




# **PUBLIC DISCLOSURE STATEMENT**

**HOLCIM (AUSTRALIA) PTY LTD**

**PRODUCT CERTIFICATION – HUMES  
PRECAST CONCRETE PRODUCTS (OPT-IN)  
CY2024**

Australian Government  
**Climate Active**  
**Public Disclosure Statement**



NAME OF CERTIFIED ENTITY	HOLCIM (AUSTRALIA) PTY LTD
REPORTING PERIOD	Calendar year 1 January 2024 – 31 December 2024 Arrears report
DECLARATION	<p><i>To the best of my knowledge, the information provided in this public disclosure statement is true and correct and meets the requirements of the Climate Active Standard.</i></p>  <p>Cyril Giraud  Head of Sustainability  1 August 2025</p>



**Australian Government**  
**Department of Climate Change, Energy,  
the Environment and Water**

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Version 9.

# 1. CERTIFICATION SUMMARY

TOTAL EMISSIONS OFFSET	361 tCO <sub>2</sub> -e
CARBON OFFSETS USED	80.06% VCU <sub>s</sub> 19.94% CERS
RENEWABLE ELECTRICITY	N/A
CARBON ACCOUNT	Prepared by start2see Pty Ltd through the Environmental Product Declarations (EPDs) of Humes reinforced concrete pipes and precast and prestressed concrete products.
TECHNICAL ASSESSMENT	Date: 28 June 2024 (CY2023) Name: Rob Rouwette Organisation: start2see Next technical assessment due: CY2026

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## 2. CERTIFICATION INFORMATION

### Description of product certification

Holcim's Opt-in Climate Active Certification for Humes covers its ranges of pre-cast concrete products and solutions covered by an EPD.

- Functional unit: The functional unit is defined as 1 tonne of precast concrete product manufactured.
- Offered as: opt-in product.
- Life cycle: The carbon account covers the cradle-to-gate (modules A1-A3) life cycle stages (as shown in figure 1) of the of precast and prestressed concrete products, including reinforced concrete pipes, manufactured by Humes in Australia. The cradle-to-gate life cycle assessment covers the impact from raw material extraction and processing (cradle) for all ingredients and materials, up until the product leaving the Humes Pre-cast Concrete facility (gate). Life cycle stages for the construction stage (A4-A5), use stage (B1-B7), and end of life stages (C1-C4) are not included in this Climate Active certification. The impact of downstream life cycle stages (modules A4 to C4) (i.e. transport to construction site, construction, use, disposal) is relatively minor compared to the A1-A3 (i.e. cradle-to-gate) emissions but shall not be considered zero. The downstream stages and final life of a precast product is highly variable based on project location and type of product (e.g. our products cover a wide range of applications, such as bridges, pipes, or retaining walls).



**Figure 1 – Cradle-to-gate (A1-A3) life cycle stages of precast concrete products**

The responsible entity for this service certification is Holcim Australia Pty Ltd, ABN 87 099 732 297.

This Public Disclosure Statement includes information for CY2024 reporting period.

## Description of business

Holcim, a prominent supplier of construction materials in Australia, boasts a rich legacy dating back to 1901. Today, Holcim continues its legacy by providing essential construction materials, including aggregates, sand, ready-mix concrete, engineered precast concrete, and prestressed concrete solutions, to a diverse array of customers and projects across Australia.

Humes is Holcim Australia's precast concrete solutions business. Humes is Australia's leading provider of engineered concrete solutions for the civil construction industry. Humes first registered an Environmental Product Declaration (EPD) for its reinforced concrete pipes (RCPs) in 2017 (S-P-00998). This was followed by the EPD for Humes Precast and Prestressed Concrete ([S-P-01545](#)) in 2020. Our EPD for reinforced concrete pipes was updated in 2024, resulting in the publication of eight separate EPDs ([EPD-IES-0013569:001](#), [EPD-IES-0013570:001](#), [EPD-IES-0013571:001](#), [EPD-IES-0013572:001](#), [EPD-IES-0013573:001](#), [EPD-IES-0013574:001](#), [EPD-IES-0013575:001](#), and [EPD-IES-0013576:001](#)). The development of the EPDs is part of Holcim's drive to comprehensively analyse and communicate to customers the embodied environmental impacts of Holcim's products and having all key products represented by an EPD in Australia. EPDs help support designers and developers to drive improved sustainable procurement and materials selection and supporting the standardisation and transparency of environmental claims and specifications.

