



PUBLIC DISCLOSURE STATEMENT

YALLAMUNDI FARMS PTY LTD

**PRODUCT
FY2020–21 (TRUE UP)**


Australian Government

Climate Active Public Disclosure Statement



An Australian Government Initiative



NAME OF CERTIFIED ENTITY	Yallamundi Farms Pty Ltd, ABN 49 635 480 269
REPORTING PERIOD	1 July 2020 – 30 June 2021 True up
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 Carbon Neutral Standard.</i></p>  <p>Adam Birch COO Date: 9/5/22</p>



Australian Government
**Department of Industry, Science,
Energy and Resources**

Public Disclosure Statement documents are prepared by the submitting organisation. The material in Public Disclosure Statement documents represents the views of the organisation and do not necessarily reflect the views of the Commonwealth. The Commonwealth does not guarantee the accuracy of the contents of the Public Disclosure Statement documents and disclaims liability for any loss arising from the use of the document for any purpose.

Version September 2021. To be used for FY20/21 reporting onwards.



1.CERTIFICATION SUMMARY

TOTAL EMISSIONS OFFSET	336 t CO ₂ -e
THE OFFSETS BOUGHT	100% ACCUs
RENEWABLE ELECTRICITY	30.79%
TECHNICAL ASSESSMENT	03/11/2021 Dr Stephen Wiedemann Integrity Ag and Environment Next technical assessment due: 30/10/22

Contents

1. Certification summary	3
2. Carbon neutral information	4
3. Emissions boundary	5
4. Emissions reductions.....	9
5. Emissions summary	10
6. Carbon offsets	12
7. Renewable Energy Certificate (REC) summary.....	15
Appendix A: Additional information	16
Appendix B: Electricity summary	17
Appendix C: Inside emissions boundary	19
Appendix D: Outside emissionS boundary	20
Appendix D: Outside emission boundary.....	22

2. CARBON NEUTRAL INFORMATION

Description of certification

This carbon neutral product certification is for eggs produced and processed, including grading and packaging, by Yallamundi Farms Pty Ltd.

Product description

Yallamundi Farm is a family-owned egg producer on the Darling Downs, Queensland. Yallamundi Farm operates both organic and pasture raised egg production (layer) systems.

Yallamundi Farm supplies eggs from a locally integrated supply chain that includes pullet rearing, feed milling, egg production and egg grading (for grading and packaging eggs for wholesale/retail distribution).

Yallamundi Farms Pty Ltd (ABN 49 635 480 269) has now developed a carbon neutral product for the eggs produced by Yallamundi Farm.

The reference/functional unit for this certification is t CO₂-e per one dozen package ("carton") of eggs from Yallamundi Farms Pty Ltd.

"At Yallamundi Farm, we're very aware of the legacy we'll leave for future generations – and that's why we're creating a new standard for sustainable egg farming. We value our role as caretakers of the land, and we're passionate about regenerating the land on which we tread – leaving it better than when we found it, for this lifetime and many more."

3.EMISSIONS BOUNDARY

Inside the emissions boundary

All emission sources listed in the emissions boundary are part of the carbon neutral claim.

Quantified emissions have been assessed as 'attributable processes' that become the product, make the product and carry the product through its life cycle. These 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. 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 carbon neutral claim). Further detail is available at Appendix D.

This product certification implements the following emissions boundary, per Figure 1 below.

