manage their emissions

- | | |
|--|---|
| <input type="checkbox"/> We first need to identify and quantify our emissions | <input type="checkbox"/> We don't have the time |
| <input type="checkbox"/> Our emissions are small, the effort can not really be justified | <input type="checkbox"/> Other (please specify) |
| | <input type="text"/> |
| <input checked="" type="checkbox"/> We don't have the resources | <input type="checkbox"/> Don't know |
| <input checked="" type="checkbox"/> We don't have the expertise | <input type="checkbox"/> No barriers |

Q6.51 Please provide any additional information about how you manage your greenhouse gas emissions (optional)

PART 7: Additional Information (Optional)

Q7.1 Give any other information/comment that you believe is important or useful for the EPA to know about your facility

Q7.2 Attach any useful plans (e.g. emergency management plans) if you think they are also useful to show how you are managing climate risks and/or emissions

CC and ND Risk Assessment.pdf

1.4 MB

application/pdf

Do you have another plan to upload?

☐ Yes (link provided below)

☐ Yes, will upload

☒ No

Q7.3 What support would your organisation or company require to improve its management of greenhouse gas emissions, and/or management of climate risks? Select all that apply

- ☐ More detailed guidance that is directly related to my sector
- ☐ Additional support to quantify Scope 1 and 2 emissions
- ☐ Additional support to decarbonise
- ☒ **Technical support to develop metrics (risk and emissions)**
- ☐ Guidance on how to calculate Scope 3 emissions
- ☐ Not sure
- ☐ Case studies of leading or best practice
- ☒ **Additional support to identify emissions reduction measures for my sector**
- ☐ Other (please specify)
- ☐ Behaviour change management support
- ☒ **Additional support to identify adaptation measures for my sector**
- ☐ None
- ☐ Online advice services

Q7.6 Are you ready now to proceed to sign off and submit? (Once you proceed to the sign-off section you cannot make changes)

- ☒ Yes
- ☐ No

PART 8: Signoff and Submission

Please confirm you have completed the following mandatory sections.
Note: these sections are mandatory and need to be completed before

. . . .

	Completed
Part 1	<input checked="" type="checkbox"/>
Part 2	<input checked="" type="checkbox"/>
Part 3	<input checked="" type="checkbox"/>
Part 4	<input checked="" type="checkbox"/>
Part 5	<input checked="" type="checkbox"/>
Part 6	<input checked="" type="checkbox"/>

Enter the name of the person signing off on the survey submission

Note: You will need to get signoff from the Director or proprietor of your organisation, or someone with permission to sign off on your organisation's behalf, before submitting.

Chris Berry

Enter the position of the person signing off (someone with permission to sign off on your organisation's behalf)

Chief Executive Officer

Sign the survey here to submit

Signing below acknowledges that you have permission to sign off on your organisation's behalf.

✕ Chris Berry

clear

Welcome. Thanks for checking out the Qualtrics Surveys Question Walkthrough! This survey will help explain the question types and features offered with your free Qualtrics Survey account.

First things first, this question is a "[Descriptive Text](#)" question. In Qualtrics, each piece of a survey is considered a question, so this is a "question" that doesn't require any input from the user. It just allows you to provide instructions, clarify why you're asking questions, or add [handy links to outside sites that give more information](#).

You can also do further text editing by using the [Rich Content Editor](#) (the blue button above this question text when you click on it to edit), including *italics* and **bolding**. You can also change the **color**, **size**, or **font** of your text. Additionally, you can add images, files, or even videos - anything you need to show your participant or respondent before they answer a question.

Here's another type of "Descriptive Text" question, but it doesn't actually allow for written word. This question, the "Graphic" question, is pretty much just an image. You can see an example of this below! You can add a graphic you've uploaded from your library, or you can link one from another website using the image's URL.

Behold my beautiful placeholder below and then click the "Next" button to advance to the next page!

Important Information.

Important Information

When must the survey be completed?

Your response to the survey is due by **5pm on Friday 15 September, 2023**.

Do I need to do the survey all at one time?

No. You may close the survey and continue at any time during the submission period. All you do is close the link and resume the survey by re-opening the link.

Is this survey mandatory?

Yes. Completing this survey is mandatory. Our licensees have different support needs. We cannot simply rely on a sample of licensee responses. The results of this survey will help us to ensure future actions we take are meaningful, feasible and cost-effective for our licensees.

If you do not complete the survey by the due date, we will be following up by various means. This could include issuing a notice to provide information and records, under Section 191 of the *Protection of the Environment Operations Act 1997* (the POEO Act).

Who should fill out the survey? What level of sign-off is required?

To ensure we receive accurate information from your organisation, it is important that the survey is filled out and signed off by the right people. The person(s) filling out the survey should be someone with a good understanding of how the facility is managing its climate risks and greenhouse gas emissions.

Before the survey is submitted to the EPA, it needs to be signed (within the survey platform). The person who signs-off on the survey needs to be the Director or proprietor of your organisation, **or** someone who has been given permission to sign off on the survey on behalf of the Director or proprietor. We will assume that any such permission has been obtained by a person signing on behalf of your organisation.

Can I get a copy of my survey responses?

Yes, once you complete and submit the survey, you will be given an option to download a pdf of your responses. Do **not** close the survey until you have done this. Once you have closed the survey link you will not be able to retrieve your responses.

Will this survey be used for compliance purposes?

This survey is **not** being issued for compliance purposes. We ask that you please be as candid and detailed as you can. Please be aware, however, that it is an offence under section 167A of the POEO Act to provide information to the EPA that is false or misleading.

How can I get help?

- Read the Frequently Asked Questions (FAQs) on our [survey information webpage](#).
- Email climatechange.review@epa.nsw.gov.au for support. We will aim to respond within 1 to 2 business days.
- Call the survey helpline on 0460 767 475 or 0458 875 664, which will be open from 11am-1pm

available on our [survey information webpage](#).

1.

Glossary

You can read the glossary or skip directly to Part 1 and start the survey by clicking the arrow button below

ABN	Australian Business Number
ACN	Australian Company Number
Action Plan	EPA's Climate Change Action Plan 2023-26
Adaptation	Climate Change Adaptation. The adjustment to the actual or expected effects of climate change.
CCMAPs	Climate Change Mitigation and Adaptation Plans (under the EPA Climate Change Action Plan 2023-26)
Climate Hazard	A physical event (hydro meteorological or oceanographic) that can harm human health, livelihoods or natural resources
CDP	Carbon Disclosure Project
CDSB	Climate Disclosure Standards Board
CO ₂ -e	Greenhouse gas emissions estimates are expressed as "carbon dioxide equivalent" (CO ₂ -e) to account for the different global warming potentials of each gas compared to CO ₂ .
DPE	Department of Planning and Environment (NSW)
EPL	Environment Protection Licence (under the Protection of the Environment Operations Act 1997)
Facility	Licensed premises to undertake a scheduled activity under the Protection of the Environment Operations Act 1997
Fugitive emissions	Emissions that are not from a point source, e.g. from a coal seam or the surface of a landfill
Greenhouse Gas (GHG)	Carbon dioxide, methane, nitrous oxide, ozone and some synthetic gases
GRI	Global Reporting Initiative
SSB	International Sustainability Standards Board
ARCIIM	NSW and Australian regional climate modelling
NGERS	National Greenhouse and Energy Reporting Scheme
DECC	Office of Energy and Climate Change
Organisation	A company, local council, state-owned corporation or public authority.
POEO Act	Protection of the Environment Operations Act, 1997
Safeguard Facility	A facility that is captured by the Commonwealth Safeguard Mechanism, with direct (Scope 1) emissions over 100,000 tonnes of CO ₂ -e per year
SBTI	Science Based Targets Initiative
Scope 1 emissions	Emissions released as a direct result of an activity or series of activities at a facility level. Sometimes called direct emissions
Scope 2 emissions	Emissions released from the indirect consumption of an energy commodity
Scope 3 emissions	Indirect emissions generated in the wider economy. They occur as a consequence of activities at a facility, but by source not owned or controlled by the facility's business
TCFD	Task Force on Climate Related Financial Disclosure

1.

Useful Resources

You can read the Resources page, or skip to Part 1 and start the survey

Identification and Quantification of Greenhouse Gas Emissions - Commonwealth

- [Guidelines - National Greenhouse and Energy Reporting](#)
- [National Greenhouse Accounts Factors](#)
- [National Greenhouse and Energy Reporting Calculator](#)
- [Safeguard Mechanism: Prescribed production variables and default emissions intensities](#)
- [National Greenhouse and Energy Reporting \(Measurement\) Determination 2008](#)

Reducing Emissions - Commonwealth

- [National Hydrogen Strategy](#)
- [Rewiring the Nation](#)
- [Industrial Energy Transformation Studies \(IETS\) Program](#)
- [Hydrogen Research and Development Funding Round](#)
- [Advancing Renewables Program](#)
- [Powering the Regions Fund](#)

2.

Reducing Emissions - NSW Government

Government Legislation, Policy and Strategy

[NSW Net Zero Plan Stage 1: 2020-2030](#)
[Electricity Infrastructure Roadmap](#)
[Electricity Infrastructure Investment Regulation 2021](#)
[NSW Hydrogen Strategy](#)
[Sustainable Building SEPP](#)
[EPA Climate Change Policy and Action Plan](#)
[Waste and Sustainable Materials Strategy](#)
[Investment NSW NetZero Prospectus](#)
[NSW Electric Vehicle Strategy](#)
[NSW Government Resource Efficiency Policy](#)

Programs, grants and schemes available to business and industry

[Programs, grants and schemes | NSW Climate and Energy Action](#)
[Net Zero Industry and Innovation Program](#)
[Clean technology innovation](#)
[Low carbon industry foundations](#)
[High emitting industries](#)
[Renewable Manufacturing Fund](#)
[Business decarbonisation support](#)
[Electric vehicle fast charging grants](#)
[Electric vehicle fleets incentives](#)
[Hydrogen refuelling network funding](#)
[Primary Industries Productivity and Abatement Program](#) (PIPAP), including [High impact partnerships](#) (for and managers)
[Net zero buildings](#)
[Low emissions building materials](#)
[Pumped hydro recoverable grants](#)
[Organics infrastructure fund](#)
[Energy Security Safeguard](#)
[Peak Demand Reduction Scheme](#)
[Energy Savings Scheme](#)
[Renewable Fuel Scheme](#)
[Sustainability Advantage](#)
[Nature Positive Farming program](#)
[Renewable Energy Infrastructure Investment Program for Councils](#)

Courses, Guides and Support

Technology guides [Technology guides | NSW Climate and Energy Action](#)
Energy management courses: energy management for businesses [Find an energy course | NSW Climate and Energy Action](#)
[Business Decarbonisation Support](#) (strategic planning, metering, technical services)
[Coal Innovation NSW](#)
[Regional Council Sewage and Water Treatment Energy Efficiency Guide](#)
[Transition To Net Zero: Local Government Role In Greenhouse Gas Emissions Reductions To 2030 And 2050](#)

3.

Reducing Emissions - Local Government

Sustainable Councils

[Joint Organisation Net Zero Accelerator Grant](#)
[Resilient Sydney](#)
LGNSW - [Climate Action Professionals Group](#)
Sustainable Councils Team: scc@environment.nsw.gov.au

Course, Guides and Support

[Regional Council Sewage and Water Treatment Energy Efficiency Guide](#)
[Transition to Net Zero: Local Government Role in Greenhouse Gas Emissions Reductions to 2030 and 2050](#)
[Net Zero Emissions Guidance for NSW Councils](#)

[NSW Adaptation Strategy](#)

[Adapt NSW Home](#) | [AdaptNSW](#)

Adapt NSW [Climate Risk Ready NSW Guide](#) (for the Government sector, though it does have specific reference to climate change risk assessments)

[How businesses can adapt to climate change](#) | [AdaptNSW](#)

[Pasture Management](#) | [NSW DroughtHub](#)

[Farm Business Resilience Program](#) | [NSW DroughtHub](#)

[Farm Innovation Fund](#) (nsw.gov.au)

[Seafood Innovation Fund](#) (nsw.gov.au)

[Climate-smart digital farm technology](#) | [AdaptNSW](#)

[Climate change impacts on our agriculture](#)

[DPI Drought Recovery Guide](#)

[Guide to Climate Change Risk Assessment for NSW Local Government](#)

Q1.1. PART 1: Submitter Details

Q1.1 Your name

Tony Stevens

Q1.2 Your position

To ensure accurate information is provided to the EPA, the person(s) filling out the survey should be someone with a good understanding of how the facility is managing its climate risks and greenhouse gas emissions.

Manager Facility & Waste Assets

Q1.3 Facility name (your "premises" name, as it appears on your licence)

Murrumbateman Landfill

Q1.4 Facility address (your "premises" address, as it appears on your licence)

248 Isabel Drive

Q1.5 Enter your Australian Business Number and/or your Australian Company Number

☒ Australian Business Number 50 119 744 650

☐ Australian Company Number

Q1.6 Email address

tstevens@yass.nsw.gov.au

Q1.7 Phone number (numbers only - no spaces, dashes or plus sign)

0262269477

Q1.8 Multiple choice questions come in all sorts of flavors, especially in Question 1. In the survey editor, if you

4.4 Climate Change Surveys

Attachment B EPA Licence 5895 - Murrumbateman Landfill

Single Answer multiple choice questions are the bread and butter of surveys. Users will only be able to select a single option, and these types of questions lead to great quantitative data (numbers, which can be put in graphs and shown against other numeric data and the like).

Are you enjoying the tour so far?

5895

Q2.2. Q2.2 Enter your annual production or activity level that is most representative of your facility in the last three years (i.e. the amount of activity over a given 12 month period).

An example of production level could be the amount of ROM coal if you are a coal mine, or kg liveweight produced if you are a piggery. An example of an activity level could be tonnes of waste disposed to land if you are a landfill or the amount of chemicals stored if you are a fuel terminal. These examples are to give you an indication about what we mean by production or activity level, and will depend on the primary activity listed in your licence. Units will depend on the fee based activity in your license.

Why are we asking? This will assist us in calculating emissions intensities for your sector.

	Kg	Tonnes	L	ML	cubic metres	KWh	MWh	GWh	Number (e.g. cattle, birds, vessels, waste tyres)	Other	N/A (there is no unit of measurement for this activity - e.g. road tunnels)
Enter the annual production or activity level (a number). Enter "rather not say" if you don't want to give this information.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>

Q2.3. Q2.3 You chose an "other" unit for your annual production/activity level. Specify the "other" unit of activity.

This question was not displayed to the respondent.

Q2.4. Q2.4 You have stated that your annual production/activity level is in terms of a number. Specify what the number relates to or represents (e.g. waste tyres, head of cattle, standard pig units etc).

This question was not displayed to the respondent.

Q2.5. Q2.5 You have stated that your production amount/level of activity is in terms of a weight or volume. Specify what weight or volume you are reporting (e.g. ROM coal, raw steel, dairy product, waste landfilled).

This question was not displayed to the respondent.

Q2.6. Q2.6 Enter the reporting year for the annual production/activity level provided in Q2.2. The reporting year is the period over which you report, i.e. it does not need to be a calendar year or a financial year, as long as the period spans a year. For NGERS facilities please list for your NGERS reporting year.

