

Module: Introduction**Page: Introduction****CC0.1****Introduction**

Please give a general description and introduction to your organization.

Enerplus Corporation (Enerplus) has a diversified portfolio of oil and gas properties throughout Western Canada and the United States and produced an average of approximately 100,000 BOE/day, with 58% of the total production originating from natural gas, and 42% from crude oil and natural gas liquids throughout 2014.

Enerplus' enterprise value is currently estimated at CDN\$2,300,940,280. The head office is located in Calgary, Alberta, and the United States office is located in Denver, Colorado. Enerplus has twelve field offices located throughout British Columbia, Alberta, Saskatchewan, Montana and North Dakota. As of December 31, 2014, Enerplus employed a total of 726 people, including full-time benefit and payroll consultants.

Enerplus continuously improves the efficiency of its energy consumption, strives to reduce our greenhouse gas emissions intensity and provides resources, training and technology to meet our environmental objectives. We have several ongoing environmental initiatives in this regard, including:

- greenhouse gas reduction (GHG) initiatives through an Energy Performance Working Group
- site environmental inspection and audit program;
- facility energy efficiency audits;
- water management planning;
- waste management and waste reduction programs;
- fugitive emissions management program; and

- reclamation of disturbed landscapes to equivalent land capability.

Enerplus reports its key environmental and safety metrics as required as part of the Canadian Association of Petroleum Producers (CAPP) Responsible Canadian Energy (RCE) Program. Enerplus' support and participation in this program demonstrates its commitment to responsible resource development and to continuous improvement in environment, health and safety and social performance.

Enerplus also reports all of its air emissions, water use volumes and waste handling and disposal metrics as required by the regulatory agencies in the jurisdictions

that it operates. Quantitative data on GHG emissions and trends are disclosed annually through the CDP. Specific GHG regulations have been enacted on provincial, state and federal levels to facilitate reporting to the various voluntary and regulatory bodies and also provide publicly available data on our impacts.

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 |
|--------------------------------------|
| Wed 01 Jan 2014 - Wed 31 Dec 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 |
|--------------------------|
| United States of America |

Select country

Canada

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.

CAD (\$)

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

Attachments

[https://www.cdp.net/sites/2015/24/5624/Climate Change 2015/Shared Documents/Attachments/ClimateChange2015/CC0.Introduction/2014++Annual+Information+Form-Final.pdf](https://www.cdp.net/sites/2015/24/5624/Climate%20Change%202015/Shared%20Documents/Attachments/ClimateChange2015/CC0.Introduction/2014++Annual+Information+Form-Final.pdf)

Module: Management

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

The Board of Directors Safety and Social Responsibility (S&SR) Committee is a committee established by the Enerplus' Board of Directors to assist the Board in carrying out its responsibilities with respect to the development and implementation of an effective S&SR management system, to ensure that Enerplus' activities are planned and executed in a safe and responsible manner, and to ensure there are adequate systems in place to support safety and environmental management, regulatory compliance, emergency response plans, and stakeholder engagement activities. The S&SR Committee reviews the Corporation's performance related to S&SR semi-annually and ensures that long-range preventative programs are in place to limit or mitigate future liability. The S&SR Committee is comprised of at a minimum of three independent Board of Director members which are appointed annually following the annual general meeting of the Corporation. The Enerplus Chief Executive Officer is responsible for Board Liaison. The S&SR Board Committee Chairman presents verbal and/or written reports regarding the Corporation's S&SR performance, Committee meetings and discussions at scheduled meetings of the Board of Directors

CC1.2

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

Yes

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 |
|---|------------------------|---|---|
| Chief Executive Officer (CEO) | Monetary reward | Emissions reduction project Energy reduction project Efficiency project Behaviour change related indicator | The Corporation sets annual goals to improve its Safety and Social Responsibility performance. For example, greenhouse gas emissions reductions are expected through a specific target for the execution of a number of energy performance improvement projects. Also energy performance audits are completed to identify improvement opportunities across the company. |
| Executive officer | Monetary reward | Emissions reduction project Energy reduction project Efficiency project | The Corporation sets annual goals to improve its Safety and Social Responsibility performance. For example, greenhouse gas emissions reductions are expected through a specific target for the execution of a number of energy performance improvement projects. Also energy performance audits are completed to identify improvement opportunities across the company. |
| Business unit managers | Monetary reward | Emissions reduction project Energy reduction project Efficiency project | The Corporation sets annual goals to improve its Safety and Social Responsibility performance. For example, greenhouse gas emissions reductions are expected through a specific target for the execution of a number of energy performance improvement projects. Also energy performance audits are completed to identify improvement opportunities across the company. |
| Facility managers | Monetary reward | | The Corporation sets annual goals to improve its Safety and Social Responsibility performance. For example, greenhouse gas emissions reductions are expected through a specific target for the execution of a number of energy performance improvement projects. Also energy performance audits are completed to identify improvement opportunities across the company. |
| Environment/Sustainability managers | Monetary reward | Emissions reduction project Energy reduction project Efficiency project | The Corporation sets annual goals to improve its Safety and Social Responsibility performance. For example, greenhouse gas emissions reductions are expected through a specific target for the execution of a number of energy performance improvement projects. Also energy performance audits are completed to identify improvement opportunities across the company. |
| All employees | Monetary reward | Emissions reduction project Energy reduction project | The company recognizes energy performance improvements and greenhouse gas emission management initiatives through a variety of internal and external communications such as, the Corporate website, employee intranet site, and stakeholder engagement communication materials. In addition, employees participating an energy performance survey were |

| Who is entitled to benefit from these incentives? | The type of incentives | Incentivized performance indicator | Comment |
|---|------------------------|------------------------------------|--|
| | | Efficiency project | recognized through cash incentives for their participation. The company also hosts an annual Technical Forum where innovative ideas to improve performance are presented. The Corporation sets annual goals to improve its Safety and Social Responsibility performance. |

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 | All facilities in US and Canada | 3 to 6 years | Risks to increased GHG and Fugitive emissions are identified and managed within our environmental management system where environmental aspects which do or can have significant impacts on the environment, including flaring, venting and air emissions are identified and managed within our facility designs of |

| Frequency of monitoring | To whom are results reported? | Geographical areas considered | How far into the future are risks considered? | Comment |
|-------------------------|-------------------------------|-------------------------------|---|---|
| | | | | new builds and through our Fugitive Emissions Management Program and our Greenhouse Gas Management Program. These aspects are then used in consideration of future corporate or site-specific objectives and targets. |

CC2.1b

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

Risk and opportunities are identified at both company and asset level

At the company level, senior management and staff identify site-specific risks and opportunities through internal and external site inspections and audits. The results are documented in our corporate database Sustainability Information Management System (SIMS) and rolled up to both the asset and company levels. SIMS tracks and manages corrective actions and compliance issues associated with environmental aspects and risks in a transparent, effective manner with timelines and direct accountability.

