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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 1

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

Australian Government
Department of Climate Change and Energy Efficiency

Commonwealth Scientific and Industrial Research Organisation
ABN: 41 687 119 230
REGISTRATION APPLICATION No.: R090819-00534

NATIONAL GREENHOUSE AND ENERGY REPORT

Commonwealth Scientific and Industrial Research Organisation

FOR THE REPORTING PERIOD 01/07/2009 - 30/06/2010

PART A

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

This report refers to the reporting entity, which is any corporation or person obligated to submit a report (the Report) under the NGER Act; including, registered corporations under section 12, a corporation holding a Reporting Transfer Certificate (RTC) under section 22K or an "other person" as declared by the Greenhouse and Energy Data Officer (GEDO) under section 20.

Reporting entity is to submit Part A and B report components, which together comprise the Report in the form approved by the GEDO.

This Report must contain any information specified by the NGER legislation in relation to the greenhouse gas (GHG) emissions, energy production and energy consumption from the operation of facilities. 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

Reporting Entity name:	**Commonwealth Scientific and Industrial Research Organisation**
Identifying Details:	**ABN: 41 687 119 230**
Chief Executive Officer (or equivalent):	**Dr Megan Clark**

Corporation Head Office Street Address:

Limestone Ave
CAMPBELL, ACT 2612, AUSTRALIA

Corporation Postal Address:

PO Box 225
DICKSON, ACT 2602, AUSTRALIA

Australian Government

Department of Climate Change and Energy Efficiency

Commonwealth Scientific and Industrial Research Organisation

ABN: 41 687 119 230

REGISTRATION APPLICATION No.: R090819-00534

CEO (or equivalent) details:

Name: Dr Megan Clark

Position: Chief Executive Officer

Address: PO Box 225
DICKSON, ACT 2602,
AUSTRALIA

Phone: 0262766621

Email: megan.clark@csiro.au

Contact Person details:

Name:

Position:

Address:

Phone:

Email:

Australian Government
Department of Climate Change and Energy Efficiency

Commonwealth Scientific and Industrial Research Organisation
ABN: 41 687 119 230
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GREENHOUSE GAS EMISSIONS AND ENERGY TOTALS FOR THE REPORTING PERIOD 01/07/2009 - 30/06/2010

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.

	GHG EMISSIONS			ENERGY	
	Scope 1 (tCO_2-e)	Scope 2 (tCO_2-e)	Total of Scope 1 and Scope 2 (tCO_2-e)	Energy Consumed (GJ)	Energy Produced (GJ)
Actual	16,381	114,763	131,144	692,589	888
% Value Converted to Value	0	0	0	0	0
Corporation Total	16,381	114,763	131,144	692,589	888

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 estimates

Australian Government

Department of Climate Change and Energy Efficiency

Commonwealth Scientific and Industrial Research Organisation

ABN: 41 687 119 230

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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.

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)).

VALIDATION WARNINGS

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

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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 and Energy Efficiency has appropriate measures in place to ensure that personal information is protected. Measures include procedures and systems for the receipt, management 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 and Energy Efficiency 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.

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DECLARATION

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

It is the responsibility of the reporting entity to ensure that the information provided in the Report is prepared and supplied in accordance with the requirements set out in the NGER Act and NGER Regulations and that the data is based on methods in the NGER (Measurement) Determination.

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.

In order to assist reporting entities to comply with their reporting obligations under the NGER Act and NGER Regulations, NGER Guidance material has been developed by the Commonwealth and is available on the Department's website: www.climatechange.gov.au/reporting. NGER Guidance material can be used in conjunction with the NGER Technical Guidelines, which were developed to assist stakeholders understand and apply the NGER (Measurement) Determination.

It should be noted that neither NGER Guidance 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.

Under sections 19, 20 and 22G 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 currently 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 for which 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, 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
  - this Report is required for a registered corporation's trigger year (within the meaning of subsections 12(1) or (3) of the NGER Act); or
  - the corporation was a registered corporation at the end of the financial year to which the Report relates; or
  - the corporation was the holder of an RTC in relation to a facility 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 provided in Parts A and B of this Report has been prepared and supplied in accordance with the requirements set out in the NGER Act, NGER Regulations and NGER (Measurement) Determinations.
  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.
- I agree to the disclosure by publication of information about the GreenPower purchases or RECs which were voluntarily surrendered by the reporting entity and/or members of its Corporate Group in 2009-10.

Name of CEO (or equivalent) (in full): DR MEGAN ELIZABETH CLARK

Signature of CEO (or equivalent):

Date: 19/11/10

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Where the CEO has not signed this report:
The CEO (or equivalent) of a reporting entity may not delegate authority to sign the NGER Report to another person. However, it is acceptable for a senior executive officer, who is officially acting in the absence of the CEO (or equivalent), to sign Part A of the NGER Report. Alternatively, the CEO can authorise another person to sign the Report for and on their behalf. For more information on alternative signatories please contact the Department or visit our website.

☐ The Report has been signed by a senior executive officer, who is officially acting in the absence of the CEO (or equivalent); or
☐ The Report has been signed by a person that has been authorised by the CEO, to sign for and on their behalf (evidence of authorisation must be provided)

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Once signed, a copy of Part A should be kept for your records. The signed Part A must be received by the GEDO before the 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 and Energy Efficiency
GPO Box 854
CANBERRA ACT 2601

Reporting entities may alternatively submit the scanned signed Part A to the GEDO by email (reporting@climatechange.gov.au) or facsimile (+61 2 6159 7040). A corporation will be considered to have met its reporting deadline if the scanned signed copy is received by the GEDO, by the deadline. If submission occurs by email or facsimile, the corporation is also requested to send the original hardcopy in the mail.

Once the signed hardcopy 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.

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NATIONAL GREENHOUSE AND ENERGY REPORT

Commonwealth Scientific and Industrial Research Organisation

FOR THE REPORTING PERIOD 01/07/2009 - 30/06/2010

PART B

Head Office Postal Address:

PO Box 225
DICKSON, ACT 2602, AUSTRALIA

Head Office Street Address:

Limestone Ave
CAMPBELL, ACT 2612, AUSTRALIA

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

A reporting entity must submit Part A and B report components, which together comprise the National Greenhouse and Energy Report (the Report).

For registered corporations reporting in accordance with section 19 of the NGER Act, the Report contains information in relation to the GHG 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. For reporting entities holding an RTC, this Report contains information in relation to the GHG emissions, energy production and energy consumption from the operation of RTC facilities.

If the Report is being submitted by an "other person" as declared by the Greenhouse and Energy Data Officer under section 20 of the NGER Act, the Report only needs to contain the section 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.

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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.

	GHG EMISSIONS			ENERGY	
	Scope 1 ($t CO_2$-e)	Scope 2 ($t CO_2$-e)	Total of Scope 1 and Scope 2 ($t CO_2$-e)	Energy Consumed (GJ)	Energy Produced (GJ)
Actual	16,381	114,763	131,144	692,589	888
% Value Converted to Value	0	0	0	0	0
Corporation Total	16,381	114,763	131,144	692,589	888

GHG Scope 1 Emission By Gas ($t CO_2$-e)						
CO_2 Carbon Dioxide	CH_4 Methane	N_2O Nitrous Oxide	Perfluorocarbons	HFCs Hydrofluoro Carbons	Sulphur Hexa-Fluoride	TOTAL
16,345	10	26	0	0	0	16,381

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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 reported as %	GHG Emissions (%)	Energy Produced (%)	Energy Consumed (%)
0	0	0	0

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

REPORTING ASSESSMENT OF UNCERTAINTY UNDER NGER REGULATION 4.17A

The NGER Regulations require corporations to include the amount of uncertainty associated with estimates of scope 1 emissions for their corporate group in their 2009-10 report. In accordance with Chapter 8 of the NGER Determination, uncertainty is to be assessed for emissions estimates so that a range for statistical uncertainty is provided within a 95% confidence level. The NGER Determination currently sets out the uncertainty levels for emissions factors and energy content of activities to enhance Method 1 calculations. If there are no specific guidelines in the determination, uncertainty of emissions estimates are 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.

It is recognised that some corporations may not be in a position to provide uncertainty figures, as the amendments took effect halfway through a reporting year. Corporations are still encouraged to include uncertainty figures in their 2009-10 report wherever possible.

The GEDO has stated that he will not take compliance action for failure to meet the uncertainty reporting requirement until the 2010-11 reporting year.

VOLUNTARY PROVISION OF GREENPOWER AND RECS INFORMATION

This reporting entity has elected to identify its individual GreenPower purchases and/or voluntarily surrendered renewable energy certificates (RECs). The provision of this information is not required under the NGER Act and does not comprise part of a reporting entity's Report.
In the 2009-10 financial year the reporting entity and/or members of its corporate group purchased:

21694 MWh of GreenPower; and/or 0 MWh of RECs which were voluntarily surrendered
to reduce the greenhouse gas emissions attributed to their electricity use.

