

# ORGANISATIONAL GREENHOUSE GAS EMISSIONS INVENTORY (CARBON FOOTPRINT) FY 2015/16

For **Cannings Free Range Butchers**

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Prepared by **Scott Favacho**  
Senior Carbon Advisor  
Carbon Neutral  
+61 (0)89200 4424  
[scottf@carbonneutral.com.au](mailto:scottf@carbonneutral.com.au)  
[www.carbonneutral.com.au](http://www.carbonneutral.com.au)

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## TABLE OF CONTENTS

SUMMARY	3
ABOUT THE ORGANISATION	3
EMISSIONS SCOPE & OPERATIONAL BOUNDARY	3
METHODOLOGY & EMISSIONS FACTORS	4
2015/16 GHG EMISSIONS	4
HISTORICAL GHG EMISSIONS	6
2015/16 GHG REDUCTIONS & EXCLUSIONS	7



## SUMMARY

Organisation Name:	Cannings Free Range Butchers
Period:	1 July 2015 to 30 June 2016
Disclosure type:	Organisational Carbon Neutrality
Total Gross Greenhouse Gas (GHG) Emissions:	336.83 t CO <sub>2</sub> -e
Total Net GHG Emissions:	0 t CO <sub>2</sub> -e

## ABOUT THE ORGANISATION

Cannings Free Range Butchers is a family owned and operated business that offers free range meats and products for retail sale. Meats supplied are sourced from 100% grass fed stock and this small business started on 18 July 2010. A second outlet (Kew) in 2013 and a third outlet (Malvern) opened in 2015.

Cannings Free Range Butchers believe in supplying “ethical” meat products to customers and only sell free range meats and products containing free range meat ingredients. Cannings Free Range Butchers also stock fresh seafood that is sustainably sourced and not in threat of overfishing.

Cannings Free Range Butchers have been offsetting their operational greenhouse gas emissions since they opened with Carbon Neutral.

## EMISSIONS SCOPE & OPERATIONAL BOUNDARY

The emissions scope and organisational boundary for the GHG emissions inventory has been developed in accordance with the GHG Protocol and includes GHG emitting activities considered to be under the *operational control* of the business.

Cannings Free Range Butchers’ Greenhouse Gas (GHG) Emissions Inventory includes aspects of operations that the business has operational control over, as well as activities which the business could influence. The seven GHG sources covered by the Kyoto Protocol: carbon dioxide (CO<sub>2</sub>), methane (CH<sub>4</sub>), nitrous oxide (N<sub>2</sub>O), hydrofluorocarbons (HFCs), perfluorocarbons (PFCs) sulphur hexafluoride (SF<sub>6</sub>) and nitrogen trifluoride (NF<sub>3</sub>) are included and reported as units of carbon dioxide equivalents (CO<sub>2</sub>-e).

Operating locations and GHG emissions from following facilities have been included in this GHG Emissions inventory.

**FIGURE 1: Facilities included in carbon footprint study**



## METHODOLOGY & EMISSIONS FACTORS

Except where otherwise stated in this report, Carbon Neutral has calculated Cannings Free Range Butchers' scope 1 and 2 emissions using the Department of the Environment's National Greenhouse Accounts (NGA) Factors (August 2015).

Scope 3 emissions are generally much harder to quantify as these emissions came from various activities often with no direct way to easily measure the contribution to climate change. In these cases, in addition to the NGA Factors and Technical Guidelines, we used external, credible sources to perform our calculations.

Other references used include the UK Government's DEFRA and DECC's Conversion Factors for Company Reporting 2015, EPA Victoria's Greenhouse Gas Emission Factors for Office Copy Paper, the University of Sydney and CSIRO's Balancing Act 2005 and the National Water Commission's National Performance Report 2012-13 (Urban Water Utilities).

Cannings Free Range Butchers provided Carbon Neutral with activity data that has been used to calculate GHG emissions.

*The veracity of this data is taken to be complete and accurate and has not been audited or independently verified by Carbon Neutral.*

## 2015/16 GHG EMISSIONS

The following activities listed in Table 1 are included in the GHG emissions inventory.

**TABLE 1: Activity sources and scope of emissions (2015/16)**

Scope 1	Scope 2	Scope 3
Fleet fuel use	Electricity (indirect – use)	Waste (landfill)
Fugitive emissions		Consumables
		Water Use
		Electricity (indirect)
		Fleet fuel use (indirect)

The following table provides a breakdown of GHG emissions by activity type for the business for 2015/16.