Annual internal and third party Risk Assessments are completed that identify climate related risks and opportunities. These assessments include climate risks to and from Enerplus', such as:

- Forest and grass fires
- Flooding (identification of flood risks)
- Windstorm exposures
- Earthquakes
- Fugitive emissions
- Flaring events
- Venting
- Fuel gas use reductions at facilities
- Electrical and energy draws and efficiencies
- Vapour recovery units
- Refrigeration

Site-specific inspections occur regularly by our field operations staff and audits are conducted by internal regulatory and environmental staff with a predetermined schedule. Larger facilities are inspected at least once per year and approximately eight extensive audits are scheduled annually. Approximately 15 to 20 audits are conducted each year by an external third party. The results are recorded within SIMS and are reported company-wide and are available to any staff member that accesses the online system. Additionally, the Manager - S&SR regularly reviews the SIMS results and communicates the results at regular meeting of the Health,

Safety, Regulatory and Environment Action and Steering committees.

CC2.1c

How do you prioritize the risks and opportunities identified?

Enerplus prioritizes its identified risk and opportunities through a formal risk assessment process that is a documented systematic review of potential risks, their effects and likelihood. Enerplus' uses a Process Hazard Assessment (PHA) that is a systematic and organized approach to identifying, evaluating and controlling risks. These risks may be associated with events such as fires, explosions, toxic releases due to equipment failures, design errors, natural causes, or human error (e.g., H2S/SO2 exposures, LEL, benzene, NORM's, noise, heat, pressure). The Risk Assessment Matrix is used to identify each risk and to assess the risk with consideration of the severity or potential loss and the likelihood or probability of the risk to people, property, production (e.g., emissions), and environment (e.g., sound, lighting, heat, cold, ventilation, radiation). The potential risk exposure for people, property, production and environment is determined through the matrix. A risk score of one (low) to five (high) is assessed for each category and then a risk ranking is determined.

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

(i) Enerplus' business strategy is influenced by the discussions and commitments set forth at the Board of Directors Safety and Social Responsibility (S&SR) Committee, the S&SR Steering Committee and the Health, Safety, Regulatory and Environment Action Committee and the Environment and Sustainability Team. We have a strong value of corporate social responsibility and strive to continue to improve our governance and transparency in this area. We report our environmental performance, including GHG emissions, in our Annual Information Form, the Management and Discussion and Analysis, and voluntarily through the CDP, and the Canadian Association of Petroleum Producers Responsible Canadian Energy Stewardship Program.

The Enerplus Board of Directors, leadership, and employees, are committed not only to conducting all of our activities consistent with the environmental regulations that govern the oil and gas industry within each of our operating jurisdictions, but to proactively mitigate our impact on the environment. Our Environment Policy mandates that Enerplus' will "mitigate gas flaring and venting and work to improve the efficiency of our energy consumption and reduce greenhouse gas emissions intensity".

Enerplus' has recognized the need to integrate climate change issues into our business strategy and as a result, we have committed to engaging our internal stakeholders on such issues and ensuring that all of our activities and operations are conducted in compliance with relevant and applicable regulations and with good industry practice. The business strategy is also influenced through Enerplus' Energy Performance Working Group which is directed by a Steering Committee comprised of Executives and Senior Managers.

With respect to management of climate change risks at the operational level, Enerplus has avoidance and mitigative measures in place for the reduction of exposure to and contribution to fugitive emissions, flaring/venting, fuel gas use reductions at facilities, electrical and energy draws and efficiencies, the recovery of vapours during processing. These measures include Standards, Procedures or Process Hazard Assessment with follow through to the Management of Change Process.

(ii) Aspects of climate change that have influenced this strategy are related to regulatory and operational risk mitigation, improvements in energy performance, and value to various internal and external stakeholders.

(iii) Enerplus' has several environmental initiatives and programs; many of which either directly or indirectly affect our GHG inventory. Over the past three years, internal communication and collaboration between business unit functional groups has increased to better understand the GHG inventory, and the parameters in which we can target to reduce GHG emissions. One such change in business processes that occurred in 2014 that affects the GHG inventory is to consider equipment selection from an efficiency and GHG mitigation perspective in the design and construction of new facilities and retrofitting existing facilities (e.g., upgrading flare systems to achieve better combustion efficiency). In addition, we have refined a key information database used to track fugitive emissions information.

(iv) On a longer term scale (i.e., 5 to 10 years) we are continually increasing the accuracy of our data collection systems used to calculate the GHG emissions inventory and to implement, monitor and track the effectiveness of reduction initiatives towards proactively reducing our direct GHG emission intensity. This data accuracy initiative will be driven by the anticipated carbon regulatory requirements.

(v) The importance of these changes to the business strategy as it relates to climate change is to bring focus and drive value from implementing energy performance initiatives that consider GHG reductions and to help strengthen communication and action on climate change issues both for our internal and external

stakeholders including shareholders. Additionally, reducing operational costs through energy performance initiatives will deliver financial value to our shareholders and engage our employees.

(vi) Substantial business decisions such as the creation of the internal Energy Performance Working group is highly valuable in creating focused efforts in implementing projects that will drive reductions in the GHG emissions intensity and create long term changes in how new construction or equipment retrofit decisions are made going forward.