## 3. EMISSIONS BOUNDARY

### Inside the emissions boundary

All emission sources listed in the emissions boundary are part of the Climate Active claim.

**Quantified** emissions have been assessed as 'attributable processes' of a product or service. These attributable processes are services, materials and energy flows that become the product or service, make the product or service and carry the product or service through its life cycle. These attributable emissions have been quantified in the carbon inventory.

**Non-quantified** emissions have been assessed as attributable and are captured within the emissions boundary, but are not measured (quantified) in the carbon inventory. All material emissions are accounted for through an uplift factor. Further detail is available at Appendix C.

### Outside the emissions boundary

**Non-attributable** emissions have been assessed as not attributable to a product or service. They can be **optionally included** in the emissions boundary and therefore have been offset, or they can be listed as outside of the emissions boundary (and are therefore not part of the Climate Active claim). Further detail is available at Appendix D.

The emission sources in the boundary diagram hereafter match the emission categories in the emission summary table later in this document (in section 4).

**Inside emissions boundary**

**Quantified**

Electricity  
Stationary energy used in production  
Fuels used in equipment  
Fuels used in materials transport  
Process emissions (clinker production)  
Explosives (quarries)  
Water  
Waste  
Auxiliary materials (bar chairs, mould oil, etc.)

**Non-quantified**

n/a

**Optionally included**

n/a

**Outside emission boundary**

**Non-attributable**

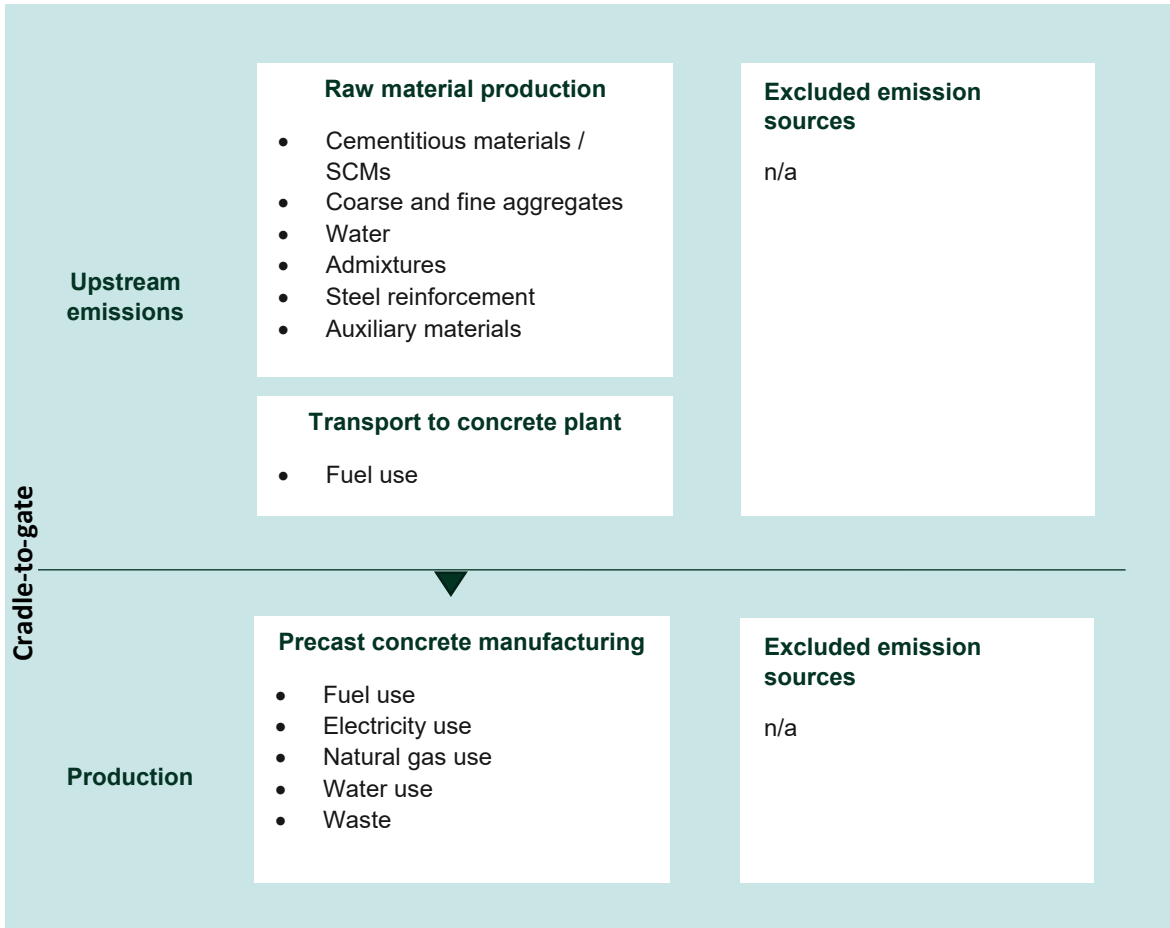
Capital goods  
Personnel

**Outside scope**

Downstream life cycle stages

## Product process diagram

The following diagram shows the product processes included within the scope of the footprint. The included emission sources cover the cradle-to-gate boundary. Downstream emissions are outside the scope of the certification.



The contribution of capital goods (production equipment and infrastructure) and personnel is outside the scope of the LCA, in line with the Product Category Rules.<sup>1</sup>

<sup>1</sup> International EPD System PCR2019:14 (version 1.33), Product category rules according to ISO 14025 and EN 15804, PCR for Construction products, registration number 2019:14, published on 1 March 2024.

## 4. EMISSIONS REDUCTIONS

### Emissions reduction strategy

To avoid the most extreme impacts of climate change, the world must rapidly transition to a near net-zero economy by 2050 to limit warming to 1.5°C against pre-industrial levels. As a global leader in innovative and sustainable building solutions, Holcim is part of the solution in addressing the urgent challenge of climate change. We are putting climate action at the heart of our business strategy, to build progress for people and the planet.

