CSIRO FREEDOM OF INFORMATION OFFICE www.csiro.au



Limestone Avenue, Campbell ACT 2601 PO Box 225, Dickson ACT 2602, Australia ABN 41 687 119 230

This document was created in response to a Freedom of Information request made to CSIRO.

FOI Number: FOI2011/26

Date: 27 June 2011

Request: Documents relating to final carbon foot print audits for the CSIRO over the

past five years

Document: Part 2

For more information, please refer to CSIRO's FOI disclosure log at www.csiro.au/FOILog

Commonwealth Scientific and industrial Research Organisation

ABN: 41 687 119 230 R090819-00534

NATIONAL GREENHOUSE AND ENERGY REPORT

Commonwealth Scientific and Industrial Research Organisation FOR THE REPORTING PERIOD 01/07/2008 - 30/06/2009

PART A

Reporting under the National Greenhouse and Energy Reporting (NGER) Act 2007

A registered corporation is to submit Part A and B report components, which together comprise the National Greenhouse and Energy Report (the Report), in accordance with section 19 of the NGER Act and regulation 4.02 of the NGER Regulations. This Report contains information in relation to the greenhouse gas emissions, energy production and energy consumption from the operation of facilities under "be operational control of the registered corporation or members of the corporation's group during the reporting period.

If this Report is being submitted by an "other person" as declared by the Greenhouse and Energy Data Officer under s.20 of the NGER Act, the Report only needs to contain the s.19 information that is not in the possession or under control of the registered corporation.

This Report must contain any information specified by the NGER.legislation, and data used to compile the Report must be based on the methods specified in the NGER (Measurement) Determination 2008.

Submitting the Report

This Report is only valid when Part B has been completed in Online System for Comprehensive Activity Reporting (OSCAR) and a printed and signed Part A has subsequently been received by the Greenhouse and Energy Reporting Office. The Part A report is only to be signed after Part B has been completed in OSCAR. If the information provided at Part B has been altered after the signing of Part A, the Report will no longer be valid. To ensure that a valid Report has been provided, please check that the version designated (in the footer of the report) on Part A corresponds with that on Part B. A hardcopy version of Part B does not need to be sent along with the signed Part A.

CORPORATION DETAILS

Controlling Corporation Name:

Commonwealth Scientific and Industrial Research Organisation

ABN:

41 687 119 230

Chief Executive Officer (or equivalent):

Dr Megan Clark

Corporation Head Office Street Address:

Limestone Ave CAMPBELL, ACT 2612

Corporation Postal Address:

PO Box 225 DICKSON, ACT 2602

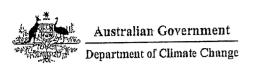
Part A Report - Commonwealth Scientific and Industrial Research Organisation

Version 4.00

Page 1 of 47

Final

COMMERCIAL-IN-CONFIDENCE



Commonwealth Scientific and Industrial Research Organisation

ABN: 41 687 119 230 R090819-00534

CEO (or equivalent) details:

Name: Dr Megan Clark

Position: Chief Executive Officer

Address: PO Box 225

DICKSON, ACT 2602

Contact Person details:

Name: Dr Antony Hudson

Position: Environmental Sustainability

Manager

Address: PO Box 225

DICKSON, ACT 2602

Phone: 0262766621

Email: megan.clark@csiro.au

Phone: 0262766173

Emall: tony.hudson@csiro.au

GREENHOUSE GAS EMISSIONS AND ENERGY TOTALS FOR THE REPORTING PERIOD 01/07/2008 - 30/06/2009

The table below reports total scope 1 and scope 2 greenhouse gas emissions (GHG), energy produced and energy consumed by the corporate group as reported in detail in Part B of this Report.

	OHG EMISSIONS		ENE	RGY WEST
Scope	Scope 2	Motal of Scope 1	Energy Consumed	Energy Produced
(t;@0;-e)	# (tŒOz=e) idia	rand Scope Z (t.002-e)		
17,776	118,197	135,973	725,646	795

This report contains data that has been measured using the following methods as outlined in the National Greenhouse and Energy Reporting (Measurement) Determination 2008

Method 1 Known as the default method, derived from the National Greenhouse Accounts methods and is based on national average

STATEMENTS

Any statements below are system generated for Reports prepared under certain provisions in the NGER legislation.

Aggregated facility data (regulation 4.25):

This Report contains aggregate values on more than 1 facility of the corporation whose operation, in a reporting year:

(a) emits greenhouse gases with a carbon dioxide equivalence of less than 25 kilotonnes; and

(b) consumes less than 100 terajoules of energy; and

(c) produces less than 100 terajoules of energy; and (d) all of those facilities are within 1 State or Territory and are attributable to 1 industry sector in accordance with

Subdivisions 2.4.2 and 2.4.3 of Division 2.4 of Part 2 of the NGER Regulations.

Reporting about incidental emissions and energy (regulation 4.27):

This Report contains greenhouse gas emissions and energy information from facilities that is incidental to the operation of the facility and reported in accordance with NGER regulation 4.27.

The measurement of the production of energy from these sources using another method or criteria in the Determination would cause the corporation significant hardship or expense.

Corporate group threshold met:

The corporate group of Commonwealth Scientific and Industrial Research Organisation has met a corporate group threshold prescribed in sections 13 (1)(a),(b), or (c) of the NGER Act during the reporting year and is reporting under Divisions 4.3 to 4.5 of the NGER regulations (regulation 4.02(3)(b)).

Parl A Report - Commonwealth Scientific and Industrial Research Organisation

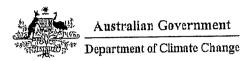
Version 4.00

Page 2 of 47

Date Created: 02/12/2009

Final

COMMERCIAL-IN-CONFIDENCE



Commonwealth Scientific and Industrial Research Organisation

ABN: 41 687 119 230

R090819-00534

VALIDATION WARNINGS

This report contained 0 unresolved warnings listed in Part B of the Report.

PRIVACY STATEMENT

Personal Information

Under the NGER Act and the NGER Regulations, the Greenhouse Energy Data Officer (the GEDO) and authorised staff have the authority to collect information which may include personal information as defined by the Privacy Act 1988 (Cth).

"Personal information", as defined in the Privacy Act, means any information from which a person's identity is apparent or can be reasonably ascertained.

in compliance with the Privacy Act, the Greenhouse and Energy Reporting Office of the Department of Climate Change has appropriate measures in place to ensure that personal information is protected. Measures include procedures and systems for the receipt, nanagement and storage of personal information and ongoing monitoring of these arrangements.

Disclosure of information

The GEDO and authorised staff are only able to disclose greenhouse and energy information (which may include personal information) in accordance with the NGER Act or as otherwise required by law.

information may be disclosed for the following purposes:

- · administering a program or collecting statistics relating to greenhouse gas emissions, energy consumption or energy production;
- in connection with court or tribunal proceedings, or proposed or possible court or tribunal proceedings under the NGER Act;
 facilitating reviews of Australia's compliance with its international obligations relating to reporting of greenhouse gas emissions, consumption of energy or production of energy; and
- streamlining State and Territory programs in accordance with the objectives of the NGER Act.

The full Privacy Statement for the Department of Climate Change is available online at http://www.climatechange.gov.au/statements/privacy.html.

If you have further questions on privacy of information collected under the NGER Act, please contact the Greenhouse and Energy Reporting Office on 1800 018 831.

DECLARATION

The CEO (or equivalent) should read the following declaration and sign below

The NGER legislation mandates that registered corporations or "other persons" declared under s.20 of the NGER Act ("reporting entity's") provide complete and accurate information. It is the reporting entity's responsibility to ensure that information that may or may not be provided in the Report has been calculated in accordance with the NGER legislation.

Under the NGER Act and NGER Regulations, it is the responsibility of the reporting entity to provide the necessary information in their Report even if someone else assists it in preparing that data.

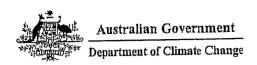
Part A Report - Commonwealth Scientific and Industrial Research Organisation

Version 4.00

Final

Page 3 of 47

COMMERCIAL-IN-CONFIDENCE



Commonwealth Scientific and Industrial Research Organisation

ABN: 41 687 119 230 R090819-00534

In order to assist reporting entities to comply with their reporting obligations under the NGER Act and NGER Regulations, the Commonwealth has developed the National Greenhouse and Energy Reporting Guidelines (the Reporting Guidelines). The Reporting Guidelines can be used in conjunction with the NGER Technical Guidelines, which were developed to assist stakeholders understand and apply the NGER (Measurement) Determination 2008.

It should be noted that neither the Reporting Guidelines nor the NGER Technical Guidelines constitute legal advice. Reporting entities are encouraged to seek independent advice to find out how the NGER Act and its subordinate legislation applies, as it is the responsibility of each reporting entity to satisfy its statutory obligations.

Reporting entities should not use OSCAR as a substitute for undertaking their own independent review of the information provided in their Reports. OSCAR has some inbuilt checking mechanisms designed to assist reporting entities to submit valid Reports. These checks should not be relied upon to ensure that the data that has been entered into OSCAR, including corporate group structure, is correct and in accordance with the legislative requirements of the NGER Act.

Under sections 19 and 20 of the NGER Act, a reporting entity who fails to provide a Report in compliance with its obligations could be liable for a civil penalty of up to 2,000 penalty units (under the Crimes Act 1914, a penalty unit is equal to \$110). Under section 30 of the NGER Act, a reporting entity may be liable for an additional civil penalty for each day on and after the due date of the Report.

In accordance with section 22 of the NGER Act, a reporting entity is required to maintain records of the activities that it is responsible in order to demonstrate that it has complied with its obligations under the NGER legislation. Records should be retained for a period of 7 years from the end of the year in which the activities took place. Failure to comply with this directive could be punishable by up to 1,000 penalty units.

By signing below, the Chief Executive Officer (or equivalent) as identified above acknowledges the above declaration and that:

- · Parts A and B of this Report are being provided by the identified reporting entity in accordance with the NGER legislation;
- either
- - the corporation was a registered corporation at the end of the financial year to which the Report relates; or - the Report is being provided by an "other person" as declared by the GEDO under s.20 of the NGER Act;
- · the validation warnings Identified in this Report have been noted;
- the Information supplied in Parts A and B of this Report is current, correct and in accordance with the NGER Act 2007, NGER Regulations 2008 and NGER (Measurement) Determination 2008; and
- under Division 137 of the Criminal Code it may be an offence to provide false or misleading information or documents to the GEDO in purported compliance with this Act.

Name of CEO or equivalent (In Full)

Signature of CEO or equivalent

Date

lar K

Parl A Report - Commonwealth Scienlific and Industrial Research Organisation

Version 4.00

Page 4 of 47

Date Created: 02/12/2009

Final



Commonwealth Scientific and Industrial Research Organisation

ABN: 41 687 119 230

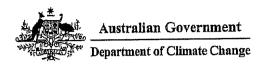
R090819-00534

Date Created: 02/12/2009

Once signed, a copy of Part A should be kept for your records. The original Part A should be sent by post so that it is received by the GEDO, at the following address, before your reporting due date. A hardcopy version of Part B does not need to be sent with Part A.