The most significant business decision in 2014 was a company initiative to focus on its four core asset areas and non-core divestment strategy. The non-core divestments often included the divestment of less efficient infrastructure that had an influence on our GHG emission intensity. Over the longer-term (i.e., 1 to 5 years), Enerplus will continue its divestment strategy until its focus is 100% on its core assets, where new and upgraded infrastructure will be implemented.

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, but we 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
 Funding research organizations

CC2.3a

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

| Focus of legislation | Corporate Position | Details of engagement | Proposed legislative solution |
|-------------------------|--------------------|---|---|
| Clean energy generation | Support | Members of two energy efficiency/ sustainability initiatives through the Petroleum Technology Alliance of Canada and through CAPP | Working with the federal government through these associations to provide support in defining regulations for emissions from combustion sources (BLIERS). |

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? |
|---|--|--|---|
| North American Environmental Management | Consistent | Greenhouse Gas reduction is an ongoing priority for companies that want to be environmental and sustainability leaders. Members develop strategies for measuring, managing and reducing emissions. NAEMs | Enerplus' has seven employees that actively participate in NAEMs leadership, policy positions and events. Our Manager of Safety |

| 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? |
|---|--|--|---|
| (NAEM) | | solicit feedback and participation in the coordination of policy and compliance reviews. Members also are connected to the largest community of EHS and Sustainability decision-makers through peer-led educational conferences and a private, online knowledge-sharing network. | and Social Responsibility sits on the Board of Directors and the Board of Regeants for NAEMs. |
| Canadian Heavy Oil Association | Consistent | To support the Canadian Heavy Oil community in providing a sustainable energy source for the worlds energy needs. The CHOA provides collective member position papers on climate issues. | Our Manager of Safety and Social Responsibility is the President of this Association. |
| CAPP Environment Executive Policy Group | Consistent | Promote Climate policy / GHG regulation being underpinned by competitiveness and technology and innovation considerations, and aligned with a broader national policy framework. Alberta has a sound framework in place for GHG regulation. The federal regulations for the oil and gas sector should build on this foundation and be developed in a manner that addresses the competitiveness of the Canadian oil and gas sector and be compatible with the final form of the Air Quality Management System (AQMS). | Enerplus actively participates in EPG meetings and provides effective feedback for new policies and regulations are relevant, forward thinking and sustainable .Our CEO is a part of the board of Governors for CAPP. |
| CAPP Air Regulatory Committee | Consistent | This committee's purpose is to actively monitor, engage in and influence air initiatives affecting the oil and gas industry, and to prioritize and establish air strategies for the CAPP membership. | Enerplus actively participates in EPG meetings and provides effective feedback for new policies and regulations are relevant, forward thinking and sustainable. |
| CAPP Environment Executive Policy Group | Consistent | The Environment EPG addresses CAPP federal and inter-governmental environmental and regulatory policy issues for the upstream oil and gas industry. | Enerplus actively participates in EPG meetings and provides effective feedback for new policies and regulations are relevant, forward thinking and sustainable. |
| Fuel Gas Efficiency Benchmark group | Consistent | This committee is responsible for communicating and monitoring fuel gas efficiency/usage in Alberta and supporting the implementation of efforts to improve fuel gas efficiency and reduce fuel gas consumption. | Enerplus actively participates in EPG meetings and provides effective feedback for new policies and regulations are relevant, forward thinking and sustainable. |
| Alberta Executive Policy Group | Consistent | This EPG addresses Alberta environmental and regulatory policy issues for the Upstream Oil and Gas Industry in the province. | Enerplus actively participates in EPG meetings and provides effective feedback for new policies and regulations are relevant, forward thinking and sustainable. |

CC2.3d

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

Yes

CC2.3e

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

No

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?

Enerplus participates with Canadian Association of Petroleum Producers (CAPP) on the Environment Executive Policy Group for Alberta, British Columbia and Saskatchewan –and Environment, Aboriginal Affairs and Communication Executive Policy Groups (EPGs) and on various working committees including the Climate Change Working Group and the National Air Issues Committee. Enerplus' participation in regular CAPP committee and working group meetings allows us the opportunity to dialogue with various levels of governments and agencies (e.g., Environment Canada, Alberta Energy Regulator (AER), Alberta Energy Resources, British Columbia Ministry of Environment, and Saskatchewan Ministry of Environment) to shape the regulatory framework for climate change. Along with participating in regular meetings, we actively provide verbal and written feedback to regulators primarily through CAPP groups on new regulation or proposed changes to existing regulations. In addition, for our U.S. business unit, we join with state, regional and federal trade associations to engage and advocate for air emissions regulatory clarity. Feedback received and provided on changing climate regulations is coordinated through the Energy Performance Working Group within Enerplus where

input is solicited from Executives, Facility Engineers, leadership in Operations and members from the Environment and Sustainability Team. This approach ensures that all effectual employees within Enerplus are engaged and contribute to the overall climate strategy.

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)

An effective agreement would be one that would leverage innovation and energy efficiency measures and make carbon cycles work with energy generation. Enerplus uses its Energy Performance Working Group as its driver to deliver energy efficiency, improved air, water, soil, and a long term sustainable vision for the company.

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?

No

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 |
|----|-------|-------------------------|----------------------------|-----------|--|-------------|---------|
|----|-------|-------------------------|----------------------------|-----------|--|-------------|---------|

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 |
|----|-------|-------------------------|----------------------------|--------|-----------|--------------------------------|-------------|---------|
|----|-------|-------------------------|----------------------------|--------|-----------|--------------------------------|-------------|---------|

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 |
|----|---|--|---|--|---------|
|----|---|--|---|--|---------|

CC3.1d

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

| ID | % complete (time) | % complete (emissions) | Comment |
|----|-------------------|------------------------|---------|
| | | | |

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

(i) Enerplus does not have a specific emissions reduction target due to the alignment with the reporting deadlines of other corporate metrics and the lag time associated with GHG data. For example, corporate metrics are normally reported in January to the Board of Directors for the year prior while the full data set to calculate GHG emissions is not normally available until early February with additional time needed for calculations and validation. The timing of corporate metrics is aligned with the employee compensation cycle. Discussions are underway to determine a Corporate GHG target that would allow us to meet the timing and GHG strategy objectives to reduce emissions year over year.