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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.

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)).

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CORPORATE SUMMARY

Scope 1 Greenhouse Gas Emissions Summary

Source Name	Activity Data Name	Activity Data Context Name	Amount	Unit	Scope 1 ($t CO_2$-e)
Other Stationary	Diesel Oil	Non-transport	30	kL	80
Other Stationary	Liquefied petroleum gas	Non-transport	3	kL	5
Other Stationary	Other natural gas liquids	Non-transport	1	tonnes	3
Other Stationary	Town gas	Non-transport	227,173	GJ	13,621
Transport	Diesel Oil	Transport	17	kL	46
Transport	Diesel Oil	Transport - Post 2004 vehicles	315	kL	848
Transport	Ethanol for use as a fuel in an internal combustion engine	Transport	0	kL	0
Transport	Ethanol for use as a fuel in an internal combustion engine	Transport - Post 2004 vehicles	3	kL	0
Transport	Gasoline (other than for use as fuel in an aircraft)	Transport	90	kL	214
Transport	Gasoline (other than for use as fuel in an aircraft)	Transport - Post 2004 vehicles	639	kL	1,463
Transport	Liquefied petroleum gas	Transport	2	kL	3
Transport	Liquefied petroleum gas	Transport - Post 2004 vehicles	13	kL	20
				TOTAL:	16,305

Scope 2 Greenhouse Gas Emissions Summary

Source Name	Activity Data Name	Activity Data Context Name	Amount	Unit	Scope 2 ($t CO_2$-e)
Energy commodities	Electricity	Energy commodity	118,310,795	kWh	114,763
				TOTAL:	114,763

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Energy Consumption Summary

Source Name	Activity Type	Activity Type Context	Amount	Unit	Converted Amount (GJ)
Energy commodities	Electricity	Energy commodity	118,310,795	kWh	425,919
Other Stationary	Town gas	Non-transport	227,173	GJ	227,173
Other Stationary	Other natural gas liquids	Non-transport	1	tonnes	51
Other Stationary	Diesel Oil	Non-transport	30	kL	1,150
Other Stationary	Liquefied petroleum gas	Non-transport	3	kL	87
Transport	Gasoline (other than for use as fuel in an aircraft)	Transport	90	kL	3,079
Transport	Diesel Oil	Transport	17	kL	659
Transport	Liquefied petroleum gas	Transport	2	kL	55
Transport	Ethanol for use as a fuel in an internal combustion engine	Transport	0	kL	10
Transport	Gasoline (other than for use as fuel in an aircraft)	Transport - Post 2004 vehicles	639	kL	21,865
Transport	Diesel Oil	Transport - Post 2004 vehicles	315	kL	12,144
Transport	Liquefied petroleum gas	Transport - Post 2004 vehicles	13	kL	337
Transport	Ethanol for use as a fuel in an internal combustion engine	Transport - Post 2004 vehicles	3	kL	60
				TOTAL:	692,589

Energy Production Summary

Methods of Production	Produced for the operation of the facility	Units	Produced for use outside the operation of the facility	Units	Produced for supply to an electricity transmission or distribution network	Units	Converted Amount (GJ)
Electricity (solar generation)	90,754	kWh					327
Electricity (thermal generation)	155,822	kWh					561
						TOTAL:	888

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CORPORATE STRUCTURE (TABLE OF CONTENTS) INCLUDING EMISSIONS SUMMARY

Emissions Summary By Facility

			GHG EMISSIONS			ENERGY	
Document Reference Number	Entity Name	Entity Type	Scope 1 (tCO_2-e)	Scope 2 (tCO_2-e)	Total of Scope 1 and Scope 2 (tCO_2-e)	Energy Consumed (GJ)	Energy Produced (GJ)
1	Australian Animal Health Laboratory (AAHL)	Facility	3,648	16,409	20,057	107,678	0
2	CSIRO-ACT	Facility Aggregate	4,737	20,122	24,859	157,832	0
3	CSIRO-NSW	Facility Aggregate	2,342	24,631	26,973	137,982	888
4	CSIRO-NT	Facility Aggregate	3	235	238	1,290	0
5	CSIRO-QLD	Facility Aggregate	254	7,887	8,140	35,699	0
6	CSIRO-SA	Facility Aggregate	459	4,206	4,665	27,174	0
7	CSIRO-TAS	Facility Aggregate	83	885	968	15,073	0
8	CSIRO-VIC	Facility Aggregate	4,516	32,424	36,939	170,404	0
9	CSIRO-WA	Facility Aggregate	341	7,965	8,305	39,456	0

CEO (or equivalent) details:

Name: Dr Megan Clark
Position: Chief Executive Officer
Address: PO Box 225
DICKSON, ACT 2602,
AUSTRALIA

Phone: 0262766621
Email: megan.clark@csiro.au

Contact Person details:

Name:
Position:
Address:

Phone:
Email:

Australian Government
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1. Facility - Australian Animal Health Laboratory (AAHL)

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

GHG EMISSIONS			ENERGY	
Scope 1 ($t CO_2-e$)	Scope 2 ($t CO_2-e$)	Total of Scope 1 and Scope 2 ($t CO_2-e$)	Energy Consumed (GJ)	Energy Produced (GJ)
3,648	16,409	20,057	107,678	0

GHG Scope 1 Emission By Gas ($t CO_2-e$)						
CO_2 Carbon Dioxide	CH_4 Methane	N_2O Nitrous Oxide	Perfluorocarbons	HFCs Hydro Fluoro Carbons	Sulphur Hexa Fluoride	TOTAL
3,644	2	2	0	0	0	3,648

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, AUSTRALIA

Geographic Coordinates: 38.153°S, 144.387°E

Region: VIC

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:

Number of days with Operational Control: 365

Facility Data

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GREENHOUSE GAS EMISSIONS

Scope 1

Source Name	Activity Data Name	Activity Data Context Name	Criteria	Amount	Units	Energy Content Factor	Energy Content	Emission Factors	Gases	Method	Scope1 t CO_2-e Carbon Dioxide Equivalent
Other Stationary	Diesel Oil	Non-transport	A	30	kL	38.6	1,150	69.200	CO_2	Method 1	80
								0.100	CH_4	Method 1	0
								0.200	N_2O	Method 1	0
Other Stationary	Town gas	Non-transport	A	57,116	GJ	1	57,116	59.900	CO_2	Method 1	3,421
								0.030	CH_4	Method 1	2
								0.030	N_2O	Method 1	2
Transport	Diesel Oil	Transport - Post 2004 vehicles	A	1	kL	38.6	43	69.200	CO_2	Method 1	3
								0.010	CH_4	Method 1	0
								0.600	N_2O	Method 1	0
Transport	Diesel Oil	Transport	A	0	kL	38.6	7	69.200	CO_2	Method 1	0
								0.200	CH_4	Method 1	0
								0.500	N_2O	Method 1	0
Transport	Ethanol for use as a fuel in an internal combustion engine	Transport - Post 2004 vehicles	A	0	kL	23.4	1	0.000	CO_2	Method 1	0
								0.200	CH_4	Method 1	0
								0.200	N_2O	Method 1	0
Transport	Ethanol for use as a fuel in an internal combustion engine	Transport	A	0	kL	23.4	0	0.000	CO_2	Method 1	0
								1.200	CH_4	Method 1	0
								2.200	N_2O	Method 1	0
Transport	Gasoline (other than for use as fuel in an aircraft)	Transport - Post 2004 vehicles	A	24	kL	34.2	812	66.700	CO_2	Method 1	54
								0.020	CH_4	Method 1	0
								0.200	N_2O	Method 1	0

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Transport	Gasoline (other than for use as fuel in an aircraft)	Transport	A	4	kL	34.2	132	66.700	CO_2	Method 1	9
								0.600	CH_4	Method 1	0
								2.300	N_2O	Method 1	0
										TOTAL:	3,572

Please note that the scope 1 emissions total does not include emissions from activity types with a zero energy content factor

Greenhouse Gas Emissions

Waste incineration

Activity type	Activity context	Criteria	Amount	Unit	Gas	Emission Factor	Method	Total t CO_2-e Carbon Dioxide Equivalent
Clinical waste	Waste	BBB	87.36	tonnes	CO_2	N/A	Method 1	77
							TOTAL:	77

Source Information

Name	Entered Amount	Unit
Total waste incinerated	87.36	tonnes

Scope 2

Source Name	Activity Data Name	Activity Data Context Name	Criteria	Amounts	Units	Scope2 t CO_2-e Carbon Dioxide Equivalent
Energy commodities	Electricity	Energy commodity		13,449,642	kWh	16,409
					TOTAL:	16,409

