

Module: Introduction**Page: Introduction**

CC0.1**Introduction**

Please give a general description and introduction to your organization.

Caltex is an integrated oil refining and marketing company listed on the Australian Securities Exchange. One refinery is operated at Lytton, Brisbane producing approximately 50% petrol, 30% diesel and 15% jet fuel. The remainder of the production consists of fuel oil, LPG and other gases. Caltex supplies these products, together with refined products purchased from the international market to the Australian market via a network of pipelines, terminals, depots and the company owned and contracted transport fleet. Caltex marketing encompasses a range of downstream activities from retail service station operations to equity and non-equity resellers and direct sales to corporate customers. Caltex operates in every state and territory of Australia.

CC0.2**Reporting Year**

Please state the start and end date of the year for which you are reporting data.

The current reporting year is the latest/most recent 12-month period for which data is reported. Enter the dates of this year first.

We request data for more than one reporting period for some emission accounting questions. Please provide data for the three years prior to the current reporting year if you have not provided this information before, or if this is the first time you have answered a CDP information request. (This does not apply if you have been offered and selected the option of answering the shorter questionnaire). If you are going to provide additional years of data, please give the dates of those reporting periods here. Work backwards from the most recent reporting year.

Please enter dates in following format: day(DD)/month(MM)/year(YYYY) (i.e. 31/01/2001).

Enter Periods that will be disclosed

Mon 01 Jul 2013 - Mon 30 Jun 2014

CC0.3

Country list configuration

Please select the countries for which you will be supplying data. If you are responding to the Electric Utilities module, this selection will be carried forward to assist you in completing your response.

Select country

Australia

CC0.4

Currency selection

Please select the currency in which you would like to submit your response. All financial information contained in the response should be in this currency.

AUD (\$)

CC0.6

Modules

As part of the request for information on behalf of investors, electric utilities, companies with electric utility activities or assets, companies in the automobile or auto component manufacture sub-industries, companies in the oil and gas sub-industries, companies in the information technology and telecommunications sectors and companies in the food, beverage and tobacco industry group should complete supplementary questions in addition to the main questionnaire.

If you are in these sector groupings (according to the Global Industry Classification Standard (GICS)), the corresponding sector modules will not appear below but will automatically appear in the navigation bar when you save this page. If you want to query your classification, please email respond@cdp.net.

If you have not been presented with a sector module that you consider would be appropriate for your company to answer, please select the module below. If you wish to view the questions first, please see <https://www.cdp.net/en-US/Programmes/Pages/More-questionnaires.aspx>.

Further Information

Module: Management

Page: CC1. Governance

CC1.1

Where is the highest level of direct responsibility for climate change within your organization?

Board or individual/sub-set of the Board or other committee appointed by the Board

CC1.1a

Please identify the position of the individual or name of the committee with this responsibility

i. Audit Committee ii. The Audit Committee is a subset of the Caltex Australia Board of Directors

CC1.2

Do you provide incentives for the management of climate change issues, including the attainment of targets?

No

CC1.2a

Please provide further details on the incentives provided for the management of climate change issues

Who is entitled to benefit from these incentives?	The type of incentives	Incentivized performance indicator	Comment
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Further Information

Page: CC2. Strategy

CC2.1

Please select the option that best describes your risk management procedures with regard to climate change risks and opportunities

Integrated into multi-disciplinary company wide risk management processes

CC2.1a

Please provide further details on your risk management procedures with regard to climate change risks and opportunities

Frequency of monitoring	To whom are results reported?	Geographical areas considered	How far into the future are risks considered?	Comment
Annually	Board or individual/sub-set of the Board or committee appointed by the Board	Australia	1 to 3 years	Climate Change risk within Caltex is reviewed in line with climate change policy drivers in Australia.

CC2.1b

Please describe how your risk and opportunity identification processes are applied at both company and asset level

The process used is within the Caltex Risk Management Framework (Enterprise Risk Management System) which evaluates the following risks and opportunities using the following steps:-

i. Advice from subject matter experts is sought on the impact of climate change legislation and the anticipated financial impact on the business. ii. Subject matter experts review available data and prepare a Risk Management Framework document which outlines the Scope, target case for the risk, controls to manage the risk and commentary on how the controls are working (for an existing risk). iii. The documentation is reviewed by a cross-functional team of risk owners across the business and the risk is rated both as a mitigated risk (with all controls working) and unmitigated risk (where controls are not successful). The risk is also rated with respect to likelihood of occurrence. iv. The impact of the risk (to company reputation and financial performance) is then assessed to determine if it warrants quarterly review. If so, it is then represented in a materiality matrix which is reviewed quarterly to see if risk controls are effective and if any changes to the risk profile are active. v. Actions to address a risk or opportunity are also tracked through this process. vi. Climate change risks which have historically been managed through this process include the reputational risk were Caltex to not meet all compliance requirements under climate change related legislation and the financial impact (through fines and extra charges).

CC2.1c

How do you prioritize the risks and opportunities identified?

Prioritization is carried out based on the anticipated material impact of the mitigated risk and likelihood rating derived from a cross functional review of the risk management framework. The effectiveness of controls is also factored into the prioritisation and actions to resolve any ineffective controls is given priority. The cross-functional review of materiality of risks/opportunities considers reputational impact and financial impact.

CC2.1d

Please explain why you do not have a process in place for assessing and managing risks and opportunities from climate change, and whether you plan to introduce such a process in future

Main reason for not having a process	Do you plan to introduce a process?	Comment

CC2.2

Is climate change integrated into your business strategy?