(ii) If GHG calculation methodologies and boundaries are constant over the next 5 years and there are no significant divestment or acquisition activities during that time, Enerplus is currently forecasting a base case GHG emissions to decrease from a peak in 2015. This will largely in part to increased efforts for Energy efficiency projects and the strengthening of the Energy Performance Working Group. The vision for this group is to make Enerplus a leader in sustainability in Oil and Gas.

CC3.2

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

No

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

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 | 25 | 2578 |
| To be implemented* | | |
| Implementation commenced* | | |
| Implemented* | 22 | 3078 |
| Not to be implemented | | |

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 |
|-------------------------------|---|--|---------|----------------------|---|---|----------------|--------------------------------------|--|
| Fugitive emissions reductions | Repaired 61 Scope 1 leak and vent fugitive emissions. In parts of our operations, this program is a regulatory requirement while in other jurisdictions, we voluntarily run this program. This is an ongoing initiative with inspections from 3rd parties occurring once per year at each designated facility | 3078 | Scope 1 | Voluntary | 27748 | 10000 | <1 year | Ongoing | This is an ongoing process and will continue to reduce fugitive emissions as detected. |
| | | | | | 14098 | 0 | <1 year | Ongoing | Number is a conservative estimation based on fuel saved. These will be permanent measures to save fuel gas. Candidate facilities will continue to be identified. |

CC3.3c

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

| Method | Comment |
|---|--|
| Employee engagement | The Energy Performance Working Group provides all employees with a channel to suggest energy efficiency and environmental improvement opportunities. Communication is performed by e-mail, intranet, presentations and lunch and learns. |
| Financial optimization calculations | Employees from across many business units within Enerplus' are members of the Energy Performance Working Group. These members are always working to find projects that reduce emissions and provide an ROI for Enerplus. |
| Internal incentives/recognition programs | A sustainability screening tool and economics evaluator looks at projects that can reduce emissions and will consider sustainability attributes along with economics for project implementation . Energy Efficiency audits are also performed in order to find opportunities at all different sites and to provide a different perspective on how to identify opportunities. |
| Compliance with regulatory requirements/standards | Compliance with regulatory standards is vital to Enerplus and investments are made consistently in order to ensure and surpass regulatory standards for all the applicable provincial, state and federal regulations in place. |

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 | Complete | 37/38. Supplemental Operational | |

| Publication | Status | Page/Section reference | Attach the document |
|--------------------|--------|------------------------|---------------------|
| the CDSB Framework | | Information | |

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 |
|-------------|-------------|------------------|-----------|-----------------|------------|---------------------|----------------------------------|-------------------|--------------------|
| Carbon | The British | Increased | 1 to 3 | Direct | Likely | Low- | Enerplus has paid a | Enerplus has | The cost |

| Risk driver | Description | Potential impact | Timeframe | Direct/ Indirect | Likelihood | Magnitude of impact | Estimated financial implications | Management method | Cost of management |
|-------------|---|------------------|-----------|------------------|------------|---------------------|--|--|---|
| taxes | <p>Columbia tax on natural gas and oil production and fuels purchased to support this production, is a current and ongoing liability of our B.C. operations as the tax rates rise annually. While we do not currently have a significant amount of production relative to our portfolio in B.C., we do have plans for growth in the province and the carbon tax is a consideration of the operational costs associated with new plays. The government of British Columbia is moving towards a cap and trade system although this has been delayed. The allocation of emission allowances below actual emissions and the need to</p> | operational cost | years | | | medium | <p>significant amount in carbon taxes in British Columbia. In 2014, we paid approximately \$813,008 in carbon taxes and we expect this figure to increase slightly over time with the same facility portfolio in BC as the tax rates increase . There is also the possibility of new taxes bein implemented in other jursidictions we operate in, or reaching emissions thresholds in locations such as Alberta.</p> | <p>paid a significant amount in carbon taxes in British Columbia. In 2014, we paid approximately \$813,008 in carbon taxes and we expect this figure to increase slightly over time with the same facility portfolio in BC as the tax rates increase .</p> | <p>associated with these actions is dependent on the specific initiative chosen but could range from a small equipment optimization project (e.g., \$50,000) to a larger scale project such as the electrification of a particular field (e.g., millions of dollars).</p> |

| Risk driver | Description | Potential impact | Timeframe | Direct/ Indirect | Likelihood | Magnitude of impact | Estimated financial implications | Management method | Cost of management |
|--------------------------------|---|----------------------------|--------------|------------------|------------|---------------------|--|---|---|
| | purchase offsets or credits is a risk to Enerplus' and this would increase operational and capital costs (e.g., retrofitting equipment). | | | | | | | | |
| Cap and trade schemes | The government of British Columbia is moving towards a cap and trade system although this has been delayed. The allocation of emission allowances below actual emissions and the need to purchase offsets or credits is a risk to Enerplus' and this would increase operational and capital costs (e.g., retrofitting equipment). | Increased capital cost | 1 to 3 years | Direct | Likely | Low-medium | It is unknown what the financial implication of the BC Cap and Trade system will be as the government has not yet released information regarding emission allowances and compliance mechanisms | To manage this risk, Enerplus' currently participates with CAPP on the Climate Change Working Group and provides written and verbal feedback on developments towards the BC Cap and Trade model | There is reporting and verification costs associated with the BC GHG regulations but no costs specific to the Cap and Trade system at this time |
| Emission reporting obligations | As emission reporting obligations become more complex and detailed, Enerplus' may be required to spend more | Increased operational cost | 1 to 3 years | Direct | Likely | Low-medium | As emission reporting obligations become more complex, Enerplus will need to increase staff resources and may | Depending on the type of data and the level of detail required, this cost may be significant but it remains unknown | Depending on the type of data and the level of detail required, this cost may be significant but it remains unknown |

| Risk driver | Description | Potential impact | Timeframe | Direct/ Indirect | Likelihood | Magnitude of impact | Estimated financial implications | Management method | Cost of management |
|-------------|--|------------------|-----------|------------------|------------|---------------------|---|--|--|
| | resources and operational expenses in the collection of GHG data (including metering and measuring), and analytical data used in calculations. This may significantly increase the administrative burden to Enerplus and this risk is considered in the alignment of staff and systems management. | | | | | | need to increase the accuracy of data collection technologies. Depending on the type of data and the level of detail required, this cost may be significant but it remains unknown until there is regulatory certainty in particular jurisdictions in which we operate. | until there is regulatory certainty in particular jurisdictions in which we operate. | until there is regulatory certainty in particular jurisdictions in which we operate. |