At Holcim, we are taking a science-driven approach on the journey to becoming a net-zero company. Holcim was amongst the first companies worldwide to have its 2030 and 2050 CO<sub>2</sub> reduction targets validated by the Science Based Targets initiative (SBTi) as aligned with a 1.5°C scenario.

Our commitment to accelerate decarbonization across the whole building value chain is based on four key areas:

- **Decarbonizing our operations:** We are decarbonizing our energy use across our operations, from alternative fuels to renewable electricity; deploying decarbonized materials for low carbon product.
- **Building better with less:** We are decarbonizing construction with our range of low carbon materials.
- **Circular construction:** Shifting gears from a linear “take-make-dispose” approach to a circular “reduce, recycle, regenerate” economy.
- **Making buildings sustainable:** We are decarbonizing cities with our broad range of Solutions and Products, to make buildings more sustainable in use.

In 2022, Holcim updated its Global 2030 climate targets in line with the SBTi's revised 1.5°C-aligned roadmap. With these upgraded targets, we confirm our commitment to decarbonize building, leveraging the most advanced science.

- Holcim commits to Globally reduce gross scope 1 and 2 GHG emissions 25% per tonne of cementitious materials by 2030 from a 2018 base year.<sup>2</sup> Within this target, Holcim commits to reduce gross scope 1 GHG emissions 22.4% per tonne of cementitious material and scope 2 GHG emissions 65% per tonne of cementitious materials within the same timeframe.<sup>1</sup>
- Holcim commits to reduce gross scope 3 GHG emissions from purchased goods and services 25.1% per tonne of purchased clinker and cement by 2030 from a 2020 base year.

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<sup>2</sup> The target boundary includes land-related emissions and removals from bioenergy feedstocks

- Holcim also commits to reduce scope 3 GHG emissions from fuel and energy related activities 20% per tonne of purchased fuels by 2030 from a 2020 base year.
- Furthermore, Holcim commits to reduce scope 3 GHG emissions from downstream transport and distribution 24.3% per tonne of materials transported within the same timeframe.

In 2022, Holcim also updated its Global 2050 climate targets in line with the SBTi's revised 1.5°C-aligned roadmap

- We will reduce scope 1 and 2 GHG emissions by 95% per tonne of cementitious materials from a 2018 base year.<sup>3</sup>
- We will reduce absolute scope 3 GHG emissions by 90% by 2050 from a 2020 base year.<sup>4</sup>

Our second Global Climate Report shares our progress on our net-zero journeys, including our upgraded 2030 targets aligned with the 1.5°C framework and validated by the Science Based Targets initiative. Please refer to Holcim's Climate Policy<sup>5</sup>, webpage on climate action<sup>6</sup> and Global Climate Report<sup>7</sup> for further details.