- ☐ Calendar year 2020
- ☐ Calendar year 2021
- ☐ Calendar year 2022
- ☐ FY 2020-2021
- ☐ FY 2021-2022
- ☒ FY 2022-2023
- ☐ Other (please specify: day/month/year - day/month/year - must be a year)
- ☐ Rather not say

4.4 Climate Change Surveys

Attachment B EPA Licence 5895 - Murrumbateman Landfill

If your organisation is a company, local council, state owned corporation or public authority, we are asking this so you may be able to skip some organisational questions that may have been answered in a previous survey

- ☒ Yes, (specify name of organisation)
- ☐ No

Q2.8. Q2.8 Is this the first time your organisation has completed the survey for any of its facilities?

If your organisation has filled in the survey for another of its facilities, and some aspects of climate related matters are managed by your organisation, the survey will skip some of these organisational questions. (We recommend your first survey is completed for a facility that has the most areas of climate change managed by your organisation). Many organisational level questions can then be skipped for subsequent surveys.

- ☐ Yes
- ☒ No (specify the EPL number of the facility that has completed the first survey)
- ☐ Don't know

Q2.9. Q2.9 Do you want to rely on some of the responses your organisation has provided in its first survey response?

If someone in your organisation has filled in the survey once before, and some climate related matters are managed at the organisational-level, those organisation-level questions can be skipped for subsequent surveys.

- ☐ Yes
- ☒ No

Q2.10. Q2.10 Are you part of an industry association? (Select all that apply)

Why we are asking: This assists us in understanding what support is potentially available for your sector, and who we could potentially partner with to support licensees to manage greenhouse gas emissions and climate risks

- | | | |
|---|---|--|
| <input type="checkbox"/> Agribusiness Australia | <input type="checkbox"/> Bioenergy Australia | <input type="checkbox"/> Minerals Council |
| <input type="checkbox"/> Australian Glass and Glazing Association | <input type="checkbox"/> Business Council of Australia | <input type="checkbox"/> Meat and Livestock Australia |
| <input type="checkbox"/> Australian Industry Greenhouse Network | <input type="checkbox"/> Cement Concrete and Aggregates Australia | <input type="checkbox"/> NSW Farmers |
| <input type="checkbox"/> Australian Landfill Owners Association | <input type="checkbox"/> Cement Industry Federation | <input type="checkbox"/> Waste Management Association Australia |
| <input type="checkbox"/> Australian Lot Feeders Association | <input type="checkbox"/> Dairy Australia | <input type="checkbox"/> Water Services Association of Australia |
| <input type="checkbox"/> Australian Pipelines | <input type="checkbox"/> Institute of Quarrying Australia | <input type="checkbox"/> The Water Directorate |
| <input type="checkbox"/> Australia Pork Limited | <input type="checkbox"/> Gas Energy Australia | <input type="checkbox"/> Other (please specify) <input type="text"/> |
| <input type="checkbox"/> Australian Sustainable Business Group | <input checked="" type="checkbox"/> Local Government NSW | <input type="checkbox"/> No |
| <input type="checkbox"/> Australian Water Association | <input type="checkbox"/> Manufacturing Australia | <input type="checkbox"/> Rather not say |

Q2.11. Q2.11 Do you currently receive guidance or support from your industry association to assist you to manage the risks caused by climate change and/or your greenhouse gas emissions at your facility?

Why we are asking: This assists us in understanding what support is available for your sector, and how we can potentially partner with industry associations to support licensees to manage emissions and climate risks

- ☒ Yes
- ☐ No

Q2.12. Q2.12 What type of guidance or supporting information have you received from your association?

Select all that apply)

Why we are asking: This assists us in understanding what support is available for your sector, and how we can potentially partner with industry associations to support licensees to manage emissions and climate risks

4.4 Climate Change Surveys

Attachment B EPA Licence 5895 - Murrumbateman Landfill

- ☐ Information about reducing emissions ☐ Funding ☐ Other (please specify)
- ☒ Information about identifying climate risks ☐ Expert Advice, e.g. access to a consultant ☐ Rather not say

Q2.13. Do you receive support from any other non-government organisation to support you to manage our climate risks and/or greenhouse gas emissions?

Why we are asking: This assists us in understanding what support is available for your sector

- ☐ Yes (please specify)
- ☒ No
- ☐ Rather not say

Q2.14. Before receiving this survey, were you aware of the EPA's [Climate Change Policy and Action Plan 2023-26](#) that was released in January this year?

Why we are asking: This is to assist us in understanding how aware our licensees are of the EPA's climate change policy and action plan – and to make you aware (if you were not already)

- ☒ Yes
- ☐ No

Q2.15. Have you considered how the [EPA's Policy and Action Plan](#) relates to your operations?

Why we are asking: This is to understand whether you have started to consider the actions in the action plan and the implications for our operations

- ☒ Yes
- ☐ No

Q2.16. Do you think you might need to make changes to your operation(s) in response to the EPA's Policy and Action Plan? (Select all that apply)

Why we are asking: To help us understand how progressed your sector is in managing the causes and consequences of climate change, and the level of support you may require as we implement the action plan

- ☒ Yes – We might need to do more to manage our climate risks caused by a changing climate ☐ No – We don't think anything will change, because we don't have any climate related risks or greenhouse gas emissions
- ☒ Yes – We might need to do more to manage our greenhouse gas emissions ☐ Other (please specify)
- ☐ No - We have been working towards managing our climate risks and emissions before the Action Plan was released. We will continue to do this. ☐ Not sure – We don't yet know what it will mean for us.
- ☐ No – We don't think anything will change, because we are already managing our climate risks and greenhouse gas emissions effectively ☐ Rather not say

Q2.17. Do you or your organisation have a dedicated person(s) responsible for management of your greenhouse gas emissions and risks to your operations and facility caused by a changing climate?

Why we are asking: To understand how progressed your sector is in managing the causes and consequences of climate change

- ☐ Yes, Environmental/Sustainability Manager with climate change responsibilities ☐ Yes, other (please specify)
- ☐ Yes, we have a corporate climate and sustainability team ☐ Not yet, but we will
- ☐ Yes, we have a dedicated climate change person(s) ☐ No, the facility is too small, so not necessary
- ☐ Yes, Managing Director ☐ No, the facility doesn't have any greenhouse gas emissions and negligible risks due to climate change, so this is not necessary
- ☒ Yes, the organisation does it ☐ No, other reason (please specify)

4.4 Climate Change Surveys

Attachment B EPA Licence 5895 - Murrumbateman Landfill

Climate Change:

This is being asked to understand your other obligations

- ☒ Yes, it is a strategic priority for the organisation ☐ Other (please specify)
- ☐ Yes, the organisation has requirements in other jurisdictions (please describe) ☐ No
- ☐ Yes, it is a condition of our consent ☐ Rather not say

3.1. PART 3: Climate Hazards

Questions in this part rely on some of your responses in Part 2. It is important that you do not start this part until you have completed Part 2.

3.1 In the past 5 years, has your facility been directly or indirectly affected by climate hazards?

Note: A climate hazard is defined as a physical event (hydro-meteorological or oceanographic) that can harm human health, livelihoods, or natural resources.

Why we are asking: This question assists us in understanding the hazards your sector and location may face

- ☐ Yes
- ☒ No
- ☐ Don't know

3.2. Q3.2 Please specify and rate the severity of the climate hazard(s)

Why we are asking: This assists us in understanding what hazards your sector and location may face

This question was not displayed to the respondent.

3.3. Q3.3 Is there another climate hazard(s) not specified in Q3.2?

This question was not displayed to the respondent.

3.4. Q3.4 Specify the severity of this other climate hazard(s) (If more than one hazard is specified, select all that apply)

This question was not displayed to the respondent.

3.5. Q3.5 What environmental management challenges have you experienced at your facility as a result of these climate hazards?

Why we are asking: This assists us in understanding the management challenges your sector and location may face

This question was not displayed to the respondent.

3.6. Q3.6 Is there another management challenge(s) not listed in Q3.5?

This question was not displayed to the respondent.

3.7. Q3.7 Please rate the severity of this management challenge(s) (select all that apply if more than one challenge specified)

This question was not displayed to the respondent.

3.8. Q3.8 What actions have you taken to consider how climate hazards may change in the future? Select all that apply.

4.4 Climate Change Surveys

Attachment B EPA Licence 5895 - Murrumbateman Landfill

- ☒ Accessed climate change information and data
- ☐ We don't do this at a facility level. My organisation has done this
- ☐ Other (please specify)
- ☐ Engaged a consultant/expert to help us understand future climate hazards
- ☐ No action
- ☐ Rather not say
- ☐ We have discussed internally but have not decided or don't know how to identify future climate hazards

4 preamble. PART 4: Management of Climate Risk

You will now be asked about how you manage your climate risks. If you are part of an organisation that has multiple facilities in NSW, and this is not the first survey you have submitted (EPL of first survey submitted as provided in Q2.8), you may be able to skip organisational level questions and only be asked facility level questions. **It is important that you do not start this part, until you have completed Part 2.**

4.1. Q4.1 Is climate change risk managed at the organisational level?

Note: If you are undertaking a climate change risk assessment at the organisational level, and adaptation planning at the organisational level, then select the two organisational response options. This may help to skip a lot of organisational questions if this is not the first survey completed by an organisation

This question was not displayed to the respondent.

4.2. Q4.2 Did the climate change risk assessment consider future climate forecasts relevant to the location of your facility? Select all that apply

Why are we asking? This assists us in understanding how progressed your sector is in managing its environmental risks

This question was not displayed to the respondent.

4.3. Q4.3 What are the nature of your climate risk management/adaptation measures that have been identified at your facility to manage risk to the surrounding environment, and have these measures been implemented? Select all that apply (climate risk management/adaptation measures are those measures that reduce climate risks).

Why are we asking? This assists us in understanding how progressed you are in implementing adaptation measures, and the nature of adaptation measures that are available for your sector

This question was not displayed to the respondent.

4.4. Q4.4 Do you or your organisation have an over-arching risk management framework or process, that includes identification and management of environmental risks?

Why are we asking? This assists us in understanding how progressed your sector is in managing its environmental risks

- ☐ Yes
- ☒ No
- ☐ Don't know

4.5. Q4.5 Does your framework or process include a climate change risk assessment that applies at your facility?

Why are we asking? This assists us in understanding how progressed your sector is in managing its environmental risks

This question was not displayed to the respondent.

4.6. Q4.6 Does your climate change risk assessment include assessing risk to the surrounding environment from climate hazards were to impact your facility? e.g. a hazard may result in pollution discharge from the facility to the surrounding environment

Why are we asking? This assists us in understanding how progressed your sector is in managing its climate risks

4.4 Climate Change Surveys

Attachment B EPA Licence 5895 - Murrumbateman Landfill

Why are we asking? This assists us in understanding how progressed your sector is in managing its environmental risks

This question was not displayed to the respondent.

Q4.8. Q4.8 What support or guidance did you use to undertake your climate change risk assessment? Select all that apply

What support or guidance to identify and evaluate climate risks is available in the resources section of this survey
Why are we asking? This assists us in understanding what support is effective for your sector

This question was not displayed to the respondent.

Q4.9. Q4.9 Did the climate change risk assessment consider future climate forecasts relevant to the location of your facility? Select all that apply

Why are we asking? This assists us in understanding how progressed your sector is in managing its climate risks

This question was not displayed to the respondent.

Q4.10. Q4.10 Do you or your organisation publicly report climate related risks that apply at your facility consistent with the Climate Change Financial Disclosure (TCFD) framework, or another standard/guide that requires public reporting of climate risk? Select all that apply

Why are we asking? This assists us in understanding how progressed your sector is in managing its climate risks

This question was not displayed to the respondent.

Q4.11. Q4.11 Has your climate risk reporting been certified by an independent expert qualified to provide public assurance of your risk management systems, processes, metrics and controls?

Why are we asking? This assists us in understanding how progressed your sector is in managing its environmental risks

This question was not displayed to the respondent.

Q4.12. Q4.12 Provide a link to your publicly available climate risk statement

Why are we asking? This assists us to assess transparency of reporting in your sector. We also ask this so some questions in this survey can be skipped, thus minimising duplicative reporting

This question was not displayed to the respondent.

Q4.13. Q4.13 Do you or your organisation voluntarily report climate risks, including climate risks at your facility?

Why are we asking? This assists us to assess transparency of reporting, and in understanding how progressed your sector is in managing climate risks

This question was not displayed to the respondent.

Q4.14. Q4.14 Is the reporting of climate risk at your facility publicly available, e.g. in a company report or corporate risk assessment or similar?

Why are we asking? This assists us to assess transparency of reporting. We also ask this so some questions about climate risks can be skipped, thus minimising duplicative reporting

This question was not displayed to the respondent.

Q4.15. Q4.15 Please upload your publicly available climate risk report

Why are we asking? Providing this can reduce duplicate reporting

This question was not displayed to the respondent.

Q4.16. Q4.16 As a result of your climate change risk assessment, have you identified specific adaptation measures you could implement to manage the risk to the surrounding environment if climate hazards were to impact your facility?

Why are we asking? This assists us in understanding how progressed your sector is in managing its climate risks

4.4 Climate Change Surveys

Attachment B EPA Licence 5895 - Murrumbateman Landfill

Q4.17. Q4.17 Have these adaptation measures been adopted into an adaptation plan (or similar) that applies to your facility?

Why are we asking? This assists us in understanding how progressed your sector is in managing its climate risks, and helps us to understand what adaptation measures are available for your sector

This question was not displayed to the respondent.

Q4.18. Q4.18 Is the Adaptation Plan publicly available?

Why are we asking? Providing this can reduce duplicate reporting

This question was not displayed to the respondent.

Q4.19. Q4.19 Upload the Adaptation Plan

Why are we asking? Providing this can reduce duplicate reporting

This question was not displayed to the respondent.

Q4.20. Q4.20 What is the nature of your adaptation measures that have been identified to manage risk to the surrounding environment, and have these measures been implemented at your facility? Select all that apply
Adaptation measures are those measures that reduce climate risks.

Why are we asking? This assists us in understanding how progressed you are in implementing adaptation measures, and the nature of adaptation measures that are available for your sector

This question was not displayed to the respondent.

Q4.20a. Q4.20a Did any of these resources assist you to identify adaptation measures?

Why are we asking? This assists us in understanding what support you found useful for your sector to identify adaptation measures

This question was not displayed to the respondent.

Q4.21. Q4.21 Have you or your organisation undertaken or updated a climate change risk assessment in the last 3 years?

Why are we asking? This assists us in understanding how progressed your sector is in managing its climate risks

☐ Yes

☒ No

Q4.22. Q4.22 Did the climate change risk assessment identify a need to manage risk to the surrounding environment if climate hazards were to impact your facility?

Why are we asking? This assists us in understanding how progressed your sector is in managing climate risks

This question was not displayed to the respondent.

Q4.23. Q4.23 How often is your climate change risk assessment reviewed?

Why are we asking? This assists us in understanding how progressed your sector is in managing climate risks

This question was not displayed to the respondent.

Q4.24. Q4.24 What support or guidance did you use to undertake your climate change risk assessment? Select all that apply.

Note support or guidance to identify and evaluate climate risks is also available in the resources section of this survey

Why are we asking? This assists us in understanding what support you found useful for your sector to undertake a climate change risk assessment

This question was not displayed to the respondent.

Q4.25. Q4.25 Did the climate change risk assessment consider future climate forecasts relevant to the

4.4 Climate Change Surveys

Attachment B EPA Licence 5895 - Murrumbateman Landfill

This question was not displayed to the respondent.

Q4.26. Q4.26 Is the climate change risk assessment publicly available (e.g. in your company's annual report or publicly available corporate risk assessment)?
Why are we asking? Providing this can reduce duplicate reporting

This question was not displayed to the respondent.