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 mean (average) temperature | In some of the areas in which we operate, we depend on cold conditions | Increased operational cost | Up to 1 year | Direct | About as likely as not | Low | It is unknown what the financial implication of the changes in mean | To manage this risk, Enerplus may be required to manage a more | There are no costs associated with this risk |

| Risk driver | Description | Potential impact | Timeframe | Direct/ Indirect | Likelihood | Magnitude of impact | Estimated financial implications | Management method | Cost of management |
|---|--|----------------------------|--------------|---------------------|------------|---------------------|--|--|--|
| | to allow for vehicular access to our sites via ice roads. Increasing temperatures can reduce the length of time in frozen conditions which will limit winter access to some of our sites | | | | | | temperature will be on our operations as both the weather and activity level of the particular field will change on a daily basis. However, it is expected that operational costs would increase significantly as we access the sites differently and within a more constrained access schedule. | constrained schedule for service, drilling and completions activities on applicable sites. Additionally, Enerplus may have to provide increased use of other methods of transport to the sites including, for example, the use of helicopters. | at this time. |
| Change in precipitation extremes and droughts | Extreme weather conditions such as flooding and drought from extreme changes in precipitation is a risk to Enerplus' operations. Flood conditions prevent access to our sites for normal operation or drilling and completion activities. Additionally, droughts can lead to conditions conducive to wildfires and this is | Increased operational cost | Up to 1 year | Direct | Likely | Low | It is unknown what the financial implication of the changes in precipitation extremes and droughts will be on our operations as both the weather and activity level of the particular field will change on a daily basis. | To manage this risk, Enerplus' will have to manage a more constrained schedule for service, drilling and completions activities on sites if applicable. Additionally, Enerplus has diligently updated Emergency Response Plans and is continually training corporate and field staff on emergency response | There are no costs associated with this risk at this time. |

| Risk driver | Description | Potential impact | Timeframe | Direct/ Indirect | Likelihood | Magnitude of impact | Estimated financial implications | Management method | Cost of management |
|-------------|--|------------------|-----------|---------------------|------------|---------------------|----------------------------------|-------------------|--------------------|
| | a significant health and safety risk for our operations. | | | | | | | procedures | |

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 | Increasing costs related to the mitigation or adaptation of climate change could impact consumer demand for petroleum products. This is a risk to Enerplus as we may need to adapt our natural gas and oil relative ratio production amounts to reflect changing consumer demand. | Reduced demand for goods/services | Up to 1 year | Direct | Likely | Low-medium | It is unknown what the financial implication of the changes in consumer behaviour will be as it relates to climate change and petroleum product demand. | To manage this risk, Enerplus has formed an internal Energy Performance Working Group that is committed to generating viable Energy Performance initiatives as well as increasing communication both internally and externally to our stakeholders. | There are no costs associated with this risk at this time. |
| Reputation | There is general investor concern around GHGs and | Reduced stock price (market valuation) | Up to 1 year | Direct | Likely | Low-medium | It is unknown what the financial | To manage this risk, Enerplus has formed an internal | There are no costs associated |

| Risk driver | Description | Potential impact | Timeframe | Direct/ Indirect | Likelihood | Magnitude of impact | Estimated financial implications | Management method | Cost of management |
|-------------|--|------------------|-----------|------------------|------------|---------------------|--|--|------------------------------|
| | the oil and natural gas industry as contributors to the global climate change issue. Enerplus has several programs and initiatives in place to manage GHG data and sources as well as to reduce GHG emissions intensity, but general investor concern in this area remains a source of climate change related risk for Enerplus. | | | | | | implication of reputational risk related to climate change is. | Energy Performance Working Group that is committed to generating viable Energy Performance initiatives as well as increasing communication both internally and externally to our stakeholders. | with this risk at this time. |

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 regulation

Opportunities driven by changes in physical climate parameters

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 |
|--------------------------------|--|--|--------------|-----------------|-------------------|---------------------|--|--|---|
| Emission reporting obligations | Emission reporting obligations have increased in the number and complexity over the last several years. This has prompted Enerplus' to invest more time and funds in a comprehensive data management system. This action has enabled increased internal awareness of climate change regulations and risks as well as transparency in data management and calculations. | Other: Increased data quality and internal stakeholder engagement | Up to 1 year | Direct | Virtually certain | Medium-high | Financial benefits derived from opportunities related to emission reporting obligations are not explicit and we are unable to estimate at this time. However, due to the various reporting requirements and the level of engagement necessary to complete these reports, there has been a large amount of interest from various employees to participate in the internal energy performance working group where data generated from these obligations analysed and opportunities for | Enerplus continues to ensure a high level of quality assurance and checks with regard to emissions data management. This allows for regular engagement with internal employees regarding regulatory changes and preparedness. In addition, as stated above, there has been a large amount of interest from various employees in participating in the energy performance working group to help drive improvement. | Not including internal staff time, maintaining the emissions database and producing emission reports costs approximately \$85,000 annually. |