Yes

CC2.2a

Please describe the process of how climate change is integrated into your business strategy and any outcomes of this process

Caltex considers forward carbon price curves (where relevant to the Australian Market) and government assistance for a specific opportunity to determine the overall impact on project economics. The carbon price and legislated carbon pricing scheme has influenced the strategy through an increased focus on energy efficiency across the retail service station network, with technology evaluations continuing to be carried out. It has also influenced the continued provision of customer greenhouse gas reports and tracking.

CC2.2b

Please explain why climate change is not integrated into your business strategy

CC2.2c

Does your company use an internal price of carbon?

No, and we currently don't anticipate doing so in the next 2 years

CC2.2d

Please provide details and examples of how your company uses an internal price of carbon

CC2.3

Do you engage in activities that could either directly or indirectly influence public policy on climate change through any of the following? (tick all that apply)

Direct engagement with policy makers
Trade associations

CC2.3a

On what issues have you been engaging directly with policy makers?

Focus of legislation	Corporate Position	Details of engagement	Proposed legislative solution
Other: Direct Action Safe Gaurd Mechansim and National Clean Air Agreement	Support with minor exceptions	Caltex has been engaged with the Department of Environment through their Safeguard Mechanism technical working group.	In development.

CC2.3b

Are you on the Board of any trade associations or provide funding beyond membership?

Yes

CC2.3c

Please enter the details of those trade associations that are likely to take a position on climate change legislation

Trade association	Is your position on climate change consistent with theirs?	Please explain the trade association's position	How have you, or are you attempting to, influence the position?
Australian Institute of Petroleum	Consistent	Climate change presents a significant risk to the environment, and therefore to the economy and society. AIP member companies support actions to advance climate science to improve understanding and reduce the risks from future impacts. AIP member companies support a broad-based national approach to encourage GHG emissions abatement. Pathways to reduce emissions from production and use of liquid fuels include improved energy and vehicle efficiency, development and deployment of innovative technologies, and improved driver practices. Policy decisions must be based on sound scientific and economic analyses that recognise the risks, costs and benefits to society and the economy, as well as to the downstream petroleum industry. The future viability of Australian refineries, which contribute to Australia's energy security, will be dependent on maintaining the international competitiveness of Australian refined products.	Caltex participate in the Australian Institute of Petroleum (AIP) Climate Change Working Group and support the AIP policy positions stated. These policy positions are a consequence of our company input over an extended period through influence and data provision for AIP submissions.

CC2.3d

Do you publicly disclose a list of all the research organizations that you fund?

CC2.3e

Do you fund any research organizations to produce or disseminate public work on climate change?

CC2.3f

Please describe the work and how it aligns with your own strategy on climate change

CC2.3g

Please provide details of the other engagement activities that you undertake

CC2.3h

What processes do you have in place to ensure that all of your direct and indirect activities that influence policy are consistent with your overall climate change strategy?

Climate change policy positions are available to employees via intranet. All engagements, submissions and external representations are vetted using the Caltex Information Release Policy, which requires review and approval by relevant subject matter experts. For Climate Change related items this includes the National Environment Manager, National Operational Excellence Risk Manager and the Manager Government Affairs.

CC2.3i

Please explain why you do not engage with policy makers

CC2.4

Would your organization's board of directors support an international agreement between governments on climate change, which seeks to limit global temperature rise to under two degree Celsius from pre-industrial levels in line with IPCC scenarios such as RCP2.6?

No opinion

CC2.4a

Please describe your board's position on what an effective agreement would mean for your organization and activities that you are undertaking to help deliver this agreement at the 2015 United Nations Climate Change Conference in Paris (COP 21)

This was not discussed at board meetings held within the 2013-2014 reporting period.

Further Information

Page: CC3. Targets and Initiatives

CC3.1

Did you have an emissions reduction target that was active (ongoing or reached completion) in the reporting year?

Intensity target

CC3.1a

Please provide details of your absolute target

ID	Scope	% of emissions in scope	% reduction from base year	Base year	Base year emissions (metric tonnes CO2e)	Target year	Comment
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CC3.1b

Please provide details of your intensity target

ID	Scope	% of emissions in scope	% reduction from base year	Metric	Base year	Normalized base year emissions	Target year	Comment
Int1	Scope 1+2	40.6%	4.9%	Other: Solomons Energy Intensity Index	2013	100.0	2015	:Lytton Refinery 2015 target is Solomon Energy Intensity Index of 95.5 (higher than 2014 due to impact of major maintenance turnaround), however absolute emissions to are expected to reduce. The achievement of this target is significantly influenced by refinery utilisation rate

CC3.1c

Please also indicate what change in absolute emissions this intensity target reflects

ID	Direction of change anticipated in absolute Scope 1+2 emissions at target completion?	% change anticipated in absolute Scope 1+2 emissions	Direction of change anticipated in absolute Scope 3 emissions at target completion?	% change anticipated in absolute Scope 3 emissions	Comment
Int1	Decrease	2.2	No change	0	There is significant uncertainty in the absolute emissions result, however, the emissions intensity is anticipated to decrease. The absolute emissions are very dependent upon refinery utilization and crude processed. This can result in increased absolute emissions while delivering an emissions intensity decrease.

CC3.1d

For all of your targets, please provide details on the progress made in the reporting year

ID	% complete (time)	% complete (emissions)	Comment
Int1	35%		Progress made from last reporting period, however majority of capital works will not be complete until post Shut Down event in May-June 2015

CC3.1e

Please explain (i) why you do not have a target; and (ii) forecast how your emissions will change over the next five years

CC3.2

Does the use of your goods and/or services directly enable GHG emissions to be avoided by a third party?