Q4.27. Q4.27 Upload your climate change risk assessment. If your climate change risk assessment is incorporated into your publicly available corporate risk assessment, upload the corporate risk assessment, or an excerpt of the assessment relevant to climate risks
Why are we asking? Providing this can reduce duplicate reporting

This question was not displayed to the respondent.

Q4.28. Q4.28 As a result of the climate change risk assessment, have you identified specific adaptation measures you could implement to reduce the risk to the surrounding environment if climate hazards were to impact your facility?
Why are we asking? This assists us in understanding how progressing your sector is in managing climate risks

This question was not displayed to the respondent.

Q4.29. Q4.29 Could any of these resources assist you to identify adaptation measures? Note: Resources to help identify adaptation measures are also listed in the Resources Section of this survey
This informs you about the support that is available to identify adaptation measures, and will assist us in determining what support you may find useful for your sector

This question was not displayed to the respondent.

Q4.30. Q4.30 Have these adaptation measures been adopted into an Adaptation Plan (or similar)?
Why are we asking? This assists us in understanding how progressed your sector is in managing climate risks

This question was not displayed to the respondent.

Q4.31. Q4.31 Is the Adaptation Plan publicly available (e.g. in a company report)?
Why are we asking? This assists us to assess transparency of reporting. We also ask this so some questions in this survey can be skipped, thus minimising duplicative reporting

This question was not displayed to the respondent.

Q4.32. Q4.32 Upload the Adaptation Plan
Why are we asking? Providing this can reduce duplicate reporting

This question was not displayed to the respondent.

Q4.33. Q4.33 What is the nature of your adaptation measures that have been identified to manage risk to the surrounding environment, and have these measures been implemented at your facility? Select all that apply.
Adaptation measures are those measures that reduce climate risks.

Why are we asking? This assists us in understanding how progressed you are in implementing adaptation measures, and the nature of adaptation measures that are available for your sector

This question was not displayed to the respondent.

Q4.34. Q4.34 Did any of these resources assist you to identify adaptation measures? Note: Resources to assist in identifying adaptation measures are also listed in the Resources Section of this survey. Select all that apply
Why are we asking this? This assists us in understanding what support you found useful for your sector to identify adaptation measures

4.4 Climate Change Surveys

Attachment B EPA Licence 5895 - Murrumbateman Landfill

Q4.35. Q4.35 Are you intending to undertake a climate change risk assessment in the next 12 months to assess climate risks at your facility?

Why are we asking? This assists us in understanding how progressed your sector is in managing climate risks

- ☐ Yes ☐ No
- ☐ Yes, but not before July 2024 ☐ Rather not say
- ☒ Not sure

Q4.36. Q4.36 What are the main obstacles or difficulties faced by you or your organisation in undertaking a climate change risk assessment? Select all that apply

Why are we asking? This helps us to understand the difficulties our licensees face to undertake a climate change risk assessment and understand the level of support you may need to identify and evaluate your risks

This question was not displayed to the respondent.

Q4.37. Q4.37 Would any of the resources listed assist you in undertaking your climate change risk assessment? Select all that apply

Additional support or guidance to identify and evaluate climate risks is also available in the resources section of this survey

Why are we asking? This assists us in understanding the level of support your sector may need to identify and evaluate your climate risks

This question was not displayed to the respondent.

Q4.38. Q4.38 Describe the additional support you think you will need

Why are we asking? This assists us in understanding what additional support you need to identify and evaluate your climate risks

This question was not displayed to the respondent.

Q4.39. Q4.39 How do you intend to manage risk to the surrounding environment from your operations if climate hazards were to impact your facility?

Why are we asking? This assists us in understanding how progressed your sector is in managing climate risks

- ☐ Not sure ☐ Don't think it's necessary for our site
- ☐ Engage a consultant when we have more resources ☒ Other (please specify)
- ☐ It is not something we have considered to date ☐ Rather not say

Murrumbateman landfill is currently capped and not operational - licence will be surrendered when final capping signoff is completed in October 2023

Q4.40. Q4.40 Would any of the resources listed assist you in undertaking your climate change risk assessment? Select all that apply

Additional support or guidance to identify and evaluate climate risks is also available in the resources section of this survey

Why are we asking? This assists us in understanding the level of support your sector may need to identify and evaluate your climate risks

- | | | |
|--|---|---|
| <input type="checkbox"/> Your organisation's risk management framework | <input checked="" type="checkbox"/> ISO/TS 14090 , 14091 , 14092 | <input type="checkbox"/> Need additional support than what is listed here |
| <input checked="" type="checkbox"/> Adapt NSW Climate Risk Ready Guide | <input checked="" type="checkbox"/> AS 5334: 2013 | <input type="checkbox"/> Other (please specify) <input type="text"/> |
| <input checked="" type="checkbox"/> Adapt NSW's Climate Change in my Region | <input type="checkbox"/> Internal Expert | <input type="checkbox"/> Not sure |
| <input checked="" type="checkbox"/> Guide to Climate Change Risk Assessment for NSW Local Government | <input checked="" type="checkbox"/> External Expert - consultant | <input type="checkbox"/> Rather not say |
| <input checked="" type="checkbox"/> ISO 31000 | <input type="checkbox"/> External Expert - please specify type (e.g. academic, industry organisation expert) <input type="text"/> | <input type="checkbox"/> No |

4.4 Climate Change Surveys

Attachment B EPA Licence 5895 - Murrumbateman Landfill

Assessment at your facility :

assists us in understanding what additional support the level of support you need to identify and evaluate your climate risks

This question was not displayed to the respondent.

Q4.42. Q4.42 You have said you manage climate risks at an organisational level. Did the organisational climate change risk assessment consider future climate forecasts relevant to the location of your facility? Select all that apply

Why are we asking? This assists us in understanding how progressed your sector is in managing its climate risks

This question was not displayed to the respondent.

Q4.43. Q4.43 As a result your organisation's climate change risk assessment, has your facility identified specific adaptation measures it could implement to manage the risk to the surrounding environment if climate hazards were to impact your facility?

Why are we asking? This assists us in understanding how progressed your sector is in managing its environmental risks

This question was not displayed to the respondent.

Q4.44. Q4.44 Have these adaptation measures been adopted into an Adaptation Plan (or similar) for your facility?

Why are we asking? This assists us in understanding how progressed your sector is in managing its climate risks, and helps us to understand what adaptation measures are available for your sector

This question was not displayed to the respondent.

Q4.45. Q4.45 Is the Adaptation Plan publicly available?

This question was not displayed to the respondent.

Q4.46. Q4.46 Upload the Adaptation Plan

This question was not displayed to the respondent.

Q4.47. Q4.47 What are the nature of the adaptation measures that have been identified at your facility to manage risk to the surrounding environment, and have these measures been implemented? Select all that apply.

Climate risk management/adaptation measures are those measures that reduce climate risks.

Why are we asking? This assists us in understanding in how progressed you are in implementing adaptation measures, and the nature of adaptation measures available for your sector

This question was not displayed to the respondent.

Q4.48. Q4.48 Have you undertaken or updated a climate change risk assessment for your facility in the last 3 years?

Why are we asking? This assists us in understanding how progressed your sector is in managing its climate risks

This question was not displayed to the respondent.

Q4.49. Q4.49 Did the climate change risk assessment identify a need to manage risk to the surrounding environment if climate hazards were to impact on your facility?

Why are we asking? This assists us in understanding how progressed your sector is in managing climate risks

This question was not displayed to the respondent.

Q4.50. Q4.50 How often is your climate change risk assessment reviewed?

Why are we asking? This assists us in understanding how progressed your sector is in managing climate risks

This question was not displayed to the respondent.

4.4 Climate Change Surveys

Attachment B EPA Licence 5895 - Murrumbateman Landfill

Select all that apply

More support or guidance to identify and evaluate climate risks is also available in the resources section of this survey
Why are we asking? This assists us in understanding what support is effective for your sector

This question was not displayed to the respondent.

Q4.52. Q4.52 Did the climate change risk assessment consider future climate forecasts relevant to the location of your facility? Select all that apply

Why are we asking? This assists us in understanding how progressed your sector is in managing its climate risks

This question was not displayed to the respondent.

Q4.53. Q4.53 Is the climate change risk assessment for this facility publicly available?

Why are we asking? Providing this can reduce duplicate reporting

This question was not displayed to the respondent.

Q4.54. Q4.54 Upload your climate change risk assessment

Why are we asking? Providing this can reduce duplicate reporting

This question was not displayed to the respondent.

Q4.55. Q4.55 Although adaptation planning is undertaken at the organisational level, what are the nature of your adaptation measures that have been identified at your facility to manage risk to the surrounding environment, and have these measures been implemented? Select all that apply. Adaptation measures are those measures that reduce climate risks.

Why are we asking? This assists us in understanding how progressed you are in implementing adaptation measures, and the nature of the adaptation measures that are available for your sector

This question was not displayed to the respondent.

Q4.56. Q4.56 Please provide any additional information that is relevant to describe how climate risks are managed (Optional)

PART 5: Peamble. PART 5: Assessment of Greenhouse Gas Emissions

You will now be asked how you assess your greenhouse gas emissions. If you are part of an organisation that has multiple licensed facilities in NSW, and this is not the first survey you have submitted (EPL of first survey submitted was provided in Q2.8), you may be able to skip organisational level questions and only be asked facility level questions. Questions in this part rely on some of your responses in Part 2. **It is important that you do not start this part until you have completed Part 2.**

Q5.1. Q5.1 Are greenhouse gas emissions assessed at the organisational level?

Greenhouse gas emissions are carbon dioxide, methane, nitrous oxide, ozone and some synthetic gases.

Scope 1 and Scope 2 emissions are defined in the glossary.

We are asking this so you may be able to skip some organisational questions

This question was not displayed to the respondent.

4.4 Climate Change Surveys

Attachment B EPA Licence 5895 - Murrumbateman Landfill

Regulator as a requirement of the National Greenhouse and Energy Reporting Scheme (NGERS); this assists us in understanding your reporting requirements, so we don't duplicate

This question was not displayed to the respondent.

Q5.3. Q5.3 Are you a designated large facility covered by the Safeguard Mechanism? (Scope 1 emissions > 100,000 tonnes CO₂-e per year)

This assists us in understanding your reporting and emissions management obligations

This question was not displayed to the respondent.

Q5.4. Q5.4 What percentage of your organisation's aggregated Scope 1 and Scope 2 emissions reported to the Clean Energy Regulator are due to emissions from your facility?

If you report your organisation's emissions as an aggregate, and the aggregate includes emissions from your facility, then knowing how much your facility contributes to the aggregate will help to identify your facility emissions. This will help us to develop sector profiles and guidance

This question was not displayed to the respondent.

Q5.4a. Q5.4a In the past three years, has your organisation reported annual quantified emissions to the Carbon Disclosure Project (CDP)?

Why are we asking? This will help avoid duplicate reporting

This question was not displayed to the respondent.

Q5.4b. Q5.4b Approximately what percent of annual emissions reported to the CDP are from your facility?

Why are we asking? If your organisation reports to the CDP as an aggregate, and the aggregate includes emissions from your facility, then knowing how much your facility contributes to the aggregate will help to identify your facility emissions. This also may help skip some questions in the survey

This question was not displayed to the respondent.

Q5.5. Q5.5 You have said that your organisation is responsible for assessing emissions. Do you know what percentage of your organisation's annual emissions are from your facility?

This assists us in understanding how progressed your sector is to assess greenhouse gas emissions, and will help us to develop sector profiles and guidance for your sector

This question was not displayed to the respondent.

Q5.6. Q5.6 Provide a range of your facility's total Scope 1 and total Scope 2 emissions (in tonnes of CO₂-e per year)

Why are we asking? This assists us in understanding the broad magnitude of emissions for your sector which will help us to develop sector profiles and guidance

This question was not displayed to the respondent.

Q5.7. Q5.7 What is your facility's major source of Scope 1 emissions? Select one or two

Why are we asking? This assists us in understanding the major emissions sources for your sector which will help us to develop sector profiles and guidance

This question was not displayed to the respondent.

Q5.8. Q5.8 Has your organisation assessed your facility's Scope 3 (upstream and downstream) emissions? (definition of Scope 3 emissions is in the glossary section of this survey.)

Why are we asking? This will help us ascertain whether our licensees are considering Scope 3 emissions, and in what sectors

This question was not displayed to the respondent.

Q5.9. Q5.9 What is your facility's major source of upstream Scope 3 emissions?

Why are we asking? To gain some level of understanding about the major sources of Scope 3 emissions for your sector

4.4 Climate Change Surveys

Attachment B EPA Licence 5895 - Murrumbateman Landfill

Q5.10. Q5.10 What is your facility's major source of downstream Scope 3 emissions?
Why are we asking? To gain some level of understanding about the major sources of Scope 3 emissions for your sector

This question was not displayed to the respondent.

Q5.11. Q5.11 Have you or your organisation undertaken any actions to assess greenhouse gas emissions at your facility?

Greenhouse gas emissions are carbon dioxide, methane, nitrous oxide, ozone and some synthetic gases.

Why are we asking? This assists us in understanding how progressed your sector is to assess greenhouse gas emissions. Also, if you haven't done anything to assess greenhouse gas emissions you may be able to skip some questions.

- ☒ Yes
- ☐ No
- ☐ Don't know

Q5.12. Q5.12 Are Scope 1 and Scope 2 emissions at your facility reported to the Clean Energy Regulator as required by the National Greenhouse and Energy Reporting Scheme (NGERS)? Scope 1 and Scope 2 emissions are defined in the glossary

Why are we asking? This assists us in understanding your reporting requirements, so we don't duplicate

- ☐ Yes (Provide facility name reported to NGERS)
- ☐ Yes, emissions are reported as an aggregate (provide name of controlling corporation)
- ☒ No

Q5.13. Q5.13 Are you a designated large facility covered by the Safeguard Mechanism? (Scope 1 emissions > 100,000 tonnes CO₂-e per year)

Why are we asking? This assists us in understanding your reporting and emissions management obligations

This question was not displayed to the respondent.

Q5.14.

Q5.14 Approximately what percent of your organisation's reported aggregated emissions are from your facility?

Why are we asking? If you report your corporate emissions as an aggregate, and the aggregate includes emissions from your facility, then knowing how much your facility contributes to the aggregate will help to identify your facility emissions and will help us to develop sector profiles and guidance. This may also help to skip some questions in the survey

This question was not displayed to the respondent.

Q5.15. Q5.15 In the past three years, have you or your organisation reported annual quantified emissions to the [Carbon Disclosure Project](#) (CDP)?

Why are we asking? This will help avoid duplicate reporting

- ☐ Yes
- ☒ No

Q5.16. Q5.16 Approximately what percent of annual Scope 1 and Scope 2 emissions reported to the CDP are from your facility?

Why are we asking? If your organisation reports to the CDP as an aggregate, and the aggregate includes emissions from your facility, then knowing how much your facility contributes to the aggregate will help to identify your facility emissions. This also may help skip some questions in the survey

This question was not displayed to the respondent.

4.4 Climate Change Surveys

Attachment B EPA Licence 5895 - Murrumbateman Landfill

- ☐ Yes
- ☒ No
- ☐ No, we are not part of a larger organisation

Q5.18. Q5.18 Approximately what percent of your organisation's reported emissions are from your facility?
Why are we asking? If your organisation reports as an aggregate, and the aggregate includes emissions from your facility, then knowing how much your facility contributes to the aggregate will help to identify your facility emissions and will help us to develop sector profiles and guidance. This may also help skip some questions in the survey

This question was not displayed to the respondent.

