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

Australian Government
Department of Climate Change

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 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

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

Australian Government
Department of Climate Change

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

Phone: 0262766621

Email: megan.clark@csiro.au

Contact Person details:

Name: Dr Antony Hudson

Position: Environmental Sustainability Manager

Address: PO Box 225
DICKSON, ACT 2602

Phone: 0262766173

Email: 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.

GHG EMISSIONS			ENERGY	
Scope 1 (tCO_2-e)	Scope 2 (tCO_2-e)	Total for Scope 1 and Scope 2 (tCO_2-e)	Energy Consumed (GJ)	Energy Produced (GJ)
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 estimates

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)).

Australian Government
Department of Climate Change

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, 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 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.

Commonwealth Scientific and Industrial Research Organisation

Australian Government
Department of Climate Change

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
  - this Report is required for the 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 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) Megan Clark

Signature of CEO or equivalent

Date 11 Dec 2009

Australian Government
Department of Climate Change

Commonwealth Scientific and Industrial Research Organisation

ABN: 41 687 119 230

R090819-00534

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.

Australian Government
Department of Climate Change

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:

PO Box 225
DICKSON, ACT 2602

Head Office Street Address:

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.

Australian Government
Department of Climate Change

Commonwealth Scientific and Industrial Research Organisation

ABN: 41 687 119 230

R090819-00534

	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	17,776	118,197	135,973	725,646	795
% Value Converted to Value	0	0	0	0	0
Corporation Total	17,776	118,197	135,973	725,646	795

GHG Scope 1 Emission By Gas (tCO_2-e)						
CO_2 Carbon dioxide	CH_4 Methane	N_2O Nitrous oxide	Perfluorocarbon CF_4 Tetrafluoromethane	Perfluorocarbon C_2F_6 Hexafluoroethane	SF_6 Sulphur hexafluoride	HFCs Hydrofluorocarbons
17,737	12	27	0	0	0	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 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

Australian Government
Department of Climate Change

Commonwealth Scientific and Industrial Research Organisation

ABN: 41 687 119 230

R090819-00534

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)).

CORPORATE STRUCTURE (TABLE OF CONTENTS)

Document Reference Number	Entity Name
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:

Name: Dr Megan Clark

Position: Chief Executive Officer

Address: PO Box 225
DICKSON, ACT 2602

Phone: 0262766621

Email: megan.clark@csiro.au

Contact Person details:

Name:

Position:

Address:

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.

Australian Government
Department of Climate Change

Commonwealth Scientific and Industrial Research Organisation

ABN: 41 687 119 230

R090819-00534

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)
4,013	16,790	20,803	115,674	0

GHG Scope 1 Emission By Gas (tCO_2-e)						
CO_2 Carbon dioxide	CH_4 Methane	N_2O Nitrous oxide	Perfluorocarbon CF_4 Tetrafluoromethane	Perfluorocarbon C_2F_6 Hexafluoroethane	SF_6 Sulphur hexafluoride	HFCs Hydrofluorocarbons
4,009	2	2	0	0	0	0

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: 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

GREENHOUSE GAS EMISSIONS

Australian Government
Department of Climate Change

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	Units	Energy Content Factor	Energy Content	Emission Factors	Gases	Method	Scope 1 CO_2-e Carbon Dioxide Equivalent
Other Stationary	Diesel Oil	Non-transport	A	33.256	kL	38.6	1283.6816	69.2	CO_2	Method 1	89
								0.1	CH_4	Method 1	0
								0.2	N_2O	Method 1	0
Other Stationary	Town gas	Non-transport	A	63,925	GJ	1	63925	59.9	CO_2	Method 1	3,829
								0.03	CH_4	Method 1	2
								0.03	N_2O	Method 1	2
Transport	Diesel Oil	Transport - Post 2004 vehicles	A	2.303	kL	38.6	88.8997	69.2	CO_2	Method 1	6
								0.01	CH_4	Method 1	0
								0.6	N_2O	Method 1	0
Transport	Gasoline (other than for use as fuel in an aircraft)	Transport - Post 2004 vehicles	A	24.364	kL	34.2	833.2385	66.7	CO_2	Method 1	56
								0.02	CH_4	Method 1	0
								0.2	N_2O	Method 1	0
										TOTAL:	3,984