Yes

CC3.2a

Please provide details of how the use of your goods and/or services directly enable GHG emissions to be avoided by a third party

- i. Emissions are avoided by the use of biofuels – as biofuels have a lower carbon intensity than fossil fuel derived products
 - ii. Determining the GHG savings attributable to biofuels compared to fossil fuel derived fuels is not practical due to the variance in biofuel life cycle greenhouse gas values and fuel calorific value differences.
 - iii. No specific factors used.
 - iv. The blending and retailing of biofuels in Australia does not qualify for the generation of CDM or JI credits
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- i. Caltex also provide indicative GHG reports for both fuel card and direct larger scale customers. These tailored reports assist customers examine their emission performance for general trends in performance.
 - ii. No specific GHG saving data is available as a consequence of our customers using these reports.
 - iii. National Greenhouse Gas and Energy Reporting (NGER) Method 1 emissions factors are used in the generation of these reports.
 - iv. The generation of CDM or JI credits is not applicable for any GHG savings that customers may achieve/recognise as a consequence of using the subject reports.

CC3.3

Did you have emissions reduction initiatives that were active within the reporting year (this can include those in the planning and/or implementation phases)

Yes

CC3.3a

Please identify the total number of projects at each stage of development, and for those in the implementation stages, the estimated CO2e savings

Stage of development	Number of projects	Total estimated annual CO2e savings in metric tonnes CO2e (only for rows marked *)
Under investigation	9	
To be implemented*	19	16000
Implementation commenced*	15	12300
Implemented*	12	3500
Not to be implemented	41	

CC3.3b

For those initiatives implemented in the reporting year, please provide details in the table below

Activity type	Description of activity	Estimated annual CO2e savings (metric tonnes CO2e)	Scope	Voluntary/ Mandatory	Annual monetary savings (unit currency - as specified in CC0.4)	Investment required (unit currency - as specified in CC0.4)	Payback period	Estimated lifetime of the initiative	Comment
Energy efficiency: Processes	New refinery process heat exchanger for integrated heat recovery. This is a voluntary activity to reduce Scope 1 emissions	2200	Scope 1	Voluntary			4-10 years	21-30 years	20% of capital works complete
Energy efficiency: Processes	Reformer operational efficiency improvement by reduction of recycle gas rate (reduces compressor duty and furnace load). This is a voluntary activity to reduce Scope 1 emissions.	3600	Scope 1	Voluntary			<1 year	21-30 years	

CC3.3c

What methods do you use to drive investment in emissions reduction activities?

Method	Comment
Compliance with regulatory requirements/standards	Review of refinery based carbon compliance has driven evaluation of higher order National Greenhouse and Energy Reporting (NGER) methodologies for specific refinery processes.
Internal finance mechanisms	Review of the impact of energy price increases across business including as a consequence of the introduction of the Carbon Price Mechanism.

CC3.3d

If you do not have any emissions reduction initiatives, please explain why not

Further Information

Page: CC4. Communication

CC4.1

Have you published information about your organization's response to climate change and GHG emissions performance for this reporting year in places other than in your CDP response? If so, please attach the publication(s)

Publication	Status	Page/Section reference	Attach the document
In mainstream financial reports but have not used the CDSB Framework	Complete	2014 Annual Report, Page 10 Section 5	https://www.cdp.net/sites/2015/30/2630/Climate Change 2015/Shared Documents/Attachments/CC4.1/2014 Annual Report.pdf
In voluntary communications	Complete	2014 Annual Review , pages 18-23	https://www.cdp.net/sites/2015/30/2630/Climate Change 2015/Shared Documents/Attachments/CC4.1/2014 Annual Review.pdf

Further Information

Module: Risks and Opportunities

Page: CC5. Climate Change Risks

CC5.1

Have you identified any inherent climate change risks that have the potential to generate a substantive change in your business operations, revenue or expenditure? Tick all that apply

Risks driven by changes in regulation
 Risks driven by changes in physical climate parameters
 Risks driven by changes in other climate-related developments

CC5.1a

Please describe your inherent risks that are driven by changes in regulation

Risk driver	Description	Potential impact	Timeframe	Direct/ Indirect	Likelihood	Magnitude of impact	Estimated financial implications	Management method	Cost of management
Uncertainty surrounding new regulation	It is unclear how climate change policy will impact petroleum refining in the coming 1-5 years. The potential financial impact to Caltex operations is therefore unknown at this time. This is a direct impact to Caltex as petroleum products are priced on the basis of import parity pricing and any additional costs are unable to be recovered in the marketplace. There is a financial risk to Caltex for any non-compliance with climate change related legislation.	Increased operational cost			Very likely	Low	Not known at this time.	Engagement with policy makers both directly and through industry associations.	Internal resources are required to monitor and engage. Once policy and regulation is clear, additional resources may be required for implementation.

CC5.1b

Please describe your inherent risks that are driven by change in physical climate parameters

Risk driver	Description	Potential impact	Timeframe	Direct/ Indirect	Likelihood	Magnitude of impact	Estimated financial implications	Management method	Cost of management
Change in precipitation extremes and droughts	Extreme weather events can result in business disruption and loss of revenue.	Inability to do business	Up to 1 year	Direct	Unknown	Medium	In 2011 the Lytton refinery disruption due to flooding in resulted in a \$10 million impact from this event.	Management of extreme weather events is conducted as part of Caltex's Business Continuity Planning and is included in the Caltex Risk Management Framework. Specific asset plans and Environmental Assessments also factor in relevant government guidelines relating to weather extremes as part of their due diligence.	Internal resources for business continuity planning and risk review.

CC5.1c

Please describe your inherent risks that are driven by changes in other climate-related developments

Risk driver	Description	Potential impact	Timeframe	Direct/ Indirect	Likelihood	Magnitude of impact	Estimated financial implications	Management method	Cost of management
Changing consumer behaviour	Possible increased consumption/demand for biofuels.	Reduced demand for goods/services		Direct	Very likely	Medium	Not known.	Caltex's product choices include a range of biofuels, including biodiesel	Not available.