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ENERGY CONSUMPTION

Energy consumed by means of combustion for transport

Source Name	Activity Type	Activity type context	Usage	Criteria	Amount	Units	Energy Content Factor	Converted Amount (GJ)
Transport	Gasoline (other than for use as fuel in an aircraft)	Transport	Combusted	A	3.864	kL	34.2	132
Transport	Diesel Oil	Transport	Combusted	A	0.18	kL	38.6	7
Transport	Ethanol for use as a fuel in an internal combustion engine	Transport	Combusted	A	0.004	kL	23.4	0
Transport	Gasoline (other than for use as fuel in an aircraft)	Transport - Post 2004 vehicles	Combusted	A	23.736	kL	34.2	812
Transport	Diesel Oil	Transport - Post 2004 vehicles	Combusted	A	1.105	kL	38.6	43
Transport	Ethanol for use as a fuel in an internal combustion engine	Transport - Post 2004 vehicles	Combusted	A	0.026	kL	23.4	1
							TOTAL:	994

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	Units	Energy Content Factor	Converted Amount (GJ)
Other Stationary	Town gas	Non-transport	Combusted	A	57,116	GJ	1	57,116
Other Stationary	Diesel Oil	Non-transport	Combusted	A	29.78	kL	38.6	1,150
							TOTAL:	58,266

Energy consumed by means other than combustion

Source Name	Activity Type	Activity type context	Usage	Criteria	Amount	Units	Energy Content Factor	Converted Amount (GJ)
Energy commodities	Electricity	Energy commodity			13,449,642	kWh	0.004	48,419
							TOTAL:	48,419

Australian Government
Department of Climate Change and Energy Efficiency

Commonwealth Scientific and Industrial Research Organisation

ABN: 41 687 119 230

REGISTRATION APPLICATION No.: R090819-00534

Summary Table

Categories	Converted Amount	Units
Amount of energy consumed by means of combustion	59,260	GJ
Energy consumed by means other than combustion	48,419	GJ
TOTAL:	107,678	GJ

Australian Government
Department of Climate Change and Energy Efficiency

Commonwealth Scientific and Industrial Research Organisation
ABN: 41 687 119 230
REGISTRATION APPLICATION No.: R090819-00534

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.

GHG EMISSIONS			ENERGY	
Scope 1 ($t CO_2$-e)	Scope 2 ($t CO_2$-e)	Total of Scope 1 and Scope 2 ($t CO_2$-e)	Energy Consumed (GJ)	Energy Produced (GJ)
4,737	20,122	24,859	157,832	0

GHG Scope 1 Emission By Gas ($t CO_2$-e)						
CO_2 Carbon Dioxide	CH_4 Methane	N_2O Nitrous Oxide	Perfluorocarbons	HFCs Hydrofluoro carbons	Sulphur Hexa Fluoride	TOTAL
4,723	3	11	0	0	0	4,737

Facility Aggregate Details

Operational Control: Commonwealth Scientific and Industrial Research Organisation has operational control over this facility.

Region: ACT

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

Australian Government
Department of Climate Change and Energy Efficiency

Commonwealth Scientific and Industrial Research Organisation

ABN: 41 687 119 230

REGISTRATION APPLICATION No.: R090819-00534

Facility Name	Address	GEO Coordinates
CSIRO-ACT-Acton	Australian National University North Road ACTON, ACT 2601	35.275°S, 149.121°E
CSIRO-ACT-Black Mountain	Clunies Ross Street BLACK MOUNTAIN, ACT 2601	35.272°S, 149.116°E
CSIRO-ACT-Campbell	Limestone Avenue CAMPBELL, ACT 2612	35.276°S, 149.145°E
CSIRO-ACT-Ginninderra	Barton Highway BELCONNEN, ACT 2617	35.197°S, 149.085°E
CSIRO-ACT-Gungahlin	Bellenden Street CRACE, ACT 2911	35.220°S, 149.127°E
CSIRO-ACT-Tidbinbilla	421 Discovery Drive Tidbinbilla HUME, ACT 2620	35.402°S, 148.981°E
CSIRO-ACT-Yarralumla	Banks Street YARRALUMLA, ACT 2600	35.305°S, 149.093°E

Facility Aggregate Data

Australian Government
Department of Climate Change and Energy Efficiency

Commonwealth Scientific and Industrial Research Organisation
ABN: 41 687 119 230
REGISTRATION APPLICATION No.: R090819-00534

GREENHOUSE GAS EMISSIONS

Scope 1

Source Name	Activity Data Name	Activity Data Context Name	Criteria	Amount	Units	Energy Content Factor	Energy Content	Emission Factors	Gases	Method	Scope1 t CO_2-e Carbon Dioxide Equivalent
Other Stationary	Town gas	Non-transport	A	58,145	GJ	1	58,145	59.900	CO_2	Method 1	3,483
								0.030	CH_4	Method 1	2
								0.030	N_2O	Method 1	2
Transport	Diesel Oil	Transport - Post 2004 vehicles	A	240	kL	38.6	9,278	69.200	CO_2	Method 1	642
								0.010	CH_4	Method 1	0
								0.600	N_2O	Method 1	6
Transport	Diesel Oil	Transport	A	5	kL	38.6	206	69.200	CO_2	Method 1	14
								0.200	CH_4	Method 1	0
								0.500	N_2O	Method 1	0
Transport	Ethanol for use as a fuel in an internal combustion engine	Transport - Post 2004 vehicles	A	1	kL	23.4	19	0.000	CO_2	Method 1	0
								0.200	CH_4	Method 1	0
								0.200	N_2O	Method 1	0
Transport	Ethanol for use as a fuel in an internal combustion engine	Transport	A	0	kL	23.4	3	0.000	CO_2	Method 1	0
								1.200	CH_4	Method 1	0
								2.200	N_2O	Method 1	0
Transport	Gasoline (other than for use as fuel in an aircraft)	Transport - Post 2004 vehicles	A	226	kL	34.2	7,729	66.700	CO_2	Method 1	516
								0.020	CH_4	Method 1	0
								0.200	N_2O	Method 1	2
Transport	Gasoline (other than for use as fuel in an aircraft)	Transport	A	23	kL	34.2	778	66.700	CO_2	Method 1	52
								0.600	CH_4	Method 1	0
								2.300	N_2O	Method 1	2

Transport	Liquefied petroleum gas	Transport - Post 2004 vehicles	A	9	kL	26.2	242	59.600	CO_2	Method 1	14
								0.300	CH_4	Method 1	0
								0.300	N_2O	Method 1	0
Transport	Liquefied petroleum gas	Transport	A	2	kL	26.2	39	59.600	CO_2	Method 1	2
								0.600	CH_4	Method 1	0
								0.600	N_2O	Method 1	0
										TOTAL:	4,737

Please note that the scope 1 emissions total does not include emissions from activity types with a zero energy content factor

Greenhouse Gas Emissions

Scope 2

Source Name	Activity Data Name	Activity Data Context Name	Criteria	Amounts	Units	Scope2 t CO_2-e Carbon Dioxide Equivalent.
Energy commodities	Electricity	Energy commodity		22,608,711	kWh	20,122
					TOTAL:	20,122

Australian Government
Department of Climate Change and Energy Efficiency

Commonwealth Scientific and Industrial Research Organisation
ABN: 41 687 119 230
REGISTRATION APPLICATION No.: R090819-00534

ENERGY CONSUMPTION

Energy consumed by means of combustion for transport

Source Name	Activity Type	Activity type context	Usage	Criteria	Amount	Units	Energy Content Factor	Converted Amount (GJ)
Transport	Gasoline (other than for use as fuel in an aircraft)	Transport	Combusted	A	22.749	kL	34.2	778
Transport	Diesel Oil	Transport	Combusted	A	5.349	kL	38.6	206
Transport	Liquefied petroleum gas	Transport	Combusted	A	1.505	kL	26.2	39
Transport	Ethanol for use as a fuel in an internal combustion engine	Transport	Combusted	A	0.133	kL	23.4	3
Transport	Gasoline (other than for use as fuel in an aircraft)	Transport - Post 2004 vehicles	Combusted	A	225.986	kL	34.2	7,729
Transport	Diesel Oil	Transport - Post 2004 vehicles	Combusted	A	240.372	kL	38.6	9,278
Transport	Liquefied petroleum gas	Transport - Post 2004 vehicles	Combusted	A	9.245	kL	26.2	242
Transport	Ethanol for use as a fuel in an internal combustion engine	Transport - Post 2004 vehicles	Combusted	A	0.817	kL	23.4	19
							TOTAL:	18,295

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	Units	Energy Content Factor	Converted Amount (GJ)
Other Stationary	Town gas	Non-transport	Combusted	A	58,145	GJ	1	58,145
							TOTAL:	58,145

Energy consumed by means other than combustion

Source Name	Activity Type	Activity type context	Usage	Criteria	Amount	Units	Energy Content Factor	Converted Amount (GJ)
Energy commodities	Electricity	Energy commodity			22,608,711	kWh	0.004	81,391
							TOTAL:	81,391