Post: Greenhouse and Energy Data Officer NGER Office Department of Climate Change GPO Box 854 CANBERRA ACT 2601

After the signed copy of Part A is received by the Greenhouse and Energy Reporting Office, the primary contact will be sent a written receipt confirmation that the Report has been received in full.



Commonwealth Scientific and Industrial Research Organisation

ABN: 41 687 119 230

R090819-00534

NATIONAL GREENHOUSE AND ENERGY REPORT

Commonwealth Scientific and Industrial Research Organisation FOR THE REPORTING PERIOD 01/07/2008 - 30/06/2009

PART B

Head Office Postal Address:

Head Office Street Address:

PO Box 225 DICKSON, ACT 2602 Limestone Ave CAMPBELL, ACT 2612

Reporting under the National Greenhouse and Energy Reporting (NGER) Act 2007

A registered corporation is to submit Part A and B report components, which together comprise the National Greenhouse and Energy Report (the Report), in accordance with section 19 of the NGER Act and regulation 4.02 of the NGER Regulations. This Report contains information in relation to the greenhouse gas emissions, energy production and energy consumption from the operation of facilities under the operational control of the registered corporation or members of the corporation's group during the reporting period.

If this Report is being submitted by an other person as declared by the Greenhouse and Energy Data Officer under s.20 of the NGER Act, the Report only needs to contain the s.19 information that is not in the possession or under control of the registered corporation.

This Report must contain any information specified by the NGER legislation, and data used to compile the Report must be based on the methods specified in the NGER (Measurement) Determination 2008.

Submitting the Report

Part B of this Report is to be completed in the Online System for Comprehensive Activitiy Reporting (OSCAR), however the Report is not valid until a printed Part A report is subsequently signed and received by the Greenhouse and Energy Reporting Office. The Part A report is only to be signed after Part B has been completed in OSCAR. If the information provided at Part B has been altered after the signing of Part A, the Report will no longer be valid. To ensure that a valid Report has been provided, please check that the version designated on Part A corresponds with that on Part B. A hardcopy version of Part B does not need to be sent along with the signed Part A.

NB: If a registered corporation does not meet a threshold under section 13 of the NGER Act, the data tables in this report will be blank, but group member and facility details will be included with a statement to satisfy legislative requirements.

GREENHOUSE GAS EMISSIONS AND ENERGY TOTALS FOR THE REPORTING PERIOD

The tables below report total scope 1 and scope 2 greenhouse gas emissions (GHG), energy consumed and energy produced by the corporate group if a s.13 threshold is met for the reporting period.

Part B Report - Commonwealth Scientific and Industrial Research Organisation

Version 4.00

Page 6 of 47

Final

COMMERCIAL-IN-CONFIDENCE

Australian Government Department of Climate Change

Commonwealth Scientific and Industrial Research Organisation

ABN: 41 687 119 230

R090819-00534

		GHGÆMISSIØNS			
	25copev http://dicoore	Scoper29 (n/CO2-e)	ifiotal of Scope il. and Scope 21. (f.CO2-e))	Energy(Consumedi (GJ)	(2)
energy Ac	iuai 17,776	118,197	135,973	725,646	795
Convente	lito	0	0	0	0
/ Corpora	loni 17,776	118,197	135,973	725,646	795

		GHC Scope 1	Emission By	Gas (t.COz=e)		
(GO)	GHAT 7	INVO	Perfluorogarboni	Chest Project Control of the Control of the	5F6)	. HEGS
	Methane	:Nitrousroxide	CF4 Tietrafluoro	C2Hs Hexafluoro	hexafluolide	fluorogations.
			methane 🛶			0
17,737	12	27	0	0	U	0

REPORTING SMALLER FACILITIES BY ESTIMATING EMISSIONS AND ENERGY (Reg. 4.26)

Smaller facilities that are below GHG emissions or energy levels defined in regulaton 4.26 can be reported as an estimated percentage of the corporate group's totals. The values of GHG emissions and energy reported under this regulation are based on the following percentage estimates. GHG emissions and energy data is not required to be reported elsewhere for facilities that are reported under this regulation.

(Number of facilities), GHG/Emissions Energy Produced (%)) (%)) (%)) (%))

This report contains data that has been measured using the following methods as outlined in the NGER (Measurement) Determination 2008:

Method 1 Known as the default method, derived from the National Greenhouse Accounts methods and is based on national average estimates

Part B Report - Commonwealth Scientific and Industrial Research Organisation

Version 4.00

Page 7 of 47

Final

COMMERCIAL-IN-CONFIDENCE



Commonwealth Scientific and Industrial Research Organisation

ABN: 41 687 119 230 R090819-00534

Date Created: 02/12/2009

STATEMENTS

Any statements below are system generated for Reports prepared under certain provisions in the NGER legislation.

Aggregated facility data (regulation 4.25):

This Report contains aggregate values on more than 1 facility of the corporation whose operation, in a reporting year: (a) emits greenhouse gases with a carbon dioxide equivalence of less than 25 kilotonnes; and

(b) consumes less than 100 terajoules of energy; and

(c) produces less than 100 terajoules of energy; and

(d) all of those facilities are within 1 State or Territory and are attributable to 1 industry sector in accordance with

Subdivisions 2.4.2 and 2.4.3 of Division 2.4 of Part 2 of the NGER Regulations.

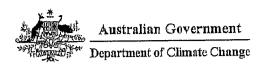
Reporting about incidental emissions and energy (regulation 4.27):

s Report contains greenhouse gas emissions and energy information from facilities that is incidental to the operation of the facility and reported in accordance with NGER regulation 4.27.

The measurement of the production of energy from these sources using another method or criteria in the Determination would cause the corporation significant hardship or expense.

Corporate group threshold met:

The corporate group of Commonwealth Scientific and Industrial Research Organisation has met a corporate group threshold prescribed in sections 13 (1)(a),(b), or (c) of the NGER Act during the reporting year and is reporting under Divisions 4.3 to 4.5 of the NGER regulations (regulation 4.02(3)(b)).



Commonwealth Scientific and Industrial Research Organisation

ABN: 41 687 119 230

R090819-00534

CORPORATE STRUCTURE (TABLE OF CONTENTS)

Incomments Peferences	ASSENTING TO A CONTROL OF THE PROPERTY OF THE
Number	
1	Australian Animal Health Laboratory (AAHL)
2	CSIRO-ACT
3	CSIRO-NSW
4	CSIRO-NT
5	CSIRO-QLD
6	CSIRO-SA
7	CSIRO-TAS
8	CSIRO-VIC
9	CSIRO-WA
10	Food Science Australia
11	Funnelback P/L
. 12	Intalysis P/L
13	Smart Storage Pty Ltd

CEO (or equivalent) details:

Contact Person details:

Name: Dr Megan Clark

Name:

Position: Chief Executive Officer

Position:

Address: PO Box 225

DICKSON, ACT 2602

Address:

Phone: 0262766621

Email: megan.clark@csiro.au

Phone:

Email:

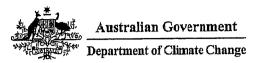
1. Facility - Australian Animal Health Laboratory (AAHL)

The following tables summarise greenhouse gas emissions and energy data for this facility during the reporting period.

Part B Report - Commonwealth Scientific and Industrial Research Organisation

Version 4.00

Page 9 of 47



Commonwealth Scientific and Industrial Research Organisation

ABN: 41 687 119 230

R090819-00534

	ehejemissions		ENE	RGY
i. «Saope III	eScoper2.	Tiotal of Scope II	Energy Gonsumed	Energy Produced (GI)
		(f(CO2-e)) +		
4,013	16,790	20,803	115,674	0

	4,009	2	2	0	0	0	0
_				:Tetrafluoro :methane	Hexafluoro Rethane	lhexafluoride.	HUOROGARDORS
	Carbonidioxide	Methane	Nitrousroxide	(CFX = 177.5	C2F6	Sulphur	HVdrov 1
		MASKER INCHES INCOME.	# 1/8N2O	Perfluorogarogni	Reif Lonocarbon	She She	ra (HFÖS
			GHG Scope 1	Emission By	Gas ((t CO2-e)		

Facility Details

Operational Control:

Commonwealth Scientific and Industrial Research Organisation has operational

control over this facility.

Facility Street Address:

5 Portarlington Road NEWCOMB, VIC 3219

Geographic Coordinates:

38.153°S, 144.387°E

Region:

VIC

ANZSIC Code: Division:

Professional, Scientific and Technical Services

Subdivision:

Professional, Scientific and Technical Services (Except Computer System Design and

Related Services)

Group:

Scientific Research Services

Class:

Number of days with

Operational Control:

Facility Data

GREENHOUSE GAS EMISSIONS

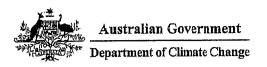


Commonwealth Scientific and Industrial Research Organisation

ABN: 41 687 119 230 R090819-00534

Scope 1

Source Name	Activity/ Data/Naime	Life College C	(Griteria	Amount	.Units	Energy Gontent Factor	Energy Content	Emission Factors	S S S G	Method	Scopel t (CO2-e Calbon Dioxide Equivalent:
Other Stationary	Diesel Oil	Non- transport	А	33.256	kL	38.6	1283.68 16	69.2	CO2	Method 1	89 79
								0.1	CH₄	Method 1	10
}								0.2	N ₂ O	Method 1	Ö
Other Stationary	Town gas	Non- Itransport	А	63,925	GJ	1	63925	59.9	CO₂	Method 1	3,829
								0.03	CH4	Method 1	12
								0.03	N2O	Method 1	- 1.12
Transport	Diesel Oil	Transport – Post 2004 vehicles	A	2.303	kL	38.6	88.8997	69.2	CO ₂	Method 1	± 16
		<u> </u>						0.01	CH₄	Method 1	(0
								0.6	N2O	Method 1	40
Transport	Gasoline (other than for use as fuel in an aircraft)	Transport – Post 2004 vehicles	A	24.364	kL	34.2	833.238	66.7	CO2	Method 1	
								0.02	CH₄	Method 1	T (
								0.2	N₂O	Method 1	
		.l								TOTAL	: :3798/



Commonwealth Scientific and Industrial Research Organisation

ABN: 41 687 119 230 R090819-00534

Greenhouse Gas Emissions

Waste incineration

Clinical waste	Waste	BBB	79.842	tonnes	CO ₂	N/A	Method 1	7. J. 129
						Factor	STATES AND A STATE OF THE STATES AND A STATE	Carbon Dioxide Equivalent:
Activity/type	Adtivity/gontext	Griteria	Amount	Unit				Tiotaliti@02-e

Source Information

Name Name	Entered/Amount	iUnit.
Total waste incinerated	80	tonnes

Scope 2

Communication Control Property Systems of the State of St	Las compositores es contente de la c	Resident for every as a committee asset	CARREST CONTRACTOR STREET	STATE OF THE STREET, STATE OF THE STATE OF		
Source Name:	Activity Data Name	Activity Data	Criteria			:Scope2tiCOzHe
		Context Name : -				Carbon Dioxide
						Equivalent.
						EQUIVAIENT,
54 (KM) 24 CO 2244 LOVE 1 (KM) 1 (KM) 1 (KM)	HI L	C		13,762,076	kWh	16,790
Energy commodities	Electricity	Energy commodity		10,702,070	1(441)	
					TOTAL:	16,790