Risk driver	Description	Potential impact	Timeframe	Direct/ Indirect	Likelihood	Magnitude of impact	Estimated financial implications	Management method	Cost of management
								and ethanol blended petrols.	

CC5.1d

Please explain why you do not consider your company to be exposed to inherent risks driven by changes in regulation that have the potential to generate a substantive change in your business operations, revenue or expenditure

CC5.1e

Please explain why you do not consider your company to be exposed to inherent risks driven by physical climate parameters that have the potential to generate a substantive change in your business operations, revenue or expenditure

CC5.1f

Please explain why you do not consider your company to be exposed to inherent risks driven by changes in other climate-related developments that have the potential to generate a substantive change in your business operations, revenue or expenditure

Further Information

Page: CC6. Climate Change Opportunities

CC6.1

Have you identified any inherent climate change opportunities that have the potential to generate a substantive change in your business operations, revenue or expenditure? Tick all that apply

Opportunities driven by changes in other climate-related developments

CC6.1a

Please describe your inherent opportunities that are driven by changes in regulation

Opportunity driver	Description	Potential impact	Timeframe	Direct/Indirect	Likelihood	Magnitude of impact	Estimated financial implications	Management method	Cost of management

CC6.1b

Please describe the inherent opportunities that are driven by changes in physical climate parameters

Opportunity driver	Description	Potential impact	Timeframe	Direct/ Indirect	Likelihood	Magnitude of impact	Estimated financial implications	Management method	Cost of management

CC6.1c

Please describe the inherent opportunities that are driven by changes in other climate-related developments

Opportunity driver	Description	Potential impact	Timeframe	Direct/ Indirect	Likelihood	Magnitude of impact	Estimated financial implications	Management method	Cost of management
Reputation	Caltex was able to support indigenous employment and land conservation activities through the purchase of carbon credits in 2014 which are derived from early season savanna burning in the Northern Territory. Caltex was able to use these carbon credits to acquit the Carbon Price Mechanism carbon liability.	Wider social benefits	Up to 1 year	Indirect (Supply chain)	Virtually certain	Low	Cost of permits (between \$250,000 and \$400,000)	Internal resourcing to identify and act on opportunities. This included a due diligence review of the validity of the permits and consideration of the social and environmental benefits offered by this project type and operation when compared to other available carbon unit purchases.	Internal resource cost, less than \$10,000

CC6.1d

Please explain why you do not consider your company to be exposed to inherent opportunities driven by changes in regulation that have the potential to generate a substantive change in your business operations, revenue or expenditure

CC6.1e

Please explain why you do not consider your company to be exposed to inherent opportunities driven by physical climate parameters that have the potential to generate a substantive change in your business operations, revenue or expenditure

Caltex view precipitation extremes as potentially impacting our operations. These events and other physical impacts do not present business opportunities

CC6.1f

Please explain why you do not consider your company to be exposed to inherent opportunities driven by changes in other climate-related developments that have the potential to generate a substantive change in your business operations, revenue or expenditure

Further Information

Module: GHG Emissions Accounting, Energy and Fuel Use, and Trading

Page: CC7. Emissions Methodology

CC7.1

Please provide your base year and base year emissions (Scopes 1 and 2)

Scope	Base year	Base year emissions (metric tonnes CO2e)
Scope 1	Mon 01 Jul 2013 - Mon 30 Jun 2014	1704466

Scope	Base year	Base year emissions (metric tonnes CO2e)
Scope 2	Mon 01 Jul 2013 - Mon 30 Jun 2014	269848

CC7.2

Please give the name of the standard, protocol or methodology you have used to collect activity data and calculate Scope 1 and Scope 2 emissions

Please select the published methodologies that you use
Australia - National Greenhouse and Energy Reporting Act

CC7.2a

If you have selected "Other" in CC7.2 please provide details of the standard, protocol or methodology you have used to collect activity data and calculate Scope 1 and Scope 2 emissions

CC7.3

Please give the source for the global warming potentials you have used

Gas	Reference
CO2	Other: NGER Technical Guidelines
CH4	Other: NGER Technical Guidelines
N2O	Other: NGER Technical Guidelines

CC7.4

Please give the emissions factors you have applied and their origin; alternatively, please attach an Excel spreadsheet with this data at the bottom of this page

Fuel/Material/Energy	Emission Factor	Unit	Reference

Further Information

Page: CC8. Emissions Data - (1 Jul 2013 - 30 Jun 2014)

CC8.1

Please select the boundary you are using for your Scope 1 and 2 greenhouse gas inventory

Operational control

CC8.2

Please provide your gross global Scope 1 emissions figures in metric tonnes CO2e

1704466

CC8.3

Please provide your gross global Scope 2 emissions figures in metric tonnes CO2e

269848

CC8.4

Are there any sources (e.g. facilities, specific GHGs, activities, geographies, etc.) of Scope 1 and Scope 2 emissions that are within your selected reporting boundary which are not included in your disclosure?

Yes

CC8.4a

Please provide details of the sources of Scope 1 and Scope 2 emissions that are within your selected reporting boundary which are not included in your disclosure

Source	Relevance of Scope 1 emissions from this source	Relevance of Scope 2 emissions excluded from this source	Explain why the source is excluded
Ampol Singapore	No emissions from this source	Emissions are relevant but not yet calculated	This is a trading office that opened in March 2014

CC8.5

Please estimate the level of uncertainty of the total gross global Scope 1 and 2 emissions figures that you have supplied and specify the sources of uncertainty in your data gathering, handling and calculations

Scope	Uncertainty range	Main sources of uncertainty	Please expand on the uncertainty in your data
Scope 1	More than 30% but less than or equal to 40%	Metering/ Measurement Constraints Data Management	31% Based on NGER uncertainties for Lytton and Kurnell. The uncertainty of emissions estimate is calculated in accordance with the rules set out in Chapter 8 of the NGER (Measurement) Determination, including in accordance with the GHG Protocol guidance on uncertainty assessment in GHG inventories and calculating statistical parameter uncertainty (Sept. 2003) as applicable.
Scope 2	Less than or equal to 2%	Data Management	Uncertainty impacted by the large data set from which data is compiled, numerous suppliers and potential for measurement and reporting errors.