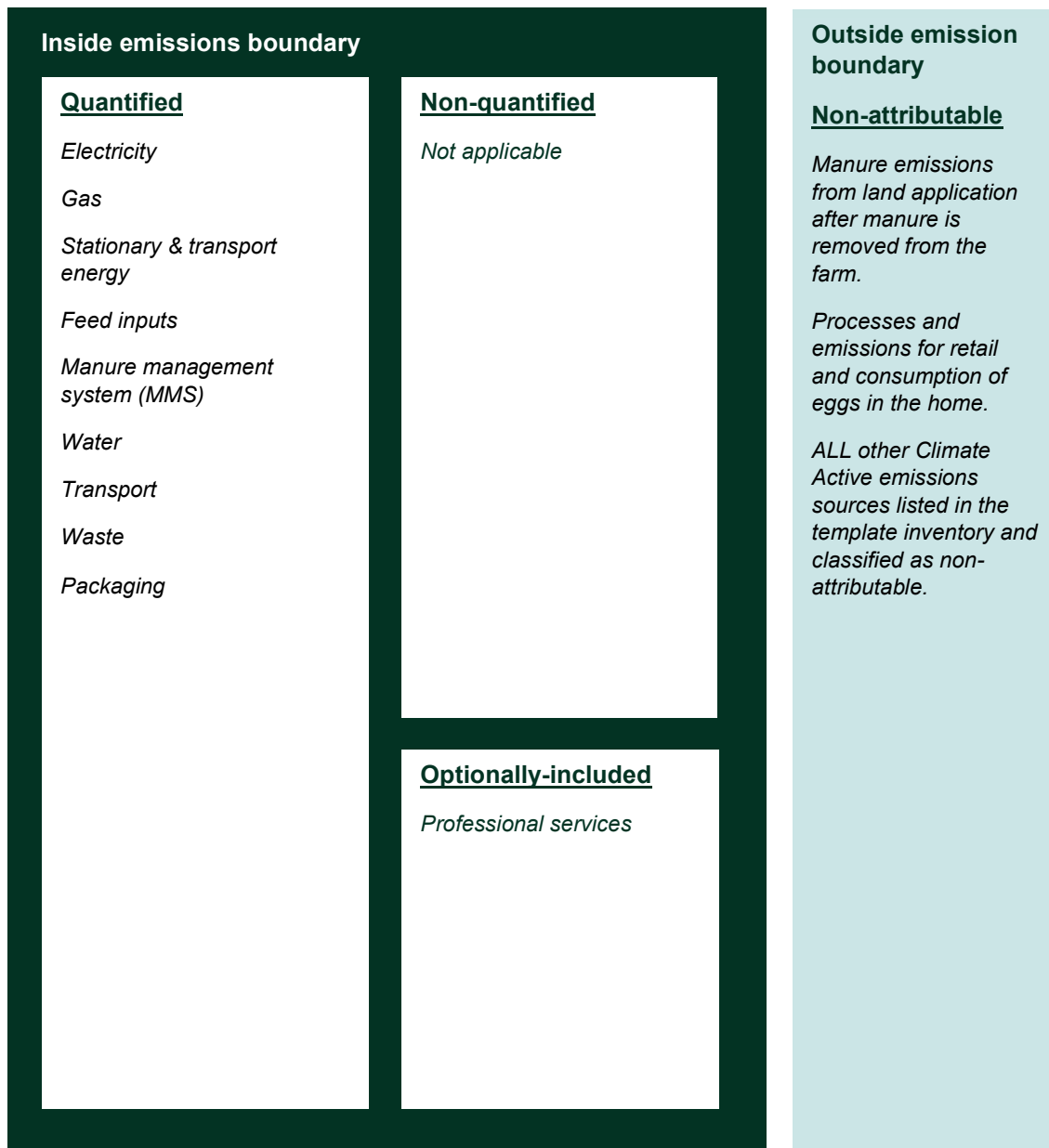


Figure 1 The certification boundary for eggs produced at Yallamundi Farms.

Product process diagram

The following diagram is cradle to gate and represents the production supply chain for Yallamundi Farm packaged eggs to the grading plant gate, including packaging and transport to the wholesale centre.

The product is eggs from Yallamundi Farms, with the production process for this system including the following stages: pre-farm production (breeding & hatchery, feed inputs), on-farm feed milling (feed inputs to layer ration), on-farm egg production, on-farm grading (and packaging), post grading transport to the wholesale centre. Please refer to Figure 2 below.