ENERGY PRODUCTION

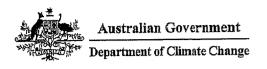
ENERGY CONSUMPTION

Part B Report - Commonwealth Scientific and Industrial Research Organisation

Version 4.00

Page 12 of 47

Final



Commonwealth Scientific and Industrial Research Organisation

ABN: 41 687 119 230 R090819-00534

Energy consumed by means of combustion for transport

	<u></u>		<u> </u>		· · · · · · · · · · · · · · · · · · ·		TOTAL:	922
Transport	Diesel Oil	Transport - Post 2004 vehicles	Combusted	A	2.303	kL	38.6	89
Transport	Gasoline (other than for use as fuel in an aircraft)	Transport - Post 2004 vehicles	Combusted	А	24.364	kL	34.2	833
Source)Name	Activity Type	/Activity/type	Usage	Griteria	Amount		Content Factor	Converted Amount

Energy consumed by means of combustion for a purpose other than producing electricity, producing a chemical or metal product or for

	<u></u>	<u> </u>	<u> </u>				TOTAL:	65,209
Other Stationary	Diesel Oil	Non-transport	Combusted	А	33.256	kL	38.6	1,284
Other Stationary	Town gas	Non-transport	Combusted	Α	63,925	GJ	1	63,925
Source Name	Activity Type	Activity/type: context	Usage	Criteria			Energy Content Factor	

Energy consumed by means other than combustion

e:Source(Name	Activity/Tiype	Activity/type: context	(Usage	-Criteria	Amount	Units	Energy Content Factor	
Energy	Electricity	Energy commodity	Combusted		13,762,076	kWh	0.004	49,543
commodities	·			<u></u>			TOTAL:	49,543

Summary Table

Categories (Categories)	Converted Amount	Units
Amount of energy consumed by means of combustion	66,131	GJ
Energy consumed by means other than combustion	49,543	GJ
TOTAL:	115,674	GJ

2 Facility Aggregate - CSIRO-ACT

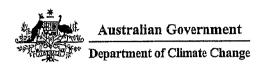
The following tables aggregate greenhouse gas emissions and energy data for this facility aggregate, in accordance with NGER Regulation 4.25, which includes 2 or more facilities that were either under the operational control of this group member or were under the administrative responsibility of this business unit, during the reporting period.

Part B Report - Commonwealth Scientific and Industrial Research Organisation

Version 4.00

Page 13 of 47 COMMERCIAL-IN-CONFIDENCE

Final



Commonwealth Scientific and Industrial Research Organisation

ABN: 41 687 119 230 R090819-00534

	GHGIEMISSIONS		ENE	RGY
Scope 11	Scope 2:	Tiotalkof-Scope and Scope 2	Energy/Gonsumed	Energy Produced
(INCO2-E)	CCO2AC	alid beope ≥ s(t(CO2=e)		
4,048	21,140	25,188	151,626	0

		CANADA PROPERTY AND PROPERTY OF THE PROPERTY O	CHC Scope (ADMINISTRAÇÃO DE LA CONTRACTOR DE LA CON	described and the second of th		
	CO: Carbonicloxice	CH4 Metrane	NZO Nitrousvoxida	Reffluorogarbon	Renfluorogarboris Czki	Sile Sulphun	E HIFGS
_	CAIDUITUUNICE	Nessa e		Metrafiluoro	Hexafluoro	hexafluoride	fluorogarbons
-1	4 041	2	5	omethane:	О	0	0

Facility Aggregate Details

Operational Control:

Commonwealth Scientific and Industrial Research Organisation has operational

control over this facility.

Region:

•,

BusinessUnit: ANZSIC Code:

691

ACT

Division:

Professional, Scientific and Technical Services

Subdivision:

Professional, Scientific and Technical Services (Except Computer System Design and

Related Services)

Group:

Scientific Research Services

Class:

List of Facilities

List of Facilities	The state of the s	NAMES AND ASSOCIATION OF PERSONS ASSOCIATION
Facility/Name	Type	RLocation (1997)
CSIRO-ACT-Acton	Facility	Australian National University North Road ACTON ACT, 2601
CSIRO-ACT-Black Mountain	Facility	Clunies Ross Street BLACK MOUNTAIN ACT, 2601
CSIRO-ACT-Campbell	Facility	Limestone Avenue CAMPBELL ACT, 2612
CSIRO-ACT-Ginninderra	Facility	Barton Highway BELCONNEN ACT, 2617
CSIRO-ACT-Gungahlin	Facility	Bellenden Street CRACE ACT, 2911
CSIRO-ACT-Tidbinbilla	Facility	421 Discovery Drive Tidbinbilla HUME ACT, 2620
CSIRO-ACT-Yarralumla	Facility	Banks Street YARRALUMLA ACT, 2600

Facility Aggregate Data

Part B Report - Commonwealth Scientific and Industrial Research Organisation

Version 4.00

Page 14 of 47

Final

Date Created: 02/12/2009
COMMERCIAL-IN-CONFIDENCE



Commonwealth Scientific and Industrial Research Organisation

ABN: 41 687 119 230 R090819-00534

GREENHOUSE GAS EMISSIONS

Scope 1

	RESERVATOR PROGRAMMENTO SAME	Activity, (Data/Name)	Activity Data Gontext Name	(Griteria	Amount	. Units	Ænergy Gontent IFactor	Energy Content	Emission Ractors	Gases		ScopeTiti (CO2-e (Carbon) (Dioxide (Equivalent)
ı	Other Stationary	Town gas	Non- transport	Α	54,776.0 9	GJ	1	54776.0 9	59.9	CO2	Method 1	3,281
						,			0.03	CH₄	Method 1	- 2
									0.03	N₂O	Method 1	-1 2
	Transport	Diesel Oil	Transport - Post 2004 vehicles	А	61.095	kL	38.6	2358.26 7	69.2	CO₂	Method 1	1,63
							ļ		0.01	CH4	Method 1	10
									0.6	N ₂ O	Method 1	77
	Transport	Gasoline (other than for use as fuel in an aircraft)	Transport Post 2004 vehicles	А	254.627	kL	34.2	8708.24 34	66.7	CO2	Method 1	58il
								1	0.02	CH4	Method 1	.0
									0.2	N₂O	Method 1	. 2
	Transport	Liquefied petroleum gas	Transport – Post 2004 vehicles	A	10.422	kL	26.2	273.043 3	59.6	COz	Method 1	116
ا مر			1						0.3	CH₄	Method 1	10
									0.3	N₂O	Method 1	. (0
			·								TOTAL:	4,048

Greenhouse Gas Emissions

Part B Report - Commonwealth Scientific and Industrial Research Organisation

Version 4.00

Page 15 of 47

Final

COMMERCIAL-IN-CONFIDENCE



Commonwealth Scientific and Industrial Research Organisation

ABN: 41 687 119 230 R090819-00534

Scope 2

Source Name	Activity Data Name	Activity Data Context Name	Criteria	Amounts)	Units	Scope2 t:CO2=e Catbon Dioxide Equivalent2
Energy commodities	Electricity	Energy commodity		23,752,875.41	kWh	21,140
<u> </u>	-				TOTAL:	21,140

ENERGY PRODUCTION

ENERGY CONSUMPTION

Energy consumed by means of combustion for transport

Source/Name	Activity Type	Activity type	.Wsage	Criteria	Amount	Units	Energy Content Factor	Converted Amount
Transport	Gasoline (other than for use as fuel in an aircraft)	Transport - Post 2004 vehicles	Combusted	Α	254.627	kL	34.2	
Transport	Diesel Oil	Transport - Post 2004 vehicles	Combusted	Α	61.095	kL	38.6	2,358
Transport	Liquefied petroleum gas	Transport - Post 2004 vehicles	Combusted	А	10.422	kL	26.2	273
	<u> </u>	1					TOTAL:	11,340

Energy consumed by means of combustion for a purpose other than producing electricity, producing a chemical or metal product or for transport

\ _/		Activity Type	context	Usage		Alberta Company Agriculture		Energy Content Factor	Amount "
	Other Stationary	Town gas	Non-transport	Combusted	Α	54,776.09	GJ	1	54,776
								TOTAL:	54,776

Energy consumed by means other than combustion

Source/Name	Activity Type	Activity type context	Wsage //	Criteria	-Amount	Units	Energy Gontent Factor	Amount
Energy commodities	Electricity	Energy commodity	Combusted		23,752,875. 41	kWh	0.004	85,510
COMMODIA	L		l			<u></u>	TOTAL:	85,510

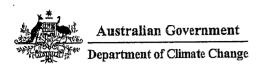
Part B Report - Commonwealth Scientific and Industrial Research Organisation

Version 4.00

Page 16 of 47

Finai

COMMERCIAL-IN-CONFIDENCE



Commonwealth Scientific and Industrial Research Organisation

ABN: 41 687 119 230 R090819-00534

Summary Table

Categories	Converted Amount	Units
Amount of energy consumed by means of combustion	66,116	GJ
Energy consumed by means other than combustion	85,510	GJ
TOTAL:	151,626	GJ

3 Facility Aggregate - CSIRO-NSW

The following tables aggregate greenhouse gas emissions and energy data for this facility aggregate, in accordance with NGER Regulation 4.25, which includes 2 or more facilities that were either under the operational control of this group member or were under the administrative responsibility of this business unit, during the reporting period.

	GHG EMISSIONS		ENE	RGY
Sgoperili	Scope 2	Tiotal of Scope ii.	Energy Consumed	Energy/Produced:
(GCO2+C)		(t G02+e)		
2,599	23,146	25,746	136,138	795

		GHG Scope 1	(Emission By	Gas((t/CO2+e))		
(COL.	CH4	NźÖ	Rerfluorocarboni	Perfluorocarbon	SF6 %	HFCs Hydro
AND AND APPLICATION OF THE PROPERTY OF THE PRO	Methane	INITIOUS OXIGE	Tietrafluoro	Hexafluoro.	:::!Sulphuf± /hexafiluolide:	Ifluorocarbons
			it: methane.	greethane.		0
2,596	1	2	0	0	U	0

Facility Aggregate Details

Operational Control:

Commonwealth Scientific and Industrial Research Organisation has operational

control over this facility.