Q5.19. Q5.19 Are your quantified emissions publicly available, e.g. in a company report?
Why are we asking? This assists us to assess transparency of reporting. We also ask this so some questions in this survey can be skipped, thus minimising duplicative reporting

This question was not displayed to the respondent.

Q5.20. Q5.20 Upload your organisation's emissions report (or company publication that includes emissions data)
Providing may reduce duplicate reporting

This question was not displayed to the respondent.

Q5.21. Q5.21 Have you quantified your annual greenhouse gas emissions from operations at the facility any time over the last 3 years?
Why are we asking? This assists us in understanding reporting requirements of non-NGERS facilities as well as how progressed your sector is in assessing greenhouse gas emissions.

- ☐ Yes
- ☒ No

Q5.22. Q5.22 Are the quantified emissions publicly available, e.g. in a company report?
Why are we asking? This assists us to assess transparency of reporting. We also ask this so that some questions in this survey can be skipped, thus minimising duplicative reporting

This question was not displayed to the respondent.

Q5.23. Q5.23 Upload your facility's most recent greenhouse gas emissions data (or organisation's publication that includes this data)
Providing may reduce duplicate reporting

This question was not displayed to the respondent.

Q5.24. Q5.24 Provide a range of your facility's total Scope 1 and total Scope 2 emissions (in tonnes of CO₂-e per year)
Why are we asking? This assists us in understanding the broad magnitude of emissions for your sector

This question was not displayed to the respondent.

Q5.25. Q5.25 What is your facility's major source of Scope 1 emissions? Select one or two
Why are we asking? This assists us in understanding the major emissions sources for your sector, which will help us to develop sector profiles and guidance

This question was not displayed to the respondent.

4.4 Climate Change Surveys

Attachment B EPA Licence 5895 - Murrumbateman Landfill

missions for your facility: Select all that apply

Why are we asking? This will assist us in understanding the difficulties faced in assessing greenhouse gas emissions for your sector, and what additional support you may need

- ☐ Don't know how
- ☐ Greenhouse gas emissions are small and is not considered necessary
- ☐ Too complex and/or expensive
- ☒ Not enough resources
- ☐ Don't believe climate change is impacting or will impact the facility
- ☒ Not required to
- ☐ Other (please specify)
- ☐ Rather not say

Q5.27. Q5.27 Would you like guidance or support to assess your greenhouse gas emissions
This assists us in understanding what additional support your sector may need to assess your emissions

- ☒ Yes (please specify what sort of support)
- ☐ No

Q5.28. Q5.28 Do you know your facility's electricity usage over the reporting year? The reporting year was provided in Q2.6.
This assists us to quantify emissions for those facilities that have not quantified and are not subject to other reporting requirements such as NGERs. This will help us develop sector profiles and guidance.

- ☒ Yes
- ☐ No, we don't know have records
- ☐ No, it is a leased property and the landlord has this information
- ☐ Rather not say

Q5.29. Q5.29 Provide your facility's annual electricity usage in the reporting year
Why are we asking? This assists us to quantify emissions for those facilities that have not quantified and are not subject to other reporting requirements such as NGERs. This will help us to develop sector profiles and guidance

	kWh	MWh	GWh	Other
Annual Electricity Usage (amount) <input type="text" value="1,706"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Q5.30. Q5.30 Provide the units of your electricity usage
This is asked if you choose to report in "other" units in Q5.29

This question was not displayed to the respondent.

Q5.31. Q5.31 Do you know the annual fuel usage of mobile equipment at your facility in the reporting year provided in Q2.6?
This assists us to quantify emissions for those facilities that have not quantified and are not subject to other reporting requirements such as NGERs. This will help us to develop sector profiles and guidance

- ☐ Yes
- ☒ No, we don't have mobile equipment
- ☐ No, we don't know
- ☐ Rather not say

Q5.32. Q5.32 Provide the fuel usage of your mobile equipment at your facility in the reporting year
Why are we asking? This assists us to quantify emissions for those facilities that have not quantified and are not subject to other

4.4 Climate Change Surveys

Attachment B EPA Licence 5895 - Murrumbateman Landfill

Q5.33. Q5.33 Provide the units for fuel usage of your mobile equipment
his is asked if you choose to report in "other" units in Q5.32

This question was not displayed to the respondent.

Q5.34. Q5.34 Do you know your facility's fuel usage for stationary equipment for the reporting year (reporting year provided in Q2.6)?

Why are we asking? This assists us to quantify emissions for those facilities that have not quantified and are not subject to other reporting requirements such as NGERs. This will help us to develop sector profiles and guidance

- ☐ Yes
- ☒ No, we don't have stationary equipment that combusts fuel
- ☐ No, we don't know
- ☐ Rather not say

Q5.35. Q5.35 Provide the amount of fuel used in your stationary industrial processes at your facility in the reporting year

Why are we asking? This assists us to quantify emissions for those facilities that have not quantified and are not subject to other reporting requirements such as NGERs. This will help us to develop sector profiles and guidance

This question was not displayed to the respondent.

Q5.36. Q5.36 Provide the units of your stationary equipment fuel usage
his is asked if you choose to report in "other" units in Q5.35

This question was not displayed to the respondent.

Q5.37. Q5.37 Provide a range of your facility's Scope 1 and Scope 2 emissions (in tonnes of CO₂-e per year)

Why are we asking? This assists us in understanding the broad magnitude of emissions for your sector, which will help us to develop sector profiles and guidance

This question was not displayed to the respondent.

Q5.38. Q5.38 What is your facility's major source of Scope 1 emissions? Select one or two

Why are we asking? This assists us in understanding the major emissions sources for your sector, which will help us to develop sector profiles and guidance

This question was not displayed to the respondent.

Q5.39. Q5.39 Who quantified your Scope 1 and 2 emissions?

Why are we asking? This assists us in understanding how sectors quantify their emissions, and what support they may need

This question was not displayed to the respondent.

Q5.40. Q5.40 How were your Scope 1 emissions quantified? (Select all that apply)

Why are we asking? This assists us in understanding how sectors quantify their emissions

This question was not displayed to the respondent.

Q5.41. Q5.41 When you used emission factors to calculate emissions, specify what annual base data you used. Select all that apply

his assists us in understanding how sectors quantify their emissions

This question was not displayed to the respondent.

4.4 Climate Change Surveys

Attachment B EPA Licence 5895 - Murrumbateman Landfill

quantify your emissions, e.g. as part of the NSW [High Greenhouse Gas Emissions Program](#).
Why are we asking? This assists us in understanding the effectiveness of support that is available for your sector

This question was not displayed to the respondent.

Q5.43. Q5.43 Have you or your organisation assessed your Scope 3 (upstream and downstream) emissions?
The definition of Scope 3 emissions is in the glossary section of this survey.

Why are we asking? We are asking this to ascertain how many and to what extent of our licensees are considering Scope 3 emissions

This question was not displayed to the respondent.

Q5.44. Q5.44 What is your major source of upstream Scope 3 emissions?

Why are we asking? To gain some level of understanding about what are the major scope 3 emission sources for your sector

This question was not displayed to the respondent.

Q5.45. Q5.45 What is your major source of downstream Scope 3 emissions?

Why are we asking? To gain some level of understanding about what are the major scope 3 emission sources for your sector

This question was not displayed to the respondent.

Q5.46. Please provide any additional information about how greenhouse gas emissions are assessed (optional)

Q5.47. Q5.47 Do you know your facility's electricity usage over the reporting year? The reporting year was provided in Q2.6.

This assists us to quantify emissions for those facilities that have not quantified and are not subject to other reporting requirements such as NGERs. This will help us develop sector profiles and guidance.

This question was not displayed to the respondent.

Q5.48. Q5.48 Provide your facility's annual electricity usage in the reporting year

Why are we asking? This assists us to quantify emissions for those facilities that have not quantified and are not subject to other reporting requirements such as NGERs. This will help us to develop sector profiles and guidance

This question was not displayed to the respondent.

Q5.49. Q5.49 Provide the units of your electricity usage

This is asked if you choose to report in "other" units in Q5.48

This question was not displayed to the respondent.

Q5.50. Q5.50 Do you know the annual fuel usage of mobile equipment at your facility in the reporting year provided in Q2.6?

This assists us to quantify emissions for those facilities that have not quantified and are not subject to other reporting requirements such as NGERs. This will help us to develop sector profiles and guidance

This question was not displayed to the respondent.

4.4 Climate Change Surveys

Attachment B EPA Licence 5895 - Murrumbateman Landfill

Why are we asking? This assists us to quantify emissions for those facilities that have not quantified and are not subject to other reporting requirements such as NGERs. This will help us to develop sector profiles and guidance

This question was not displayed to the respondent.

Q5.52. Q5.52 Provide the units for fuel usage of your mobile equipment
This is asked if you choose to report in "other" units in Q5.51

This question was not displayed to the respondent.

Q5.53. Q5.53 Do you know your facility's fuel usage for stationary equipment for the reporting year (reporting year provided in Q2.6)?

Why are we asking? This assists us to quantify emissions for those facilities that have not quantified and are not subject to other reporting requirements such as NGERs. This will help us to develop sector profiles and guidance

This question was not displayed to the respondent.

Q5.54. Q5.54 Provide the amount of fuel used in your stationary industrial processes at your facility in the reporting year

Why are we asking? This assists us to quantify emissions for those facilities that have not quantified and are not subject to other reporting requirements such as NGERs. This will help us to develop sector profiles and guidance

This question was not displayed to the respondent.

Q5.55. Q5.55 Provide the units of your stationary equipment fuel usage
This is asked if you choose to report in "other" units in Q5.54

This question was not displayed to the respondent.

228. PART 6: Management of Greenhouse Gas Emissions

This is the beginning of the emissions reduction section. Questions in this part rely on some of your responses in Parts 2 and 5. **It is important that you do not start this part until you have completed Parts 2 and 5.**

Q6.1. Q6.1 Does your facility have a greenhouse gas management plan that was required through the planning approvals process?

Why are we asking? This assists us in understanding the requirements you may already have to manage your greenhouse gas emissions

☐ Yes

☒ No

Q6.2. Q6.2 Is the greenhouse gas management plan publicly available?

This assists us to assess transparency of reporting

This question was not displayed to the respondent.

Q6.3. Q6.3 Upload the greenhouse gas management plan

This assists us to assess transparency of reporting

This question was not displayed to the respondent.

Q6.4. Q6.4 Is the greenhouse gas management plan regularly reviewed and updated?

Why are we asking? This assists us in understanding how progressed your sector is in managing greenhouse gas emissions

4.4 Climate Change Surveys

Attachment B EPA Licence 5895 - Murrumbateman Landfill

boilers, kilns, furnaces) to comply with the standards of concentration listed in [Schedule 4 of the Protection of the Environment Operations \(Clean Air Regulation\) 2022](#)?

Note: Plant and activities that commenced operation between 1 July 1979 and 1 August 1997 will be moved to the stricter air emission standards of Group 5 by 1 November 2027 and Group 6 by 1 November 2030.

Why are we asking: This assists us to understand what other regulatory obligations you already have, and raises awareness about other regulatory requirements

- ☐ Yes
- ☒ No
- ☐ Don't know

Q6.6 Have you considered upgrading your items of plant to reduce your greenhouse gas emissions, as well as help to meet the Clean Air Regulation's standards of concentration? For example, upgrading to an electric boiler will reduce your greenhouse gas emissions and help you to meet the Clean Air Regulation's standards of concentration.

Why are we asking this? This raises awareness that a co-benefit of meeting your requirements under the Clean Air Regulation can be managing your greenhouse gas emissions, and vice versa

This question was not displayed to the respondent.

Q6.7 For the items of plant that won't be upgraded, specify the item of plant(s) and explain why. For multiple items of plant, separate by a semicolon. For example: boiler - too expensive; furnace: not possible with available technology. "Don't know yet" or "Rather not say" are acceptable responses

Why are we asking? This assists us in understanding what obstacles or difficulties you face to reduce emissions from items of plant

This question was not displayed to the respondent.

Q6.7a. You will now be asked about greenhouse gas emissions reductions. If you are part of an organisation that has multiple facilities in NSW, and this is not the first survey you have submitted (EPL of first survey submitted was provided in Q2.8), you may be able to skip organisational level questions and only be asked facility level questions.

Q6.8 Are greenhouse gas emission reductions managed at the organisational level?

We are asking this so you may be able to skip some organisational questions

This question was not displayed to the respondent.

Q6.9 You have said that emissions reductions are managed at an organisational level. Does your organisation have an emissions reduction plan that applies to this facility?

Why are we asking? This assists us in understanding how progressed your sector is in managing greenhouse gas emissions

This question was not displayed to the respondent.

Q6.10 Of your identified emissions reductions opportunities, specify where you are in the implementation process for this facility (Select all that apply)

Why are we asking? This assists us in understanding how progressed your sector is in implementing emissions mitigation opportunities for your sector. This can inform future guidance

This question was not displayed to the respondent.

Q6.11 Although your organisation doesn't have an emissions reduction plan that applies at this facility, have you undertaken any actions, or plan to take any actions, to reduce emissions at your facility? Select all that apply

Why are we asking? This assists us to know what emissions reductions have been undertaken in your sector

This question was not displayed to the respondent.

Q6.12 Has your organisation identified actions at your facility to reduce Scope 3 emissions? Select all

Q6.14. Q6.14 Do you or your organisation have an emissions reduction plan that applies to your facility?
Why are we asking? This assists us in understanding how progressed your sector is in managing greenhouse gas emissions

- ☐ Yes
☒ No

Q6.15. Q6.15 Is the emissions reduction plan publicly available?

Why are we asking? This assists us to assess transparency of reporting. We also ask this so some questions in this survey can be skipped, thus minimising duplicative reporting

This question was not displayed to the respondent.

Q6.16. Q6.16 Upload your emissions reduction plan
Providing will reduce duplicate reporting

This question was not displayed to the respondent.

Q6.17. Q6.17 Does your emissions reduction plan have quantifiable targets?

Why are we asking? This assists us in understanding how progressed your sector is in setting emissions reduction targets. This can inform future guidance

This question was not displayed to the respondent.

Q6.18. Q6.18 In your emissions reduction plan, where do you expect your major emissions reduction opportunities to come from? (Select all that apply)

Why are we asking? This assists us in understanding emissions mitigation opportunities for your sector which can inform future guidance

This question was not displayed to the respondent.

Q6.19. Q6.19 Of your identified emissions reduction opportunities, specify where you are in the implementation process for this facility (Select all that apply)

Why are we asking? This assists us in understanding how progressed your sector is in implementing emissions mitigation opportunities. This can inform future guidance

This question was not displayed to the respondent.

Q6.20. Q6.20 Does the emissions reduction plan include quantifiable targets?

Why are we asking? This assists us in understanding how progressed your sector is in setting emissions reduction targets. This can inform future guidance

This question was not displayed to the respondent.

Q6.21. Q6.21 Have your targets been validated by the [Science Based Targets Initiative \(SBTi\)](#)?

Why are we asking? This assists us to assess how progressed your sector is in setting targets

This question was not displayed to the respondent.

Q6.22. Q6.22 Provide your targets. Select all that apply

Why are we asking? This assists us in understanding how progressed your sector is in setting emissions reduction targets. This can inform future guidance

This question was not displayed to the respondent.

Q6.23. Q6.23 How important do you think carbon offsets are to achieve your emissions reduction targets?

Q6.24. Q6.24 What is your reason for purchasing carbon offsets? Select all that apply
Why are we asking? Assists us in understanding why sectors are relying on carbon offsets to meet targets

This question was not displayed to the respondent.