## Emissions reduction actions

Humes continues to focus on reducing the embodied carbon impact of its products through a number of levers, such as:

- Design efficiency of the product - The embodied carbon impact can be reduced through optimizing the design of a product to ensure the optimal quantity and ratio of materials are used.
- Optimising the quantity of cement in the concrete mix design - Cement is typically the largest embodied carbon impact within the cement.
- Increasing use of supplementary cementitious materials (SCM) - The carbon intensity can be reduced by replacing the cement with alternative materials. Depending on the application and the manufacturing site, SCM may include industrial by-products like fly ash and/or blast furnace slag.
- Using admixtures - Admixtures can assist in reducing the amount of cement and water needed in the mix, improving its workability, enhance durability and longevity and reduce carbon emissions.
- Optimising the quantity and type of reinforced steel used – Steel is typically the second highest contributor to the embodied carbon impact of precast concrete

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<sup>3</sup> The target boundary includes land-related emissions and removals from bioenergy feedstocks.

<sup>4</sup> This net-zero validation was evaluated within the parameters of the Business Ambition for 1.5°C campaign and it covers categories 1, 3, 4, 6, 7 and 9 of Holcim's scope 3 emissions.

<sup>5</sup> [https://www.holcim.com/sites/holcim/files/2023-04/holcim\\_climate\\_policy.pdf](https://www.holcim.com/sites/holcim/files/2023-04/holcim_climate_policy.pdf)

<sup>6</sup> <https://www.holcim.com/sustainability/climate-action>

<sup>7</sup> <https://www.holcim.com/sites/holcim/files/docs/28022025-holcim-climate-report-2024.pdf>

- Reviewing and reducing site impacts (i.e. quantity of steam for curing concrete products, efficiency of boilers)
  
- Increased percentage of renewable electricity used by installation of solar power systems - Humes has installed solar power systems across ten sites. Details of the installed solar capacity is attached below:
  - Humes Welshpool - 99kW installed
  - Humes Ipswich - 110kW installed (About to complete upgrade)
  - Humes Blacktown - 99kW installed (Scheduled Upgrade)
  - Humes Echuca - 70kW installed
  - Humes Rockhampton - 99kW installed (Scheduled Upgrade)
  - Humes Townsville - 2 x 30kW installed
  - Humes Pooraka M/Shop - 99kw installed
  - Humes Tamworth - 99kW installed
  - Humes Laverton - 99kW installed
  - Humes Darwin -19.2kW installed

## 5. EMISSIONS SUMMARY

### Emissions over time

This section compares emissions over time between the base year and the current year of certification. The emissions intensity of the functional unit and the total emissions change each year depending on quantity and type of opt-in Climate Active products sold.

		Emissions since base year	
		Total tCO <sub>2</sub> -e	Emissions intensity of the functional unit
Base year / Year 1:	CY 2021	0	n/a
Year 2:	CY 2022	86	0.404
Year 3:	CY 2023	305	0.334
Year 4:	CY 2024	361	0.286

### Significant changes in emissions

Our products are Climate Active certified on an opt-in basis. This means we expect to see significant changes in emissions intensity and total emissions of certified products from year-to-year, depending on which ones of our thousands of products are offset in a given year.

### Use of Climate Active products, services, buildings or precincts

Holcim does not claim to have used any Climate Active certified products in the reporting period.

### Emissions summary

Humes produces thousands of different precast and prestressed concrete product variations, as well as thousands of different concrete pipe product variations, across Australia. Our EPDs allow the quantification of cradle-to-gate emissions for each of these products based on key characteristics. Under our opt-in Climate Active scheme, Humes will determine the GHG intensity of each product sold as Climate Active and establish the total footprint to be offset accordingly.

The total attributable emissions in the table below (361 tCO<sub>2</sub>-e) cover the full quantity of all opt-in products sold from all products lines covered by the certification. In the current period, a relatively larger share of the opt-in products consists of precast and pre-stressed products, while a smaller share consists of pipes. The breakdown of emissions by source in the table hereafter reflects the opt-in products sold in this period. Note that the split between concrete and production process (breakdown) is based on a representative product (DN600 class 4 reinforced concrete pipe manufactured in Townsville). Each precast concrete product will show a unique percentage breakdown of these emission sources, but the overall picture regarding the relative size of emission sources will be similar to this example.

The emissions summary represents attributable emissions from customers who have opted-in to the product only.