Region: NSW

Region. No

BusinessUnit:

ANZSIC Code: 691

Division:

Professional, Scientific and Technical Services

Subdivision:

Professional, Scientific and Technical Services (Except Computer System Design and

Related Services)

Group:

Scientific Research Services

Class:

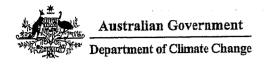
List of Facilities

Part B Report - Commonwealth Scientific and Industrial Research Organisation

Version 4.00

Page 17 of 47

Final



Commonwealth Scientific and Industrial Research Organisation

ABN: 41 687 119 230 R090819-00534

!!Facility Name.	Туре	Location and the
CSIRO-NSW-Armidale - Chiswick	Facility	New England Highway ARMIDALE NSW, 2350
CSIRO-NSW-Culgoora	Facility	ATNF Narrabri Paul Wild Observatory NARRABRI NSW, 2390
CSIRO-NSW-Griffith	Facility	Research Station HANWOOD NSW, 2680
CSIRO-NSW-Lindfield	Facility	Bradfield Road LINDFIELD WEST NSW, 2070
CSIRO-NSW-Lucas Heights	Facility	Lucas Heights Science & Technology Centre New Illawarra Road LUCAS HEIGHTS NSW, 2234
CSIRO-NSW-Macquarie Uni	Facility	Building E6B Macquarie University Campus NORTH RYDE BC NSW, 1670
CSIRO-NSW-Marsfield	Facility	Corner Vimiera & Pembroke Roads MARSFIELD NSW, 2122
CSIRO-NSW-Myall Vale	Facility	Wee Waa Road Myall Vale NARRABRI NSW, 2390
CSIRO-NSW-Newcastle	Facility	Steel River Estate 10 Murray Dwyer Circuit MAYFIELD WEST NSW, 2304
CSIRO-NSW-North Ryde	Facility	Riverside Corporate Park 11 Julius Avenue NORTH RYDE NSW, 2113
CSIRO-NSW-Parkes	Facility	ATNF Parkes Observatory 473 Telescope Road PARKES NSW, 2870
CSIRO-NSW-Wagga Wagga	Facility	International Centre of Water Building 24 CHARLES STURT UNIVERSITY NSW, 2678

Facility Aggregate Data

GREENHOUSE GAS EMISSIONS

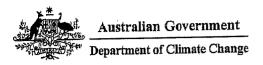
Part B Report - Commonwealth Scientific and Industrial Research Organisation

Version 4.00

Page 18 of 47

Final

COMMERCIAL-IN-CONFIDENCE



Commonwealth Scientific and Industrial Research Organisation

ABN: 41 687 119 230 R090819-00534

Scope 1

acope i					inami Stani Singapi	CONSTRUCTION AND ADDRESS.	mentananan dan bi	SERVENCE CONTROL	72000000000	32598000000000000000000000000000000000000	
Market and the property of the series of the	Activity. Data Name	Section of the sectio	Griteria	Amount	Units	Energy (Content Hactor	Energy Gontent	Emission Factors	Gases	Section 2	Scope th GOzet Garbon Dioxida Egulivalent
Stationary		Non- transport	A	51	kL	34.4	1754.4	69	CO2	Method 1	124 157 154 154 154 155 155 155 155 155 155 155
								0.02	CH4	Method 1	(
		·			!			0.2	N ₂ O	Method 1	
Other Stationary		Non- transport	А	0.495	kL	25.7	12.7215	59.6	CO ₂	Method 1	
	943]		0.1	CH4	Method 1	
							0.2	N₂O	Method 1		
Other Stationary	Town gas	Non- transport	А	35,836	GJ	1	35836	59.9	CO₂	Method 1	2:14
Stationary	ļ 							0.03	CH₄	Method 1	
								0.03	N₂O	Method 1	
Transport	Diesel Oil	Transport - Post 2004 vehicles	А	3.873	kL	38.6	149.482 4	69.2	CO ₂	Method 1	
								0.01	CH4	Method 1	
-								0.6	N₂O	Method 1	
Transport	Gasoline (other than for use as fuel in an aircraft)	Transport - Post 2004 vehicles	- A	137.094	1 kL	34.2	4688.60 45		CO2	Method 1	3)
	anciary							0.02	CH4	Method '	
								0.2	N₂O	Method	1
Transport	Liquefied petroleum	Transport Post 2004 vehicles	- A	2.70	2 kL	26.2	70.784	59.6	CO2	Method	1
	gas	Verneics						0.3	CH ₄	Method	1
	}							0.3	N ₂ C	Method	Interstition the factors in the in-
										TOTA	L: \$2,5

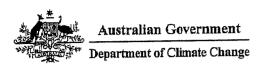
Part B Report - Commonwealth Scientific and Industrial Research Organisation

Version 4.00

Final

Page 19 of 47

COMMERCIAL-IN-CONFIDENCE



Commonwealth Scientific and Industrial Research Organisation

ABN: 41 687 119 230 R090819-00534

Greenhouse Gas Emissions

Industrial Refrigeration

ale as GActivity, type	Activity contact	Galleria	/Amount	Unit	Gas	Method	Totalit C02-e
ACTIVITY TYPE	Autorio						Carlbon
							- IDloxide
fire division							Equivalent.
Industrial refrigeration -	Synthetic Gases	Α	0.044	tonnes	HFCs	Method 1	0
HFC stock	-,						
		100		17/19/19		TOTAL:	0.00

Scope 2

				TOTAL:	23,146
Energy commodities	Electricity	Energy commodity	26,007,19	9.1 kWh	23,146
America (Barella)					Equivalent.
Source Name	Activity Data Name	Activity Data Context/Name	Criteria (Amounts		

ENERGY PRODUCTION

Electricity Production

Production		Produced for the operation of the facility			electricity transmission.or		
Electricity (solar generation)	10.1.1.1.2.3.0.1.3.1.3.1.3.1.3.1.3.1.3.1.3.1.3.1.3	98,886	kWh				356
Electricity (thermal generation)		115,224	kWh				415
Electricity (wind generation)		6,775	kWh			<u> </u>	24
gorioration	L			 		TOTAL:	795

ENERGY CONSUMPTION

Part B Report - Commonwealth Scientific and Industrial Research Organisation

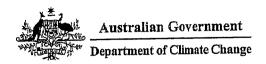
Version 4.00

Page 20 of 47

COMMERCIAL-IN-CONFIDENCE

Date Created: 02/12/2009

Final



Commonwealth Scientific and Industrial Research Organisation

ABN: 41 687 119 230 R090819-00534

Energy consumed by means of combustion for transport

	petroleum gas	2004 vehicles	<u> </u>	1		l	TOTAL:	4,909
Transport	Liquefied	Transport - Post	Combusted	A	2.702	kL	26.2	71
Transport	Diesel Oil	Transport - Post 2004 vehicles	Combusted	A	3.873	k∟		
Transport	than for use as fuel in an aircraft)	2004 vehicles					38.6	149
Transport	Gasoline (other	Transport - Post	Combusted	Α	137.094	kL	34.2	4,689
(Source Name	Activity Type	Activity type	Usage		Amount		Content (Factor	Converted Amount

Energy consumed by means of combustion for a purpose other than producing electricity, producing a chemical or metal product or for transport

Other Stationary	Liquefied petroleum gas	Non-transport	Combusted	Α	0.433	1360		37,603
	hydrocarbons		Osymbol		0,495	kL	25.7	13
	Liquefied aromatic	Non-transport	Combusted	Α	51	kL	34.4	1,754
Other Stationary	Town gas	Non-transport	Combusted	Α	35,836	GJ	1	35,836 1,754
	Activity Type		:Usage	Criteria	Amount		Energy Content Factor	Gonverted: /Amount

Energy consumed by means other than combustion

Source/Name	Activity Type	Activity/type context	iUsage	Criteria	Amount	Units	Energy Content Factor	Converted Amount
1 = 110187	Electricity	Energy commodity	Combusted		26,007,199. 1	kWh	0.004	93,626
commodities				L			TOTAL:	93,626

Summary Table

Categories	Converted Amount	iUnits
Amount of energy consumed by means of combustion	42,512	GJ
Energy consumed by means other than combustion	93,626	GJ
TOTAL	136,138	GJ

4 Facility Aggregate - CSIRO-NT

The following tables aggregate greenhouse gas emissions and energy data for this facility aggregate, in accordance with NGER Regulation 4.25, which includes 2 or more facilities that were either under the operational control of this group member or were under the administrative responsibility of this business unit, during the reporting period.

Part B Report - Commonwealth Scientific and Industrial Research Organisation

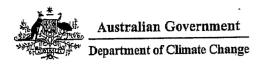
Version 4.00

Page 21 of 47

COMMERCIAL-IN-CONFIDENCE

Date Created: 02/12/2009

Final



Commonwealth Scientific and Industrial Research Organisation

ABN: 41 687 119 230

R090819-00534

	ehg/EMISSIONS		The MENE	R@Y
.Scope III	/Scope i2	Tiotaliof(Scope II)	Energy Gonsumed (GJ)	Energy Produceds
(t CO₂⊆e)	(((CO:-e):	vand Scope.2 (t(@0₂=e) - :		
6	252	258	1,403	0

		GHC Scope 1	Emission By	Gas (t.CO2-e)		
COi	CHA CHA	N20 1	Perfluorocarbon	Rerfluoriocarbon	Silo Trasulphur	HFQs Hydro
(Carbon dioxide)	Methane	Nitrous oxide	Tetrafluoro	Hexafluoro:-	hexafluoride	fluorogatbons
			methanen	ethane	-	
) 6	0	0	0	0	Ü	U

Facility Aggregate Details

Operational Control:

Commonwealth Scientific and Industrial Research Organisation has operational

control over this facility.

Region:

NT

BusinessUnit: ANZSIC Code:

Division:

Professional, Scientific and Technical Services

Subdivision:

Professional, Scientific and Technical Services (Except Computer System Design and

Related Services)

Group:

Scientific Research Services

Class:

1 1-4 -6 F--11141-0

	List of Facilities		na ana ang ang ang ang ang ang ang ang a
ĺ	Hacility Name	Type	l Location
	CSIRO-NT-Alice Springs		Heath Road ALICE SPRINGS NT, 0872
-	CSIRO-NT-Darwin		Vanderlin Drive Berrimah BERRIMAH NT, 0828

Facility Aggregate Data

GREENH	OUSE	GAS	EMISS	IONS

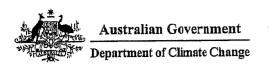
Part B Report - Commonwealth Scientific and Industrial Research Organisation

Version 4.00

Page 22 of 47

Final

COMMERCIAL-IN-CONFIDENCE



Commonwealth Scientific and Industrial Research Organisation

ABN: 41 687 119 230 R090819-00534

Scope 1

Name	PActivity Data Name	Datal Gontext Name				Content (Content	- Factors I			Ganbon Ga
	Gasoline (other than for use as fuel in an aircraft)	Transport – Post 2004 vehicles	А	2.605	kL	34.2	89.0978	66.7	CO₂	Method 1	
}								0.02	CH4	Method 1	0 : 11:0
							,	0.2	N2O	Method 1	Ő
	<u> </u>		1		L					TOTAL:	### ##6

Greenhouse Gas Emissions

Scope 2

Source Name	Activity Data Nan	ne Activity Data Ci Context Name	iteria / /Amounts		Scope2 t C0z=e Carbon Dioxide
Energy commodities	Electricity	Energy commodity	364,907.4	kWh	252
Energy Commissions	1			TOTAL:	252