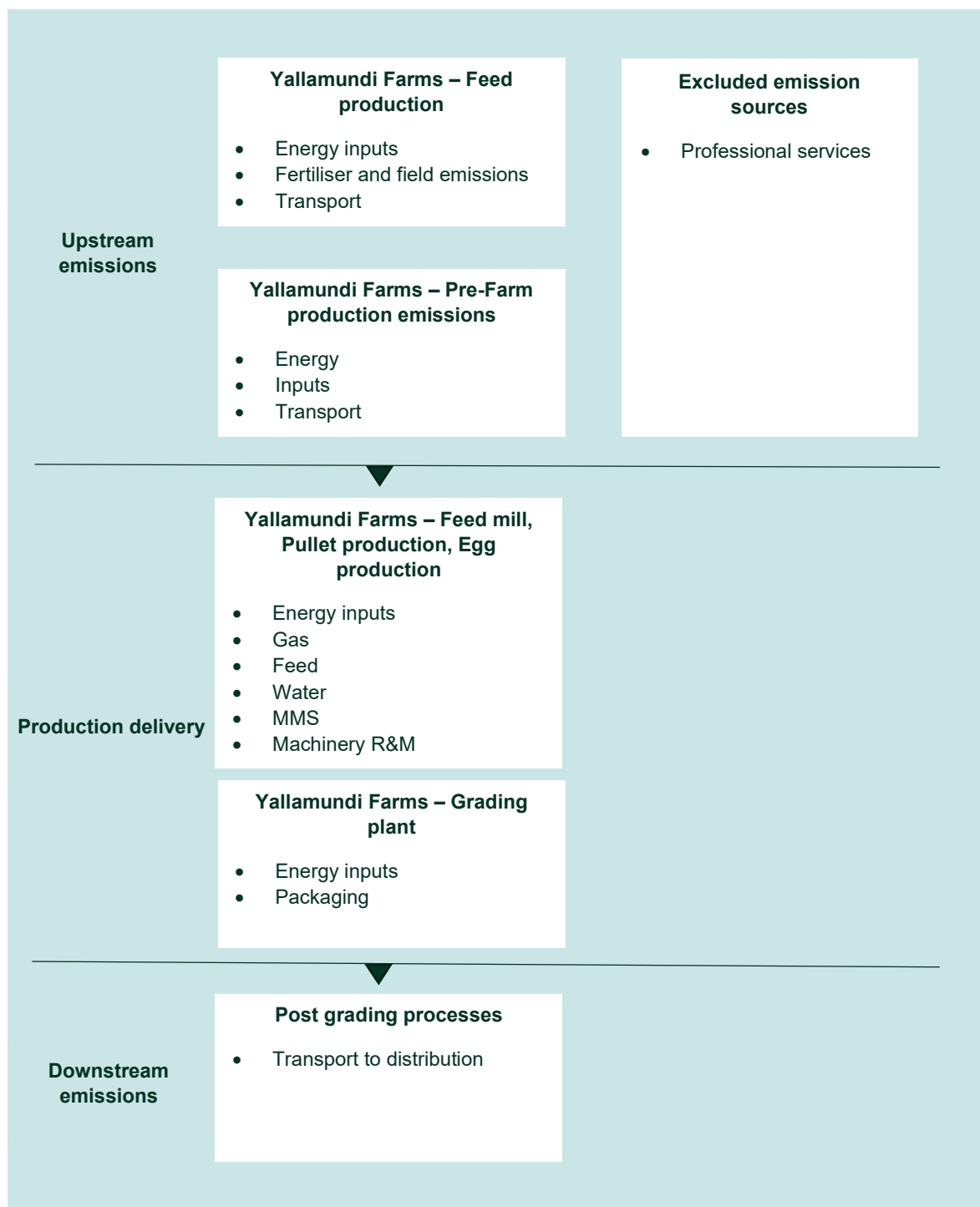


Figure 2 Climate Active Process Diagram, Yallamundi Farm.

Data management plan for non-quantified sources

This reporting period represents a true up to recalculate the carbon account inventory with actual data following the use of estimated projected data for the baseline year.

In the coming year, we have identified an opportunity to improve the data quality of diesel and petrol use emission sources. At present, all fuel used at the site has been attributed to eggs, but this over-estimates impacts slightly because other operations are also undertaken on the site that are not directly related to egg production. An electronic recording system to monitor and record use specific to the production of eggs is recommended to be in place for the next reporting period.

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

4.EMISSIONS REDUCTIONS

Emissions reduction strategy

In egg production systems, Australian research has shown that there are three key processes and system attributes that impact emissions. These are feed production and use, energy use (on-farm and for grading) and emissions from the manure management system (MMS). Of these, analysis of the carbon inventory (account) for the Yallamundi Farm supply chain confirmed that feed production and the manure management system (MMS) were significant emissions hotspots.

As part of Yallamundi Farm's commitment to mitigating emissions, a five-year reduction strategy has been developed that will be implemented from 2022 onwards.

The strategy will include:

- Investigating lower emission feed inputs to reduce environmental impacts from the diet.
- Improve on-farm productivity via improved feed conversion to reduce feed requirements and manure emissions.
- Implementing a centralised recording system to trace diesel and petrol use specific for egg production purposes.
- Reducing energy use and increasing the use of renewable energy.

Emissions reduction actions

Yallamundi Farms has experienced rapid expansion over the last FY. Emission intensity was found to be similar to the baseline and total emissions increased in line with expanded sales volumes. As the facility is expanding production volumes, this trend in total emissions may continue to increase, but actions to reduce the emission intensity will be pursued to lower emissions relative to product output.

5.EMISSIONS SUMMARY

Emissions over time

Table 1 Emissions and emission intensity for the baseline year and true up of emissions

Emissions since base year			
		Total tonnes CO ₂ -e	Emissions intensity of the functional unit
Base year:	2019–20	147.94	Confidential
Year 1 (True up):	2020–21	335.38	Confidential

Table 2 Number of functional units for the reporting period.