Australian Government
Department of Climate Change and Energy Efficiency

Commonwealth Scientific and Industrial Research Organisation

ABN: 41 687 119 230

REGISTRATION APPLICATION No.: R090819-00534

Summary Table

Categories	Converted Amount	Units
Amount of energy consumed by means of combustion	76,440	GJ
Energy consumed by means other than combustion	81,391	GJ
TOTAL:	157,832	GJ

Australian Government
Department of Climate Change and Energy Efficiency

Commonwealth Scientific and Industrial Research Organisation
ABN: 41 687 119 230
REGISTRATION APPLICATION No.: R090819-00534

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			ENERGY	
Scope 1 (tCO_2-e)	Scope 2 (tCO_2-e)	Total of Scope 1 and Scope 2 (tCO_2-e)	Energy Consumed (GJ)	Energy Produced (GJ)
2,342	24,631	26,973	137,982	888

GHG Scope 1 Emission By Gas (tCO_2-e)						
CO_2 Carbon Dioxide	CH_4 Methane	N_2O Nitrous Oxide	Perfluorocarbons	HFCs Hydro Fluoro Carbons	Sulphur Hexa Fluoride	TOTAL
2,336	2	4	0	0	0	2,342

Facility Aggregate Details

Operational Control: Commonwealth Scientific and Industrial Research Organisation has operational control over this facility.

Region: NSW

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	Address	GEO Coordinates
CSIRO-NSW-Armidale - Chiswick	New England Highway ARMIDALE, NSW 2350	30.608°S, 151.545°E
CSIRO-NSW-Narrabri	ATNF Narrabri Paul Wild Observatory NARRABRI, NSW 2390	30.313°S, 149.563°E
CSIRO-NSW-Griffith	Research Station HANWOOD, NSW 2680	34.319°S, 146.068°E
CSIRO-NSW-Lindfield	Bradfield Road LINDFIELD WEST , NSW 2070	33.783°S, 151.150°E
CSIRO-NSW-Marsfield	Corner Vimiera & Pembroke Roads MARSFIELD, NSW 2122	33.773°S, 151.096°E
CSIRO-NSW-Myall Vale	Wee Waa Road Myall Vale NARRABRI, NSW 2390	30.206°S, 149.595°E
CSIRO-NSW-Newcastle	Steel River Estate 10 Murray Dwyer Circuit MAYFIELD WEST, NSW 2304	32.883°S, 151.727°E
CSIRO-NSW-North Ryde	Riverside Corporate Park 11 Julius Avenue NORTH RYDE, NSW 2113	33.796°S, 151.141°E
CSIRO-NSW-Parkes	ATNF Parkes Observatory 473 Telescope Road PARKES, NSW 2870	32.998°S, 148.263°E
CSIRO-NSW-Mopra	Lot 43 off John Renshaw Pkwy COONABARABRAN, NSW 2357	31.273°S, 149.064°E

Facility Aggregate Data

Australian Government
Department of Climate Change and Energy Efficiency

Commonwealth Scientific and Industrial Research Organisation
ABN: 41 687 119 230
REGISTRATION APPLICATION No.: R090819-00534

GREENHOUSE GAS EMISSIONS

Scope 1

Source Name	Activity Data Name	Activity Data Context Name	Criteria	Amount	Units	Energy Content Factor	Energy Content	Emission Factors	Gases	Method	Scope1 t CO_2-e Carbon Dioxide Equivalent
Other Stationary	Other natural gas liquids	Non-transport	A	1	tonnes	46.5	51	60.400	CO_2	Method 1	3
								0.060	CH_4	Method 1	0
								0.200	N_2O	Method 1	0
Other Stationary	Town gas	Non-transport	A	32,646	GJ	1	32,646	59.900	CO_2	Method 1	1,955
								0.030	CH_4	Method 1	1
								0.030	N_2O	Method 1	1
Transport	Diesel Oil	Transport - Post 2004 vehicles	A	21	kL	38.6	799	69.200	CO_2	Method 1	55
								0.010	CH_4	Method 1	0
								0.600	N_2O	Method 1	0
Transport	Diesel Oil	Transport	A	3	kL	38.6	130	69.200	CO_2	Method 1	9
								0.200	CH_4	Method 1	0
								0.500	N_2O	Method 1	0
Transport	Ethanol for use as a fuel in an internal combustion engine	Transport - Post 2004 vehicles	A	1	kL	23.4	21	0.000	CO_2	Method 1	0
								0.200	CH_4	Method 1	0
								0.200	N_2O	Method 1	0
Transport	Ethanol for use as a fuel in an internal combustion engine	Transport	A	0	kL	23.4	3	0.000	CO_2	Method 1	0
								1.200	CH_4	Method 1	0
								2.200	N_2O	Method 1	0
Transport	Gasoline (other than for use as fuel in an aircraft)	Transport - Post 2004 vehicles	A	118	kL	34.2	4,042	66.700	CO_2	Method 1	270
								0.020	CH_4	Method 1	0
								0.200	N_2O	Method 1	1

Australian Government
Department of Climate Change and Energy Efficiency

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Transport	Gasoline (other than for use as fuel in an aircraft)	Transport	A	19	kL	34.2	658	66.700	CO_2	Method 1	44
								0.600	CH_4	Method 1	0
								2.300	N_2O	Method 1	2
										TOTAL:	2,342

Please note that the scope 1 emissions total does not include emissions from activity types with a zero energy content factor

Greenhouse Gas Emissions

Scope 2

Source Name	Activity Data Name	Activity Data Context Name	Criteria	Amounts	Units	Scope2 t CO_2-e Carbon Dioxide Equivalent:
Energy commodities	Electricity	Energy commodity		27,675,524	kWh	24,631
					TOTAL:	24,631

Australian Government
Department of Climate Change and Energy Efficiency

Commonwealth Scientific and Industrial Research Organisation
ABN: 41 687 119 230
REGISTRATION APPLICATION No.: R090819-00534

ENERGY PRODUCTION

Electricity Production

Methods of Production	Criteria	Produced for the operation of the facility	Units	Produced for use outside the operation of the facility	Units	Produced for supply to an electricity transmission or distribution network	Units	Converted Amount (GJ)
Electricity (solar generation)		90,754	kWh					327
Electricity (thermal generation)		155,822	kWh					561
							TOTAL:	888

Australian Government
Department of Climate Change and Energy Efficiency

Commonwealth Scientific and Industrial Research Organisation
ABN: 41 687 119 230
REGISTRATION APPLICATION No.: R090819-00534

ENERGY CONSUMPTION

Energy consumed by means of combustion for transport

Source Name	Activity Type	Activity type context	Usage	Criteria	Amount	Units	Energy Content Factor	Converted Amount (GJ)
Transport	Gasoline (other than for use as fuel in an aircraft)	Transport	Combusted	A	19.239	kL	34.2	658
Transport	Diesel Oil	Transport	Combusted	A	3.37	kL	38.6	130
Transport	Ethanol for use as a fuel in an internal combustion engine	Transport	Combusted	A	0.145	kL	23.4	3
Transport	Gasoline (other than for use as fuel in an aircraft)	Transport - Post 2004 vehicles	Combusted	A	118.18	kL	34.2	4,042
Transport	Diesel Oil	Transport - Post 2004 vehicles	Combusted	A	20.702	kL	38.6	799
Transport	Ethanol for use as a fuel in an internal combustion engine	Transport - Post 2004 vehicles	Combusted	A	0.892	kL	23.4	21
							TOTAL:	5,653

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	Units	Energy Content Factor	Converted Amount (GJ)
Other Stationary	Town gas	Non-transport	Combusted	A	32,646	GJ	1	32,646
Other Stationary	Other natural gas liquids	Non-transport	Combusted	A	1.089	tonnes	46.5	51
							TOTAL:	32,697

Energy consumed by means other than combustion

Source Name	Activity Type	Activity type context	Usage	Criteria	Amount	Units	Energy Content Factor	Converted Amount (GJ)
Energy commodities	Electricity	Energy commodity			27,675,524	kWh	0.004	99,632
							TOTAL:	99,632

Australian Government
Department of Climate Change and Energy Efficiency

Commonwealth Scientific and Industrial Research Organisation

ABN: 41 687 119 230

REGISTRATION APPLICATION No.: R090819-00534

Summary Table

Categories	Converted Amount	Units
Amount of energy consumed by means of combustion	38,350	GJ
Energy consumed by means other than combustion	99,632	GJ
TOTAL:	137,982	GJ

Australian Government
Department of Climate Change and Energy Efficiency

Commonwealth Scientific and Industrial Research Organisation
ABN: 41 687 119 230
REGISTRATION APPLICATION No.: R090819-00534

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.