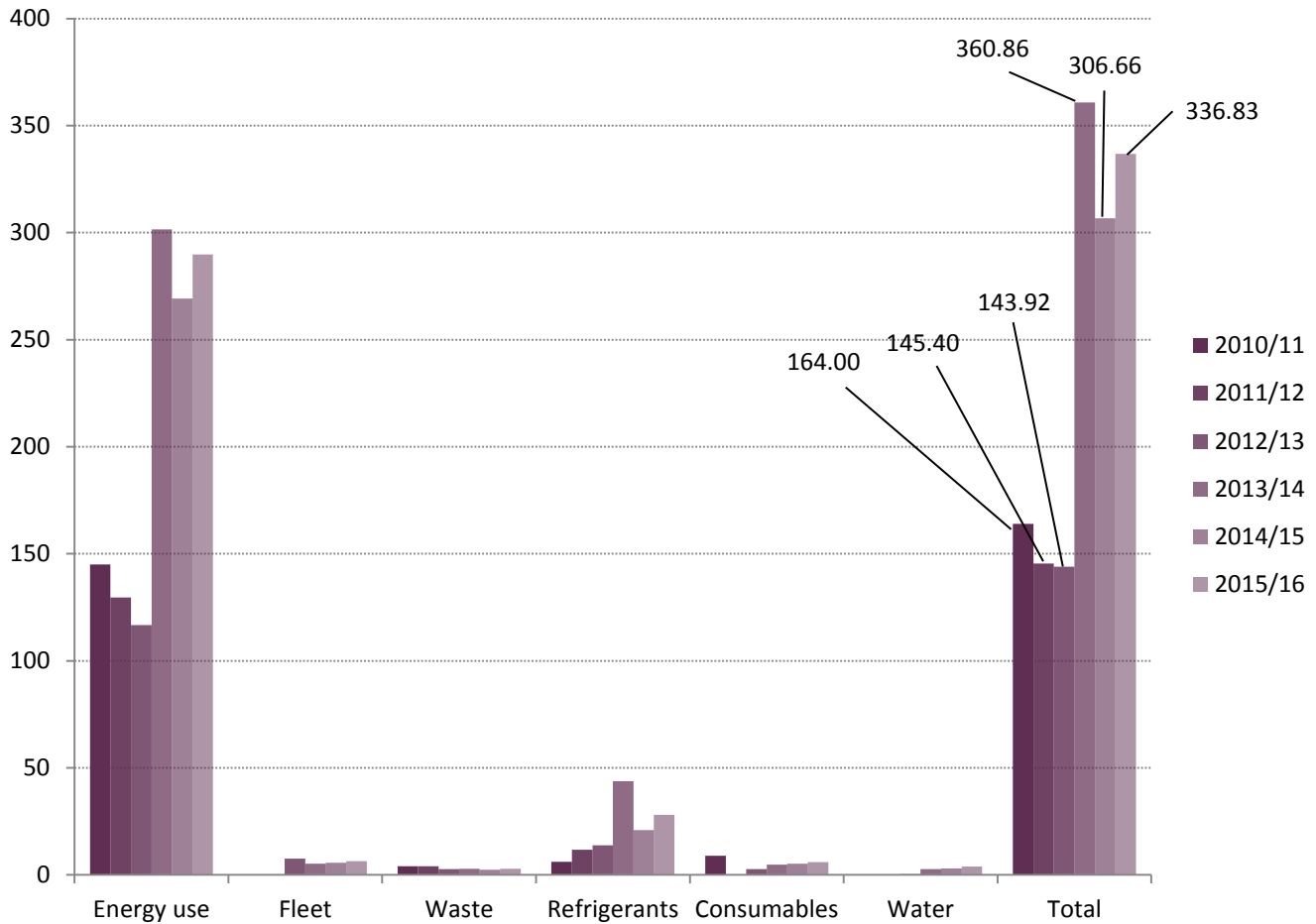
**TABLE 2: Gross GHG emissions from activities by GHG type (2015/16)**

Activity	CO <sub>2</sub> (t CO <sub>2</sub> -e)	CH <sub>4</sub> (t CO <sub>2</sub> -e)	N <sub>2</sub> O (t CO <sub>2</sub> -e)	HFCs (t CO <sub>2</sub> -e)	PFCs (t CO <sub>2</sub> -e)	SF <sub>6</sub> (t CO <sub>2</sub> -e)	TOTAL (t CO <sub>2</sub> -e)
Fleet	6.38	0	0.05	0	0	0	6.44
Fugitive emissions	0	0	0	28.01	0	0	28.01
Electricity	289.85	0	0	0	0	0	289.85
Waste (landfill)	0	2.81	0	0	0	0	2.81
Consumables	5.90						5.90
Water use	3.83						3.83
<b>Total Gross GHG Emissions (t CO<sub>2</sub>-e)</b>							<b>336.83</b>

# HISTORICAL GHG EMISSIONS

The following diagram shows historical gross GHG emissions for the business.

**FIGURE 2: Historical gross GHG Emissions for Cannings Free Range Butchers (t CO<sub>2</sub>-e)**



New outlets were opened in Kew in 2013 and in Malvern in 2015.

# 2015/16 GHG REDUCTIONS & EXCLUSIONS

**Net GHG emissions are calculated to be zero tonnes CO<sub>2</sub>-e for 2015/16.**

Net GHG emissions are achieved by the business using 100% renewable energy for its operations as well as from the purchase of carbon offsets for unavoidable GHG emissions.

## Recycling

Emissions from waste sent for recycling have not been included due to its diversion from landfill. The business recycles its waste paper and cardboard where possible and has avoided 42.87 t CO<sub>2</sub>-e of methane from being released.

## Renewable Energy

All three facilities used 100% renewable energy sourced from hydro schemes for their electricity. Emissions of 287.28 t CO<sub>2</sub>-e have been avoided from the purchase of GreenPower™, and only emissions associated with transmission and distribution scope 3 emissions have been included for electricity use.

## Carbon Offsets

Cannings Free Range Butchers purchase carbon offsets from Carbon Neutral to offset its remaining emissions.

*By offsetting the remainder of its unavoidable GHG emissions, the organisation is considered to be a carbon neutral organisation.*

Carbon offsets for 2015/16 organisational GHG emissions were purchased by Cannings Free Range Butchers and details of this are shown in the following table.

**TABLE 3: Details of carbon offsets purchased for 2015/16**

Type of Offset	Tonnes Purchased & allocation date
Biodiverse Reforestation Carbon Offsets	50.00
Serial No.'s:	12PWA043760B to 12PWA043809B
TOTAL tonnes retired for 2015/16	50.00
<b>NET GHG Emissions after GreenPower and Offsetting</b>	<b>ZERO t CO<sub>2</sub>-e</b>

**TABLE 4: Net GHG Emissions for 2015/16**

Gross GHG Emissions	GreenPower purchased	Carbon offsets purchased	Net GHG Emissions
t CO <sub>2</sub> -e			
336.83	287.28	50.00	-0.45