Number of functional units	
a) Number of functional units sold this period	Confidential

True up information

Sales significantly exceeded projections, resulting in increased emissions. On a functional unit basis, emission increased 1.3% in response to a more comprehensive inventory.

Significant changes in emissions

Yallamundi Farm is a new operation and FY 21 provides the first full year of data. The comparison dataset for the base year (FY 20) used inventory data in the start-up phase for Yallamundi, and data from a similar farm owned by the company to complete the inventory. In FY 21 small changes were observed but the net change in emission intensity was insignificant.

Use of Climate Active carbon neutral products

There were no carbon neutral products used for this certification.

Product emissions summary

The following table provides a recalculation of the carbon account from actual data necessary for a true up of emissions. An uplift factor of 2.5% was applied FY2020, which was not necessary in the present emissions summary as a more comprehensive assessment was possible.

Table 3 Emission source category summary relative to the total number of functional units sold

Emission source category	Projected emissions tonnes CO ₂ -e	Actual emissions tonnes CO ₂ -e
Machinery and equipment repairs and maintenance	2.97	3.31
Packaging materials and supplies	11.54	17.12
Professional services: marketing and advertising	0.68	1.85
Transport, onsite staff travel and fuel use	5.14	30.50
Postage, courier, and freight (eggs to retail, inputs to feed mill, bird movements)	12.04	24.55
Animal Health	3.60	5.82
Purchased feed (conventional and organic feed)	17.45	29.82
Bespoke feed (conventional and organic feed)	51.46	128.75
Manure management system	26.46	72.83
Breeding and hatchery	1.38	7.12
Compost for use internally (graded egg waste)	0.14	0.07
Total net electricity emissions (use and generation)	11.47	13.64
1. Total inventory emissions	144.33	335.38
1a. Number of functional units represented by the inventory emissions	Confidential	Confidential
2. Emissions per functional unit (based on the number of functional units represented by the inventory)	Confidential	Confidential
<i>Total tCO₂-e divided by the number of functional units in 1a.</i>		
3. Carbon footprint		
<i>(Emissions per functional unit (2)* number of functional units (a or b from table 2))</i>	144.33	335.38

* note rounding errors may cause minor differences in reported data.

6. CARBON OFFSETS

Offsets strategy

Offsets were forward purchased, for the first year of certification, on the basis of a proportion of estimated annual sales volumes covering April to June 2021. The current report represents the true up where purchased and required credits based on actual sales are reconciled and surplus credits are carried forward.

Table 4 Summary of forward purchased credits for FY 22

Offset purchasing strategy: Forward purchasing		
1.	Total offsets previously forward purchased and banked for this report	147.94
2.	Total emissions liability to offset for this report	335.38
3.	Net offset balance for this reporting period	187.44
4.	Total offsets to be forward purchased to offset the next reporting period	665
5.	Total offsets required for this report	336

Co-benefits

The project types stated here relate to 100 per cent of the total amount of offsets purchased and retired for this report. The activities of the human-induced regeneration of a permanent, even-aged native forest aims to improve the quality of land and water supply, increased biodiversity, and shade and shelter for stock.

Offsets summary

Table 5 Proof of cancellation of offset units

Offsets cancelled for Climate Active Carbon Neutral Certification										
Project description	Type of offset units	Registry	Date retired	Serial number (and hyperlink to registry transaction record)	Vintage	Eligible Quantity (t CO ₂ -e)	Quantity used for previous reporting periods	Quantity banked for future reporting periods	Quantity used for this reporting period claim	Percentage of total (%)
Boobera Carbon project	ACCUs	Australian National Registry of Emissions Units	11.02.2021	3,792,968,753 - 3,792,969,753	2019-2020	1001	148 (projected for this report)	665	336	100
Total offsets retired this report and used in this report									336	
Total offsets retired this report and banked for future reports									665	
Type of offset units				Quantity (used for this reporting period claim)			Percentage of total			
Australian Carbon Credit Units (ACCUs)				336			100			

7. RENEWABLE ENERGY CERTIFICATE (REC) SUMMARY

Renewable Energy Certificate (REC) Summary

N/A

APPENDIX A: ADDITIONAL INFORMATION

N/A

APPENDIX B: ELECTRICITY SUMMARY

Electricity emissions are calculated using a location-based approach.

Location-based method

The location-based method provides a picture of a business's electricity emissions in the context of its location, and the emissions intensity of the electricity grid it relies on (Table 7). It reflects the average emissions intensity of the electricity grid in the location (State) in which energy consumption occurs. The location-based method does not allow for any claims of renewable electricity from grid-imported electricity usage.