ENERGY CONSUMPTION

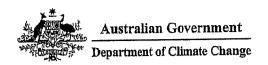
Part B Report - Commonwealth Scientific and Industrial Research Organisation

Version 4.00

Page 23 of 47

Final

COMMERCIAL-IN-CONFIDENCE



Commonwealth Scientific and Industrial Research Organisation

ABN: 41 687 119 230 R090819-00534

Energy consumed by means of combustion for transport

Source Name	Activity Type	Activity type	Usage	Critéria	Amount	Units	Content Factor	
	Gasoline (other than for use as fuel in an aircraft)	Transport - Post 2004 vehicles	Combusted	A	2.605	kL I	34.2	89
	Tuel III all all clair,		<u> </u>	·			TOTAL:	89

Energy consumed by means other than combustion

Source Name		context		Criteria	Amount		Content Factor	
Energy	Electricity	Energy commodity	Combusted		364,907.4	kWh	0.004	1,314
commodities							TOTAL:	1,314

Summary Table

Categories	Converted // /Amount	Units
Amount of energy consumed by means of combustion	89	GJ
Energy consumed by means other than combustion	1,314	GJ
TOTAL:	1,403	GJ

5 Facility Aggregate - CSIRO-QLD

The following tables aggregate greenhouse gas emissions and energy data for this facility aggregate, in accordance with NGER Regulation 4.25, which includes 2 or more facilities that were either under the operational control of this group member or were under the administrative responsibility of this business unit, during the reporting period.

	ehg emissions		ENE	RGY
/ Scope il.		THE CONTRACT OF SAME AND ASSESSED TO BE	Energy Consumed	Energy Produced
(t(CO2+e))	i(t/(Cozne)	and Scope 2 ((t/CO2=e)		100 mg 100 m 100 mg 100 mg
1,926	15,286	17,213	88,575	0

		@H@ Scope /	Emission/By	Gas:((t/C0z=e))		
/(CO2)		INZO)		Perfluorocatbon	SF6 Sulphur	HEG5 Hydro ⊤
Carbonidioxide	Methane	Nitrousioxide	, ∍Tetrafilüoro × 1	Hexafluoro,	hexafluolide	fluorocatbons
			methane ::	izethane (•	0
1,910	4	12	0	0	U	U

Part B Report - Commonwealth Scientific and Industrial Research Organisation

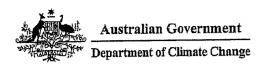
Version 4.00

Page 24 of 47

Date Created: 02/12/2009

Final

COMMERCIAL-IN-CONFIDENCE



Commonwealth Scientific and Industrial Research Organisation

ABN: 41 687 119 230

R090819-00534

Facility Aggregate Details

Operational Control:

Commonwealth Scientific and Industrial Research Organisation has operational

control over this facility.

Region:

QLD

BusinessUnit:

ANZSIC Code:

691

Professional, Scientific and Technical Services

Division: Subdivision:

Professional, Scientific and Technical Services (Except Computer System Design and

Related Services)

Group:

Scientific Research Services

Class:

List of Facilities

List of Facilities	A STATE OF THE STA	
Facility Name	Tiype	Location
CSIRO-QLD-Atherton	Facility	Maunds Road ATHERTON QLD, 4883
CSIRO-QLD-Ayr	Facility	PO Box 117 AYR QLD, 4807
CSIRO-QLD-Cairns	Facility	McGregor Road SMITHFIELD QLD, 4878
CSIRO-QLD-Cannon Hill	Facility	Corner Creek & Wynnum Roads CANNON HILL QLD, 4170
CSIRO-QLD-Cleveland	Facility	233 Middle Street CLEVELAND QLD, 4163
CSIRO-QLD-Gympie	Facility	PO Box 873 GYMPIE QLD, 4570
CSIRO-QLD-Herston-RBWH	Facility	Level 7, UQ CCR Building 71/918 Royal Brisbane and Women's Hospital HERSTON QLD, 4006
CSIRO-QLD-Indooroopilly	Facility	120 Meiers Road INDOOROOPILLY QLD, 4068
CSIRO-QLD-Lawes	Facility	Cooper Laboratory LAWES QLD, 4343
CSIRO-QLD-Pullenvale	Facility	1 Technology Court (off Bainbridge Drive) PULLENVALE QLD, 4069
CSIRO-QLD-Rockhampton-Belmont	Facility	Bruce Highway NORTH ROCKHAMPTON QLD, 4701
CSIRO-QLD-St. Lucia	Facility	St Lucia Bioscience Precinct 306 Carmody Road ST LUCIA QLD, 4067
CSIRO-QLD-Toowoomba	Facility	203 Tor Street TOOWOOMBA QLD, 4350
CSIRO-QLD-Townsville	Facility	University Drive TOWNSVILLE QLD, 4810

Facility Aggregate Data

Incidental Emissions and Energy

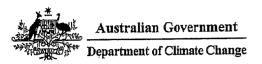
Part B Report - Commonwealth Scientific and Industrial Research Organisation

Version 4.00

Page 25 of 47

Final

COMMERCIAL-IN-CONFIDENCE



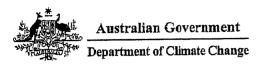
Commonwealth Scientific and Industrial Research Organisation

ABN: 41 687 119 230 R090819-00534

	ehic emissions		in ENE	RGY
Scope	Scope 2	Tiotal of Scope II.	Energy/Consumed	Energy Produced:
:	.t.(((G02=e))	/andiscope/2 (HGO2=e)		
1	0	1	10	0

	1	0	0	0	0	0	0
				imethane	rethane 4		
				Tietrafluoro	Hexafluoro :	hexafluoride	filuorogarbons
-	Caroon cloxics	Methane	Ninousioxide	œR.	C2 F6	Sulphur	Hydrö
ı	CON	VGH21a4	N20	Reffluoroganbon	Perfiluojocarbon.	SF6 9	HFGs
			GHG Scope 1	Emission By	Gas (t/C02-e)		
ī		SILENTER CONTRACTOR SERVICES	control of the Maria Million	KANTONIA KATONIA PROM	Salara Salara		

GREENHOUSE GAS EMISSIONS

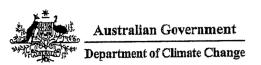


Commonwealth Scientific and Industrial Research Organisation

ABN: 41 687 119 230 R090819-00534

Scope 1

\$50BS6188E0898982525048	Activity Data Name	Marie Control of the Street	Cnitenia 4	Amount	Umits		Energy Gontent		Gases	Method	Scopell t 1002-e Carbon Dioxide Equivalent
Other Stationary	1.4	Non- transport	А	355.121	GJ	1	355.121	59.9	CO2	Method 1	21) 1933
								0.03	CH₄	Method 1	0
								0.03	N₂O	Method 1	0
Other Stationary	Town gas	Non- transport	Α	65,210	m³	0.039	2543.19	59.9	CO2	Method 1	III52
								0.03	CH4	Method 1	(0
						İ		0.03	N₂O	Method 1	(0
Transport	Diesel Oil	Transport - Post 2004 vehicles	А	14.908	kL	38.6	575.433 4	69.2	CO2	Method 1	:40
					ļ			0.01	CH4	Method 1	
				ĺ				0.6	N ₂ O	Method 1	3
Transport	Diesel Oil	Transport	Α	557	kL	38.6	21500.2	69.2	CO2	Method 1	1,748
								0.2	CH₄	Method 1	
					}			0.5	N₂O	Method 1	1
Transport	Gasoline (other than for use as fuel in an aircraft)	Transport – Post 2004 vehicles	А	91.147	kL	34.2	3117.21 03	66.7	CO2	Method 1	
								0.02	CH4	Method 1	
								0.2	N₂O	Method 1	
			<u> </u>	J						TOTAL	: 1,792



Commonwealth Scientific and Industrial Research Organisation

ABN: 41 687 119 230 R090819-00534

Incidental For Scope 1

Source	Activity	Activity	Criteria	Amount	Units!	Energy	Energy	Emission	Gases	Method	Scope t.
iName	Data Name	Data				Content	Content	Factors			(CO₂−e Canbon
		CA19395633355-679055-6000244				Factor					Dioxide
											Equivalent.
							1				
Petroleum	Brown coal	Non-	BBB	1	tonnes	10.2	10.2	92.7	CO₂	Method 1	
Petroleum refining	Brown coal	Non- transport	BBB	1	tonnes	10.2	10.2	92.7	CO2	Method 1	
	Brown coal		BBB	1	tonnes	10.2	10.2	92.7	CO ₂	Method 1	110
	Brown coal		BBB	1	tonnes	10.2	10.2				10

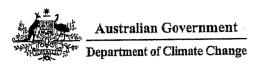
Greenhouse Gas Emissions

Scope 2

(Source)Name	Activity Data Name	Activity Data Context Name	Criteria Amo	unts	Units:	Scope2 t CO2-e Garbon Dioxide L'Equivalent.
Energy commodities	Electricity	Energy commodity	16,798,	,350.93	kWh	15,286
					TOTAL:	15,286

ENERGY PRODUCTION

ENERGY CONSUMPTION



Commonwealth Scientific and Industrial Research Organisation

ABN: 41 687 119 230 R090819-00534

Energy consumed by means other than combustion

Source Name	Activity Type	Activity type icontext	. Usage	Criteria	Amount	Units	Energy Content Factor	Converted Amount
Energy commodities	Electricity	Energy commodity	Combusted	PARTICULAR SECURITION SECURITIONS	16,798,350. 93	kWh	0.004	60,474
Commodities				<u> </u>			TOTAL:	60,474

Incidental For Energy consumed by means other than combustion

Enterope F	Petroleum	Activity/type/ context Non-transport	Usage) Feedstock	Criteria BBB	yAmount 1	Units tonnes		(Convented) Amount 10
	efining			<u></u>	<u></u>		TOTAL:	10

Energy consumed by means of combustion for transport

	Activity Trype	Activity:type //context	. Usage	Criteria	Ämount :	Units		Converted Amount
Transport	Diesel Oil	Transport	Combusted	Α	557	kL	38.6	21,500
Transport	Gasoline (other than for use as fuel in an aircraft)	Transport - Post 2004 vehicles	Combusted	Α	91.147	kL	34.2	3,117
Transport	Diesel Oil	Transport - Post 2004 vehicles	Combusted	Α	14.908	kL	38.6	575
	J	1	<u></u>	· · · · · · · · · · · · · · · · · · ·			TOTAL:	25,193

Energy consumed by means of combustion for a purpose other than producing electricity, producing a chemical or metal product or for transport

		<u> </u>	l	L			TOTAL:	2,898
Other Stationary	Town gas	Non-transport	Combusted	Α	65,210	m³	0.039	2,543
Other Stationary	Town gas	Non-transport	Combusted	Α	355.121	GJ	1	355
Source(Name	Activity:Type	Activity:type context	Usage	«Criteria	Amount	Marie	Energy Content Æfactor	Converted Amount

Summary Table

Categories 7	Converted Amount	Units
Amount of energy consumed by means of combustion	28,091	GJ
Energy consumed by means other than combustion	60,484	GJ
TOTAL	88,575	GJ

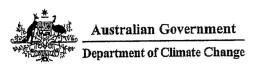
Part B Report - Commonwealth Scientific and Industrial Research Organisation

Version 4.00

Page 29 of 47

Final

COMMERCIAL-IN-CONFIDENCE



Commonwealth Scientific and Industrial Research Organisation

ABN: 41 687 119 230

R090819-00534

6 Facility Aggregate - CSIRO-SA

The following tables aggregate greenhouse gas emissions and energy data for this facility aggregate, in accordance with NGER Regulation 4.25, which includes 2 or more facilities that were either under the operational control of this group member or were under the administrative responsibility of this business unit, during the reporting period.

	eHe/EMISSIONS		ENE	RGY
VII "Scope II"	Scope 2	Tiotal of Scope III	Energy Consumed	Energy Produced
(t/G02=e))	(t/CO2+e)	and Scope 2 (t(CO ₂ =e))		
480	3,336	3,816	22,032	0

_			CHC Scope 1	Emission By	Gas (t/G02-e)		
Ĵ	(CO)	OHA. Methane	NZO Nitrous oxide	THE STREET	Rerfluorogation CzFc	Sulphur	Hlydro
			;Nitrous oxide	Tietrafiluoro	f exaf upro ethane	nexafluoride	fluorocarbons
	479	0	1	0	0	0	0

Facility Aggregate Details

Operational Control:

Commonwealth Scientific and Industrial Research Organisation has operational

control over this facility.