CC8.6

Please indicate the verification/assurance status that applies to your reported Scope 1 emissions

Third party verification or assurance complete

CC8.6a

Please provide further details of the verification/assurance undertaken for your Scope 1 emissions, and attach the relevant statements

Type of verification or assurance	Attach the statement	Page/section reference	Relevant standard	Proportion of reported Scope 1 emissions verified (%)
Reasonable assurance	https://www.cdp.net/sites/2015/30/2630/Climate Change 2015/Shared Documents/Attachments/CC8.6a/FINAL Caltex - s22A Reasonable Assurance Engagement Report 2014 (2).pdf	Final Caltex S22A Reasonable Assurance Engagement Report 2014.pdf	Australian National GHG emission regulation (NGER)	97

CC8.6b

Please provide further details of the regulatory regime to which you are complying that specifies the use of Continuous Emissions Monitoring Systems (CEMS)

Regulation	% of emissions covered by the system	Compliance period	Evidence of submission

CC8.7

Please indicate the verification/assurance status that applies to your reported Scope 2 emissions

No third party verification or assurance

CC8.7a

Please provide further details of the verification/assurance undertaken for your Scope 2 emissions, and attach the relevant statements

Type of verification or assurance	Attach the statement	Page/Section reference	Relevant standard	Proportion of reported Scope 2 emissions verified (%)
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CC8.8

Please identify if any data points have been verified as part of the third party verification work undertaken, other than the verification of emissions figures reported in CC8.6, CC8.7 and CC14.2

Additional data points verified	Comment
No additional data verified	

CC8.9

Are carbon dioxide emissions from biologically sequestered carbon relevant to your organization?

No

CC8.9a

Please provide the emissions from biologically sequestered carbon relevant to your organization in metric tonnes CO2

Further Information

Page: **CC9. Scope 1 Emissions Breakdown - (1 Jul 2013 - 30 Jun 2014)**

CC9.1

Do you have Scope 1 emissions sources in more than one country?

No

CC9.1a

Please break down your total gross global Scope 1 emissions by country/region

Country/Region	Scope 1 metric tonnes CO2e
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CC9.2

Please indicate which other Scope 1 emissions breakdowns you are able to provide (tick all that apply)

By business division
By GHG type

CC9.2a

Please break down your total gross global Scope 1 emissions by business division

Business division	Scope 1 emissions (metric tonnes CO2e)
Refining and Supply	1674423
Marketing, Distribution and Corporate	30043

CC9.2b

Please break down your total gross global Scope 1 emissions by facility

Facility	Scope 1 emissions (metric tonnes CO2e)	Latitude	Longitude
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CC9.2c

Please break down your total gross global Scope 1 emissions by GHG type

GHG type	Scope 1 emissions (metric tonnes CO2e)
CO2	1688059
CH4	13424
N2O	2983

CC9.2d

Please break down your total gross global Scope 1 emissions by activity

Activity	Scope 1 emissions (metric tonnes CO2e)
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CC9.2e

Please break down your total gross global Scope 1 emissions by legal structure

Legal structure	Scope 1 emissions (metric tonnes CO2e)
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Further Information

Page: CC10. Scope 2 Emissions Breakdown - (1 Jul 2013 - 30 Jun 2014)

CC10.1

Do you have Scope 2 emissions sources in more than one country?

Yes

CC10.1a

Please break down your total gross global Scope 2 emissions and energy consumption by country/region

Country/Region	Scope 2 metric tonnes CO2e	Purchased and consumed electricity, heat, steam or cooling (MWh)	Purchased and consumed low carbon electricity, heat, steam or cooling accounted for in CC8.3 (MWh)
Singapore			
Australia	269848	269848	0

CC10.2

Please indicate which other Scope 2 emissions breakdowns you are able to provide (tick all that apply)

By business division

CC10.2a

Please break down your total gross global Scope 2 emissions by business division

Business division	Scope 2 emissions (metric tonnes CO2e)
Refining and Supply	221387
Marketing, Distribution and Corporate	48461

CC10.2b

Please break down your total gross global Scope 2 emissions by facility

Facility	Scope 2 emissions (metric tonnes CO2e)
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CC10.2c

Please break down your total gross global Scope 2 emissions by activity

Activity	Scope 2 emissions (metric tonnes CO2e)
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CC10.2d

Please break down your total gross global Scope 2 emissions by legal structure

Legal structure	Scope 2 emissions (metric tonnes CO2e)
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Further Information

Page: CC11. Energy

CC11.1

What percentage of your total operational spend in the reporting year was on energy?

CC11.2

Please state how much fuel, electricity, heat, steam, and cooling in MWh your organization has purchased and consumed during the reporting year

Energy type	MWh
Fuel	7351210
Electricity	320365
Heat	
Steam	
Cooling	

CC11.3

Please complete the table by breaking down the total "Fuel" figure entered above by fuel type

Fuels	MWh

CC11.4

Please provide details of the electricity, heat, steam or cooling amounts that were accounted at a low carbon emission factor in the Scope 2 figure reported in CC8.3

Basis for applying a low carbon emission factor	MWh associated with low carbon electricity, heat, steam or cooling	Comment
No purchases or generation of low carbon electricity, heat, steam or cooling accounted with a low carbon emissions factor		

Further Information

Following a review of 2012-2013, it appears that the fuel energy use was presented in GJ not MWh. Correct energy unit presented in this report

Page: CC12. Emissions Performance

CC12.1

How do your gross global emissions (Scope 1 and 2 combined) for the reporting year compare to the previous year?