Q6.25. Q6.25 Are you or your organisation planning on developing quantifiable greenhouse gas emissions reductions targets?
Why are we asking? This assists us in understanding how progressed your sector is in setting emissions reduction targets. This can inform future guidance

This question was not displayed to the respondent.

Q6.26. Q6.26 Do you intend to have your targets validated by the [Science Based Targets Initiative \(SBTi\)](#)?
Why are we asking? This assists us to assess how progressed your sector is in setting targets

This question was not displayed to the respondent.

Q6.27. Q6.27 When do you plan to have targets developed?
Why are we asking? This assists us in understanding how progressed your sector is in setting emissions reduction targets. This can inform future guidance

This question was not displayed to the respondent.

Q6.28. Q6.28 What are the main obstacles or difficulties that prevent you from developing quantifiable greenhouse gas emissions reduction targets. Select all that apply
Why are we asking? This assists us in understanding what the difficulties may be to set greenhouse gas emission reduction targets for our sector

This question was not displayed to the respondent.

Q6.29. Q6.29 Do you currently have a project registered under the Commonwealth's [Australian Carbon Credit Unit \(ACCU\) Scheme](#) for emissions abatement at your facility?
Note the ACCU scheme was formerly known as the emissions reduction fund (ERF).
Why we are asking: This assists us to develop a regulatory approach that complements (and does not duplicate) established reporting and other requirements our licensees are already subject to, where possible

This question was not displayed to the respondent.

Q6.30. Q6.30 Do you intend to register a new project(s) under the Commonwealth ACCU Scheme at your facility?
Assists us to develop our regulatory approach, in a way that complements (and does not duplicate) established reporting and other requirements our licensees are already subject to, where possible

This question was not displayed to the respondent.

Q6.31. Q6.31 List the type of projects(s) you have registered in the [ACCU Scheme](#) project (current and future).
Why are we asking? This assists us to further develop our regulatory approach, in a way that complements (and does not duplicate) established reporting and other requirements you may already be subject to, where possible

This question was not displayed to the respondent.

Q6.32. Q6.32 Are you making use of, or plan to make use of, any of the NSW government programs, grants and schemes to meet your planned emissions reductions? Select all that apply
Why are we asking? This helps us to understand what support our licensees find or may find useful, and informs our licensees about what support is available

This question was not displayed to the respondent.

4.4 Climate Change Surveys

Attachment B EPA Licence 5895 - Murrumbateman Landfill

Plans and schemes to meet your planned emissions reductions? Select all that apply
Why are we asking? This helps us to understand what support our licensees are using

This question was not displayed to the respondent.

Q6.34. Q6.34 Are you making use, or plan to make use of, any NSW Government training courses, guides and services to meet your planned emissions reductions? Select all that apply
Why are we asking? This assists us in understanding what support our licensees find useful, and informs our licensees about what support is available

This question was not displayed to the respondent.

Q6.35. Q6.35 Although you don't have an emissions reduction plan, have you undertaken, or planned to undertake, any actions to reduce emissions at your facility? Select all that apply
Why are we asking? This assists us to understand what emissions reductions have been undertaken or planned in your sector

	Implemented	Planned
Increase energy efficiency	<input type="checkbox"/>	<input type="checkbox"/>
Purchase renewable electricity	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Process optimisation (not energy efficiency)- give details <input type="text"/>	<input type="checkbox"/>	<input type="checkbox"/>
Generate renewable electricity on-site (please give details) <input type="text"/>	<input type="checkbox"/>	<input type="checkbox"/>
Reduce methane released onsite to generate electricity	<input type="checkbox"/>	<input type="checkbox"/>
Methane capture and flaring	<input type="checkbox"/>	<input type="checkbox"/>
Switch to electric vehicles	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Switch to electric plant, e.g. boilers, ovens, kilns	<input type="checkbox"/>	<input type="checkbox"/>
Switch to a greener fuel (please specify) <input type="text"/>	<input type="checkbox"/>	<input type="checkbox"/>
Hydrogen injection	<input type="checkbox"/>	<input type="checkbox"/>
Install covered anaerobic ponds	<input type="checkbox"/>	<input type="checkbox"/>
Reduce synthetic fertiliser use	<input type="checkbox"/>	<input type="checkbox"/>
Plant trees on-site	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Other (please specify) <input type="text"/>	<input type="checkbox"/>	<input type="checkbox"/>
Purchase carbon offsets	<input type="checkbox"/>	<input type="checkbox"/>
Don't know	<input type="checkbox"/>	<input type="checkbox"/>
Other	<input type="checkbox"/>	<input type="checkbox"/>
Other not say	<input type="checkbox"/>	<input type="checkbox"/>

Q6.36. Q6.36 Are you or your organisation, planning, or in the process of, developing an emissions reduction plan that will apply to your facility?
Why are we asking? This assists us in understanding how progressed your sector is in developing emissions reduction plans

- ☐ Yes
☐ No
☒ Don't know
☐ Rather not say

Q6.37. Q6.37 Will your emissions reduction plan have quantifiable targets?

Q6.38. Q6.38 What are the main obstacles or difficulties that prevent you from developing quantifiable greenhouse gas emissions reduction targets? Select all that apply
Why are we asking? This assists us in understanding what the difficulties may be to set greenhouse gas emission reduction targets for our sector

This question was not displayed to the respondent.

Q6.39. Q6.39 Do you plan to align your emissions reduction plan and targets with an existing standard, such as the [Science-based Targets Initiative](#) or [International Organization for Standardization Net Zero Guidelines](#)? Select all that apply
Why are we asking? This assists us in understanding how progressed your sector is in developing greenhouse gas emissions targets

This question was not displayed to the respondent.

Q6.40. Q6.40 Will your emissions reductions plan include purchasing carbon offsets? Select all that apply
Why are we asking? This assists us in understanding what sectors are relying on carbon offsets to meet their targets

This question was not displayed to the respondent.

Q6.41. Q6.41 How important do you think carbon offsets will be to achieve your emissions reduction targets? Select all that apply
Why are we asking? This assists us in understanding to what extent sectors are relying on carbon offsets to meet their targets

This question was not displayed to the respondent.

Q6.42. Q6.42 What is your reason for purchasing carbon offsets? Select all that apply
Why are we asking? This assists us in understanding why sectors are relying on carbon offsets to meet targets

This question was not displayed to the respondent.

Q6.43. Q6.43 What are the main barriers or obstacles that are preventing you or your organisation from developing an emissions reduction plan? Select all that apply
Why are we asking? This assists us in understanding the challenges our licensees face to manage their emissions

This question was not displayed to the respondent.

Q6.44. Q6.44 Can any of the following NSW government programs, grants and schemes assist you or your organisation to develop an emissions reduction plan? Select all that apply
Why are we asking? This informs our licensees about what support is available

This question was not displayed to the respondent.

Q6.45. Q6.45 Can any of the following Commonwealth government programs, grants and schemes assist you or your organisation to develop an emissions reduction plan? Select all that apply
Why are we asking? This informs our licensees about what support is available

This question was not displayed to the respondent.

Q6.46. Q6.46 Can any of the following NSW Government training courses, guides and services assist you or your organisation to develop an emissions reductions plan? Select all that apply
Why are we asking? This informs our licensees about what support is available

This question was not displayed to the respondent.

Q6.47. Q6.47 Have you or your organisation identified actions to reduce Scope 3 emissions? Select all that apply
Why are we asking this to gain some level of understanding about what your sector is doing to reduce scope 3 emissions

This question was not displayed to the respondent.

4.4 Climate Change Surveys

Attachment B EPA Licence 5895 - Murrumbateman Landfill

Q6.49

We are asking this to gain some level of understanding about what your sector is doing to reduce scope 3 emissions

This question was not displayed to the respondent.

Q6.49. Q6.49 Have you or your organisation identified actions to reduce Scope 3 emissions? Select all that apply

We are asking this to gain some level of understanding about what your sector is doing to reduce scope 3 emissions

This question was not displayed to the respondent.

Q6.50. Q6.50 Have you or your organisation identified actions to reduce Scope 3 emissions? Select all that apply

We are asking this to gain some level of understanding about what your sector is doing to reduce scope 3 emissions

This question was not displayed to the respondent.

Q6.51. Q6.51 Please provide any additional information about how you manage your greenhouse gas emissions (optional)

Q6.52. Q6.52 Although you don't manage greenhouse gas emissions reductions at any of your facilities, have you undertaken, or planned to undertake, any actions to reduce emissions at your facility? Select all that apply

Why are we asking? This assists us to understand what emissions reductions have been undertaken or planned in your sector

This question was not displayed to the respondent.

Q7.1. PART 7: Additional Information (Optional)

Q7.1 Give any other information/comment that you believe is important or useful for the EPA to know about our facility

Murrumbateman landfill is not closed and capped no landfill at site since 2015 when landfill closed the landfill licence was acceptance of less than 5000t per year

Q7.2. Q7.2 Attach any useful plans (e.g. emergency management plans) if you think they are also useful to how how you are managing climate risks and/or emissions

4.4 Climate Change Surveys

Attachment B EPA Licence 5895 - Murrumbateman Landfill

This question was not displayed to the respondent.

7.2b. Upload file

This question was not displayed to the respondent.

7.2c. Do you have another plan to upload?

This question was not displayed to the respondent.

7.2d. Upload file

This question was not displayed to the respondent.

7.3. Q7.3 What support would your organisation or company require to improve its management of greenhouse gas emissions, and/or management of climate risks? Select all that apply
his informs us about what additional support and guidance is required

- | | | |
|--|---|---|
| <input checked="" type="checkbox"/> More detailed guidance that is directly related to my sector | <input type="checkbox"/> Additional support to quantify Scope 1 and 2 emissions | <input type="checkbox"/> Additional support to decarbonise |
| <input type="checkbox"/> Technical support to develop metrics (risk and emissions) | <input type="checkbox"/> Guidance on how to calculate Scope 3 emissions | <input type="checkbox"/> Not sure |
| <input checked="" type="checkbox"/> Case studies of leading or best practice | <input checked="" type="checkbox"/> Additional support to identify emissions reduction measures for my sector | <input type="checkbox"/> Other (please specify)
<input type="text"/> |
| <input checked="" type="checkbox"/> Behaviour change management support | <input type="checkbox"/> Additional support to identify adaptation measures for my sector | <input type="checkbox"/> None |
| <input type="checkbox"/> Online advice services | | |

7.4. Q7.4 Would you be interested if the EPA contacted you to develop a case study based on your adaptation actions?

his will help us to develop effective CCMAP guidance for adaptation in your sector

This question was not displayed to the respondent.

7.5. Q7.5 Would you be interested if the EPA contacted you to develop a case study based on your greenhouse gas emissions reduction actions?

his will help us to develop effective CCMAP guidance for greenhouse gas emissions reductions in your sector

This question was not displayed to the respondent.

7.6. Q7.6 Are you ready now to proceed to sign off and submit? (Once you proceed to the sign-off section you cannot make changes)

- ☒ Yes
☐ No

7.7. Check your responses by clicking on the relevant parts listed in the Table of Contents (Do not click the forward arrow unless you're ready to sign-off and submit)

This question was not displayed to the respondent.

242. PART 8: Signoff and Submission

andatory and need to be completed before submitting.

	Completed
art 1	<input checked="" type="checkbox"/>
art 2	<input checked="" type="checkbox"/>
art 3	<input checked="" type="checkbox"/>
art 4	<input checked="" type="checkbox"/>
art 5	<input checked="" type="checkbox"/>
art 6	<input checked="" type="checkbox"/>

8.2.

Enter the name of the person signing off on the survey submission

Note: You will need to get signoff from the Director or proprietor of your organisation, or someone with permission to sign off on your organisation's behalf, before submitting.

Chris Berry

8.3. Enter the position of the person signing off (someone with permission to sign off on your organisation's behalf)

Chief Executive Officer

8.4. Sign the survey here to submit

Signing below acknowledges that you have permission to sign off on your organisation's behalf.

Chris Berry


×

clear

Location Data

Location: [\(-34.8381, 148.909\)](#)

Source: GeolIP Estimation





In partnership with the Office of Environment and Climate Change

2023 Climate Change Survey

~please use this document to assist you in completing the live survey, don't respond on this document~

S1. INTRODUCTION TO THE SURVEY

Since 2015, Local Government have been invited to complete the Local Government Climate Change Survey to help understand Local Government's readiness to respond to the impacts of climate change. The survey is delivered by Local Government NSW (LGNSW) in partnership with the NSW Office of Energy and Climate Change (OECC) approximately every 3 years.

This survey builds on [previous surveys](#) in 2015 and 2018 and has been updated to capture new objectives such as the *Net Zero Plan Stage 1: 2020-2030*.

Why complete the survey?

Your feedback will be used to inform the design and delivery of climate adaptation and mitigation, resources, strategies, and funding opportunities to support Local Government and their community.

For example, results from the previous Climate Change surveys have underpinned the development of the [Increasing Resilience to Climate Change Grant Funding](#) which provided \$3.9m in funding to Local Government.

The results of the survey will be shared later this year and existing and future packages of support available to Local Government will be highlighted.

Completing the Local Government climate change survey

Please note that your survey link has been generated specifically for your council to allow the completing officer to leave and return to the survey as required. The survey will take approximately 45 minutes to complete.

As with previous surveys, collecting information may require input from different parts of your organisation, depending on how 'climate risk' and emissions reduction are managed. If this is the case, you may need a 'champion' to chaperone the survey around.

Themes include: HR, resourcing, corporate reporting and monitoring, net zero targets, operations, and community.





We understand that completing this survey requires time, planning and that more than one department or team may be involved. With this in mind, we are asking Councils to complete the survey by Monday 25th September 2023.

Thank you for your time. Your feedback will help to shape and inform future climate change mitigation and adaptation programs in your local government area and across NSW. If you have any questions or concerns about the survey, please contact Melissa Sawatske, Senior Policy Officer – LGNSW (Melissa.Sawatske@lgnsw.org.au), or Ciska White, Project Officer – Climate Adaptation, NSW OECC (Ciska.White@environment.nsw.gov.au)

We look forward to receiving your responses.

Kind regards,

Damian Thomas

Aaron Coutts-Smith

Local Government NSW,
Adaptation,
Director – Advocacy

Acting Director, Climate
Land Sector Opportunities

Click Next to continue

Q1. ORGANISATION TYPE

Do you work for...

SINGLE RESPONSE

- ☒ 1. A Council
- ☐ 2. A Joint Organisation (JO)
- ☐ 3. A Regional Organisation of Councils (RoC)

Q2. ORGANISATION NAME

Please type the name of the council you are completing this survey for below

[TEXT BOX] Yass Valley Council

Q3. POSITION LEVEL

Which of the following best describes your position with the organisation?

SINGLE RESPONSE

- ☐ 1. Mayor/ Councillor
- ☒ 2. General Manager/Chief Executive Officer/ Director
- ☐ 3. Manager
- ☐ 4. Team Leader/Supervisor/Co-ordinator



- 5. Officer
- 6. Other [SPECIFY]



Q4. FUNCTIONAL AREA

Which of the functional areas listed below are you mainly involved in? Select all of those you are mainly involved in

MULTIPLE RESPONSE

1. Asset and property management
2. Recreation facilities
3. Planning and development
4. Environment and natural resource management
5. Community services
6. Waste management
7. Economic and business development
8. Corporate services
9. Water and sewerage
10. Engineering services and infrastructure
11. Emergency management

☒ 12. Other [PLEASE SPECIFY]

Oversight of all the above functions

Climate Change Impacts

Q5INTRO.

The following questions ask for your feedback on climate change and weather event impacts on your local government organisation and community.