Region: SA

BusinessUnit:

ANZSIC Code: 691

Division:

Professional, Scientific and Technical Services

Subdivision:

Professional, Scientific and Technical Services (Except Computer System Design and

Related Services)

Group:

Scientific Research Services

Class:

List of Facilities

Facility/Name	Type 14	<u>iLocation</u>
CSIRO-SA-Adelaide	Facility	Gate 13 Kintore Avenue ADELAIDE SA, 5001
CSIRO-SA-Hindmarsh	Facility	Adelaide CSIROSEC, Education Development St Milner Street HINDMARSH SA, 5007
CSIRO-SA-Urrbrae	Facility	Walte Road URRBRAE SA, 5064

Facility Aggregate Data

GREENHOUSE GAS EMISSIONS

Part B Report - Commonwealth Scientific and Industrial Research Organisation

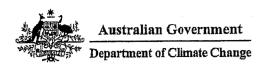
Version 4.00

Page 30 of 47

Date Created: 02/12/2009

Final

COMMERCIAL-IN-CONFIDENCE



Commonwealth Scientific and Industrial Research Organisation

ABN: 41 687 119 230 R090819-00534

Scope 1

ELVERTHER BEIGHBURGHER ZUNG FREINE	Activity (Data/Name	100000000000000000000000000000000000000	Criteria	-Amount	Units	Energy Gontent- Factor	Energy Gontent	Emission (Factors	Gases	iMethod	Scopelit, (Coz=e, (Carbon, (Dioxide) Equivalent,
Other Stationary	Town gas	Non- transport	А	5,550	GJ	1	5550	59.9	CO₂	Method 1	332
,	 			į !		1		0.03	CH4	Method 1	- 40
	,	1						0.03	N ₂ O	Method 1	Ö U
Transport	Diesel Oil	Transport ~ Post 2004 vehicles	А	21.008	kL	38.6	810.889	69.2	CO2	Method 1	56
				!	1			0.01	CH4	Method 1	- 0
								0.6	N₂O	Method 1	0
Transport	Gasoline (other than for use as fuel in an aircraft)	Transport – Post 2004 vehicles	Α	34.964	kL	34.2	1195.75 17	66.7	CO2	Method 1	80
								0.02	CH₄	Method 1	(0
								0.2	N₂O	Method 1	0
Transport	Liquefied petroleum gas	Transport – Post 2004 vehicles	А	6.763	kL.	26.2	177.198 5	1	CO2	Method 1	
								0.3	CH4	Method 1	- F-1-1-0
								0.3	N₂O	Method 1	prostransary and property
 		.1		4						TOTAL	.: 480

Greenhouse Gas Emissions

Scope 2

SourceiName	Activity Data Name	Activity Data Context Name	(Chteria	Amounts	Junits	Scope2stiCO2=e -Carbon Dioxide
				0.074.806	kWh	3,336
Energy commodities	Electricity	Energy commodity		3,971,826	TOTAL:	3,336

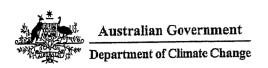
Part B Report - Commonwealth Scientific and Industrial Research Organisation

Version 4.00

Page 31 of 47

Final

COMMERCIAL-IN-CONFIDENCE



Commonwealth Scientific and Industrial Research Organisation

ABN: 41 687 119 230 R090819-00534

ENERGY PRODUCTION

ENERGY CONSUMPTION

Energy consumed by means of combustion for transport

Source Name	/Activity/Tiype	Activity type context	-Wsage	Griteria	Amount	Units		Converted Amount
Transport	Gasoline (other than for use as fuel in an aircraft)	Transport - Post 2004 vehicles	Combusted	A	34.964	kL	34.2	1,196
Transport	Diesel Oil	Transport - Post 2004 vehicles	Combusted	Α	21.008	kL	38.6	811
Transport	Liquefied petroleum gas	Transport - Post 2004 vehicles	Combusted	А	6.763	kL	26.2	177
	<u> </u>						TOTAL:	2,184

Energy consumed by means of combustion for a purpose other than producing electricity, producing a chemical or metal product or for transport

Source/Name	Activity.Type	Activity type context	Usage	Criteria	Amount)		Energy Content Factor	Converted Amount
Other Stationary	Town gas	Non-transport	Combusted	A	5,550	GJ	1	5,550
Other Stationary	100011 940		<u></u>				TOTAL:	5,550

Energy consumed by means other than combustion

Source Name: Activity Type	Activity/type context	Usage	(Criteria)	Amount	Units	Gontent Factor	
Energy Electricity	Energy commodity	Combusted		3,971,826	kWh	0.004	14,299
commodities						TOTAL:	14,299

Summary Table

Categories:	Convented Amount	Units
Amount of energy consumed by means of combustion	7,734	GJ
Energy consumed by means other than combustion	14,299	GJ
TOTAL	22,032	Gl

7 Facility Aggregate - CSIRO-TAS

The following tables aggregate greenhouse gas emissions and energy data for this facility aggregate, in accordance with NGER Regulation 4.25, which includes 2 or more facilities that were either under the operational control of this group member or were under the administrative responsibility of this business unit, during the reporting period.

Part B Report - Commonwealth Scientific and Industrial Research Organisation

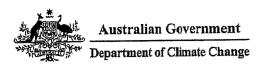
Version 4.00

Page 32 of 47

Date Created: 02/12/2009

Final

COMMERCIAL-IN-CONFIDENCE



Commonwealth Scientific and Industrial Research Organisation

ABN: 41 687 119 230 R090819-00534

	GHGJEMISSIONS		ENE	RGY
Scope 1 F	J. J. IScope 2	Trotaliof Scope 1.	Energy/Gonsumed	Energy Produced
: is (flG0z−é)	(f(G0z=e))	and scope.2 (f(CO25e).		
31	458	489	14,192	0

		CHC-Scope 1	Emission By	Gas((t/C02-e))		
CO2	GHA+ Methane	N/Nitrousvoxide()	Reriluorogarbon CF/	Perfluorocarbon Cifr	SF6 Sulphur	HHCES HIVOROUS III
			Tietrafiluoro Methanes	Hexafluoro Lethane	hexafluoride	(fluolocations)
31	0	0	0	0	0	0

Facility Aggregate Details

Operational Control:

Commonwealth Scientific and Industrial Research Organisation has operational

control over this facility.

Region: TAS

BusinessUnit:

ANZSIC Code: Division:

Professional, Scientific and Technical Services

Subdivision:

Professional, Scientific and Technical Services (Except Computer System Design and

Related Services)

Scientific Research Services

Group: Class:

List of Essilities

List of racilities	Programme and the second of th	
FacilityiName	Type	Location (1997)
CSIRO-TAS-Hobart		Castray Esplanade BATTERY POINT TAS, 7004
CSIRO-TAS-Hobart-Church Street	Facility	Church St HOBART TAS, 7001
CSIRO-TAS-Sandy Bay	Facility	College Road University of Tasmania SANDY BAY TAS, 7005

Facility Aggregate Data

GREENHO	USE	GAS	EMIS:	SION	t

Part B Report - Commonwealth Scientific and Industrial Research Organisation

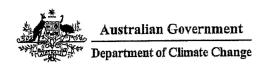
Version 4.00

Page 33 of 47

Date Created: 02/12/2009

Final

COMMERCIAL-IN-CONFIDENCE



Commonwealth Scientific and Industrial Research Organisation

ABN: 41 687 119 230 R090819-00534

Scope 1

Name	Activity IData/Name	TO A STATE OF THE PARTY OF THE	Critéria	Amount		Gontent (Factor	Gontent.	Emission Hactors		Method	Scopellta CO2re Garbon Dioxide Equivalent
Transport	Diesel Oil	Transport – Post 2004 vehicles	А	2.925	kL	38.6	112.912 7	69.2	CO₂	Method 1	8
							:	0.01	CH₄	Method 1	0
								0.6	N₂O	Method 1	0 :
	Gasoline (other than for use as fuel in an aircraft)	Transport – Post 2004 vehicles	Α	10.151	kL	34.2	347.153 9	66.7	CO2	Method 1	23
								0.02	CH4	Method 1	0.0
								0.2	N₂O	Method 1	0
			1							TOTAL:	31

Greenhouse Gas Emissions

Scope 2

ENERGY PRODUCTION										
					TOTAL:	458				
Energy commodities	Electricity	Energy commodity		3,814,418	kWh	458				
						Equivalent.				
Source Name	Activity Data Name	Activity Data Context Name	Criteria	Amounts	Units	Scope2it/CD2-e /Carbon!Dloxide				

ENERGY CONSUMPTION

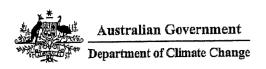
Part B Report - Commonwealth Scientific and Industrial Research Organisation

Version 4.00

Page 34 of 47

Final

COMMERCIAL-IN-CONFIDENCE



Commonwealth Scientific and Industrial Research Organisation

ABN: 41 687 119 230 R090819-00534

Energy consumed by means of combustion for transport

	<u></u>		L	<u> </u>	<u> </u>		TOTAL:	460
Transport	Diesel Oil	Transport - Post 2004 vehicles	Combusted	Α	2.925	kL	38.6	113
Transport	Gasoline (other than for use as fuel in an aircraft)	Transport - Post 2004 vehicles	Combusted	A				
Source Name		Activity type		(Criteria	Amount 10.151	Units		Converted Amount

Energy consumed by means other than combustion

Source Name	Activity Type	Activity/type	Usage	Griteria	Amount	Units -		Converted Amount
Energy		Energy commodity	Combusted		3,814,418	kWh	Factor 0.004	13,732
commodities							TOTAL:	13,732

Summary Table

Categories Categories	Converted Amount	Units
Amount of energy consumed by means of combustion	. 460	GJ
Energy consumed by means other than combustion	13,732	GJ
TOTAL	14,192	GJ

8 Facility Aggregate - CSIRO-VIC

The following tables aggregate greenhouse gas emissions and energy data for this facility aggregate, in accordance with NGER Regulation 4.25, which includes 2 or more facilities that were either under the operational control of this group member or were under the administrative responsibility of this business unit, during the reporting period.