Decreased

CC12.1a

Please identify the reasons for any change in your gross global emissions (Scope 1 and 2 combined) and for each of them specify how your emissions compare to the previous year

Reason	Emissions value (percentage)	Direction of change	Comment
Emissions reduction activities	0.28	Decrease	Increased productivity and reliability at both Kurnell and Lytton Refineries compared to 2012-2013, delivered 20% and 4.5% reduction in total Scope 1 emissions respectively.
Divestment			
Acquisitions			
Mergers			
Change in output			
Change in methodology			
Change in boundary			
Change in physical operating conditions			
Unidentified			
Other			

CC12.2

Please describe your gross global combined Scope 1 and 2 emissions for the reporting year in metric tonnes CO2e per unit currency total revenue

Intensity figure	Metric numerator	Metric denominator	% change from previous year	Direction of change from previous year	Reason for change
0.00008147	metric tonnes CO2e	unit total revenue	6.35	Decrease	Retail energy efficiency program energy savings (LED light replacement and building energy management efforts) and Lytton Refinery energy efficiency efforts for operational efficiency improvement).

CC12.3

Please describe your gross global combined Scope 1 and 2 emissions for the reporting year in metric tonnes CO2e per full time equivalent (FTE) employee

Intensity figure	Metric numerator	Metric denominator	% change from previous year	Direction of change from previous year	Reason for change
643.7	metric tonnes CO2e	FTE employee	9.51	Increase	Full Time employee reduction of 15.7 %.

CC12.4

Please provide an additional intensity (normalized) metric that is appropriate to your business operations

Intensity figure	Metric numerator	Metric denominator	% change from previous year	Direction of change from previous year	Reason for change
	metric tonnes CO2e				

Further Information

Page: CC13. Emissions Trading

CC13.1

Do you participate in any emissions trading schemes?

Yes

CC13.1a

Please complete the following table for each of the emission trading schemes in which you participate

Scheme name	Period for which data is supplied	Allowances allocated	Allowances purchased	Verified emissions in metric tonnes CO2e	Details of ownership
Other: Australian Carbon Price Mechanism	Mon 01 Jul 2013 - Mon 30 Jun 2014		14152	14152	Other: Indigenous Land Council of Australia - Fish River Fire Project

CC13.1b

What is your strategy for complying with the schemes in which you participate or anticipate participating?

Australian Carbon Price Mechanism has now been repealed.

CC13.2

Has your organization originated any project-based carbon credits or purchased any within the reporting period?

Yes

CC13.2a

Please provide details on the project-based carbon credits originated or purchased by your organization in the reporting period

Credit origination or credit purchase	Project type	Project identification	Verified to which standard	Number of credits (metric tonnes of CO2e)	Number of credits (metric tonnes CO2e): Risk adjusted volume	Credits cancelled	Purpose, e.g. compliance
Credit Purchase	Other: Early dry season savannah burning	Fish River Fire Project, Daly River, Northern Territory - Indigenous Land Council of Australia	Other: ASAE3000	14152	14152	Yes	Compliance

Further Information

Page: CC14. Scope 3 Emissions

CC14.1

Please account for your organization’s Scope 3 emissions, disclosing and explaining any exclusions

Sources of Scope 3 emissions	Evaluation status	metric tonnes CO2e	Emissions calculation methodology	Percentage of emissions calculated using data obtained from suppliers or value chain partners	Explanation
Purchased goods and services	Relevant, not yet calculated				
Capital goods	Relevant, not yet calculated				
Fuel-and-energy-related activities (not included in Scope 1 or 2)	Relevant, not yet calculated				
Upstream transportation and distribution	Relevant, not yet calculated				
Waste generated in operations	Relevant, not yet calculated				
Business travel	Relevant, calculated	5998	NGER Measurement Determination	100.00%	International and Domestic air travel.
Employee commuting	Relevant, not yet calculated				
Upstream leased assets	Not relevant, explanation provided				No upstream assets in the Caltex portfolio.
Downstream transportation and distribution	Relevant, not yet calculated				
Processing of sold products	Not evaluated				
Use of sold products	Relevant, not yet calculated				
End of life treatment of sold products	Relevant, not yet calculated				
Downstream leased assets	Relevant, not yet calculated				
Franchises	Relevant, not yet calculated				
Investments	Not relevant, explanation provided				Caltex do not have investments in projects of this type.

Sources of Scope 3 emissions	Evaluation status	metric tonnes CO2e	Emissions calculation methodology	Percentage of emissions calculated using data obtained from suppliers or value chain partners	Explanation
Other (upstream)	Not evaluated				
Other (downstream)	Not evaluated				

CC14.2

Please indicate the verification/assurance status that applies to your reported Scope 3 emissions

No third party verification or assurance

CC14.2a

Please provide further details of the verification/assurance undertaken, and attach the relevant statements

Type of verification or assurance	Attach the statement	Page/Section reference	Relevant standard	Proportion of Scope 3 emissions verified (%)

CC14.3

Are you able to compare your Scope 3 emissions for the reporting year with those for the previous year for any sources?