Please click next to continue

NEXT



Climate Change Adaptation

Q5. IMPACT ON ORGANISATION

How much impact are events intensified by climate change (such as storms, bushfires, heatwaves, droughts and floods, etc) currently having on your **council's operations and management?**

DISPLAY Q5 AND Q6 ON SAME SCREEN
SINGLE RESPONSE

1. No impact, and not in the future
2. No impact, but will in the future
3. A small impact
4. A fair amount of impact
- ☒ 5. A great deal of impact
6. Not sure

Q6. IMPACT ON COMMUNITY

How much impact are events intensified by climate change (such as storms, bushfires, heatwaves, droughts and floods, etc) currently having on your **local government area community?**

SINGLE RESPONSE

1. No impact, and not in the future
2. No impact, but will in the future
3. A small impact
4. A fair amount of impact
- ☒ 5. A great deal of impact
6. Not sure



Q7. EVENT TYPE IMPACTS

To what extent have these events impacted your organisation's operations, assets, infrastructure and/or services in the past three years?

DISPLAY AS A GRID

- | | |
|---|--|
| 5 | 1. Drought (lack of or restriction of water) |
| 2 | 2. Bushfire (fires, air pollution) |
| 4 | 3. Flooding (riverine, flash, inundation) |
| 4 | 4. Thunderstorms (heavy rain, hail, lightning, large seas) |
| 2 | 5. Dust storms (strong winds, dust) |
| 1 | 6. Sea level rise (sea water inundation, erosion) |
| 3 | 7. Extreme heat (limitations due to extremely high temperatures) |
| 6 | 8. Extreme cold (limitations due to extremely low temperatures) |

- | | |
|---|--------------------------------------|
| | 1. No impact, and not in the future |
| 2 | 2. No impact, but will in the future |
| 3 | 3. A small impact |
| 4 | 4. A fair amount of impact |
| 5 | 5. A great deal of impact |
| 6 | 6. Not sure |



Q8. IMPACT OF TRANSITION PROCESSES

To what extent have each of the following impacted your Local Government Area or Region over the past three years?

DISPLAY AS A GRID

- 2 1. Business and Investor demand for climate action
 - 4 2. State and federal government net zero commitments
 - 3 3. Community and local business support for transition to net zero
 - 3 4. Opportunities of the low carbon economy (investment in clean energy, better air quality)
 - 3 5. Access to insurance and finance for climate change-related risks and emissions intensive activities
 - 6 6. Council liability for management of climate change-related risks
-
- 1. No impact, and not in the future
 - 2. No impact, but will in the future
 - 3. A small impact
 - 4. A fair amount of impact
 - 5. A great deal of impact
 - 6. Not sure



Governance

Q9. PLANS INCLUDING CLIMATE CHANGE ACTIVITIES

For each of your local government plans, please indicate if it includes ADAPTATION activities (preparing for the impacts of climate change) and/or climate change MITIGATION activities (reducing greenhouse gas emissions)?

- 2 1. Community Strategic Plan
- 2 2. Delivery Program
- 2 3. Operational Plan
- 4 4. Local Strategic Planning Statements
- 4 5. Local Environment Plan
- 4 6. Development Control Plan
- 1 7. Regional Priority (JO or RoC) Plan

SINGLE RESPONSE

- 1. Only adaptation activities
- 2. Only mitigation activities
- 3. Both adaptation AND mitigation activities
- 4. Neither included [EXCLUSIVE]
- 5. Don't know [EXCLUSIVE]

Q10. PRIORITY OF CLIMATE CHANGE ADAPTATION

To what extent is climate change ADAPTATION (preparing for the impacts of climate change) a priority for your local government organisation?

- 1. High priority
- 2. Medium priority
- 3. Low priority
- 4. Not a priority
- 5. Not sure



Q11. PRIORITY OF CLIMATE CHANGE MITIGATION

To what extent is climate change MITIGATION (reducing greenhouse gas emissions) a priority for your local government organisation?

1. High priority
- ☒ 2. Medium priority
3. Low priority
4. Not a priority
5. Not sure

Q12. RESOURCES ALLOCATED

Has your organisation allocated resources to plan for and respond to climate change?

Please select which of the following statements are true for your organisation's involvement (if any) in ADAPTATION, and for its involvement (if any) in MITIGATION.

MULTIPLE RESPONSE

DISPLAY AS A GRID WITH TWO COLUMNS

- ☒ 1. For adaptation (preparing for the impacts of climate change)
 - ☒ 2. For mitigation (reducing greenhouse gas emissions)
-
1. Part of one person's role
 - ☒ 2. A dedicated full-time role
 - ☒ 3. Responsibility is shared across several individuals within council
 - ☒ 4. Has a dedicated budget allocation for actions
 - ☒ 5. Only sources grant funds
 - ☒ 6. Responsibility of an internal committee
 - ☒ 7. Responsibility of an external committee
 - ☒ 8. None of these [EXCLUSIVE]



Q13. CLIMATE CHANGE ACTION PLANS & POLICIES

Does your council have any of the following climate change actions, plans or policies? Please select all that apply

MULTIPLE RESPONSE

- ☒ 1. Environmental/Sustainability Action Plan or Strategy with climate change targets or actions embedded
- ☐ 2. Energy Reduction/Efficiency Plan
- ☐ 3. Carbon Emissions Reduction Plan
- ☒ 4. Climate Change Risk Assessment
- ☐ 5. Climate Change Adaptation Plan
- ☐ 6. Electric Vehicles Strategy
- ☐ 7. Renewable Energy Plan
- ☐ 8. Resilience Plan
- ☐ 9. A clearly defined policy or framework for assessing and treating climate-related risks and opportunities across council
- ☒ 10. Other policies, plans or actions [PLEASE SPECIFY] *CR50 Resilience Report*
- ☐ 11. None of these [EXCLUSIVE]



Risk and Adaptation

Q14. IDENTIFY, ANALYSE AND EVALUATE

Is each of the statements below true, partly true, or not true for your organisation?

DISPLAY AS A GRID. USE TOOLTIP (HOVER) ON STATEMENT 3.

- 2 1. Our organisation has a climate change risk register
- 2 2. We assess climate risks for specific assets or major projects of the organisation
- 3 3. Climate risks have been assessed using the organisation's own existing enterprise risk management framework (as compared with consultant provided risk tables)
- 3 4. Detailed information regarding impacts (financial, social, environmental, etc.) of priority risks have been developed
- 3 5. Adaptation planning considers potential transition risks (associated with the move to a low carbon economy)
- 3 6. Adaptation planning considers risks associated with a changing climate for the community
- 3 7. Climate liability risks have been added to the enterprise risk assessment register and action plans

- 1. True
- 2. Partly true
- 3. Not true
- 4. Don't know



Q15. TREAT THE RISKS

Is each of the statements below true, partly true, or not true for your organisation?

DISPLAY AS A GRID

- | | |
|---|--|
| 1 | 1. Some existing controls exist to manage response to natural hazards (e.g. LEMO, emergency management procedures, business continuity plans) |
| 2 | 2. Risk owners have been identified to take responsibility for specific risks and adaptation actions |
| 3 | 3. Roles and responsibilities for implementation of actions to address climate risks have been clearly defined and incorporated in relevant job descriptions and the performance management system |
| 3 | 4. Adaptation actions have been identified in consultation with relevant external stakeholders, noting the opportunities for interdependent solutions |
| 3 | 5. The cost of some adaptation actions has been calculated |
| 2 | 6. Joint actions to address climate risk with internal and/or external partners have been co-designed and implemented |
| 3 | 7. The cost of implementing climate adaptation actions has been mainstreamed within annual budgeting activities |

- 1. True
- 2. Partly true
- 3. Not true
- 4. Don't know



Q16. MONITOR AND REVIEW

Is each of the statements below true, partly true, or not true for your organisation?

DISPLAY AS A GRID

- 3 1. Records of historical performance for climate-related issues are available to allow trend analysis
- 3 2. There is a commitment to periodically review climate adaptation (risk treatment) plans
- 3 3. Metrics have been identified to measure and manage priority climate risks
- 3 4. Programs to develop skills and capabilities in climate risk management have been resourced and implemented
- 3 5. Climate risk performance measures (e.g. progress against targets) are monitored, reviewed and integrated into public reporting

- 1. True
- 2. Partly true
- 3. Not true
- 4. Don't know



Mitigation

Q17INTRO. MITIGATION AND ACHIEVING NET ZERO

The NSW Government has committed to achieving a 70% reduction in emissions compared to 2005 levels by 2035 and reaching net zero by 2050. The Net Zero Plan outlines the action being taken by the NSW Government to reduce greenhouse gas emissions and highlights that NSW councils play a key role in supporting decarbonisation as local leaders and through their connection to local communities. By reducing emissions, local councils can help increase the resilience of their communities and act as a catalyst for NSW to meet its net zero emissions objective.

The following questions are about your organisation's awareness of and commitment to mitigating climate change through influencing and reducing operational and community Greenhouse Gas (GHG) emissions.



Q17. NET ZERO JOURNEY – CONTEXT AND UNDERSTANDING

Is each of the statements below true, partly true, or not true?

DISPLAY AS A GRID

- 2 1. We collect emission data in an ad hoc fashion only and analyse in spreadsheets with limited quality assurance
- 3 2. Resources been made available to support efforts to increase the management of OPERATIONAL EMISSIONS (such as financial, IT, monitoring)
- 3 3. Our organisation has identified data gaps relating to its OPERATIONAL EMISSIONS and has or is putting a plan in place to address them
- 3 4. A governance forum (e.g. steering committee) regularly reviews carbon emissions and tracks performance against our organisation's reduction target (i.e. operational net zero)
- 3 5. Relevant staff are aware of the organisation's operational net zero strategy including key components such as vision, milestones and targets
- 4 6. Our organisation engages with its community, and state and federal governments to identify transitional risks within their LGA
- 3 7. Our organisation demonstrates leadership, shares learnings, and supports other councils to build their capability to realise their emissions abatement potential across operations and community

- 1. True
- 2. Partly true
- 3. Not true
- 4. Don't know



Q18. NET ZERO JOURNEY ACTION AND REPORTING:

Is each of the statements below true, partly true, or not true for your organisation?

DISPLAY AS A GRID

- | | |
|---|---|
| 2 | 1. Our organisation primarily focuses on reducing OPERATIONAL EMISSIONS through energy efficiency |
| 3 | 2. Our organisation monitors energy performance of its assets using spreadsheets based on data from utility bills or other software. |
| 3 | 3. Our organisation periodically reviews and updates its plan for OPERATIONAL EMISSIONS reduction |
| 3 | 4. Our organisation is exploring more advanced decarbonisation strategies for scope 1 and 2 of their operations (e.g. electrification of buildings, Power Purchase Agreements) |
| 3 | 5. Our organisation has established an annual review process to evaluate performance against reduction targets listed in the strategy/roadmap |
| 2 | 6. Emissions reduction actions are influencing documents throughout our organisation's Integrated Planning and Reporting (IP&R) framework (e.g. community strategic plan, operational plan etc) |
| 2 | 7. Our organisation considers actions and initiatives to support emissions reduction within their LGA |
| 3 | 8. Emission reduction measures (e.g. targets) are monitored and reviewed at LGA level and integrated into annual reporting |
| 3 | 9. Our organisation's operational emission and reduction actions are publicly communicated/disclosed through annual reporting activities |
| 3 | 10. Emissions reduction strategies (operational and community) are fully embedded throughout the IP&R framework, within annual reporting and as part of decision-making or GHG management processes |

1. True
2. Partly true
3. Not true
4. Don't know



Q19. OPERATIONAL EMISSIONS INVENTORY MEASUREMENT

Does your organisation have an OPERATIONAL EMISSIONS inventory (a list of emissions from council operations)?

DISPLAY Q19, Q19A, Q19B, Q19C, Q19D ON THE SAME SCREEN

1. Yes
- ☒ 2. No
3. Don't know

ASK Q19A IF Q19=1 (HAS AN OPERATIONAL EMISSIONS INVENTORY). ALL OTHERS GO TO Q20

Q19A. OPERATIONAL EMISSIONS – BASELINE YEAR

What is the baseline year for the OPERATIONAL EMISSIONS inventory?

DROP DOWN BOX TO DISPLAY YEARS IN CODE 1. TEXT BOX FOR CODE 2. SINGLE RESPONSE

1. Select baseline year
2. Or enter baseline year
3. Don't know [EXCLUSIVE]

ASK Q19B IF Q19=1 (HAS AN OPERATIONAL EMISSIONS INVENTORY)

Q19B. OPERATIONAL EMISSIONS – BASELINE EMISSIONS

What is the total OPERATIONAL EMISSIONS baseline amount in tCO₂e?

TEXT BOX FOR CODE 1

1. Enter amount in tCO₂e
- Don't know [EXCLUSIVE]

ASK Q19C IF Q19=1 (HAS AN OPERATIONAL EMISSIONS INVENTORY)

Q19C. OPERATIONAL EMISSIONS – RECENT YEAR MEASURED

What is the most recent year measured for the OPERATIONAL EMISSIONS?

DROP DOWN BOX TO DISPLAY YEARS IN CODE 1. TEXT BOX FOR CODE 2. SINGLE RESPONSE

1. Select most recent year measured
2. Or enter more recent year measured
- Don't know [EXCLUSIVE]

ASK Q19D IF Q19=1 (HAS AN OPERATIONAL EMISSIONS INVENTORY)

Q19D. OPERATIONAL EMISSIONS – RECENT EMISSIONS

What is the most recent total OPERATIONAL EMISSIONS amount in tCO₂e?

TEXT BOX FOR CODE 1



1. Enter amount in tCO₂e

Don't know [EXCLUSIVE]



ASK ALL

Q20. OPERATIONAL EMISSIONS TARGET

Does your organisation have an OPERATIONAL EMISSIONS reduction target?

DISPLAY Q20, Q20A, Q20B ON THE SAME SCREEN

SINGLE RESPONSE

1. Yes
2. We are in the process
- ☒ 3. No
4. Don't know [EXCLUSIVE]

ASK Q20A IF Q20 = 1-2 (HAS TARGET OR IN THE PROCESS). ALL OTHERS GO TO Q21

Q20A. OPERATIONAL EMISSIONS TARGET – % REDUCTION

What is the OPERATIONAL EMISSIONS reduction target? (e.g. 70% reduction in emissions by 2035) Please enter percentage reduction or reduction in tonnes of CO₂e.

DISPLAY TEXT BOXES FOR CODES 1 & 2.

ALLOW MULTIPLES FOR CODE 1 & 2 THOUGH MOST WILL PROVIDE SINGLE RESPONSE

1. Enter percentage (%) reduction
 2. Enter target reduction amount in tonnes CO₂e (e.g. enter "20" if 20 tonnes CO₂e)
- Don't know [EXCLUSIVE]

ASK Q20B IF Q20 = 1-2 (HAS TARGET OR IN THE PROCESS)

Q20B. OPERATIONAL EMISSIONS TARGET – YEAR

The OPERATIONAL EMISSIONS reduction target is to be achieved by...

DROP DOWN BOX TO DISPLAY YEARS IN CODE 1. TEXT BOX FOR CODE 2. SINGLE RESPONSE

1. Select target year
 2. Or enter target year
 3. Target year not set
- Don't know [EXCLUSIVE]



ASK Q21 IF Q20 = 1-2 (HAS TARGET OR IN THE PROCESS)

Q21. OPERATIONAL EMISSIONS REDUCTION STRATEGY

Has your organisation developed a strategy or action plan to achieve your OPERATIONAL EMISSIONS reduction target?