<b>Emission source</b>	<b>tCO<sub>2</sub>-e</b>
<b>Concrete (raw materials plus transport to plant)</b>	196.5
<b>Steel Reinforcement (raw materials plus transport to plant)</b>	109.7
<b>Rubber rings (raw materials plus transport to plant)</b>	0.3
<b>Production Process</b>	54.2
<i>Production Process breakdown: Electricity</i>	18.6
<i>Production Process breakdown: Natural Gas / LPG for curing</i>	28.4
<i>Production Process breakdown: Diesel</i>	6.3
<i>Production Process breakdown: Miscellaneous and overhead</i>	0.9
<b>Attributable emissions (tCO<sub>2</sub>-e)</b>	<b>361</b>

Note: in line with our NGER reporting, we have applied a location-based approach to electricity in the EPD of precast and pre-stressed concrete products. However, due to changes in the underlying EPD standards, the 2024 update of the RCP EPD uses market-based electricity accounting. As electricity use in concrete production makes up a relatively minor share of the GHG emissions of precast concrete (~5% in the example above), the choice for electricity accounting method does not affect the footprint in a material way. The majority of greenhouse gas emissions are coming from the raw materials (especially cement and steel) used to make reinforced precast concrete.

No uplift factors have been applied.

<b>Product offset liability</b>	
Emissions intensity per functional unit	0.286 tCO <sub>2</sub> -e/t
Emissions intensity per functional unit including uplift factors	N/A
Number of functional units covered by the certification	1262 tonnes
<b>Total emissions (tCO<sub>2</sub>-e) to be offset</b>	<b>361</b>

## 6. CARBON OFFSETS

### Eligible offsets retirement summary

Offsets retired for Climate Active certification

Type of offset unit	Quantity used for this reporting period	Percentage of total units used
Verified Carbon Units (VCUs)	289	80.06%
Certified Emissions Reductions (CERs)	72	19.94%

Project name	Type of offset unit	Registry	Date retired	Serial number	Vintage	Total quantity retired	Quantity used in previous reporting periods	Quantity banked for future reporting periods	Quantity used for this reporting period	Percentage of total used this reporting period
Renewable Power Project by Axis Wind Farms (MPR Dam) Private Limited	VCUs	VERRA	1 July 2021	<a href="#">8556-30354050-30354729-VCS-VCU-997-VER-IN-1-1790-02082018-31122018-0</a>	2018	680	391	0	289	80.06%
Enercon Wind Farms in Karnataka Bundled Project - 73.60 MW	CERs	ANREU	23 Nov 2021	<a href="#">200.764.977 - 200.824.976</a>	CP2	60,000*	0	39,928	72	19.94%

\*60,000 t retired, of which 40,000t for Holcim's Humes Precast concrete (opt-in) future sales / 20,000t for Holcim's ready-mix concrete (opt-in) future sales

## Co-benefits

The Bundled Wind Power Project in Tamilnadu, India involves installation of 396 Wind Turbine Generators (WTGs) with a total cumulative installed capacity of 236 MW. The wind energy project activity (Project) involves in the Enercon Wind Farms (WFs) in Karnataka Bundled Project with a total cumulative installed capacity of 73.6 MW. Apart from generation of renewable electricity and associated environmental benefits, the project has also been conceived to contribute towards sustainable development of the region - socially, technologically, and economically. The participants' view on the contribution of this Project towards sustainable development follows these indicators:

### Social well-being:

- Improves electricity availability in the region and reduces electricity deficit situation in the local region.
- Creation of employment opportunities for the local people during the erection and commissioning of the WFs.
- Promoting infrastructural development like approach roads in the areas where the Project is located.
- Increased investment in wind energy projects will further push R&D efforts by technology providers to develop more efficient and better machinery in future.

### Economic well-being:

- The project activity results in generation of additional employment opportunities directly and indirectly which helps improve the standard of living of the people in and around the project activity location.
- The generation of the offsets provides financial incentives, which encourage channeling more investment into cleaner energy projects and also result in improved returns to the project stakeholders.
- Promotes industrial growth by catering to the energy needs arising out of the supply-demand gap of electricity.

## 7. RENEWABLE ENERGY CERTIFICATE (REC) SUMMARY

### Renewable Energy Certificate (REC) Summary

N/A

# APPENDIX A: ADDITIONAL INFORMATION

Additional retirement details for CER-IND-Enercon Wind Farms Karnataka retired upfront 23 Nov 2021:

The screenshot displays the ANREU website interface. The header includes the Australian Government logo and the text 'Australian National Registry of Emissions Units'. A navigation menu on the left lists various options like 'ANREU Home', 'Account Holders', and 'Transaction Log'. The main content area is titled 'Transaction Details' and shows a notification 'Transaction Successfully Approved'. Below this, the transaction details are listed:

- Transaction ID:** AU20415
- Current Status:** Sending (91)
- Status Date:** 23/11/2021 17:33:06 (AEDT) and 23/11/2021 06:33:06 (GMT)
- Transaction Type:** Cancellation (4)
- Transaction Initiator:** Grant, Andrew William Thorold
- Transaction Approver:** Grant, Andrew William Thorold
- Comment:** Retired on behalf of Holcim (Australia) Pty Ltd to for Climate Active Certification for the period FY21-FY23.