Yes

CC14.3a

Please identify the reasons for any change in your Scope 3 emissions and for each of them specify how your emissions compare to the previous year

Sources of Scope 3 emissions	Reason for change	Emissions value (percentage)	Direction of change	Comment
Business travel	Unidentified	11	Decrease	

CC14.4

Do you engage with any of the elements of your value chain on GHG emissions and climate change strategies? (Tick all that apply)

No, we do not engage

CC14.4a

Please give details of methods of engagement, your strategy for prioritizing engagements and measures of success

CC14.4b

To give a sense of scale of this engagement, please give the number of suppliers with whom you are engaging and the proportion of your total spend that they represent

Number of suppliers	% of total spend	Comment
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CC14.4c

If you have data on your suppliers' GHG emissions and climate change strategies, please explain how you make use of that data

How you make use of the data	Please give details
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CC14.4d

Please explain why you do not engage with any elements of your value chain on GHG emissions and climate change strategies, and any plans you have to develop an engagement strategy in the future

Further Information

Module: Sign Off

Page: CC15. Sign Off

CC15.1

Please provide the following information for the person that has signed off (approved) your CDP climate change response

Name	Job title	Corresponding job category
Mr. Julian Segal	Chief Executive Officer and Managing Director	Chief Executive Officer (CEO)

Further Information

Module: Oil & Gas

Page: OG0. Reference information

OG0.1

Please identify the significant petroleum industry components of your business within your reporting boundary (select all that apply)

Further Information

Page: OG1. Production & reserves by hydrocarbon type - (1 Jul 2013 - 30 Jun 2014)

OG1.1

Is your organization involved with oil & gas production or reserves?

No

OG1.2

Please provide values for annual production by hydrocarbon type (in units of BOE) for the reporting year in the following table. The values required are aggregate values for the reporting organization. The values required for the next reporting year are forward-looking estimates

Product	Production (BOE) - Reporting year	Production (BOE) - Next reporting year estimate

OG1.3

Please provide values for reserves by hydrocarbon type (in units of BOE) for the reporting year. Please indicate if the figures are for reserves that are proved, probable or both proved and probable. The values required are aggregate values for the reporting organization

Product	Country/region	Reserves (BOE)	Date of assessment	Proved/Probable/Proved+Probable
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OG1.4

Please explain which listing requirements or other methodologies you have used to provide reserves data in OG1.3. If your organization cannot provide data due to legal restrictions on reporting reserves figures in certain countries, please explain this

OG1.5

Please provide the average breakeven cost of current production used in estimation of proven reserves

Hydrocarbon/project	Breakeven cost/BOE	Comment
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OG1.6

In your economic assessment of hydrocarbon reserves and resources, do you conduct scenario analysis consistent with global developments to avoid dangerous climate change by reducing GHG emissions?

OG1.6a

Please describe your analysis and the implications for your capital expenditure plans

OG1.6b

Please explain why you have not conducted any scenario analysis based on a low-carbon scenario

Further Information

Page: **OG2. Emissions by segment in the O&G value chain - (1 Jul 2013 - 30 Jun 2014)**

OG2.1

Please indicate the consolidation basis (financial control, operational control, equity share) used to report the Scope 1 and Scope 2 emissions by segment in the O&G value chain. Further information can be provided in the text box in OG2.2

Segment	Consolidation basis for reporting Scope 1 emissions	Consolidation basis for reporting Scope 2 emissions

OG2.2

Please provide clarification for cases in which different consolidation bases have been used and the level/focus of disclosure. For example, a reporting organization whose business is solely in storage, transportation and distribution (STD) may use the text box to explain why only the STD row has been completed

OG2.3

Please provide masses of gross Scope 1 GHG emissions in units of metric tonnes CO2e for the organization's owned/controlled operations by value chain segment. The values required for the next reporting year are forward-looking estimates

Segment	Gross Scope 1 emissions (metric tonnes CO2e) - Reporting year	Gross Scope 1 emissions (metric tonnes CO2e) - Next reporting year estimate

OG2.4

Please provide masses of gross Scope 2 GHG emissions in units of metric tonnes CO2e for the organization's owned/controlled operations by value chain segment. The values required for the next reporting year are forward-looking estimates

Segment	Gross Scope 2 emissions (metric tonnes CO2e) – Reporting year	Gross Scope 2 emissions (metric tonnes CO2e) – Next reporting year estimate

Further Information

Page: OG3. Scope 1 emissions by emissions category - (1 Jul 2013 - 30 Jun 2014)

OG3.1

Please confirm the consolidation basis (financial control, operational control, equity share) used to report Scope 1 emissions by emissions category

Segment	Consolidation basis for reporting Scope 1 emissions by emissions category

OG3.2

Please provide clarification for cases in which different consolidation bases have been used to report by emissions categories (combustion, flaring, process emissions, vented emissions, fugitive emissions) in the various segments

OG3.3

Please provide masses of gross Scope 1 GHG emissions released into the atmosphere in units of metric tonnes CO2e for the whole organization broken down by emissions categories: combustion, flaring, process emissions, vented emissions, fugitive emissions. The values required for the next reporting year are forward-looking estimates

Category	Gross Scope 1 emissions (metric tonnes CO2e) – Reporting year	Gross Scope 1 emissions (metric tonnes CO2e) – Next reporting year estimate
Combustion		
Flaring		
Process emissions		
Vented emissions		
Fugitive emissions		

Further Information

OG4.1

Is your organization involved in the transfer or sequestration of CO2?