Australian Government
Department of Climate Change

Commonwealth Scientific and Industrial Research Organisation

ABN: 41 687 119 230

R090819-00534

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	79.842	tonnes	CO_2	N/A	Method 1	29
							TOTAL:	29

Source Information

Name	Entered Amount	Unit
Total waste incinerated	80	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		13,762,076	kWh	16,790
					TOTAL:	16,790

ENERGY PRODUCTION

ENERGY CONSUMPTION

Australian Government
Department of Climate Change

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	Amount	Units	Energy Content Factor	Converted Amount
Transport	Gasoline (other than for use as fuel in an aircraft)	Transport - Post 2004 vehicles	Combusted	A	24.364	kL	34.2	833
Transport	Diesel Oil	Transport - Post 2004 vehicles	Combusted	A	2.303	kL	38.6	89
							TOTAL:	922

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
Other Stationary	Town gas	Non-transport	Combusted	A	63,925	GJ	1	63,925
Other Stationary	Diesel Oil	Non-transport	Combusted	A	33.256	kL	38.6	1,284
							TOTAL:	65,209

Energy consumed by means other than combustion

Source Name	Activity Type	Activity type context	Usage	Criteria	Amount	Units	Energy Content Factor	Converted Amount
Energy commodities	Electricity	Energy commodity	Combusted		13,762,076	kWh	0.004	49,543
							TOTAL:	49,543

Summary Table

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.

Australian Government
Department of Climate Change

Commonwealth Scientific and Industrial Research Organisation

ABN: 41 687 119 230

R090819-00534

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)
4,048	21,140	25,188	151,626	0

GHG Scope 1 Emission By Gas ($t CO_2$-e)						
CO_2 Carbon dioxide	CH_4 Methane	N_2O Nitrous oxide	Perfluorocarbon CF_4 Tetrafluoro methane	Perfluorocarbons C_2F_6 Hexafluoro ethane	SF_6 Sulphur hexafluoride	HFCs Hydro fluorocarbons
4,041	2	5	0	0	0	0

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

Facility Name	Type	Location
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

Australian Government
Department of Climate Change

Commonwealth Scientific and Industrial Research Organisation

ABN: 41 687 119 230

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	54,776.09	GJ	1	54776.09	59.9	CO_2	Method 1	3,281
								0.03	CH_4	Method 1	2
								0.03	N_2O	Method 1	2
Transport	Diesel Oil	Transport - Post 2004 vehicles	A	61.095	kL	38.6	2358.267	69.2	CO_2	Method 1	163
								0.01	CH_4	Method 1	0
								0.6	N_2O	Method 1	1
Transport	Gasoline (other than for use as fuel in an aircraft)	Transport - Post 2004 vehicles	A	254.627	kL	34.2	8708.2434	66.7	CO_2	Method 1	581
								0.02	CH_4	Method 1	0
								0.2	N_2O	Method 1	2
Transport	Liquefied petroleum gas	Transport - Post 2004 vehicles	A	10.422	kL	26.2	273.0433	59.6	CO_2	Method 1	16
								0.3	CH_4	Method 1	0
								0.3	N_2O	Method 1	0
										TOTAL:	4,048

Greenhouse Gas Emissions

Australian Government
Department of Climate Change

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 CO_2-e Carbon Dioxide Equivalent
Energy commodities	Electricity	Energy commodity		23,752,875.41	kWh	21,140
					TOTAL:	21,140

ENERGY PRODUCTION

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
Transport	Gasoline (other than for use as fuel in an aircraft)	Transport - Post 2004 vehicles	Combusted	A	254.627	kL	34.2	8,708
Transport	Diesel Oil	Transport - Post 2004 vehicles	Combusted	A	61.095	kL	38.6	2,358
Transport	Liquefied petroleum gas	Transport - Post 2004 vehicles	Combusted	A	10.422	kL	26.2	273
							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

Source Name	Activity Type	Activity type context	Usage	Criteria	Amount	Units	Energy Content Factor	Converted Amount
Other Stationary	Town gas	Non-transport	Combusted	A	54,776.09	GJ	1	54,776
							TOTAL:	54,776