| Opportunity driver | Description | Potential impact | Timeframe | Direct/Indirect | Likelihood | Magnitude of impact | Estimated financial implications | Management method | Cost of management |
|--------------------|---|---------------------------|--------------|-----------------|-------------------|---------------------|---|--|---|
| | | | | | | | improvement are identified. | | |
| Carbon taxes | Being taxed on purchased fuels in BC has prompted Enerplus' to improve fuel gas management and to look at ways in which we can reduce purchased fuel amounts or business vehicle travel. One such example is investigating the feasibility of co-generation of electricity on site. We have also replaced our truck fleet vehicles across the company to vehicles that consume less fuel. | Reduced operational costs | Up to 1 year | Direct | Virtually certain | Low-medium | The financial benefit of generating electricity on sites in BC with a micro-turbine as opposed to utilizing fuel gas has not been quantified at this time as market conditions have changed and this project is still under consideration. However, implementing the change of the fleet vehicles has saved a significant amount of fuel cost for our operations. | Enerplus continues to look for opportunities across all operations to improve energy performance especially in areas where carbon taxes are increasing operational costs. Through the energy performance working group, we now have a systemized approach to identify, evaluate, implement and track energy performance initiatives. | There was a reduction in the cost of securing ½ ton trucks as opposed to ¾ ton trucks but this quantification isn't currently available |

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 |
|--------------------------------|---|---|--------------|------------------|------------------------|---------------------|--|---|--|
| Change in temperature extremes | Increased intensity and frequency of weather related issues could disrupt global supply sources and increase the value and demand of Enerplus' oil and gas production in U.S. and Canada. | Increased demand for existing products/services | Up to 1 year | Direct | About as likely as not | Medium | Enerplus continues to look for opportunities across all operations to improve energy performance especially in areas where carbon taxes are increasing operational costs. Through the energy performance working group, we now have a systemized approach to identify, evaluate, implement and track energy performance initiatives. | Given this macro-scale scenario, Enerplus does not currently manage this potential opportunity. | There are zero costs associated with this potential opportunity. |

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 | Enerplus is | Wider | Up to 1 | Direct | Very likely | Medium- | Enerplus cannot | To manage this | It is difficult to |

| Opportunity driver | Description | Potential impact | Timeframe | Direct/ Indirect | Likelihood | Magnitude of impact | Estimated financial implications | Management method | Cost of management |
|--------------------|---|------------------|-----------|------------------|------------|---------------------|--|---|--|
| | committed to the responsible development of energy resources in a way that ensures the health and safety of our workers, respects the environment, and builds positive, long-term relationships in the community. Increased awareness, communication and engagement in GHG emissions management and energy performance is received positively by our stakeholders and continues to improve Enerplus' social license to operate. | social benefits | year | | | high | quantify the financial benefits from an enhanced reputation at this time however, it is recognized that the benefits from this opportunity may include enhanced employee engagement and retention, enhanced social license to operate, and value back to our shareholders. | opportunity, Enerplus is committed to continually improving both internal and external communication on all environmental initiatives including that of climate change. Last year, we over hauled our entire website to be more user friendly and to include more comprehensive materials regarding safety and social responsibility. | provide costs associated with these actions as this is mostly related to the time and dedication of many individual employees and teams at Enerplus. |

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

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 | Fri 01 Jan 2010 - Thu 31 Dec 2015 | 486275 |

| Scope | Base year | Base year emissions (metric tonnes CO2e) |
|---------|-----------------------------------|--|
| Scope 2 | Fri 01 Jan 2010 - Thu 31 Dec 2015 | 192847 |

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

ISO 14064-1

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 | IPCC Fifth Assessment Report (AR5 - 100 year) |
| CH4 | IPCC Fifth Assessment Report (AR5 - 100 year) |
| N2O | IPCC Fifth Assessment Report (AR5 - 100 year) |

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 |
|----------------------|-----------------|----------------------------|--|
| Electricity | | metric tonnes CO2e per MWh | ISO 14064-1 standard for our sampling and inventory, as well as for emission factors and estimates |
| Natural gas | | metric tonnes CO2e per m3 | ISO 14064-1 standard for our sampling and inventory, as well as for emission factors and estimates |
| Propane | | metric tonnes CO2e per m3 | ISO 14064-1 standard for our sampling and inventory, as well as for emission factors and estimates |
| Diesel/Gas oil | | | ISO 14064-1 standard for our sampling and inventory, as well as for emission factors and estimates |

Further Information

The specific calculation methodologies are taken from the American Petroleum Institute (API) Compendium (2009) as well as the CAPP guide for Calculating Greenhouse Gas Emissions (2003) and the CAPP National Inventory Publication that was produced by Clearstone Engineering (2004). The U.S. GHG values were calculated using the U.S. Environmental Protection Agency GHG reporting rule methodology

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

858929

CC8.3

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

224710

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 |
|---|---|--|---|
| Diesel/propane combustion emissions from drilling/completions activities outside of British Columbia. | Emissions are not evaluated | Emissions are not evaluated | Except for facilities located in British Columbia and in the United States, diesel and propane combustion data for drilling and completions activities is not available in our current data tracking systems. |

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 5% but less than or equal to 10% | Data Gaps Assumptions Metering/ Measurement Constraints Data Management Other: Published Emission Factors | In addition to methodological uncertainty in calculating GHG emissions, there can also be gaps in the data due to recent acquisitions or the investment in new, more efficient equipment. Also, the fugitive and venting emissions remain a source of uncertainty as these volumes are often engineer estimates from equipment specifications rather than metered flows. Emission factors may change due to the gathering of increasingly accurate scientific data. Significant changes to emission factors will change the overall CO2e footprint of Enerplus' operations and as such, Enerplus strives to maintain a consistent approach in calculating GHG emissions. However, as Provincial, State and Federal regulations on climate change are adopted Enerplus will comply with the methodology outlined in the specific jurisdiction to calculate GHG emissions. |
| Scope 2 | Less than or equal to 2% | Metering/ Measurement Constraints | There can be some estimation required in Scope 2 emissions as the electrical consumption data may be metered at one location but consumed at several locations elsewhere. Additionally, there can be divisions necessary for non-operated and operated electrical consumption data on the same pad with one meter station. |

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/2015/24/5624/Climate Change 2015/Shared Documents/Attachments/CC8.6a/rpt_fnl_2014_enerplus_20150525.pdf | Verification Statement for 2014, Pg1-13 | ISO14064-3 | 5 |