1. We haven't developed a strategy
 2. We are in the process of developing a strategy
 3. We have developed a strategy but implementation has not yet started
 4. We have developed a strategy and are now implementing it
 5. We have largely completed implementation of our strategy
 6. Don't know of any strategy or action plan to achieve net zero
-
-
-



Q22. RENEWABLE ENERGY TARGET SETTING

Has your organisation developed a target for the percentage of **RENEWABLE ENERGY** used in council operations?

DISPLAY Q22, Q22A, Q22B ON THE SAME SCREEN

SINGLE RESPONSE

1. Yes
2. We are in the process
3. **No**
4. Don't know [EXCLUSIVE]

ASK Q22A IF Q22 = 1-2 (DEVELOPED TARGET OR IN THE PROCESS). ALL OTHERS GO TO Q23

Q22A. RENEWABLE ENERGY TARGET – % TARGET

What is the percentage target for **RENEWABLE ENERGY**?

DISPLAY TEXT BOX FOR CODE 1

1. Enter target percentage (%)
- Don't know [EXCLUSIVE]

ASK Q22B IF Q22 = 1-2 (DEVELOPED TARGET OR IN THE PROCESS)

Q22B. RENEWABLE ENERGY TARGET – YEAR

The **RENEWABLE ENERGY** percentage target is to be achieved by...

DROP DOWN BOX TO DISPLAY YEARS IN CODE 1. TEXT BOX FOR CODE 2. SINGLE RESPONSE

1. Select target year
 2. Or enter target year
 3. Target year not set
- Don't know [EXCLUSIVE]



Q23. CARBON OFFSETS PURCHASED

Has your organisation purchased any carbon offsets?

DISPLAY Q23, Q23A, Q23B ON THE SAME SCREEN

1. Yes
2. No
3. Don't know

ASK Q23A IF Q23 = 1 (PURCHASED CARBON OFFSETS)

Q23A. CARBON OFFSETS PURCHASED – TONNES OF CO₂e

How many tonnes of carbon offsets have been purchased?

DISPLAY TEXT BOX FOR CODE 1

1. Enter carbon offsets purchased in tonnes CO₂e (e.g. enter "20" if 20 tonnes CO₂e)

Don't know [EXCLUSIVE]

ASK Q23B IF Q23 = 1 (PURCHASED CARBON OFFSETS)

Q23B. CARBON OFFSETS PURCHASED – SINCE YEAR

In which year did your organisation first purchase carbon offsets?

DROP DOWN BOX TO DISPLAY YEARS IN CODE 1. TEXT BOX FOR CODE 2. SINGLE RESPONSE

1. Select year first purchased
2. Or enter year first purchased

Don't know [EXCLUSIVE]



Q24. COMMUNITY EMISSIONS INVENTORY

Does your organisation have a **COMMUNITY EMISSIONS** inventory?

DISPLAY Q24, Q24A, Q24B, Q24C, Q24D ON THE SAME SCREEN

1. Yes
2. **No**
3. Don't know

ASK Q24A IF Q24=1 (HAS A COMMUNITY EMISSIONS INVENTORY). ALL OTHERS GO TO Q25

Q24A. COMMUNITY EMISSIONS – BASELINE YEAR

What is the baseline year for the **COMMUNITY EMISSIONS** inventory?

DROP DOWN BOX TO DISPLAY YEARS IN CODE 1. TEXT BOX FOR CODE 2. SINGLE RESPONSE

1. Select baseline year
 2. Or enter baseline year
- No
- Don't know [EXCLUSIVE]

ASK Q24B IF Q24=1 (HAS A COMMUNITY EMISSIONS INVENTORY)

Q24B. COMMUNITY EMISSIONS – BASELINE EMISSIONS

What was the total **COMMUNITY EMISSIONS** baseline amount, in tonnes of CO₂e?

DISPLAY TEXT BOX FOR CODE 1

1. Enter amount in tonnes CO₂e (e.g. enter "20" if 20 tonnes CO₂e)
2. Don't know [EXCLUSIVE]

ASK Q24C IF Q24=1 (HAS A COMMUNITY EMISSIONS INVENTORY)

Q24C. COMMUNITY EMISSIONS – RECENT YEAR MEASURED

What is the most recent year measured for the **COMMUNITY EMISSIONS**?

DROP DOWN BOX TO DISPLAY YEARS IN CODE 1. TEXT BOX FOR CODE 2. SINGLE RESPONSE.

1. Select most recent year measured
 2. Or enter most recent year measured
- Don't know [EXCLUSIVE]

ASK Q24D IF Q24=1 (HAS A COMMUNITY EMISSIONS INVENTORY)

Q24D. COMMUNITY EMISSIONS – RECENT EMISSIONS

What was the total of **COMMUNITY EMISSIONS** most recently measured in tonnes of CO₂e?

DISPLAY TEXT BOX FOR CODE 1



1. Enter amount in tonnes CO2e (e.g. enter "20" if 20 tonnes CO2e)
2. Don't know [EXCLUSIVE]

ASK ALL

Q25. COMMUNITY EMISSIONS TARGET SETTING

Does your organisation have a **COMMUNITY EMISSIONS** reduction target?

DISPLAY Q25, Q25A, Q25B ON THE SAME SCREEN

SINGLE RESPONSE

1. Yes
2. We are in the process
3. No
4. Don't know [EXCLUSIVE]

ASK Q25A IF Q25 = 1-2 (DEVELOPED COMMUNITY EMISSIONS TARGET OR IN THE PROCESS). ALL OTHERS GO TO Q26

Q25A. COMMUNITY EMISSIONS TARGET – % REDUCTION

What is the **COMMUNITY EMISSIONS** reduction target? (e.g. X% reduction in emissions by 20XX) Please enter percentage reduction or reduction in tonnes of CO2e?

DISPLAY TEXT BOXES FOR CODES 1 & 2

ALLOW MULTIPLES FOR CODE 1 & 2 THOUGH MOST WILL PROVIDE SINGLE RESPONSE

1. Enter percentage (%) reduction
2. Enter target reduction amount in tonnes CO2e (e.g. enter "20" if 20 tonnes CO2e)
- Don't know [EXCLUSIVE]

ASK Q25B IF Q25 = 1-2 (DEVELOPED COMMUNITY EMISSIONS TARGET OR IN THE PROCESS)

Q25B. COMMUNITY EMISSIONS TARGET – YEAR

The **COMMUNITY EMISSIONS** reduction target is to be achieved by...

DROP DOWN BOX TO DISPLAY YEARS IN CODE 1. TEXT BOX FOR CODE 2. SINGLE RESPONSE

1. Select target year
2. Or enter target year
3. Target year not set
- Don't know [EXCLUSIVE]



ASK Q26 IF Q25=1-2 (DEVELOPED COMMUNITY EMISSIONS TARGET OR IN THE PROCESS).
ALL OTHERS GO TO Q27

Q26. COMMUNITY EMISSIONS REDUCTION STRATEGY

**Has your organisation developed a strategy or action plan to achieve your
COMMUNITY EMISSIONS reduction target?**

1. We haven't developed a strategy
2. We are in the process of developing a strategy
3. We have developed a strategy but implementation has not yet started
4. We have developed a strategy and are now implementing it
5. We have largely completed implementation of our strategy
6. Don't know of any strategy or action plan to achieve net zero



Information

ASK ALL

Q27. NSW GOVERNMENT SOURCES USED

In your current role, to what extent do you use the following NSW GOVERNMENT RESOURCES as guidance material to assist with climate related risk assessment, management, adaptation or mitigation?

DISPLAY AS GRID

- | | |
|--------------------------|---|
| <input type="checkbox"/> | 1. AdaptNSW website |
| <input type="checkbox"/> | 2. AdaptNSW Newsletter |
| <input type="checkbox"/> | 3. Climate Risk Ready Guide and/or Climate Risk Ready Training Course |
| <input type="checkbox"/> | 4. Increasing Resilience to Climate Change Grants Program Case Studies |
| <input type="checkbox"/> | 5. Integrated Regional Vulnerability Assessment, Enabling Regional Adaptation |

- | | |
|--------------------------|---|
| <input type="checkbox"/> | 1. Not heard of it |
| <input type="checkbox"/> | 2. Heard of it but have not accessed it |
| <input type="checkbox"/> | 3. Have accessed it |
| <input type="checkbox"/> | 4. Access it regularly |



Q28. LOCAL GOVERNMENT RESOURCES USED

In your current role, to what extent do you use the following **LOCAL GOVERNMENT RESOURCES** as guidance material to assist with climate related risk assessment, management, adaptation or mitigation?

DISPLAY AS GRID

- | | |
|---|--|
| 1 | 1. Climate change case studies on LGNSW website |
| 1 | 2. LGNSW Climate Action Professional Officers Group network meetings |
| 1 | 3. LGNSW Climate Action Professional Officers Group discussion forums |
| 1 | 4. Climate resilience podcasts available on LGNSW website. |
| 1 | 5. LGNSW Climate Change webinars |
| 1 | 6. Hunter Region Joint Organisation IP & R toolkit (HRJO) |
| 2 | 7. NSW Climate and energy action website |
| 2 | 8. Net Zero Emissions Guidance for NSW Councils |
| 1 | 9. Climate Snapshot website – regional COMMUNITY EMISSIONS data |
| 1 | 10. Resilient Sydney Net Zero Application – metro COMMUNITY EMISSIONS data |
| 1 | 11. Interactive projections map on Adapt NSW |
| 1 | 12. Climate data portal |
| 1 | 13. Sustainability Advantage webinars |
| 1 | 14. NARCLIM (NSW and ACT Regional Climate Modelling Project, OEH) |
| 1 | 15. Guide to Climate Change Risk Assessment for NSW Local Government |
-
- | | |
|----|--------------------------------------|
| 1. | Not heard of it |
| 2. | Heard of it but have not accessed it |
| 3. | Have accessed it |
| 4. | Access it regularly |



Q29. NATIONAL AND INTERNATIONAL SOURCES USED

In your current role, to what extent do you use the following NATIONAL AND INTERNATIONAL RESOURCES as guidance material to assist with climate related risk assessment, management, adaptation or mitigation?

DISPLAY AS GRID

- 1. National Climate Resilience and Adaptation Strategy
- 2. Sustainable Councils and Communities program direct support
- 3. Resilient Sydney workshops/masterclasses
- 4. City Power Partnership Council Connect
- 5. City Power Partnership Resource Library
- 6. National Climate Change Adaptation Research Facility (NCCARF)
- 7. Intergovernmental Panel on Climate Change reports (IPCC)
- 8. CSIRO Climate Change in Australia website
- 9. UKCIP Adaptation Wizard
- 10. Climate change impact and risk management – a guide for business and government (AGO)
- 11. Risk management standards (ISO 31000:2018, ISO 31000:2009, ISO 31010:2009, ISO 14091:20201, AS/NZS 4360:2004)

- 1. Not heard of it
- 2. Heard of it but have not accessed it
- 3. Have accessed it
- 4. Access it regularly



Q30. PURPOSES OF CLIMATE CHANGE INFORMATION USE

For which (if any) of the following purposes do you use climate change information (for example, flood or emissions data, rainfall & temperature statistics, etc)?

MULTIPLE RESPONSE

- ☒ 1. Information emergency management planning, recovery and response
- ☐ 2. Assessing climate risks to assets, infrastructure and services (e.g., roads, parks, water)
- ☐ 3. Planning, procuring, and maintaining assets, infrastructure and services
- ☒ 4. Planning for land use and development
- ☒ 5. Regional and other strategic level planning (e.g., coastal, flooding, water management)
- ☐ 6. Economic and community planning and investment
- ☐ 7. Corporate investment
- ☐ 8. Insurance
- ☐ 9. Developing educational and communications materials
- ☐ 10. Monitoring my organisation's emissions
- ☐ 11. Planning how to reduce my organisation's emissions
- ☐ 12. Monitoring COMMUNITY EMISSIONS
- ☐ 13. Planning and acting to reduce COMMUNITY EMISSIONS
- ☐ 14. Use for other purposes (PLEASE SPECIFY)

Q31. GAPS

Thinking about the previous two questions, what type of information or guidance (if any) is missing or would you like to learn or find out more about? Please use separate boxes to specify each gap.

MULTIPLE RESPONSE TEXT BOXES

1. First gap/improvement [PLEASE ENTER HERE]
2. Second gap/improvement [PLEASE ENTER HERE]
3. Third gap/improvement [PLEASE ENTER HERE]
4. Fourth gap/improvement [PLEASE ENTER HERE]
- ☒ 5. None / Could not suggest any gaps or improvements [EXCLUSIVE]



Enablers and Barriers

Q32. BARRIERS TO ADAPTATION

Previous surveys of NSW local government organisations identified a key list of barriers influencing their ability to respond to climate change.

To what extent do each of the following currently impede your organisation's ADAPTATION TO CLIMATE CHANGE RISKS AND IMPACTS?

DISPLAY AS A GRID

- | | |
|---|--|
| 4 | 1. Lack of assigned funding |
| 4 | 2. Lack of sufficient staff numbers |
| 4 | 3. Lack of staff capabilities (knowledge, skills) |
| 4 | 4. Unable to access external expertise (consultants etc) |
| 5 | 5. Limitations in legislation and regulations |
| 5 | 6. Lack of appropriate climate change information and data |
| 3 | 7. Lack of internal political will |
| 3 | 8. Not seen as a priority by the community |
| 5 | 9. Inconsistent approaches at different levels of government |
| 3 | 10. Lack of organisational support |
| 3 | 11. Uncertainty as to the role of local government |

- | |
|------------------|
| 1. Not at all |
| 2. A little |
| 3. A fair amount |
| 4. A great deal |
| 5. Not sure |



Q33. BARRIERS TO MITIGATION

Previous surveys of NSW local government organisations identified a key list of barriers influencing their ability to respond to climate change.

To what extent do each of the following currently impede your organisation working to MITIGATE GREEN HOUSE GAS EMISSIONS?

DISPLAY AS A GRID

- | | |
|---|--|
| 4 | 1. Lack of assigned funding |
| 4 | 2. Lack of sufficient staff numbers |
| 4 | 3. Lack of staff capabilities (knowledge, skills) |
| 4 | 4. Unable to access external expertise (consultants etc) |
| 5 | 5. Limitations in legislation and regulations |
| 5 | 6. Lack of appropriate emissions inventory data |
| 3 | 7. Lack of internal political will |
| 3 | 8. Not seen as a priority by the community |
| 3 | 9. Inconsistent approaches at different levels of government |
| 3 | 10. Lack of organisational support |
| 3 | 11. Uncertainty as to the role of local government |
| | |
| 1 | 1. Not at all |
| 2 | 2. A little |
| 3 | 3. A fair amount |
| 4 | 4. A great deal |
| 5 | 5. Not sure |



Q34. ENABLERS OF ADAPTATION

Previous surveys of NSW local government organisations identified a key list of enablers that enhanced their ability to ADAPT TO THE RISKS AND IMPACTS OF CLIMATE CHANGE.

To what extent do each of the following currently help your organisation ADAPT TO CLIMATE CHANGE RISKS AND IMPACTS?

DISPLAY AS A GRID

- | | |
|------------------|---|
| 2 | 1. Leadership by Mayor and/or other councillors |
| 2 | 2. General Manager/ senior management support |
| 2 | 3. Understanding the costs and benefits of adaptation actions |
| 2 | 4. Understanding liability risks |
| 2 | 5. Having clearly assigned staff responsibilities |
| 2 | 6. Recognising our duty of care |
| 2 | 7. External funding |
| 3 | 8. Regional coordination (e.g., by JOs/ RoCs, in network, peer to peer support) |
| 5 | 9. Avoiding future unbudgeted costs |
| 5 | 10. Involvement of external and partner organisations |
| 5 | 11. Community support to manage the impacts of climate change |
| 1. Not at all | |
| 2. A little | |
| 3. A fair amount | |
| 4. A great deal | |
| 5. Not sure | |



Q35. ENABLERS OF MITIGATION

To what extent do each of the following currently help your organisation MITIGATE GREEN HOUSE GAS EMISSIONS?