Energy consumed by means other than combustion

Source Name	Activity Type	Activity type context	Usage	Criteria	Amount	Units	Energy Content Factor	Converted Amount
Energy commodities	Electricity	Energy commodity	Combusted		23,752,875.41	kWh	0.004	85,510
							TOTAL:	85,510

Australian Government
Department of Climate Change

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			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)
2,599	23,146	25,746	136,138	795

GHG Scope 1 Emission By Gas ($t CO_2$-e)						
CO_2 Carbon dioxide	CH_4 Methane	N_2O Nitrous oxide	Perfluorocarbon CF_4 Tetrafluoromethane	Perfluorocarbon C_2F_6 Hexafluoroethane	SF_6 Sulphur hexafluoride	HFCs Hydrofluorocarbons
2,596	1	2	0	0	0	0

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

Australian Government
Department of Climate Change

Commonwealth Scientific and Industrial Research Organisation

ABN: 41 687 119 230

R090819-00534

Facility Name	Type	Location
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

Australian Government
Department of Climate Change

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	Units	Energy Content Factor	Energy Content GJ	Emission Factors	Gases	Method	Scope 1 t CO_2-e Carbon Dioxide Equivalent
Other Stationary	Liquefied aromatic hydrocarbons	Non-transport	A	51	kL	34.4	1754.4	69	CO_2	Method 1	121
								0.02	CH_4	Method 1	0
								0.2	N_2O	Method 1	0
Other Stationary	Liquefied petroleum gas	Non-transport	A	0.495	kL	25.7	12.7215	59.6	CO_2	Method 1	1
								0.1	CH_4	Method 1	0
								0.2	N_2O	Method 1	0
Other Stationary	Town gas	Non-transport	A	35,836	GJ	1	35836	59.9	CO_2	Method 1	2,147
								0.03	CH_4	Method 1	1
								0.03	N_2O	Method 1	1
Transport	Diesel Oil	Transport - Post 2004 vehicles	A	3.873	kL	38.6	149.4824	69.2	CO_2	Method 1	10
								0.01	CH_4	Method 1	0
								0.6	N_2O	Method 1	0
Transport	Gasoline (other than for use as fuel in an aircraft)	Transport - Post 2004 vehicles	A	137.094	kL	34.2	4688.6045	66.7	CO_2	Method 1	313
								0.02	CH_4	Method 1	0
								0.2	N_2O	Method 1	1
Transport	Liquefied petroleum gas	Transport - Post 2004 vehicles	A	2.702	kL	26.2	70.7845	59.6	CO_2	Method 1	4
								0.3	CH_4	Method 1	0
								0.3	N_2O	Method 1	0
										TOTAL:	2,599

Australian Government
Department of Climate Change

Commonwealth Scientific and Industrial Research Organisation

ABN: 41 687 119 230

R090819-00534

Greenhouse Gas Emissions

Industrial Refrigeration

Activity type	Activity context	Criteria	Amount	Unit	Gas	Method	Total t CO_2-e Carbon Dioxide Equivalent
Industrial refrigeration - HFC stock	Synthetic Gases	A	0.044	tonnes	HFCs	Method 1	0
						TOTAL:	0

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		26,007,199.1	kWh	23,146
					TOTAL:	23,146

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)		98,886	kWh					356
Electricity (thermal generation)		115,224	kWh					415
Electricity (wind generation)		6,775	kWh					24
							TOTAL:	795

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
Transport	Gasoline (other than for use as fuel in an aircraft)	Transport - Post 2004 vehicles	Combusted	A	137.094	kL	34.2	4,689
Transport	Diesel Oil	Transport - Post 2004 vehicles	Combusted	A	3.873	kL	38.6	149
Transport	Liquefied petroleum gas	Transport - Post 2004 vehicles	Combusted	A	2.702	kL	26.2	71
							TOTAL:	4,909

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
Other Stationary	Town gas	Non-transport	Combusted	A	35,836	GJ	1	35,836
Other Stationary	Liquefied aromatic hydrocarbons	Non-transport	Combusted	A	51	kL	34.4	1,754
Other Stationary	Liquefied petroleum gas	Non-transport	Combusted	A	0.495	kL	25.7	13
							TOTAL:	37,603

Energy consumed by means other than combustion

Source Name	Activity Type	Activity type context	Usage	Criteria	Amount	Units	Energy Content Factor	Converted Amount
Energy commodities	Electricity	Energy commodity	Combusted		26,007,199.1	kWh	0.004	93,626
							TOTAL:	93,626

Summary Table

Categories	Converted Amount	Units
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.