	CHCEMISSIONS		ENE	RCY
Scope I		Tiotal (of Scope 1) -and Scope 2	Energy Consumed	Energy Produceds
(t (CO₂e)	#(HG02+6)	-and,Scope,2, (t/GO2=e)	9	
4,020	31,296	35,316	158,661	0

		GHG Scope 1	Emission By	Gas (t.CO2=e)		
(CO2	(GH4*), (c)			Reifluorocatbon	SF6 Sulphur	HVCIO
Garbonidloxide	Methane	Nitrous:oxide	Tietrafluoros	(Hexafluoro	, hexafluoride	"fluorogarbons".
			methane	etnane	0	0
4,015	2	3	U	U		· · · · · · · · · · · · · · · · · · ·

Part B Report - Commonwealth Scientific and Industrial Research Organisation

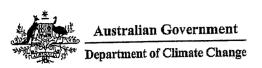
Version 4.00

Page 35 of 47

Date Created: 02/12/2009

Final

COMMERCIAL-IN-CONFIDENCE



Commonwealth Scientific and Industrial Research Organisation

ABN: 41 687 119 230 R090819-00534

Facility Aggregate Details

Operational Control:

Commonwealth Scientific and Industrial Research Organisation has operational

control over this facility.

Region:

BusinessUnit:

691

ANZSIC Code: Division:

Professional, Scientific and Technical Services

Subdivision:

Professional, Scientific and Technical Services (Except Computer System Design and

Related Services)

Group:

Scientific Research Services

Class:

List of Facilities

<u>List of Facilities</u>		Location
Facility Name	Type	The state of the s
CSIRO-VIC-Aspendale	Facility	107 - 121 Station Street ASPENDALE VIC, 3195
CSIRO-VIC-Clayton	Facility	Bayview Avenue CLAYTON VIC, 3168
CSIRO-VIC-Collingwood	Facility	150 Oxford Street COLLINGWOOD VIC, 3066
CSIRO-VIC-Geelong Belmont	Facility	Technology Geelong Lab Corner Colac Road & Henry Street BELMONT VIC, 3216
CSIRO-VIC-Highett	Facility	Graham Road HIGHETT VIC, 3190
CSIRO-VIC-Melbourne	Facility	Level 11, 700 Collins Street DOCKLANDS VIC, 3008
CS!RO-VIC-Merbein	Facility	585 River Avenue MERBEIN SOUTH VIC, 3505
CSIRO-VIC-Mildura	Facility	Brian Grogan Building, La Trobe University Benetook Ave MILDURA VIC, 3502
CSIRO-VIC-Parkville	Facility	343 Royal Parade PARKVILLE VIC, 3052
CSIRO-VIC-Werribee-Sneydes Road	Facility	671 Sneydes Road WERRIBEE VIC, 3030
CSIRO-VIC-Werribee-South Road	Facility	South Road WERRIBEE VIC, 3030
CSIRO-VIC-Wodonga	Facility	La Trobe University, Building 8 University Drive WODONGA VIC, 3690

Facility Aggregate Data

GREENHOUSE GAS EMISSIONS

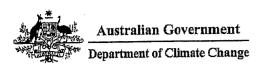
Part B Report - Commonwealth Scientific and Industrial Research Organisation

Version 4.00

Page 36 of 47

Date Created: 02/12/2009

Fina!



Commonwealth Scientific and Industrial Research Organisation

ABN: 41 687 119 230 R090819-00534

Scope 1

Source Name	Activity Data Name	Activity Data Context Name	(Criteria	Amount		Content		Emissioni "Factors			Scopell: t. (CO2-e. (Carbon. (Dioxide. Equivalent)
Other Stationary	Town gas	Non- transport	Α	60,029	GJ	1	60029	59.9	CO₂	Method 1	3,596
	ļ							0.03	CH₄	Method 1	2 2
								0.03	N₂O	Method 1	
Transport	Diesel Oil	Transport - Post 2004 vehicles	А	1.506	kL	38.6	58.1393	69.2	CO2	Method 1	44
								0.01	CH4	Method 1	- 0
								0.6	N₂O	Method 1	100
Transport	Gasoline (other than for use as fuel in an aircraft)	Transport – Post 2004 vehicles	A	182.025	kL	34.2	6225.24 13	66.7	CO ₂	Method 1	4 · · · · · · · · · · · · · · · · · · ·
	,							0.02	CH₄	Method 1	110
								0.2	N ₂ O	Method 1	
	1	<u> </u>		<u> </u>		1	<u> </u>			TOTAL	4,020

Greenhouse Gas Emissions

Scope 2

		<u> </u>			TOTAL:	31,296
Energy commodities	Electricity	Energy commodity		25,652,424.23	kWh	31,296
Source/Name/	Activity/Data Name	Context Name	Citeria	Amounts		Scope2 ttCO2+e Carbon Dloxide Equivalent

ENERGY PRODUCTION

ENERGY CONSUMPTION

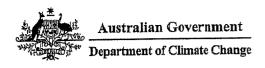
Part B Report - Commonwealth Scientific and Industrial Research Organisation

Version 4.00

Page 37 of 47

Date Created: 02/12/2009

Final



Commonwealth Scientific and Industrial Research Organisation

ABN: 41 687 119 230 R090819-00534

Energy consumed by means of combustion for transport

Source Name	ActivityTiype	/Activity/type context	Usage	Criteria	Amount	Units	Content Factor	Converted Amount
Transport	Gasoline (other than for use as fuel in an aircraft)	Transport - Post 2004 vehicles	Combusted	A	182.025	kL	34.2	6,225
Transport	Diesel Oll	Transport - Post 2004 vehicles	Combusted	A	1.506	kL	38.6	58
	<u> </u>		<u></u>				TOTAL:	6,283

Energy consumed by means of combustion for a purpose other than producing electricity, producing a chemical or metal product or for transport

Source Name	Activity Type	Activity type	Usage	Criteria	-Amount-	Units	Energy Content	Converted
		context					Factor	Allioune
Other Stationary	Town gas	Non-transport	Combusted	A	60,029	GJ	1	60,029
Other Glationary	1.09=-		<u> </u>		· · · · · · · · · · · · · · · · · · ·		TOTAL:	60,029

Energy consumed by means other than combustion

Source Name		Activity type context	Usage	Criteria	Amount		Energy Content IFactor	Converted Amount
Energy commodities	Electricity	Energy commodity	Combusted		25,652,424. 23	kWh	0.004	92,349
Commodities		<u> </u>					TOTAL:	92,349

Summary Table

Categories (1997)	©onverted :: Amount :: :	Units
Amount of energy consumed by means of combustion	66,312	GJ
Energy consumed by means other than combustion	92,349	GJ
TOTAL	158,661	GJ

9 Facility Aggregate - CSIRO-WA

The following tables aggregate greenhouse gas emissions and energy data for this facility aggregate, in accordance with NGER Regulation 4.25, which includes 2 or more facilities that were either under the operational control of this group member or were under the administrative responsibility of this business unit, during the reporting period.

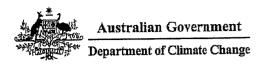
Part B Report - Commonwealth Scientific and Industrial Research Organisation

Version 4.00

Page 38 of 47

Date Created: 02/12/2009

Final



Commonwealth Scientific and Industrial Research Organisation

ABN: 41 687 119 230 R090819-00534

	eheiemissions		ENE	RGYLLTIFLE
Scope III	Scope 2. 7	Tiotal of Scope ill	Energy/Gonsumed	Energy Produced (C)
		(t(CO2=e)).		
652	6,492	7,144	37,344	0

		@#@:Scope:1	Emission By	Gas((t@0z=e).		
COp	GH4	N/O	Rerflüönocarbon	Perfiluenceanbon	SF6	HFQs
Carbonidiox de l	Methane	Nirrousroxide	Tetrafluoro	— нь Hexafluoro	hexafluoride	ifiuorogarbons
			methane	e rethane		0
650	0	1	0	0	0	U

Facility Aggregate Details

Operational Control: Commonwealth Scientific and Industrial Research Organisation has operational

control over this facility.

Region:

WA

BusinessUnit:

ANZSIC Code: Division:

Professional, Scientific and Technical Services

Subdivision:

Professional, Scientific and Technical Services (Except Computer System Design and

Related Services)

Group:

Scientific Research Services

Class:

List of Facilities

Facility/Name	Туре	Location
CSIRO-WA-Floreat	Facility	Underwood Avenue FLOREAT WA, 6014
CSIRO-WA-Kensington	Facility	26 Dick Perry Avenue KENSINGTON WA, 6151
CSIRO-WA-Waterford	Facility	7 Conlon Street WATERFORD WA, 6152
CSIRO-WA-West Perth	Facility	City West centre Sutherland Street WEST PERTH WA, 6005

Facility Aggregate Data

GREENHOUSE GAS EMISSIONS

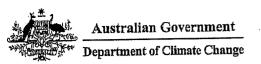
Part B Report - Commonwealth Scientific and Industrial Research Organisation

Version 4.00

Page 39 of 47

Final

COMMERCIAL-IN-CONFIDENCE



Commonwealth Scientific and Industrial Research Organisation

ABN: 41 687 119 230 R090819-00534

Scope 1

THE PROPERTY OF THE PARTY OF TH	Activity Data Name		Griteria Griteria	Amount	Units	Energy (Content Factor	Energy (Gontent	Emissioni Fractors	Gases.		Scopell t CO2≓e (Cañbon IDlo×ide Equivalent
Other Stationary	Town gas	Non- transport	A	7,468	GJ	1	7468	59.9	CO2	Method 1	44.7
Stationary	;							0.03	CH4	Method 1	.0
								0.03	N₂O	Method 1	Ç.
Transport	Diesel Oil	Transport - Post 2004 vehicles	А	20.466	kL	38.6	789.972 2	69.2	CO ₂	Method 1	1515 1517 1517 1517 1517 1517 1517 1517
								0.01	CH₄	Method 1	(
		•			:			0.6	N ₂ O	Method 1	
Transport	Gasoline (other than for use as fuel in an aircraft)	Transport - Post 2004 vehicles	A	64.94	kL	34.2	2220.95 48	66.7	CO2	Method 1	14.
								0.02	CH4	Method 1	
								0.2	N ₂ O	Method 1	
	<u> </u>	٠	<u> </u>		<u> </u>	.1				TOTAL	65