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 (%) |
|-----------------------------------|----------------------|------------------------|-------------------|---|
| | | | | |

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 Jan 2014 - 31 Dec 2014)

CC9.1

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

Yes

CC9.1a

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

| Country/Region | Scope 1 metric tonnes CO2e |
|--------------------------|----------------------------|
| Canada | 337619 |
| United States of America | 521310 |

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) |
|--------------------------|---|
| British Columbia, Canada | 46428 |
| Alberta, Canada | 203769 |
| Saskatchewan, Canada | 87422 |
| Montana, USA | 72610 |
| North Dakota, USA | 448701 |

CC9.2b

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

| Facility | Scope 1 emissions (metric tonnes CO2e) | Latitude | Longitude |
|-----------------|---|-----------------|------------------|
|-----------------|---|-----------------|------------------|

CC9.2c

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

| GHG type | Scope 1 emissions (metric tonnes CO2e) |
|----------|--|
| CO2 | 626379 |
| CH4 | 231205 |
| N2O | 1338 |

CC9.2d

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

| Activity | Scope 1 emissions (metric tonnes CO2e) |
|----------|--|
|----------|--|

CC9.2e

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

| Legal structure | Scope 1 emissions (metric tonnes CO2e) |
|-----------------|--|
|-----------------|--|

Further Information

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) |
|--------------------------|----------------------------|--|--|
| Canada | 228589 | 271602 | 0 |
| United States of America | 16121 | 33720 | 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) |
|--------------------------|---|
| British Columbia, Canada | 0 |
| Alberta, Canada | 205496 |
| Saskatchewan, Canada | 32385 |
| Montana, USA | 28352 |
| North Dakota, USA | 5369 |

CC10.2b

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

| Facility | Scope 2 emissions (metric tonnes CO2e) |
|-----------------|---|
|-----------------|---|

CC10.2c

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

| Activity | Scope 2 emissions (metric tonnes CO2e) |
|-----------------|---|
|-----------------|---|

CC10.2d

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

| Legal structure | Scope 2 emissions (metric tonnes CO2e) |
|-----------------|--|
|-----------------|--|

Further Information

Page: CC11. Energy

CC11.1

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

More than 10% but less than or equal to 15%

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 | 738212 |
| Electricity | 271601 |
| Heat | 0 |
| Steam | 0 |
| Cooling | 0 |

CC11.3

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

| Fuels | MWh |
|----------------|--------|
| Propane | 9317 |
| Diesel/Gas oil | 124167 |
| Natural gas | 604729 |

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 | | No purchases or generation of low carbon electricity, heat steam or cooling. |

Further Information

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?

Increased

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 | 3.19 | Decrease | Decreased fuel use in Canadian operations and increased operational efficiency. |
| Divestment | | | |
| Acquisitions | | | |
| Mergers | | | |
| Change in output | 36 | Increase | Increased production and flaring volumes in American operations. Gas processing capacity was limited in the geographical areas Enerplus operates in, and it is expected that flaring emissions will decrease due to efforts in increasing associated gas volume processing and sales (instead of flaring it) |
| Change in methodology | | | |
| Change in boundary | | | |
| Change in physical operating conditions | | | |
| Unidentified | | Decrease | Energy efficiency projects that are known to have caused emissions reductions, but that cannot be properly quantified. These projects will be quantified moving forward. |
| 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 |
|------------------|------------------|--------------------|-----------------------------|--|-------------------|
|------------------|------------------|--------------------|-----------------------------|--|-------------------|

| Intensity figure | Metric numerator | Metric denominator | % change from previous year | Direction of change from previous year | Reason for change |
|------------------|--------------------|--------------------|-----------------------------|--|---|
| | metric tonnes CO2e | unit total revenue | | N/A | Cannot provide metric as it is difficult to match total revenue to the boundaries of the GHG Inventory due to the presence of both operated and non-operated assets that produce volumes. |

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 |
|------------------|--------------------|--------------------|-----------------------------|--|--|
| 1520 | metric tonnes CO2e | FTE employee | 27 | Increase | Intensity increased due to increase in emissions in operations in the U.S. |

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 |
|------------------|------------------|--------------------|-----------------------------|--|--|
| 0.0504 | metric tonnes | unit of | 33 | Increase | There was an increase in intensity as our scope 1 emissions in |

| Intensity figure | Metric numerator | Metric denominator | % change from previous year | Direction of change from previous year | Reason for change |
|------------------|------------------|--------------------|-----------------------------|--|---|
| | CO2e | production | | | the U.S. increased due to increased production and flaring. |

Further Information

Page: CC13. Emissions Trading

CC13.1

Do you participate in any emissions trading schemes?

No, but we anticipate doing so in the next 2 years

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 |
|-------------|-----------------------------------|----------------------|----------------------|--|----------------------|
| | | | | | |

CC13.1b

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

Enerplus does plan on utilizing carbon credits on energy efficiency projects through its energy performance working group. We plan on utilizing funding for energy efficiency projects, and also selling the credits we obtain with our projects through the Specified Gas Emitters Program in Alberta. Other purchasing schemes are also being evaluated and Enerplus intends on proactively utilizing carbon credit sales to benefit energy efficiency projects.