Australian Government
Department of Climate Change

Commonwealth Scientific and Industrial Research Organisation

ABN: 41 687 119 230

R090819-00534

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)
6	252	258	1,403	0

GHG Scope 1 Emission By Gas (tCO_2-e)						
CO_2 Carbon dioxide	CH_4 Methane	N_2O Nitrous oxide	Perfluorocarbon CF_4 Tetrafluoromethane	Perfluorocarbon C_2F_6 Hexafluoroethane	SF_6 Sulphur hexafluoride	HFCs Hydrofluorocarbons
6	0	0	0	0	0	0

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	Type	Location
CSIRO-NT-Alice Springs	Facility	Heath Road ALICE SPRINGS NT, 0872
CSIRO-NT-Darwin	Facility	Vanderlin Drive Berrimah BERRIMAH NT, 0828

Facility Aggregate Data

GREENHOUSE GAS EMISSIONS

Australian Government
Department of Climate Change

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	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	2.605	kL	34.2	89.0978	66.7	CO_2	Method 1	6
								0.02	CH_4	Method 1	0
								0.2	N_2O	Method 1	0
										TOTAL:	6

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		364,907.4	kWh	252
					TOTAL:	252

ENERGY PRODUCTION

ENERGY CONSUMPTION

Australian Government
Department of Climate Change

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	Amount	Units	Energy Content Factor	Converted Amount
Transport	Gasoline (other than for use as fuel in an aircraft)	Transport - Post 2004 vehicles	Combusted	A	2.605	kL	34.2	89
							TOTAL:	89

Energy consumed by means other than combustion

Source Name	Activity Type	Activity type context	Usage	Criteria	Amount	Units	Energy Content Factor	Converted Amount
Energy commodities	Electricity	Energy commodity	Combusted		364,907.4	kWh	0.004	1,314
							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.

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)
1,926	15,286	17,213	88,575	0

GHG Scope 1 Emission By Gas ($t CO_2$-e)						
CO_2 Carbon dioxide	CH_4 Methane	N_2O Nitrous oxide	Perfluorocarbon CF_4 Tetrafluoromethane	Perfluorocarbon C_2F_6 Hexafluoroethane	SF_6 Sulphur hexafluoride	HFCs Hydrofluorocarbons
1,910	4	12	0	0	0	0

Australian Government
Department of Climate Change

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

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	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

Australian Government
Department of Climate Change

Commonwealth Scientific and Industrial Research Organisation

ABN: 41 687 119 230

R090819-00534

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)
1	0	1	10	0

GHG Scope 1 Emission By Gas (tCO_2-e)						
CO_2 Carbon dioxide	CH_4 Methane	N_2O Nitrous oxide	Perfluorocarbon CF_4 Tetrafluoro methane	Perfluorocarbon C_2F_6 Hexafluoro ethane	SF_6 Sulphur hexafluoride	HFCs Hydro fluorocarbons
1	0	0	0	0	0	0

GREENHOUSE GAS EMISSIONS

Australian Government
Department of Climate Change

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	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	355.121	GJ	1	355.121	59.9	CO_2	Method 1	21
								0.03	CH_4	Method 1	0
								0.03	N_2O	Method 1	0
Other Stationary	Town gas	Non-transport	A	65,210	m^3	0.039	2543.19	59.9	CO_2	Method 1	152
								0.03	CH_4	Method 1	0
								0.03	N_2O	Method 1	0
Transport	Diesel Oil	Transport - Post 2004 vehicles	A	14.908	kL	38.6	575.4334	69.2	CO_2	Method 1	40
								0.01	CH_4	Method 1	0
								0.6	N_2O	Method 1	10
Transport	Diesel Oil	Transport	A	557	kL	38.6	21500.2	69.2	CO_2	Method 1	1,488
								0.2	CH_4	Method 1	4
								0.5	N_2O	Method 1	11
Transport	Gasoline (other than for use as fuel in an aircraft)	Transport - Post 2004 vehicles	A	91.147	kL	34.2	3117.2103	66.7	CO_2	Method 1	208
								0.02	CH_4	Method 1	0
								0.2	N_2O	Method 1	1
										TOTAL:	1,925