Greenhouse Gas Emissions

Scope 2

	THE RESERVE OF THE PERSON OF T			/Amounts	Units	Scope21(CO2-e			
	Activity Data Name	Activity/Data	Criteria	Allibulia	0,100	CONTRACTOR OF CO			
		Context(Name				Carbon Dioxide			
						Equivalent.			
		Energy commodity	1988 1885 1885	7,462,486	kWh	6,492			
Energy commodities	Electricity	Effergy commodity		\	TOTAL:	6,492			
					10 IAL.	0,-102			
ENERGY PRODUCTION									

ENERGY CONSUMPTION

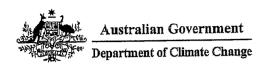
Part B Report - Commonwealth Scientific and Industrial Research Organisation

Version 4.00

Page 40 of 47

Date Created: 02/12/2009

Final



Commonwealth Scientific and Industrial Research Organisation

ABN: 41 687 119 230 R090819-00534

Energy consumed by means of combustion for transport

Source Name	/Activity Type	Activity type /context	Usage	Criteria V	Amount	Units	Content 4Factor	
Transport	Gasoline (other than for use as fuel in an aircraft)	Transport - Post 2004 vehicles	Combusted	A	64.94	kL	34.2	2,221
Transport	Diesel Oil	Transport - Post 2004 vehicles	Combusted	A	20.466	kL	38.6	
		<u> </u>		· · · · · · · · · · · · · · · · · · ·			TOTAL:	3,011

Energy consumed by means of combustion for a purpose other than producing electricity, producing a chemical or metal product or for transport

Source Name	Activity Type	Activity/type context	:Usage	Criteria	/Amount	141	Energy Content	Amount
					= 100		Factor	7,468
Other Stationary	Town gas	Non-transport	Combusted	Α	7,468	GJ	l .	
					4		TOTAL:	7,468

Energy consumed by means other than combustion

Source Name	Activity Type	Activity type	THE PROPERTY OF THE PARTY OF TH	.Criteria	Amount		Energy Content Factor	
Energy	Electricity	Energy commodity	Combusted		7,462,486	kWh	0.004	26,865
commodities							TOTAL:	26,865

Summary Table

Categories	Converted Amount	Units
Amount of energy consumed by means of combustion	10,479	GJ
Energy consumed by means other than combustion	26,865	GJ
TOTAL	37,344	GJ

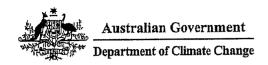
Part B Report - Commonwealth Scientific and Industrial Research Organisation

Version 4.00

Page 41 of 47

Fina!

COMMERCIAL-IN-CONFIDENCE



Commonwealth Scientific and Industrial Research Organisation

ABN: 41 687 119 230 R090819-00534

10 Group Member - Food Science Australia

The following tables summarise total greenhouse gas emissions and energy data for all facilities that were under the operational control of this group member during the reporting period.

	CHGIEMISSIONS		VENE	RCYTHILTH
Scope 1	Scope 2	Total of Scope II	Energy Consumed	Energy Rroduceds
((t, ⊆O2+e)	(LCO2-6)	(t.COz-e)		97
0	0	0	0	0

GO2 GH: N2O Perfluorocarbon Perfluorocarbon SF6 Garbon:dloxide (Methane Mitrous:exide GF: GF: SUlphur. Tierraniuoroc. Hexariuoro Hexariuoroc. Tierraniuoroc. Perfluoroc. Perfluoroc.			@HC Scope 1	Emission By	Gas (t.G0z±e)		
Tietrafluno: 'Hexafluoro ''hexafluoride 'methane: 'exetnane	(G02	GHA	N/O	Rerfiluorogarbon! CEA	Perfluorocalbon Gala	SF6 Sulphur	HECs Hydro
The second secon	SOLVOID (LOCARD)	Wellale	Migusonius	Tiethailuoro	IHexafluoro	- thexafiluoride	filionocarbons
ENTRE DE SENTE DE LA CONTRACTOR DE LA CO		0	0	methane.	C C	0	0

Group Member Details

Group Member: Food Science Australia

Identifying details: ABN: 78 695 101 514

Trading Name: Not Required

Type: JOINT VENTURE

Responsibility Statement: No participant has been nominated. All participants are responsible for including this entity in their group.

NOTE: a nomination is only valid when in a form approved by the Greenhouse and Energy Data Officer (GEDO) and only takes effect when it is given to the GEDO.

Participants in the Joint Venture

Details	Identifier
DPI - Vic Gov	ABN: 42 579 412 233
CSIRO	ABN: 78 695 101 514

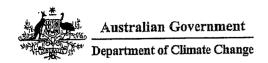
Part B Report - Commonwealth Scientific and Industrial Research Organisation

Version 4.00

Page 42 of 47

Final

COMMERCIAL-IN-CONFIDENCE



Commonwealth Scientific and Industrial Research Organisation

ABN: 41 687 119 230 R090819-00534

11 Group Member - Funnelback P/L

The following tables summarise total greenhouse gas emissions and energy data for all facilities that were under the operational control of this group member during the reporting period.

	GHŒIEMISSIONS		ENE	RCY
Scope	Scope 2	Trotal of Scope 1	Energy/Gonsumed	Energy Produced
±1 (COz⊬e)	(t)(C02=E)	and(Sdope(2 (t CO2+e)	(e)	
0	0	0	0	0

\			CHC Scope 1	Emission By	Gas (t/CO2-e)		
Ì	(CO2	GH4	N20	Reff[Uojjogarpon]	Perfiuorocarbon Gra	SFa Tudqiya	HFGs.
	Heamon doxide	Methane	NI UNE UNIO	Tetrafluoro	Hexafluoro	Water of Line de la	afiliarocarhone a
	0	0	0	e methaner s	0	0	. 0

Group Member Details

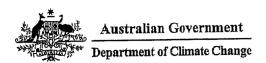
Group Member: Funnelback P/L

Identifying details: ABN: 34 116 105 296

Trading Name: Not Required

Type:

NOTE: a nomination is only valid when in a form approved by the Greenhouse and Energy Data Officer (GEDO) and only takes effect when it is given to the GEDO.



Commonwealth Scientific and Industrial Research Organisation

ABN: 41 687 119 230 R090819-00534

12 Group Member - Intalysis P/L

The following tables summarise total greenhouse gas emissions and energy data for all facilities that were under the operational control of this group member during the reporting period.

	:HGEMISSIONS			RGY III
Scope-liv	so: "Scope!2	Trotal of Scope II	Energy Consumed	Energy-Prioduced F
(t(C02-e)	((f(CO2+e))	and Scope 2 (f GO2-e)	(S)	(L)
0	0	0	. 0	. 0

_			CHC Scope 1	Emission By	Gas (t CO2+e))		
	. GO2 1-11	A CHI	N/O	Pelifiluologarioon	Rerfluorocarbon	Sha	THEGS
	Carbonidlexide	Methane	Nitrousioxide	GFA Tietrafluoro	C2lie Hexafiluoto	hexailuoilde	fluorogarbons
				methane	rethane		0
	0	0	0	0	0	O .	0

Group Member Details

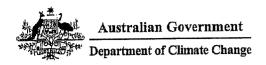
Group Member: Intalysis P/L

Trading Name: Not Required

Identifying details: ABN: 98 116 O67 951

Type:

NOTE: a nomination is only valid when in a form approved by the Greenhouse and Energy Data Officer (GEDO) and only takes effect when it is given to the GEDO.



Commonwealth Scientific and Industrial Research Organisation

ABN: 41 687 119 230

R090819-00534

13 Group Member - Smart Storage Pty Ltd

The following tables summarise total greenhouse gas emissions and energy data for all facilities that were under the operational control of this group member during the reporting period.

	CHICIEMISSIONS		ENE	RGY
Scope 1	Scope 2	Motaliof.Scope (L.	Energy Consumed	Energy Produced
(LCOz-e)	(n(CO2-e))	= and Scope 2 (f. CO ₂ =e)		(9)
0	0	0	0	0

			GHG/Scope 1	Emission By	Gas (t/CO2-e))		
2	(CO)	-(CH4-	Nitrous oxide	Rerfluorocafbon GFA	Rerfluorosarbon CzF6	ır Siis Sulphur	HRG5 Hydro
•	Calloo I diox de	Ne la c		ijjetrafluoro	Hexafluoro	hexafilloride.	/filupnocaribons
	0 -	0	0	0	0	0	0

Group Member Details

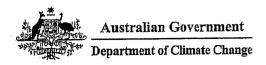
Group Member: Smart Storage Pty Ltd

Identifying details: ABN: 50 126 447 470

Trading Name: Ecoult

Type:

NOTE: a nomination is only valid when in a form approved by the Greenhouse and Energy Data Officer (GEDO) and only takes effect when it is given to the GEDO.



Commonwealth Scientific and Industrial Research Organisation

ABN: 41 687 119 230

R090819-00534

UNCERTAINTY LEVELS

Chapter 8 of the NGER (Measurement) Determination requires uncertainty to be assessed for emissions estimates so that a range for statistical uncertainty is provided within a 95% confidence level. The NGER Act and Regulations do not currently require uncertainty to be reported, however GHG Protocols require the assessment of uncertainty of emissions estimates. Calculations made to determine uncertainty may be reported in the "Comments" tab within OSCAR.

The NGER Determination currently sets out the uncertainty levels for emissions factors under Method 1 reporting, and ongoing refinements of the Determinations will include uncertainty levels for activities and energy content to enhance Method 1 calculations. If there are no specific guidelines in the determination, uncertainty of emissions estimates is to be assessed in accordance with the GHG protocol guidance on uncertainty assessment in the GHG inventories and calculating statistical parameter uncertainty (September 2003). Further guidance on calculating uncertainty is provided in the NGER (Measurement) Determination.

ADDITIONAL INFORMATION

Any further information you may wish to provide can be added to the "Comments" tab in OSCAR. Information provided may or may not be used by the GEDO and authorised staff, and will only be used in accordance with the NGER Act or as otherwise required by law.

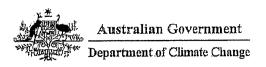
Part B Report - Commonwealth Scientific and Industrial Research Organisation

Version 4.00

Page 46 of 47

Final

COMMERCIAL-IN-CONFIDENCE



Commonwealth Scientific and Industrial Research Organisation

ABN: 41 687 119 230

R090819-00534

NATIONAL GREENHOUSE AND ENERGY REPORT

Commonwealth Scientific and Industrial Research Organisation

FOR THE REPORTING PERIOD 01/07/2008 - 30/06/2009

PART C

HEAD OFFICE POSTAL ADDRESS:

HEAD OFFICE STREET ADDRESS:

PO Box 225 DICKSON, ACT 2602 Limestone Ave CAMPBELL, ACT 2612

CEO: Dr Megan Clark

Contact Person:

Address: PO Box 225 DICKSON, ACT 2602

Position:

Address:

Phone: 0262766621

Phone:

Email: megan.clark@csiro.au

Email:

STATEMENT:

Commonwealth Scientific and Industrial Research Organisation wishes to include as part of its National Greenhouse and Energy Report the following 1 attachments:

No.	File Name	Description
1	Incidental emmissions notification to GEDO for NGERS.pdf	Incidental and Estimations