Below the details, there are two sections: 'Transferring Account' and 'Acquiring Account'.

Transferring Account		Acquiring Account	
<b>Account Number</b>	AU-2734	<b>Account Number</b>	AU-2764
<b>Account Name</b>	Tasman Environmental Markets Pty Ltd	<b>Account Name</b>	Voluntary Cancellation - CP2
<b>Account Holder</b>	Tasman Environmental Markets Pty Ltd	<b>Account Holder</b>	Commonwealth of Australia

At the bottom, a 'Transaction Blocks' table provides a summary of the transaction:

Partx	Type	Transaction Type	Original CP	Current CP	ERE Project ID	NGER Facility ID	NGER Facility Name	Safeguard	Kyoto Project #	Vintage	Expiry Date	Serial Range	Quantity
IN	CER	Kyoto Voluntary Cancellation	2	2					IN-1286			200,764,977 - 200,824,976	60,000

## APPENDIX B: ELECTRICITY SUMMARY

N/A

(For transparency, our 2020 EPD uses Location-based electricity accounting, while our 2024 EPD has used Market-based reporting due to changed requirements from the EPD Program.)

## APPENDIX C: INSIDE EMISSIONS BOUNDARY

### **Non-quantified emission sources**

Not applicable for this certification.

### **Excluded emission sources**

Not applicable for this certification.

### **Data management plan for non-quantified sources**

There are no non-quantified sources in the emission boundary that require a data management plan.

## APPENDIX D: OUTSIDE EMISSION BOUNDARY

Non-attributable emissions have been assessed as not attributable to a product or service (do not carry, make or become the product/service) and are therefore not part of the Climate Active claim. To be deemed attributable, an emission must meet two of the five relevance criteria. Emissions which only meet one condition of the relevance test can be assessed as non-attributable and therefore are outside the Climate Active claim. Non-attributable emissions are detailed below.

1. **Size** The emissions from a particular source are likely to be large relative to other attributable emissions.
2. **Influence** The responsible entity could influence emissions reduction from a particular source.
3. **Risk** The emissions from a particular source contribute to the responsible entity's greenhouse gas risk exposure.
4. **Stakeholders** The emissions from a particular source are deemed relevant by key stakeholders.
5. **Outsourcing** The emissions are from outsourced activities that were previously undertaken by the responsible entity or from outsourced activities that are typically undertaken within the boundary for comparable products or services.

## Non-attributable emissions sources summary

Emission sources tested for relevance	Size	Influence	Risk	Stakeholders	Outsourcing	Justification
<b>Capital goods</b>	N	N	N	N	N	<p><b>Size:</b> The emissions source (capital goods) is likely to be between 0% and 5% of attributable emissions, which is not large compared to other attributable emissions.</p> <p><b>Influence:</b> We do not have the potential to significantly influence the emissions from this source, including by shifting to a different lower-emissions supplier for our product. Most capital goods related emissions are historical emissions.</p> <p><b>Risk:</b> There are no relevant laws or regulations that apply to limit emissions specifically from this source, the source does not create supply chain risks, and it is unlikely to be of significant public interest.</p> <p><b>Stakeholders:</b> Key stakeholders, including the public, are unlikely to consider this a relevant source of emissions for our product.</p> <p><b>Outsourcing:</b> n/a.</p>
<b>Personnel</b>	N	N	N	N	N	<p><b>Size:</b> Personnel is likely to be between 0% and 5% of attributable emissions, which is not large compared to other attributable emissions.</p> <p><b>Influence:</b> We do not have the potential to significantly influence the emissions from this source.</p> <p><b>Risk:</b> There are no relevant laws or regulations that apply to limit emissions specifically from this source, the source does not create supply chain risks, and it is unlikely to be of significant public interest.</p> <p><b>Stakeholders:</b> Key stakeholders, including the public, are unlikely to consider this a relevant source of emissions for our product.</p> <p><b>Outsourcing:</b> n/a</p>



An Australian Government Initiative