CC13.2

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

No

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 |
|---------------------------------------|--------------|------------------------|----------------------------|---|--|-------------------|--------------------------|
|---------------------------------------|--------------|------------------------|----------------------------|---|--|-------------------|--------------------------|

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 | | | | Enerplus provides its employees with glasses and mugs to promote waste reduction which relates to reduced emissions. |
| Capital goods | Relevant, not yet calculated | | | | Where possible, Enerplus purchases solar panels to operate infrastructure such as chemical injection pumps. |
| Fuel-and-energy-related activities (not included in Scope 1 or 2) | | | | | Where possible, Enerplus purchases solar panels to operate infrastructure such as chemical injection pumps. |
| Upstream transportation and distribution | Relevant, not yet calculated | | | | Difficult to obtain this data and not a big source due to the nature of our operations. |
| Waste generated in operations | Relevant, not yet calculated | | | | Enerplus audited its corporate and field operations for waste generation and has implemented a pilot recycling program in its field and corporate offices in 2014, and has plans to expand the pilot in scale across different areas. |
| Business travel | Relevant, calculated | 193 | GHG Protocol's Corporate Value Chain Scope 3 Accounting and Reporting Standard | | Enerplus rolled out a Journey Management Standard to its employees. Employees are encouraged to reduce travel by utilizing technologies such as webcam meetings, lync meetings, webinars and other means of communications. |
| Employee commuting | Relevant, not yet calculated | | | | Enerplus' corporate office is on the City train line and employees are strongly encouraged to take transit and every employee is subsidized for the dollar amount of a monthly pass. Enerplus also subsidizes secure bike parking. Employees also participates in the Calgary Corporate Challenge, and during the competition, competitors are challenged to not use vehicles to commute to work during the event. |
| Upstream leased assets | Relevant, calculated | 3085 | Emission factor of 0.01079 tonnes per square feet of office space occupied. | | n Calgary, Enerplus leases 205,000 square feet of office space. In Canadian field offices, 30,288 square feet are occupied. In Denver we lease 39,374 square feet of office space, and in U.S. field offices occupy 9,347 square feet |

| 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 |
|--|------------------------------------|--------------------|-----------------------------------|---|---|
| Downstream transportation and distribution | Not relevant, explanation provided | | | | This data would be extremely difficult to obtain and quantify. |
| Processing of sold products | Not relevant, explanation provided | | | | This data would be extremely difficult to obtain and quantify. Additionally, the refinery operator would report the emissions associated with this activity. |
| Use of sold products | Not relevant, explanation provided | | | | This data would be extremely difficult to obtain and quantify. |
| End of life treatment of sold products | Not relevant, explanation provided | | | | This data would be extremely difficult to obtain and quantify. |
| Downstream leased assets | Not relevant, explanation provided | | | | We do not have downstream leased assets. |
| Franchises | Not relevant, explanation provided | | | | We do not have franchises in our business. |
| Investments | Not relevant, explanation provided | | | | Although we have working interest in other companies, the operator reports those emissions as emissions are a consequence of the activity of the company, but occurs from sources not owned or controlled by the company. |
| Other (upstream) | Not evaluated | | | | Not Evaluated |
| Other (downstream) | Not evaluated | | | | 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 | Other: | 56 | Increase | Increased business need for travel. This is not a significant |

| Sources of Scope 3 emissions | Reason for change | Emissions value (percentage) | Direction of change | Comment |
|------------------------------|-------------------|------------------------------|---------------------|--|
| | | | | source of emissions in our operations. |

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 |
|---------------------|------------------|---------|
| | | |

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 |
|------------------------------|---------------------|

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

No, however there are plans to structure this into the decision criteria for certain parts of our supply chain, namely equipment and main sources of emissions in our operations. This is a part of the energy performance working group evaluation criteria that will make sure monetize benefits of less fuel use, and consequently emissions.

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 |
|-------------|---|------------------------------------|
| Kym Fawcett | Manager, Safety and Social Responsibility | Environment/Sustainability manager |

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)

Exploration, production & gas processing

Further Information

Page: OG1. Production & reserves by hydrocarbon type - (1 Jan 2014 - 31 Dec 2014)

OG1.1

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

Yes

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 |
|---------|-----------------------------------|---|
| | 103000 | |

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 |
|---------|----------------|----------------|--------------------|---------------------------------|
|---------|----------------|----------------|--------------------|---------------------------------|

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 |
|---------------------|--------------------|---------|
|---------------------|--------------------|---------|

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?

No

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 Jan 2014 - 31 Dec 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 |
|--|---|---|
| Exploration, production & gas processing | Operational Control | Operational Control |

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 |
|--|---|---|
| Exploration, production & gas processing | 858929 | 800000 |

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 |
|--|---|---|
| Exploration, production & gas processing | 244710 | 240000 |

Further Information

Page: **OG3. Scope 1 emissions by emissions category - (1 Jan 2014 - 31 Dec 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 |
|--|---|
| Exploration, production & gas processing | Operational Control |

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 | | |

| Category | Gross Scope 1 emissions (metric tonnes CO2e) – Reporting year | Gross Scope 1 emissions (metric tonnes CO2e) – Next reporting year estimate |
|--------------------|---|---|
| Fugitive emissions | | |

Further Information

Page: OG4. Transfers & sequestration of CO2 emissions - (1 Jan 2014 - 31 Dec 2014)

OG4.1

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

No

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 | CO ₂ 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) |
|-------------------------------|----------------------------------|---|-------------------------------|--|
|-------------------------------|----------------------------------|---|-------------------------------|--|

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 Jan 2014 - 31 Dec 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

Please provide estimated emissions (Scope 1 + Scope 2) intensities for the a) exploration, production and gas processing, b) storage, transportation and distribution, and c) refining associated with current production and operations

| Year ending | Emissions intensity: exploration, production & gas processing (metric tonnes CO2e per thousand BOE) | Emissions intensity: storage, transportation & distribution (metric tonnes CO2e per thousand BOE) | Emissions intensity: refining (metric tonnes CO2e per thousand BOE) |
|-------------|---|---|---|
|-------------|---|---|---|

OG5.3

Please clarify how each of the emissions intensities has been derived and supply information on the methodology used where this differs from information already given in answer to the methodology questions in the main information request

Further Information

Page: OG6. Development strategy - (1 Jan 2014 - 31 Dec 2014)

OG6.1

For each relevant strategic development area, please provide financial information for the reporting year

| Strategic development area | Describe how this relates to your business strategy | Sales generated | EBITDA | Net assets | CAPEX | OPEX | Comment |
|----------------------------|---|-----------------|--------|------------|-------|------|---------|
|----------------------------|---|-----------------|--------|------------|-------|------|---------|

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 |
|-------|--|
|-------|--|

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? |
|--|---|--|

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? |
|---|--|--|

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? |
|---|--|--|
|---|--|--|

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? |
|---|---|--|
|---|---|--|

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