Australian Government
Department of Climate Change

Commonwealth Scientific and Industrial Research Organisation

ABN: 41 687 119 230

R090819-00534

Incidental For 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
Petroleum refining	Brown coal	Non-transport	BBB	1	tonnes	10.2	10.2	92.7	CO_2	Method 1	1
								0.01	CH_4	Method 1	0
								0.4	N_2O	Method 1	0
										TOTAL:	1

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		16,798,350.93	kWh	15,286
					TOTAL:	15,286

ENERGY PRODUCTION

ENERGY CONSUMPTION

Australian Government
Department of Climate Change

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 context	Usage	Criteria	Amount	Units	Energy Content Factor	Converted Amount
Energy commodities	Electricity	Energy commodity	Combusted		16,798,350.93	kWh	0.004	60,474
							TOTAL:	60,474

Incidental For Energy consumed by means other than combustion

Source Name	Activity Type	Activity type context	Usage	Criteria	Amount	Units	Energy Content Factor	Converted Amount
Petroleum refining	Brown coal	Non-transport	Feedstock	BBB	1	tonnes	10.2	10
							TOTAL:	10

Energy consumed by means of combustion for transport

Source Name	Activity Type	Activity type context	Usage	Criteria	Amount	Units	Energy Content Factor	Converted Amount
Transport	Diesel Oil	Transport	Combusted	A	557	kL	38.6	21,500
Transport	Gasoline (other than for use as fuel in an aircraft)	Transport - Post 2004 vehicles	Combusted	A	91.147	kL	34.2	3,117
Transport	Diesel Oil	Transport - Post 2004 vehicles	Combusted	A	14.908	kL	38.6	575
							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

Source Name	Activity Type	Activity type context	Usage	Criteria	Amount	Units	Energy Content Factor	Converted Amount
Other Stationary	Town gas	Non-transport	Combusted	A	355.121	GJ	1	355
Other Stationary	Town gas	Non-transport	Combusted	A	65,210	m^3	0.039	2,543
							TOTAL:	2,898

Summary Table

Categories	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

Australian Government
Department of Climate Change

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.

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)
480	3,336	3,816	22,032	0

GHG Scope 1 Emission By Gas (tCO_2-e)						
CO_2 Carbon dioxide	CH_4 Methane	N_2O Nitrous oxide	Perfluorocarbon CF_4 Tetrafluoro-methane	Perfluorocarbon C_2F_6 Hexafluoro-ethane	SF_6 Sulphur hexafluoride	HFCs Hydro-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	Location
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

Australian Government
Department of Climate Change

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	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	5,550	GJ	1	5550	59.9	CO_2	Method 1	332
								0.03	CH_4	Method 1	0
								0.03	N_2O	Method 1	0
Transport	Diesel Oil	Transport - Post 2004 vehicles	A	21.008	kL	38.6	810.8895	69.2	CO_2	Method 1	56
								0.01	CH_4	Method 1	0
								0.6	N_2O	Method 1	0
Transport	Gasoline (other than for use as fuel in an aircraft)	Transport - Post 2004 vehicles	A	34.964	kL	34.2	1195.7517	66.7	CO_2	Method 1	80
								0.02	CH_4	Method 1	0
								0.2	N_2O	Method 1	0
Transport	Liquefied petroleum gas	Transport - Post 2004 vehicles	A	6.763	kL	26.2	177.1985	59.6	CO_2	Method 1	11
								0.3	CH_4	Method 1	0
								0.3	N_2O	Method 1	0
										TOTAL:	480

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		3,971,826	kWh	3,336
					TOTAL:	3,336

ENERGY PRODUCTION

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
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	A	21.008	kL	38.6	811
Transport	Liquefied petroleum gas	Transport - Post 2004 vehicles	Combusted	A	6.763	kL	26.2	177
							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	Units	Energy Content Factor	Converted Amount
Other Stationary	Town gas	Non-transport	Combusted	A	5,550	GJ	1	5,550
							TOTAL:	5,550

Energy consumed by means other than combustion

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

Summary Table

Categories	Converted 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	GJ

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.