GHG EMISSIONS			ENERGY	
Scope 1 ($t CO_2$-e)	Scope 2 ($t CO_2$-e)	Total of Scope 1 and Scope 2 ($t CO_2$-e)	Energy Consumed (GJ)	Energy Produced (GJ)
3	235	238	1,290	0

GHG Scope 1 Emission By Gas ($t CO_2$-e)						
CO_2 Carbon Dioxide	CH_4 Methane	N_2O Nitrous Oxide	Perfluorocarbons	HFCs Hydro Fluoro Carbons	Sulphur Hexa Fluoride	TOTAL
3	0	0	0	0	0	3

Facility Aggregate Details

Operational Control: Commonwealth Scientific and Industrial Research Organisation has operational control over this facility.

Region: NT

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	Address	GEO Coordinates
CSIRO-NT-Alice Springs	50 Spicer Street ALICE SPRINGS, NT 0872	23.696°S, 133.862°E
CSIRO-NT-Darwin	Vanderlin Drive Berrimah BERRIMAH, NT 0828	12.411°S, 130.921°E

Facility Aggregate Data

Australian Government
Department of Climate Change and Energy Efficiency

Commonwealth Scientific and Industrial Research Organisation
ABN: 41 687 119 230
REGISTRATION APPLICATION No.: R090819-00534

GREENHOUSE GAS EMISSIONS

Scope 1

Source Name	Activity Data Name	Activity Data Context Name	Criteria	Amount	Units	Energy Content Factor	Energy Content	Emission Factors	Gases	Method	Scope1 t CO_2-e Carbon Dioxide Equivalent
Transport	Gasoline (other than for use as fuel in an aircraft)	Transport - Post 2004 vehicles	A	1	kL	34.2	39	66.700	CO_2	Method 1	3
								0.020	CH_4	Method 1	0
								0.200	N_2O	Method 1	0
Transport	Gasoline (other than for use as fuel in an aircraft)	Transport	A	0	kL	34.2	6	66.700	CO_2	Method 1	0
								0.600	CH_4	Method 1	0
								2.300	N_2O	Method 1	0
										TOTAL:	3

Please note that the scope 1 emissions total does not include emissions from activity types with a zero energy content factor

Greenhouse Gas Emissions

Scope 2

Source Name	Activity Data Name	Activity Data Context Name	Criteria	Amounts	Units	Scope2 t CO_2-e Carbon Dioxide Equivalent
Energy commodities	Electricity	Energy commodity		345,770	kWh	235
					TOTAL:	235

Australian Government
Department of Climate Change and Energy Efficiency

Commonwealth Scientific and Industrial Research Organisation
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ENERGY CONSUMPTION

Energy consumed by means of combustion for transport

Source Name	Activity Type	Activity type context	Usage	Criteria	Amount	Units	Energy Content Factor	Converted Amount (GJ)
Transport	Gasoline (other than for use as fuel in an aircraft)	Transport	Combusted	A	0.186	kL	34.2	6
Transport	Gasoline (other than for use as fuel in an aircraft)	Transport - Post 2004 vehicles	Combusted	A	1.14	kL	34.2	39
							TOTAL:	45

Energy consumed by means other than combustion

Source Name	Activity Type	Activity type context	Usage	Criteria	Amount	Units	Energy Content Factor	Converted Amount (GJ)
Energy commodities	Electricity	Energy commodity			345,770	kWh	0.004	1,245
							TOTAL:	1,245

Summary Table

Categories	Converted Amount	Units
Amount of energy consumed by means of combustion	45	GJ
Energy consumed by means other than combustion	1,245	GJ
TOTAL:	1,290	GJ

Australian Government
Department of Climate Change and Energy Efficiency

Commonwealth Scientific and Industrial Research Organisation
ABN: 41 687 119 230
REGISTRATION APPLICATION No.: R090819-00534

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.

GHG EMISSIONS			ENERGY	
Scope 1 (tCO_2-e)	Scope 2 (tCO_2-e)	Total of Scope 1 and Scope 2 (tCO_2-e)	Energy Consumed (GJ)	Energy Produced (GJ)
254	7,887	8,140	35,699	0

GHG Scope 1 Emission By Gas (tCO_2-e)						
CO_2 Carbon Dioxide	CH_4 Methane	N_2O Nitrous Oxide	Perfluorocarbons	HFCs Hydro Fluoro Carbons	Sulphur Hexa Fluoride	TOTAL
251	0	2	0	0	0	254

Facility Aggregate Details

Operational Control: Commonwealth Scientific and Industrial Research Organisation has operational control over this facility.

Region: QLD

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

Australian Government
Department of Climate Change and Energy Efficiency

Commonwealth Scientific and Industrial Research Organisation
ABN: 41 687 119 230
REGISTRATION APPLICATION No.: R090819-00534

Facility Name	Address	GEO Coordinates
CSIRO-QLD-Atherton	Maunds Road ATHERTON, QLD 4883	17.258°S, 145.484°E
CSIRO-QLD-Cannon Hill	Corner Creek & Wynnum Roads CANNON HILL, QLD 4170	27.468°S, 153.095°E
CSIRO-QLD-Cleveland	233 Middle Street CLEVELAND, QLD 4163	27.527°S, 153.270°E
CSIRO-QLD-Indooroopilly	120 Meiers Road INDOOROOPILLY, QLD 4068	27.511°S, 152.996°E
CSIRO-QLD-Pullenvale	1 Technology Court (off Bainbridge Drive) PULLENVALE, QLD 4069	27.528°S, 152.911°E
CSIRO-QLD-Rockhampton-Belmont	Bruce Highway QLD	23.216°S, 150.431°E
CSIRO-QLD-Townsville	University Drive TOWNSVILLE, QLD 4810	19.328°S, 146.758°E
CSIRO-QLD-Rockhampton - Rendel	Bruce Highway (Ibis Avenue) KAWANA, QLD 4701	23.322°S, 150.516°E
CSIRO-QLD-Woodstock	4073 Flinders Highway WOODSTOCK, QLD 4816	19.288°S, 146.796°E
CSIRO-QLD-Weipa	Evans Landing WEIPA, QLD 4874	12.662°S, 141.849°E

Facility Aggregate Data

Australian Government
Department of Climate Change and Energy Efficiency

Commonwealth Scientific and Industrial Research Organisation
ABN: 41 687 119 230
REGISTRATION APPLICATION No.: R090819-00534

GREENHOUSE GAS EMISSIONS

Scope 1

Source Name	Activity Data Name	Activity Data Context Name	Criteria	Amount	Units	Energy Content Factor	Energy Content	Emission Factors	Gases	Method	Scope 1 CO_2-e Carbon Dioxide Equivalent
Other Stationary	Liquefied petroleum gas	Non-transport	A	3	kL	25.7	87	59.600	CO_2	Method 1	5
								0.100	CH_4	Method 1	0
								0.200	N_2O	Method 1	0
Other Stationary	Town gas	Non-transport	A	315	GJ	1	315	59.900	CO_2	Method 1	19
								0.030	CH_4	Method 1	0
								0.030	N_2O	Method 1	0
Transport	Diesel Oil	Transport - Post 2004 vehicles	A	18	kL	38.6	701	69.200	CO_2	Method 1	49
								0.010	CH_4	Method 1	0
								0.600	N_2O	Method 1	0
Transport	Diesel Oil	Transport	A	3	kL	38.6	114	69.200	CO_2	Method 1	8
								0.200	CH_4	Method 1	0
								0.500	N_2O	Method 1	0
Transport	Ethanol for use as a fuel in an internal combustion engine	Transport - Post 2004 vehicles	A	1	kL	23.4	15	0.000	CO_2	Method 1	0
								0.200	CH_4	Method 1	0
								0.200	N_2O	Method 1	0
Transport	Ethanol for use as a fuel in an internal combustion engine	Transport	A	0	kL	23.4	2	0.000	CO_2	Method 1	0
								1.200	CH_4	Method 1	0
								2.200	N_2O	Method 1	0
Transport	Gasoline (other than for use as fuel in an aircraft)	Transport - Post 2004 vehicles	A	64	kL	34.2	2,203	66.700	CO_2	Method 1	147
								0.020	CH_4	Method 1	0
								0.200	N_2O	Method 1	0

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Transport	Gasoline (other than for use as fuel in an aircraft)	Transport	A	10	kL	34.2	359	66.700	CO_2	Method 1	24
								0.600	CH_4	Method 1	0
								2.300	N_2O	Method 1	1
										TOTAL:	254

Please note that the scope 1 emissions total does not include emissions from activity types with a zero energy content factor

Greenhouse Gas Emissions

Scope 2

Source Name	Activity Data Name	Activity Data Context Name	Criteria	Amounts	Units	Scope2 t CO_2-e Carbon Dioxide Equivalent
Energy commodities	Electricity	Energy commodity		8,861,616	kWh	7,887
					TOTAL:	7,887