Market-based method

The market-based method provides a picture of a business's electricity emissions in the context of its renewable energy investments (Table 6). It reflects the emissions intensity of different electricity products, markets and investments. It uses a residual mix factor (RMF) to allow for unique claims on the zero emissions attribute of renewables without double-counting.

Table 6 Market-based summary of electricity emissions

Market Based Approach Summary			
Market Based Approach	Activity Data (kWh)	Emissions (kgCO ₂ e)	Renewable Percentage of total
Behind the meter consumption of electricity generated	2,514	0	15%
Total non-grid electricity	2,514	0	15%
LGC Purchased and retired (kWh) (including PPAs & Precinct LGCs)	0	0	0%
GreenPower	0	0	0%
Jurisdictional renewables (LGCs retired)	0	0	0%
Jurisdictional renewables (LRET) (applied to ACT grid electricity)	0	0	0%
Large Scale Renewable Energy Target (applied to grid electricity only)	2,776	0	16%
Residual Electricity	11,893	12,762	0%
Total grid electricity	14,669	12,762	16%
Total Electricity Consumed (grid + non grid)	17,183	12,762	31%
Electricity renewables	5,290	0	
Residual Electricity	11,893	12,762	
Exported on-site generated electricity	0	0	
Emission Footprint (kgCO ₂ e)		12,762	
Total renewables (grid and non-grid)		30.79%	
Mandatory		16.16%	
Voluntary		0.00%	
Behind the meter		14.63%	
Residual Electricity Emission Footprint (TCO₂e)		13	

Figures may not sum due to rounding. Renewable percentage can be above 100%

Table 7 Location-based summary of electricity emissions

Location Based Approach Summary		
Location Based Approach	Activity Data (kWh)	Emissions (kgCO ₂ e)
ACT	0	0
NSW	0	0
SA	0	0
Vic	0	0
Qld	14,669	13,643
NT	0	0
WA	0	0
Tas	0	0
Grid electricity (scope 2 and 3)	14,669	13,643
ACT	0	0
NSW	0	0
SA	0	0
Vic	0	0
Qld	2,514	0
NT	0	0
WA	0	0
Tas	0	0
Non-grid electricity (Behind the meter)	2,514	0
Total Electricity Consumed	17,183	13,643
Emission Footprint (TCO₂e)	14	

APPENDIX C: INSIDE EMISSIONS BOUNDARY

Non-quantified emission sources

Table 8 Non-quantification test

Relevant-non-quantified emission sources	(1) Immaterial	(2) Cost effective (but uplift applied)	(3) Data unavailable (but uplift applied & data plan in place)	(4) Maintenance
Not applicable	n/a	n/a	n/a	n/a

Excluded emissions sources

Table 9 Excluded emissions

	No actual data	No projected data	Immaterial
Not applicable	n/a	n/a	n/a

APPENDIX D: OUTSIDE EMISSIONS BOUNDARY

Non-attributable emissions have been assessed as not attributable to a product (do not carry, make or become the product) and are therefore not part of the carbon neutral claim. To be deemed attributable, emissions 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 carbon neutral claim. Non-attributable emissions are detailed below.

Table 10 Relevance test

Relevance test					
Non-attributable emission	<i>The emissions from a particular source are likely to be large relative to the organisation's electricity, stationary energy and fuel emissions.</i>	<i>The emissions from a particular source contribute to the organisation's greenhouse gas risk exposure.</i>	<i>Key stakeholders deem the emissions from a particular source are relevant.</i>	<i>The responsible entity has the potential to influence the reduction of emissions from a particular source.</i>	<i>The emissions are from outsourced activities previously undertaken within the organisation's boundary, or from outsourced activities typically undertaken within the boundary for comparable organisations.</i>
Cleaning and janitorial equipment and supplies	No	No	No	Yes	No
Cleaning Services	No	No	No	Yes	No
Pesticide (L)	No	No	No	Yes	No
Sanitary and garbage disposal	No	No	No	Yes	No
ICT services	No	No	No	Yes	No

Telephone & internet	No	No	No	No	No
Animal control services	No	No	No	Yes	No
Pest control Products	No	No	No	Yes	No
Rates & Taxes	No	No	No	No	No
Marketing & distribution	No	No	No	Yes	No
Business services	No	No	No	Yes	No
Accounting and bookkeeping services	No	No	No	Yes	No
Advertising & Promotion	No	No	No	Yes	No



An Australian Government Initiative