Australian Government
Department of Climate Change

Commonwealth Scientific and Industrial Research Organisation

ABN: 41 687 119 230

R090819-00534

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)
31	458	489	14,192	0

GHG Scope 1 Emission By Gas (tCO_2-e)						
CO_2 Carbon dioxide	CH_4 Methane	N_2O Nitrous oxide	Perfluorocarbon CF_4 Tetrafluoromethane	Perfluorocarbon C_2F_6 Hexafluoroethane	SF_6 Sulphur hexafluoride	HFCs Hydrofluorocarbons
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: 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	Location
CSIRO-TAS-Hobart	Facility	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

GREENHOUSE GAS EMISSIONS

Australian Government
Department of Climate Change

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	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	2.925	kL	38.6	112.9127	69.2	CO_2	Method 1	8
								0.01	CH_4	Method 1	0
								0.6	N_2O	Method 1	0
Transport	Gasoline (other than for use as fuel in an aircraft)	Transport - Post 2004 vehicles	A	10.151	kL	34.2	347.1539	66.7	CO_2	Method 1	23
								0.02	CH_4	Method 1	0
								0.2	N_2O	Method 1	0
										TOTAL:	31

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		3,814,418	kWh	458
					TOTAL:	458

ENERGY PRODUCTION

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
Transport	Gasoline (other than for use as fuel in an aircraft)	Transport - Post 2004 vehicles	Combusted	A	10.151	kL	34.2	347
Transport	Diesel Oil	Transport - Post 2004 vehicles	Combusted	A	2.925	kL	38.6	113
							TOTAL:	460

Energy consumed by means other than combustion

Source Name	Activity Type	Activity type context	Usage	Criteria	Amount	Units	Energy Content Factor	Converted Amount
Energy commodities	Electricity	Energy commodity	Combusted		3,814,418	kWh	0.004	13,732
							TOTAL:	13,732

Summary Table

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.

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)
4,020	31,296	35,316	158,661	0

GHG Scope 1 Emission By Gas (tCO_2-e)						
CO_2 Carbon dioxide	CH_4 Methane	N_2O Nitrous oxide	Perfluorocarbon CF_4 Tetrafluoro-methane	Perfluorocarbon C_2F_6 Hexafluoro-ethane	SF_6 Sulphur hexafluoride	HFCs Hydro-fluorocarbons
4,015	2	3	0	0	0	0

Australian Government
Department of Climate Change

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: 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

Facility Name	Type	Location
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
CSIRO-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

Australian Government
Department of Climate Change

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	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	60,029	GJ	1	60029	59.9	CO_2	Method 1	3,596
								0.03	CH_4	Method 1	2
								0.03	N_2O	Method 1	2
Transport	Diesel Oil	Transport - Post 2004 vehicles	A	1.506	kL	38.6	58.1393	69.2	CO_2	Method 1	4
								0.01	CH_4	Method 1	0
								0.6	N_2O	Method 1	0
Transport	Gasoline (other than for use as fuel in an aircraft)	Transport - Post 2004 vehicles	A	182.025	kL	34.2	6225.2413	66.7	CO_2	Method 1	415
								0.02	CH_4	Method 1	0
								0.2	N_2O	Method 1	1
										TOTAL:	4,020

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		25,652,424.23	kWh	31,296
					TOTAL:	31,296

ENERGY PRODUCTION

ENERGY CONSUMPTION

Australian Government
Department of Climate Change

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	Amount	Units	Energy 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 Oil	Transport - Post 2004 vehicles	Combusted	A	1.506	kL	38.6	58
							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 context	Usage	Criteria	Amount	Units	Energy Content Factor	Converted Amount
Other Stationary	Town gas	Non-transport	Combusted	A	60,029	GJ	1	60,029
							TOTAL:	60,029

Energy consumed by means other than combustion

Source Name	Activity Type	Activity type context	Usage	Criteria	Amount	Units	Energy Content Factor	Converted Amount
Energy commodities	Electricity	Energy commodity	Combusted		25,652,424.23	kWh	0.004	92,349
							TOTAL:	92,349

Summary Table

Categories	Converted 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.