Australian Government
Department of Climate Change and Energy Efficiency

Commonwealth Scientific and Industrial Research Organisation
ABN: 41 687 119 230
REGISTRATION APPLICATION No.: R090819-00534

ENERGY CONSUMPTION

Energy consumed by means of combustion for transport

Source Name	Activity Type	Activity type context	Usage	Criteria	Amount	Units	Energy Content Factor	Converted Amount (GJ)
Transport	Gasoline (other than for use as fuel in an aircraft)	Transport	Combusted	A	10.488	kL	34.2	359
Transport	Diesel Oil	Transport	Combusted	A	2.958	kL	38.6	114
Transport	Ethanol for use as a fuel in an internal combustion engine	Transport	Combusted	A	0.105	kL	23.4	2
Transport	Gasoline (other than for use as fuel in an aircraft)	Transport - Post 2004 vehicles	Combusted	A	64.427	kL	34.2	2,203
Transport	Diesel Oil	Transport - Post 2004 vehicles	Combusted	A	18.171	kL	38.6	701
Transport	Ethanol for use as a fuel in an internal combustion engine	Transport - Post 2004 vehicles	Combusted	A	0.644	kL	23.4	15
							TOTAL:	3,395

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	Units	Energy Content Factor	Converted Amount (GJ)
Other Stationary	Town gas	Non-transport	Combusted	A	315	GJ	1	315
Other Stationary	Liquefied petroleum gas	Non-transport	Combusted	A	3.402	kL	25.7	87
							TOTAL:	402

Energy consumed by means other than combustion

Source Name	Activity Type	Activity type context	Usage	Criteria	Amount	Units	Energy Content Factor	Converted Amount (GJ)
Energy commodities	Electricity	Energy commodity			8,861,616	kWh	0.004	31,902
							TOTAL:	31,902

Australian Government
Department of Climate Change and Energy Efficiency

Commonwealth Scientific and Industrial Research Organisation

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Summary Table

Categories	Converted Amount	Units
Amount of energy consumed by means of combustion	3,798	GJ
Energy consumed by means other than combustion	31,902	GJ
TOTAL:	35,699	GJ

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.

GHG EMISSIONS			ENERGY	
Scope 1 ($t CO_2$-e)	Scope 2 ($t CO_2$-e)	Total of Scope 1 and Scope 2 ($t CO_2$-e)	Energy Consumed (GJ)	Energy Produced (GJ)
459	4,206	4,665	27,174	0

GHG Scope 1 Emission By Gas ($t CO_2$-e)						
CO_2 Carbon Dioxide	CH_4 Methane	N_2O Nitrous Oxide	Perfluorocarbons	HFCs Hydro Fluoro Carbons	Sulphur Hexa Fluoride	TOTAL
458	0	1	0	0	0	459

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	Address	GEO Coordinates
CSIRO-SA-Adelaide	Gate 13 Kintore Avenue ADELAIDE, SA 5001	34.918°S, 138.601°E
CSIRO-SA-Waite Campus	Waite Road URRBRAE, SA 5064	34.967°S, 138.635°E

Facility Aggregate Data

Australian Government
Department of Climate Change and Energy Efficiency

Commonwealth Scientific and Industrial Research Organisation
ABN: 41 687 119 230
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GREENHOUSE GAS EMISSIONS

Scope 1

Source Name	Activity Data Name	Activity Data Context Name	Criteria	Amount	Units	Energy Content Factor	Energy Content	Emission Factors	Gases	Method	Scope1 CO_2-e Carbon Dioxide Equivalent
Other stationary	Town gas	Non-transport	A	6,299	GJ	1	6,299	59.900	CO_2	Method 1	.377
								0.030	CH_4	Method 1	0
								0.030	N_2O	Method 1	0
Transport	Diesel Oil	Transport - Post 2004 vehicles	A	4	kL	38.6	169	69.200	CO_2	Method 1	12
								0.010	CH_4	Method 1	0
								0.600	N_2O	Method 1	0
Transport	Diesel Oil	Transport	A	1	kL	38.6	27	69.200	CO_2	Method 1	2
								0.200	CH_4	Method 1	0
								0.500	N_2O	Method 1	0
Transport	Gasoline (other than for use as fuel in an aircraft)	Transport - Post 2004 vehicles	A	23	kL	34.2	780	66.700	CO_2	Method 1	52
								0.020	CH_4	Method 1	0
								0.200	N_2O	Method 1	0
Transport	Gasoline (other than for use as fuel in an aircraft)	Transport	A	4	kL	34.2	127	66.700	CO_2	Method 1	8
								0.600	CH_4	Method 1	0
								2.300	N_2O	Method 1	0
Transport	Liquefied petroleum gas	Transport - Post 2004 vehicles	A	4	kL	26.2	94	59.600	CO_2	Method 1	6
								0.300	CH_4	Method 1	0
								0.300	N_2O	Method 1	0
Transport	Liquefied petroleum gas	Transport	A	1	kL	26.2	15	59.600	CO_2	Method 1	1
								0.600	CH_4	Method 1	0
								0.600	N_2O	Method 1	0
										TOTAL:	459

Please note that the scope 1 emissions total does not include emissions from activity types with a zero energy content factor

Australian Government
Department of Climate Change and Energy Efficiency

Commonwealth Scientific and Industrial Research Organisation
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Greenhouse Gas Emissions

Scope 2

Source Name	Activity Data Name	Activity Data Context Name	Criteria	Amounts	Units	Scope2 t CO_2-e Carbon Dioxide Equivalent
Energy commodities	Electricity	Energy commodity		5,461,705	kWh	4,206
					TOTAL:	4,206

Australian Government
Department of Climate Change and Energy Efficiency

Commonwealth Scientific and Industrial Research Organisation
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ENERGY CONSUMPTION

Energy consumed by means of combustion for transport

Source Name	Activity Type	Activity type context	Usage	Criteria	Amount	Units	Energy Content Factor	Converted Amount (GJ)
Transport	Gasoline (other than for use as fuel in an aircraft)	Transport	Combusted	A	3.712	kL	34.2	127
Transport	Diesel Oil	Transport	Combusted	A	0.712	kL	38.6	27
Transport	Liquefied petroleum gas	Transport	Combusted	A	0.586	kL	26.2	15
Transport	Gasoline (other than for use as fuel in an aircraft)	Transport - Post 2004 vehicles	Combusted	A	22.804	kL	34.2	780
Transport	Diesel Oil	Transport - Post 2004 vehicles	Combusted	A	4.372	kL	38.6	169
Transport	Liquefied petroleum gas	Transport - Post 2004 vehicles	Combusted	A	3.602	kL	26.2	94
							TOTAL:	1,213

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	Units	Energy Content Factor	Converted Amount (GJ)
Other Stationary	Town gas	Non-transport	Combusted	A	6,299	GJ	1	6,299
							TOTAL:	6,299

Energy consumed by means other than combustion

Source Name	Activity Type	Activity type context	Usage	Criteria	Amount	Units	Energy Content Factor	Converted Amount (GJ)
Energy commodities	Electricity	Energy commodity			5,461,705	kWh	0.004	19,662
							TOTAL:	19,662

Summary Table

Categories	Converted Amount	Units
Amount of energy consumed by means of combustion	7,512	GJ
Energy consumed by means other than combustion	19,662	GJ
TOTAL:	27,174	GJ

Australian Government
Department of Climate Change and Energy Efficiency

Commonwealth Scientific and Industrial Research Organisation
ABN: 41 687 119 230
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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.

GHG EMISSIONS			ENERGY	
Scope 1 (tCO_2-e)	Scope 2 (tCO_2-e)	Total of Scope 1 and Scope 2 (tCO_2-e)	Energy Consumed (GJ)	Energy Produced (GJ)
83	885	968	15,073	0

GHG Scope 1 Emission By Gas (tCO_2-e)						
CO_2 Carbon Dioxide	CH_4 Methane	N_2O Nitrous Oxide	Perfluorocarbons	HFCs Hydro Fluoro Carbons	Sulphur Hexa Fluoride	TOTAL
82	0	1	0	0	0	83

Facility Aggregate Details

Operational Control: Commonwealth Scientific and Industrial Research Organisation has operational control over this facility.