OG4.2

Please indicate the consolidation basis (financial control, operational control, equity share) used to report transfers and sequestration of CO2 emissions

Activity	Consolidation basis

OG4.3

Please provide clarification for cases in which different consolidation bases have been used (e.g. for a given activity, capture, injection or storage pathway)

OG4.4

Using the units of metric tonnes of CO2, please provide gross masses of CO2 transferred in and out of the reporting organization (as defined by the consolidation basis). Please note that questions of ownership of the CO2 are addressed in OG4.6

Transfer direction	CO2 transferred – Reporting year

OG4.5

Please provide clarification on whether any oil reservoirs and/or sequestration system (geological or oceanic) have been included within the boundary of the reporting organization. Provide details, including degrees to which reservoirs are shared with other entities

OG4.6

Please explain who (e.g. the reporting organization) owns the transferred emissions and what potential liabilities are attached. In the case of sequestered emissions, please clarify whether the reporting organization or one or more third parties owns the sequestered emissions and who has potential liability for them

OG4.7

Please provide masses in metric tonnes of gross CO2 captured for purposes of carbon capture and sequestration (CCS) during the reporting year according to capture pathway. For each pathway, please provide a breakdown of the percentage of the gross captured CO2 that was transferred into the reporting organization and the percentage that was transferred out of the organization (to be stored)

Capture pathway in CCS	Captured CO2 (metric tonnes CO2)	Percentage transferred in	Percentage transferred out

OG4.8

Please provide masses in metric tonnes of gross CO2 injected and stored for purposes of CCS during the reporting year according to injection and storage pathway

Injection and storage pathway	Injected CO2 (metric tonnes CO2)	Percentage of injected CO2 intended for long-term (>100 year) storage	Year in which injection began	Cumulative CO2 injected and stored (metric tonnes CO2)
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OG4.9

Please provide details of risk management performed by the reporting organization and/or third party in relation to its CCS activities. This should cover pre-operational evaluation of the storage (e.g. site characterisation), operational monitoring, closure monitoring, remediation for CO2 leakage, and results of third party verification

Further Information

Page: OG5. Sales and emissions intensity - (1 Jul 2013 - 30 Jun 2014)

OG5.1

Please provide values for annual sales of the hydrocarbon types (in units of BOE) for the years given in the following table. The values required are aggregate values for the reporting organization. The values for the next reporting year are forward-looking estimates

Product	Sales (BOE) - Reporting year	Sales (BOE) - Next reporting year estimate

OG5.2

OG6.2

Please describe your future capital expenditure plans for different strategic development areas

Strategic development area	CAPEX	Total return expected from CAPEX investments	Comment

OG6.3

Please describe your current expenses in research and development (R&D) and future R&D expenditure plans for different strategic development areas

Strategic development area	R&D expenses – Reporting year	R&D expenses – Future plans	Comment

Further Information

Page: OG7. Methane from the natural gas value chain

OG7.1

Please indicate the consolidation basis (financial control, operational control, equity share) used to prepare data to answer the questions in OG7

Segment	Consolidation basis

OG7.1a

Please provide clarification for cases in which different consolidation bases have been used

OG7.2

Does your organization have written operating procedures and/or policies covering the reduction of methane leakage and venting?

OG7.2a

Please attach the relevant document(s) in the further information field or describe how the written procedures/policies cover these emissions sources

OG7.3

Please indicate the proportion of your organization's methane emissions inventory estimated using the following methodologies (+/- 5%)

Methodology	Proportion of total methane emissions estimated with methodology	What area of your operations does this answer relate to?
Direct detection and measurement		
Engineering calculations		
Source-specific emission factors (IPCC Tier 3)		
IPCC Tier 1 and/or Tier 2 emission factors		

OG7.3a

Do your operations include the production, gathering and processing stages?

OG7.3b

Please use the following table to report the proportion of your organization's natural gas production that is emitted into the atmosphere during production (differentiating if possible between production from hydraulically-fractured wells and non-hydraulically-fractured wells), gathering and processing

Stage	Estimate gas leaked or vented expressed as % of gas produced
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OG7.4

OG7.4: Does your organization participate in voluntary methane emissions reduction programs?

OG7.4a

Please describe your organization's participation in voluntary methane emissions reduction programs

OG7.5

Are reduced emission completions relevant to your operations?

OG7.5a

For natural gas wells that are hydraulically-fractured, please complete the table

What proportion of completions and work-overs in the reporting year used reduced emission completion technology for these wells?	If gas is not utilized via reduced emission completion technology, please explain if it is flared or vented	What area of your operations does this answer relate to?
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OG7.6

Is liquids unloading (de-watering) of natural gas wells relevant to your operations?

OG7.6a

For gas wells with liquids accumulation requiring venting into the atmosphere or some form of artificial liquids unloading, please complete the table

What proportion has technologies in place that reduce methane venting from the liquids unloading process?	If you wish, please add context to this figure	What area of your operations does this answer relate to?
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OG7.7

Does your organization have a program for identifying and replacing or retrofitting high-bleed rate pneumatic controllers powered by natural gas (i.e. controllers that vent more than 6 standard cubic feet per hour)?

OG7.7a

Please complete the table on high-bleed rate pneumatic controllers

What proportion of the organization's high-bleed controllers have been replaced with low-emission alternatives?	If you wish, please add context to this figure	What area of your operations does this answer relate to?
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OG7.8

Are natural gas compressors relevant to your operations?

OG7.8a

Please complete the table on natural gas compressors

What proportion of compressors, including those at the wellhead and in gathering and processing, are either reciprocating compressors or centrifugal compressors operating wet seals?	What proportion of these compressors is vented to the atmosphere?	What area of your operations does this answer relate to?
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OG7.8b

Please explain measures you are taking to reduce emissions from these sources

OG7.9

Is associated gas relevant to your organization?

OG7.9a

What is your organization's overall approach for dealing with associated gas in terms of its relative use of venting, flaring and capture (e.g. for sale, re-injection or use as a fuel)? Organizations may differentiate their approach between circumstances where there is/is not a market

OG7.9b

Outline the measures undertaken to reduce venting for example from tank and casing-head gas

Further Information

CDP