Australian Government
Department of Climate Change

Commonwealth Scientific and Industrial Research Organisation

ABN: 41 687 119 230

R090819-00534

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)
652	6,492	7,144	37,344	0

GHG Scope 1 Emission By Gas (tCO_2-e)						
CO_2 Carbon dioxide	CH_4 Methane	N_2O Nitrous oxide	Perfluorocarbon CF_4 Tetrafluoromethane	Perfluorocarbon C_2F_6 Hexafluoroethane	SF_6 Sulphur hexafluoride	HFCs Hydrofluorocarbons
650	0	1	0	0	0	0

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	Type	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

Australian Government
Department of Climate Change

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	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	7,468	GJ	1	7468	59.9	CO_2	Method 1	447
								0.03	CH_4	Method 1	0
								0.03	N_2O	Method 1	0
Transport	Diesel Oil	Transport - Post 2004 vehicles	A	20.466	kL	38.6	789.9722	69.2	CO_2	Method 1	55
								0.01	CH_4	Method 1	0
								0.6	N_2O	Method 1	0
Transport	Gasoline (other than for use as fuel in an aircraft)	Transport - Post 2004 vehicles	A	64.94	kL	34.2	2220.9548	66.7	CO_2	Method 1	148
								0.02	CH_4	Method 1	0
								0.2	N_2O	Method 1	0
										TOTAL:	652

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		7,462,486	kWh	6,492
					TOTAL:	6,492

ENERGY PRODUCTION

ENERGY CONSUMPTION

Australian Government
Department of Climate Change

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	Amount	Units	Energy Content Factor	Converted Amount
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	790
							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	Units	Energy Content Factor	Converted Amount
Other Stationary	Town gas	Non-transport	Combusted	A	7,468	GJ	1	7,468
							TOTAL:	7,468

Energy consumed by means other than combustion

Source Name	Activity Type	Activity type context	Usage	Criteria	Amount	Units	Energy Content Factor	Converted Amount
Energy commodities	Electricity	Energy commodity	Combusted		7,462,486	kWh	0.004	26,865
							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

Australian Government
Department of Climate Change

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.

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)
0	0	0	0	0

GHG Scope 1 Emission By Gas ($t CO_2$-e)						
CO_2 Carbon dioxide	CH_4 Methane	N_2O Nitrous oxide	Perfluorocarbon CF_4 Tetrafluoromethane	Perfluorocarbon C_2F_6 Hexafluoroethane	SF_6 Sulphur Hexafluoride	HFCs Hydrofluorocarbons
0	0	0	0	0	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

Australian Government
Department of Climate Change

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.

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)
0	0	0	0	0

GHG Scope 1 Emission By Gas (tCO_2-e)						
CO_2 Carbon dioxide	CH_4 Methane	N_2O Nitrous oxide	Perfluorocarbon CF_4 Tetrafluoro-methane	Perfluorocarbon C_2F_6 Hexafluoro-ethane	SF_6 Sulphur hexafluoride	HFCs Hydro-fluorocarbons
0	0	0	0	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.

Australian Government
Department of Climate Change

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.

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)
0	0	0	0	0

GHG Scope 1 Emission By Gas (tCO_2-e)						
CO_2 Carbon dioxide	CH_4 Methane	N_2O Nitrous oxide	Perfluorocarbon CF_4 Tetrafluoromethane	Perfluorocarbon C_2F_6 Hexafluoroethane	SF_6 Sulphur hexafluoride	HFCs Hydrofluorocarbons
0	0	0	0	0	0	0

Group Member Details

Group Member: Intalysis P/L

Identifying details: ABN: 98 116 067 951

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.

Australian Government
Department of Climate Change

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.

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)
0	0	0	0	0

GHG Scope 1 Emission By Gas (tCO_2-e)						
CO_2 Carbon dioxide	CH_4 Methane	N_2O Nitrous oxide	Perfluorocarbons CF_4 Tetrafluoro methane	Perfluorocarbons C_2F_6 Hexafluoro ethane	SF_6 Sulphur hexafluoride	HFCs Hydro fluorocarbons
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.

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.

Australian Government
Department of Climate Change

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

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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 1 attachments:

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