Region: TAS

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	Address	GEO Coordinates
CSIRO-TAS-Hobart	Castray Esplanade BATTERY POINT, TAS 7004	42.886°S, 147.338°E
CSIRO-TAS-Hobart-Church Street	Church St HOBART, TAS 7001	42.876°S, 147.319°E
CSIRO-TAS-Sandy Bay	College Road University of Tasmania SANDY BAY, TAS 7005	42.905°S, 147.319°E
CSIRO-TAS-Hobart - Melville Street	2 Melville Street HOBART, TAS 7000	42.880°S, 147.325°E
CSIRO-TAS-Droughty Point	Droughty Point TRANMERE, TAS 7018	42.922°S, 147.428°E

Australian Government

Department of Climate Change and Energy Efficiency

Commonwealth Scientific and Industrial Research Organisation

ABN: 41 687 119 230

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Facility Aggregate Data

Australian Government
Department of Climate Change and Energy Efficiency

Commonwealth Scientific and Industrial Research Organisation
ABN: 41 687 119 230
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GREENHOUSE GAS EMISSIONS

Scope 1

Source Name	Activity Data Name	Activity Data Context Name	Criteria	Amount	Units	Energy Content Factor	Energy Content	Emission Factors	Gases	Method	Scope1 t CO_2-e Carbon Dioxide Equivalent
Transport	Diesel Oil	Transport - Post 2004 vehicles	A	6	kL	38.6	250	69.200	CO_2	Method 1	17
								0.010	CH_4	Method 1	0
								0.600	N_2O	Method 1	0
Transport	Diesel Oil	Transport	A	1	kL	38.6	41	69.200	CO_2	Method 1	3
								0.200	CH_4	Method 1	0
								0.500	N_2O	Method 1	0
Transport	Ethanol for use as a fuel in an internal combustion engine	Transport - Post 2004 vehicles	A	0	kL	23.4	1	0.000	CO_2	Method 1	0
								0.200	CH_4	Method 1	0
								0.200	N_2O	Method 1	0
Transport	Ethanol for use as a fuel in an internal combustion engine	Transport	A	0	kL	23.4	0	0.000	CO_2	Method 1	0
								1.200	CH_4	Method 1	0
								2.200	N_2O	Method 1	0
Transport	Gasoline (other than for use as fuel in an aircraft)	Transport - Post 2004 vehicles	A	23	kL	34.2	796	66.700	CO_2	Method 1	53
								0.020	CH_4	Method 1	0
								0.200	N_2O	Method 1	0
Transport	Gasoline (other than for use as fuel in an aircraft)	Transport	A	4	kL	34.2	130	66.700	CO_2	Method 1	9
								0.600	CH_4	Method 1	0
								2.300	N_2O	Method 1	0
										TOTAL:	83

Please note that the scope 1 emissions total does not include emissions from activity types with a zero energy content factor

Greenhouse Gas Emissions

Australian Government
Department of Climate Change and Energy Efficiency

Commonwealth Scientific and Industrial Research Organisation
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Scope 2

Source Name	Activity Data Name	Activity Data Context Name	Criteria	Amounts	Units	Scope2 t CO_2-e Carbon Dioxide Equivalent.
Energy commodities	Electricity	Energy commodity		3,848,990	kWh	885
					TOTAL:	885

Australian Government
Department of Climate Change and Energy Efficiency

Commonwealth Scientific and Industrial Research Organisation
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ENERGY CONSUMPTION

Energy consumed by means of combustion for transport

Source Name	Activity Type	Activity type context	Usage	Criteria	Amount	Units	Energy Content Factor	Converted Amount (GJ)
Transport	Gasoline (other than for use as fuel in an aircraft)	Transport	Combusted	A	3.787	kL	34.2	130
Transport	Diesel Oil	Transport	Combusted	A	1.052	kL	38.6	41
Transport	Ethanol for use as a fuel in an internal combustion engine	Transport	Combusted	A	0.009	kL	23.4	0
Transport	Gasoline (other than for use as fuel in an aircraft)	Transport - Post 2004 vehicles	Combusted	A	23.263	kL	34.2	796
Transport	Diesel Oil	Transport - Post 2004 vehicles	Combusted	A	6.465	kL	38.6	250
Transport	Ethanol for use as a fuel in an internal combustion engine	Transport - Post 2004 vehicles	Combusted	A	0.055	kL	23.4	1
							TOTAL:	1,217

Energy consumed by means other than combustion

Source Name	Activity Type	Activity type context	Usage	Criteria	Amount	Units	Energy Content Factor	Converted Amount (GJ)
Energy commodities	Electricity	Energy commodity			3,848,990	kWh	0.004	13,856
							TOTAL:	13,856

Summary Table

Categories	Converted Amount	Units
Amount of energy consumed by means of combustion	1,217	GJ
Energy consumed by means other than combustion	13,856	GJ
TOTAL:	15,073	GJ

Australian Government
Department of Climate Change and Energy Efficiency

Commonwealth Scientific and Industrial Research Organisation
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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.

GHG EMISSIONS			ENERGY	
Scope 1 (tCO_2-e)	Scope 2 (tCO_2-e)	Total of Scope 1 and Scope 2 (tCO_2-e)	Energy Consumed (GJ)	Energy Produced (GJ)
4,516	32,424	36,939	170,404	0

GHG Scope 1 Emission By Gas (tCO_2-e)						
CO_2 Carbon Dioxide	CH_4 Methane	N_2O Nitrous Oxide	Perfluorocarbons	HFCs Hydro Fluoro Carbons	Sulphur Hexa Fluoride	TOTAL
4,509	3	4	0	0	0	4,516

Facility Aggregate Details

Operational Control: Commonwealth Scientific and Industrial Research Organisation has operational control over this facility.

Region: VIC

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

Australian Government
Department of Climate Change and Energy Efficiency

Commonwealth Scientific and Industrial Research Organisation

ABN: 41 687 119 230

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Facility Name	Address	GEO Coordinates
CSIRO-VIC-Aspendale	107 - 121 Station Street ASPENDALE, VIC 3195	38.024°S, 145.101°E
CSIRO-VIC-Clayton	Bayview Avenue CLAYTON, VIC 3168	37.906°S, 145.131°E
CSIRO-VIC-Collingwood	150 Oxford Street COLLINGWOOD, VIC 3066	37.803°S, 144.985°E
CSIRO-VIC-Geelong Belmont	Technology Geelong Lab Corner Colac Road & Henry Street BELMONT, VIC 3216	38.184°S, 144.330°E
CSIRO-VIC-Highett	Graham Road HIGHETT, VIC 3190	37.951°S, 145.041°E
CSIRO-VIC-Melbourne	Level 11, 700 Collins Street DOCKLANDS, VIC 3008	37.819°S, 144.950°E
CSIRO-VIC-Merbein	585 River Avenue MERBEIN SOUTH, VIC 3505	34.212°S, 142.044°E
CSIRO-VIC-Mildura	Brian Grogan Building, La Trobe University Benetook Ave MILDURA, VIC 3502	34.203°S, 142.166°E
CSIRO-VIC-Parkville	343 Royal Parade PARKVILLE, VIC 3052	37.797°S, 144.961°E
CSIRO-VIC-Werribee-Sneydes Road	671 Sneydes Road WERRIBEE, VIC 3030	37.897°S, 144.680°E
CSIRO-VIC-Werribee-South Road	South Road WERRIBEE, VIC 3030	37.900°S, 144.684°E
CSIRO-VIC-Wodonga	La Trobe University, Building 8 University Drive WODONGA, VIC 3690	36.111°S, 146.849°E
CSIRO-VIC-Irymple	447 Dow Avenue IRYMPLE, VIC 3498	34.258°S, 142.133°E
CSIRO-VIC-Notting Hill	5 - 7 Commercial Drive NOTTING HILL, VIC 3168	37.904°S, 145.129°E

Facility Aggregate Data

Australian Government

Department of Climate Change and Energy Efficiency

Commonwealth Scientific and Industrial Research Organisation

ABN: 41 687 119 230

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GREENHOUSE GAS EMISSIONS

Scope 1

Australian Government
Department of Climate Change and Energy Efficiency

Commonwealth Scientific and Industrial Research Organisation
ABN: 41 687 119 230

REGISTRATION APPLICATION No.: R090819-00534

Source Name	Activity Data Name	Activity Data Context Name	Criteria	Amount	Units	Energy Content Factor	Energy Content	Emission Factors	Gases	Method	Scope 1 t CO_2-e Carbon Dioxide Equivalent
Other Stationary	Town gas	Non-transport	A	69,983	GJ	1	69,983	59.900	CO_2	Method 1	4,192
								0.030	CH_4	Method 1	2
								0.030	N_2O	Method 1	2
Transport	Diesel Oil	Transport - Post 2004 vehicles	A	5	kL	38.6	204	69.200	CO_2	Method 1	14
								0.010	CH_4	Method 1	0
								0.600	N_2O	Method 1	0
Transport	Diesel Oil	Transport	A	1	kL	38.6	33	69.200	CO_2	Method 1	2
								0.200	CH_4	Method 1	0
								0.500	N_2O	Method 1	0
Transport	Ethanol for use as a fuel in an internal combustion engine	Transport - Post 2004 vehicles	A	0	kL	23.4	3	0.000	CO_2	Method 1	0
								0.200	CH_4	Method 1	0
								0.200	N_2O	Method 1	0
Transport	Ethanol for use as a fuel in an internal combustion engine	Transport	A	0	kL	23.4	0	0.000	CO_2	Method 1	0
								1.200	CH_4	Method 1	0
								2.200	N_2O	Method 1	0
Transport	Gasoline (other than for use as fuel in an aircraft)	Transport - Post 2004 vehicles	A	113	kL	34.2	3,874	66.700	CO_2	Method 1	258
								0.020	CH_4	Method 1	0
								0.200	N_2O	Method 1	1
Transport	Gasoline (other than for use as fuel in an aircraft)	Transport	A	18	kL	34.2	631	66.700	CO_2	Method 1	42
								0.600	CH_4	Method 1	0
								2.300	N_2O	Method 1	1
										TOTAL:	4,516