DISPLAY AS A GRID

- | | | |
|---|-----|---|
| 2 | 1. | Leadership by Mayor and/or other councillors |
| 2 | 2. | General Manager/ senior management support |
| 2 | 3. | Understanding the costs and benefits of mitigation actions |
| 2 | 4. | Understanding liability |
| 2 | 5. | Having clearly assigned staff responsibilities |
| 2 | 6. | Recognising our duty of care |
| 2 | 7. | External funding |
| 3 | 8. | Regional coordination (e.g., by JOs/RoCs, in network, peer to peer support) |
| 5 | 9. | Having an allocated budget for projects |
| 5 | 10. | Involving of external and partner organisations |
| 5 | 11. | Community support to manage the impacts of climate change |
-
- | | |
|----|---------------|
| 1. | Not at all |
| 2. | A little |
| 3. | A fair amount |
| 4. | A great deal |
| 5. | Not sure |



Q36. NETWORKS JOINED

Which of the networks listed below has your organisation joined or linked with?

Please select all that apply

MULTIPLE RESPONSE

1. LGNSW's Climate Action Professional Officers Group (CAPOG)
2. Cities Power Partnership
3. NABERS
4. Global Covenant of Mayors for Climate and Energy
5. UN Race to Zero
6. Carbon Disclosure Project
7. UN Race to Resilience
8. Green Building Council of Australia (GBCA)
9. The Institute of Public Works Engineering, Australasia (IPWEA)
10. ICLEI Local Government for Sustainability
11. Resilient Cities Network
12. 100 Resilient Cities
13. Other climate change networks [PLEASE SPECIFY]
14. None of these [EXCLUSIVE]



Q37. REMOVED



Q38. PRIORITISING HELPFUL INFLUENCES

How helpful are each of the following when it comes to helping local government respond effectively to climate change?

DISPLAY AS A GRID

- | | |
|---|--|
| 3 | 1. Grant Assistance to manage impacts on and lower emissions from local government assets, infrastructure and services |
| 3 | 2. Capacity building (e.g. access to professional networks, technical advice, professional development, and training packages) |
| 3 | 3. Provision of high quality, localised climate change information, on projections impacts, emissions |
| 3 | 4. Coordination of state-wide effort to mitigate and adapt to climate change |
| 3 | 5. Coordination of regional effort to mitigate and adapt to climate change |
| 3 | 6. Guidance on risk assessment/ emissions reduction pathways |
| 3 | 7. Guidance on setting climate change targets and commitments and embedding these within the IP & R cycle |
| 3 | 8. Guidance on reducing risk exposure (Adaptation Planning)/ emissions reduction implementation planning |
| 3 | 9. Statutory planning support (e.g., guidance on climate change requirement for land use planning) |
| 3 | 10. Non-statutory planning support (e.g., programs, guidelines and tools for planning for climate change) |
| 3 | 11. Education and engagement tools and support |
| 3 | 12. Case studies in effective adaptation and mitigation planning, strategies and implementation |
| 3 | 13. Provide information on technical and other solutions to climate change |
| 3 | 14. Provide monitoring and evaluation templates, data and support |
| | 1. Extremely helpful |
| | 2. Very helpful |
| | 3. Moderately helpful |
| | 4. Little or no help |
| | 5. Makes effective action more difficult |
| | 6. Don't know how helpful this would be |



Q38b. OTHER HELPFUL INFLUENCES

DISPLAY ON SAME SCREEN AS Q38.

Is there anything else not covered in the list above that would help local government respond effectively to climate change? Please use separate boxes to specify each potential type of help.

OPEN ENDED

MULTIPLE RESPONSE TEXT BOXES

1. First type of help
 2. Second type of help
 3. Third type of help
 4. Fourth type of help
 5. None / Could not think of anything else [EXCLUSIVE]
-



Conclusion

Q38c. OPTIONAL – ANY FEEDBACK

Finally, if there is any feedback about this survey or important information you feel hasn't been covered in relation to how we can help support local government activities on climate change adaptation and mitigation, please let us know below:

TEXT BOX *Improve the financial positions of LG is essential if local services by Council is to expand beyond its current functions*

Q39. CASE STUDY RECRUIT

Would you be interested in NSW Government contacting you to develop a case study based on your adaptation or mitigation actions?

1. Yes – would like to be contacted
2. Not ready yet, but maybe later
- ☒ 3. Rather not be contacted about a case study

Q40. SURVEY CLOSE

The NSW Government and LGNSW thank you for the time and effort you have put into completing this questionnaire.

In case we need to contact you either about a possible case study from your organisation, or to clarify any of your answers, please supply below:

1. Your name: [SPECIFY]
2. Your email: [SPECIFY]
3. An office phone number [SPECIFY]
4. A work mobile number [SPECIFY]
- ☒ 5. Do not wish to be contacted

Q41END. Please click on **SUBMIT** below to submit your replies to this questionnaire.

Thank you very much for your time today. Your feedback will help us to provide local government with better support.

This market research is carried out in compliance with the Privacy Act, and the information you provided will be used only for research purposes.

Version 3 9/10/23 Draft for discussion produced by Sustainability Advisory Committee

DRAFT

Strategy for initial community engagement/research for FOGO in Yass Valley Council Local Government Area

Community engagement and research strategy

Aim: To engage community and collect information on community attitudes and behaviours, motivations and barriers to sustainable organic waste management which can inform the development of future waste management strategies and inform communication and education strategies for successful adoption of these strategies

1. Initial community outreach
Initial contact to community organisations via participant information sheet (see attached) and other media/outreach.
2. Waste stream measurement
Waste audit according to EPA guidelines (council to implement)
3. Focus Groups
Selected individuals to explore motivations and barriers to sustainable management of FOGO etc, relevant to Council. Recruitment may be via established organisations in the Yass Valley including across demographic categories. May be divided into a group with current collection and rural. To be facilitated by two Sustainability Committee members following guide to be reviewed by the Committee (see following pages).
4. Potential Online survey or Phone survey - (inclusive of short refusal survey)
Develop survey questions based on previous steps if this is considered necessary to gather further information and engagement. Pilot survey. Run survey. Analyse data.
(refusal survey – asks one or two questions only)
5. Potential Pilot Program
Conditional pilot program with subject and control group if this is considered warranted – subjects receive support and communications identified through the research, whereas control group receives business as usual support.
6. Program implementation
Continue monitoring of community behaviours and engagement

Research questions (draft)

What are the current attitudes, behaviours and social environment in relation to FOGO in Yass Valley?

What intervention options exist to manage FOGO in Yass Valley and what are the perceptions of community regarding these options? (Including options for different community sectors – town dwellings, rural, business, units etc)

Version 3 9/10/23 Draft for discussion produced by Sustainability Advisory Committee

What are the major constraints to implementation of the options?

What are the major enabling factors to encourage implementation of FOGO options?

Focus group guide: (Based on learning cycle – Val Brown)

Focus group questions need to be open and allow unconstrained discussion to best identify emergent themes (i.e. ideas from the group rather than the facilitator). The following guide has been well tested and proven in enabling a group to have a discussion that evolves and allows space for participants to share ideas and have a conversation that develops to deliver outcomes that are real world and relevant to the given context.

- **Is: What is the current situation for FOGO (behaviours, attitudes)**

What do you/people you know in your community currently do with food and garden organics?

What do you know about FOGO options?

What, if anything, have you heard from others in your community about FOGO options?

- **Should: What principles can guide the YVC (enablers, constraints)**

How important is dealing with organic waste to you/ your community?

What specifically is important to you in relation to food and organic waste? (prompts - landfill, climate change, etc)

Why would community get involved in a FOGO program? Prompts: convenience, desire to adhere to social norms, and desire to participate in global good

Why wouldn't they? (prompts: cost, lack of knowledge, lack of motivation, disbelief around economic and environmental benefits of FOGO processing, lack of confidence in process)

- **Could: What could be the different options for FOGO (Blue sky/ brainstorm)**

What options are you aware of for improving the management of FOGO? Prompts: Collection, Deposit, Self managed, Council program etc

- **Can: Given the reality of the situation, what can actually happen for FOGO in YVC (Feasible options)**

What would be the most challenging impediments to you/ your community in implementing the FOGO options we have discussed?

What would motivate you/ your community to implement FOGO options?

What sort of community engagement / education Prompts: Bega communications strategy

Draft participant questions

Leading questions that can be used to further investigate themes emerging from the focus group.

What do you currently do with your food and garden organics? Eg. You might have a compost bin or feed the leftovers to the chickens. Or do you just put it in the general waste (red) bin?

Version 3 9/10/23 Draft for discussion produced by Sustainability Advisory Committee

If you're not separating your FOGO now, what might be stopping you from doing so? Eg. You have no practical use for it or nowhere to separately store it. Are you worried about the smell?

How likely might you be to use a FOGO bin and how much do you think you might put in it? Do you use the existing Green Waste service offered by Yass Valley Council where you take your garden clippings to the Transfer Stations?

Would a kitchen caddy, ie. a small bin that can be kept under the sink or elsewhere, along with compostable liners make you more likely to sort your food waste separately?

Are you concerned about what parts of the process are managed by Council or is that not an issue? The collection service itself, the processing of the FOGO and then its sale to the market can either be directly managed by Council or contracted-out.

Would you be concerned if your current general waste collection (ie. the red bin) was reduced from a weekly to a fortnightly service?



WHAT IS FOGO?

FOGO is an acronym for the “food organics and garden organics” that are generated in your home or business.

Food organics include left-over or spoilt fruit, vegetables, dairy and meat. Garden organics include lawn clippings, prunings from trees and bushes, as well as leaf litter.

At present, some 135 councils across Australia offer a FOGO collection service and all NSW councils are required to have such a service in place by 2030.

WHY IS IT IMPORTANT?

In the Yass Valley possibly as much as 3,500 tonnes of FOGO is currently going to landfill each year.

A FOGO collection service helps to divert this food waste and green waste away from landfill, and instead, turns food scraps and garden waste into valuable compost. This can go back into our parks and gardens.

By diverting food scraps away from landfill and into the FOGO bin along with our garden waste, we’re also reducing the harmful greenhouse gases like methane which are produced by organic materials in landfill.

WHAT IS PROPOSED?

Yass Valley Council hasn’t settled on any specific proposal yet. The type of collection service and how Council will process the FOGO, etc. - none of this has been determined.

If the new FOGO collection service is to be successful, it will need to match the needs of our community. That’s why we’re talking to you now. We want to consider how you currently manage FOGO in your household, both in towns and on rural landholdings.

We also want to better understand parts of the community that have particular needs, like small businesses and people living in multi-unit dwellings.

Council will soon undertake a ‘bin audit’ to ensure it has reliable statistics on the types and volume of waste produced across the Local Government Area. You may see this happening but do not need to be concerned. Bins will be chosen at random and all data will be compiled on an anonymous basis.



WHAT MIGHT IT COST?

The actual cost of the new FOGO collection service can't be calculated until it's been fully designed.

However, there will be additional costs that need to be met, like new equipment and staffing costs. FOGO also offers potential savings and revenue opportunities. For example, Council may see a reduction in its expensive landfill costs.

Grant funding is available from the NSW Government to meet some of the set-up costs for the new FOGO service.

Ensuring that additional costs are kept to a minimum will be a key consideration for Council.

WHAT NEXT?

The Yass Valley Council Sustainability Advisory Committee will be hosting a series of focus groups to explore community perceptions about FOGO.

This will help us to understand how Council can best work alongside community to implement this important initiative.

Following this initial engagement, the Sustainability Advisory Council will report to Council on its findings. We expect Council will report back to workshop participants and keep the community informed about any further proposed action.

geoff.gorrie@bigpond.com
snowgums@skymesh.com.au
allwood3@hotmail.com
sutton.community@outlook.com
secretary@murrumbateman.org.au
info@yassbusiness.com.au
gundaroo.gazette@gmail.com
information.mpa@gmail.com
philippa@sproutdesign.com.au
secretary@weejasper.org
bdpa@outlook.com.au
wrencottage1@bigpond.com

Yass Valley SPIN Foundation
Yass Antique Farm Machinery Club
Yass Community Grants Working Group YCGWG
Yass CanAssist
Yass Show Society
Yass Rotary
Yass Community Garden
Yass Bossom Buddies
Yass Vine Church
Binalong Community Club
Canberra District Wine Industry Association
Yass & District Historical Society
Binalong Arts Group
Yass Arts
Riverbank Markets
Yass Football Club
Maker of Murrumbateman
Mountain Trails
Yass2U
Warrambui
Yass Business Chamber
Yass Scouts
Murrumbateman Little Athletics
Yass Magpies Rugby League (senior)
Yass Magpies Rugby League (junior)
Yass Netball association
Yass Touch Association
Yass Lions Club
Yass Swimming Club
Yass District Cricket Association
Yass Roos AFL
Yass Rams Rugby Union
Yass Picnic Races
Yass District Education Foundation
Yass Junior Cricket Association

yassvalleyspin@gmail.com
yassafmc7@gmail.com
yasscommunitygrants@
yass@canassist.com.au
yassshowociety@gmail.com
yassrotary@gmail.com
yasscommunitygarden
admin@bosombuddies
admin@yassvinechurch
binalongcommunityclub
Canberra Wines <hello
info@yasshistory.org.au
info@binalongartsgroup
infor@yassarts.org
info@riverbankmarket
media@yassfc.com.au
makersofmurrumbateman
Operations Manager -
orders@yass2you.com
office@warrambui.com
info@yassbusiness.com

info@murrumbateman
yassseniorrugbyleague
yassminorrugbyleague
yassnetball2582@gmail.com
yass.touch2582@gmail.com
yasslionsclub@gmail.com
swimclubbyass@outlook
yassdca@gmail.com
yassroos afl@outlook.com
yassramsrugbyunion@
yasspicnics@hotmail.com
cefyass@gmail.com
yassjuniorcricket@gmail.com

Yass Junior Rugby Union	yassjruc@gmail.com
Murrumbateman Village Markets	info@mvmarket.com
Murrumbateman Tennis Club	tennismurrumbateman
Murrumbateman Scouts	
Murrumbateman Men's Shed	murrumshed@gmail.co
Murrumbateman Lions Club	murrumbateman.nsw@murrumbatemanpc@gmail.com
Murrumbateman Pony Club	murrumbatemanpc@gmail.com
Bowning Bushfire Brigade	bowningbushfirebrigade
Murrumbateman Bushfire Brigade	murrumbatemanrfs@gmail.com
Bookham Markets	bookhammarket@gmail.com
Binalong Brahmans rugby League	binalongbrahmansrlfc@gmail.com
Binalong VRA	binalong.secretary@vra.nsw.gov.au
Gundaroo Music Festival	info@gundaroomusicfestival.com.au
Gundaroo Junior Cricket	gundaroo.junior.crickets@gmail.com
Gundaroo Men's shed	mensshedgundaroo@gmail.com
Gundaroo RFS	gundarooofs@gmail.com
Gundaroo Historical Society	historicalsocietygundaroo@gmail.com
Yass CWA	cwayassbranch@gmail.com

Mountain Trails Adventure School <operations@mountaintrails.org.au>