Please note that the scope 1 emissions total does not include emissions from activity types with a zero energy content factor

Australian Government
Department of Climate Change and Energy Efficiency

Commonwealth Scientific and Industrial Research Organisation
ABN: 41 687 119 230
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Greenhouse Gas Emissions

Scope 2

Source Name	Activity Data Name	Activity Data Context Name	Criteria	Amounts	Units	Scope2 t CO_2-e Carbon Dioxide Equivalent
Energy commodities	Electricity	Energy commodity		26,576,736	kWh	32,424
					TOTAL:	32,424

Australian Government
Department of Climate Change and Energy Efficiency

Commonwealth Scientific and Industrial Research Organisation
ABN: 41 687 119 230
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ENERGY CONSUMPTION

Energy consumed by means of combustion for transport

Source Name	Activity Type	Activity type context	Usage	Criteria	Amount	Units	Energy Content Factor	Converted Amount (GJ)
Transport	Gasoline (other than for use as fuel in an aircraft)	Transport	Combusted	A	18.439	kL	34.2	631
Transport	Diesel Oil	Transport	Combusted	A	0.859	kL	38.6	33
Transport	Ethanol for use as a fuel in an internal combustion engine	Transport	Combusted	A	0.02	kL	23.4	0
Transport	Gasoline (other than for use as fuel in an aircraft)	Transport - Post 2004 vehicles	Combusted	A	113.27	kL	34.2	3,874
Transport	Diesel Oil	Transport - Post 2004 vehicles	Combusted	A	5.274	kL	38.6	204
Transport	Ethanol for use as a fuel in an internal combustion engine	Transport - Post 2004 vehicles	Combusted	A	0.124	kL	23.4	3
							TOTAL:	4,745

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	Units	Energy Content Factor	Converted Amount (GJ)
Other Stationary	Town gas	Non-transport	Combusted	A	69,983	GJ	1	69,983
							TOTAL:	69,983

Energy consumed by means other than combustion

Source Name	Activity Type	Activity type context	Usage	Criteria	Amount	Units	Energy Content Factor	Converted Amount (GJ)
Energy commodities	Electricity	Energy commodity			26,576,736	kWh	0.004	95,676
							TOTAL:	95,676

Australian Government

Department of Climate Change and Energy Efficiency

Commonwealth Scientific and Industrial Research Organisation

ABN: 41 687 119 230

REGISTRATION APPLICATION No.: R090819-00534

Summary Table

Categories	Converted Amount	Units
Amount of energy consumed by means of combustion	74,728	GJ
Energy consumed by means other than combustion	95,676	GJ
TOTAL:	170,404	GJ

Australian Government
Department of Climate Change and Energy Efficiency

Commonwealth Scientific and Industrial Research Organisation
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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.

GHG EMISSIONS			ENERGY	
Scope 1 (tCO_2-e)	Scope 2 (tCO_2-e)	Total of Scope 1 and Scope 2 (tCO_2-e)	Energy Consumed (GJ)	Energy Produced (GJ)
341	7,965	8,305	39,456	0

GHG Scope 1 Emission By Gas (tCO_2-e)						
CO_2 Carbon Dioxide	CH_4 Methane	N_2O Nitrous Oxide	Perfluorocarbons	HFCs Hydro Fluoro Carbons	Sulphur Hexa Fluoride	TOTAL
339	0	1	0	0	0	341

Facility Aggregate Details

Operational Control: Commonwealth Scientific and Industrial Research Organisation has operational control over this facility.

Region: WA

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	Address	GEO Coordinates
CSIRO-WA-Floreat	Underwood Avenue FLOREAT, WA 6014	31.949°S, 115.789°E
CSIRO-WA-Kensington	26 Dick Perry Avenue KENSINGTON, WA 6151	31.994°S, 115.884°E
CSIRO-WA-Waterford	7 Conlon Street WATERFORD, WA 6152	32.011°S, 115.894°E
CSIRO-WA-Bakers Hill	Berry Brow Rd BAKERS HILL, WA 6562	31.759°S, 116.462°E

Facility Aggregate Data

Australian Government
Department of Climate Change and Energy Efficiency

Commonwealth Scientific and Industrial Research Organisation
ABN: 41 687 119 230
REGISTRATION APPLICATION No.: R090819-00534

GREENHOUSE GAS EMISSIONS

Scope 1

Source Name	Activity Data Name	Activity Data Context Name	Criteria	Amount	Units	Energy Content Factor	Energy Content	Emission Factors	Gases	Method	Scope1 kt CO_2-e Carbon Dioxide Equivalent
Other Stationary	Town gas	Non-transport	A	2,669	GJ	1	2,669	59.900	CO_2	Method 1	160
								0.030	CH_4	Method 1	0
								0.030	N_2O	Method 1	0
Transport	Diesel Oil	Transport - Post 2004 vehicles	A	18	kL	38.6	701	69.200	CO_2	Method 1	49
								0.010	CH_4	Method 1	0
								0.600	N_2O	Method 1	0
Transport	Diesel Oil	Transport	A	3	kL	38.6	100	69.200	CO_2	Method 1	7
								0.200	CH_4	Method 1	0
								0.500	N_2O	Method 1	0
Transport	Gasoline (other than for use as fuel in an aircraft)	Transport - Post 2004 vehicles	A	47	kL	34.2	1,592	66.700	CO_2	Method 1	106
								0.020	CH_4	Method 1	0
								0.200	N_2O	Method 1	0
Transport	Gasoline (other than for use as fuel in an aircraft)	Transport	A	8	kL	34.2	259	66.700	CO_2	Method 1	17
								0.600	CH_4	Method 1	0
								2.300	N_2O	Method 1	1
										TOTAL:	341

Please note that the scope 1 emissions total does not include emissions from activity types with a zero energy content factor

Greenhouse Gas Emissions

Australian Government
Department of Climate Change and Energy Efficiency

Commonwealth Scientific and Industrial Research Organisation
ABN: 41 687 119 230
REGISTRATION APPLICATION No.: R090819-00534

Scope 2

Source Name	Activity Data Name	Activity Data Context Name	Criteria	Amounts	Units	Scope2 t CO_2-e Carbon Dioxide Equivalent.
Energy commodities	Electricity	Energy commodity		9,482,101	kWh	7,965
					TOTAL:	7,965

Australian Government
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ENERGY CONSUMPTION

Energy consumed by means of combustion for transport

Source Name	Activity Type	Activity type context	Usage	Criteria	Amount	Units	Energy Content Factor	Converted Amount (GJ)
Transport	Gasoline (other than for use as fuel in an aircraft)	Transport	Combusted	A	7.576	kL	34.2	259
Transport	Diesel Oil	Transport	Combusted	A	2.596	kL	38.6	100
Transport	Gasoline (other than for use as fuel in an aircraft)	Transport - Post 2004 vehicles	Combusted	A	46.536	kL	34.2	1,592
Transport	Diesel Oil	Transport - Post 2004 vehicles	Combusted	A	18.16	kL	38.6	701
							TOTAL:	2,652

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	Units	Energy Content Factor	Converted Amount (GJ)
Other Stationary	Town gas	Non-transport	Combusted	A	2,669	GJ	1	2,669
							TOTAL:	2,669

Energy consumed by means other than combustion

Source Name	Activity Type	Activity type context	Usage	Criteria	Amount	Units	Energy Content Factor	Converted Amount (GJ)
Energy commodities	Electricity	Energy commodity			9,482,101	kWh	0.004	34,136
							TOTAL:	34,136

Summary Table

Categories	Converted Amount	Units
Amount of energy consumed by means of combustion	5,321	GJ
Energy consumed by means other than combustion	34,136	GJ
TOTAL:	39,456	GJ

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.

Australian Government

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NATIONAL GREENHOUSE AND ENERGY REPORT

Commonwealth Scientific and Industrial Research Organisation

FOR THE REPORTING PERIOD 01/07/2009 - 30/06/2010

PART C

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STATEMENT:

Commonwealth Scientific and Industrial Research Organisation wishes to include as part of its National Greenhouse and Energy Report the following 2 attachments:

No.	File Name	Description
1	CSIRO NGERS FY09-10 assumptions and estimations.pdf	
2	CSIRO - Incidental emmissions notification to GEDO for NGERS FY09-10.pdf	