

C0. Introduction

C0.1

(C0.1) Give a general description and introduction to your organization.

Centerra Gold (“Centerra”) is a Canadian-based gold mining company engaged in operating, developing, acquiring and exploring gold properties in North America, Asia and other markets worldwide and is one of the largest Western-based gold producer in Central Asia. The Company operates two flagship assets, the Mount Milligan Mine in British Columbia, Canada, and the Kumtor Mine in the Kyrgyz Republic and through 2019, continued construction and commissioning of its next gold mine, the Öksüt Gold Mine, in Turkey. The Öksüt mine achieved commercial production as of May 31, 2020. In 2019, Centerra produced 783,308 ounces of gold and 71.1 million pounds of copper.

We are committed to protecting the natural environment and minimizing adverse impacts caused by our operations or activities. Each site’s environmental focus areas are determined by a variety of factors including:

- the results of our environmental impact assessments (EIAs);
- environmental requirements set out by current and former financiers like the European Bank for Reconstruction and Development (EBRD) and the International Finance Corporation (IFC);
- internal identification of Significant Environmental Aspects (SEAs) that are required to meet our regulatory compliance and environmental performance objectives;
- international standards and frameworks Centerra has adopted, including the World Gold Council’s *Responsible Gold Mining Principles* ; and,
- standards we broadly seek alignment against including those set-out by the International Council on Mining and Metals (ICMM).

Centerra’s shares trade on the Toronto Stock Exchange (TSX) under the symbol CG. The Company is headquartered in Toronto, Ontario, Canada.

C0.2

(C0.2) State the start and end date of the year for which you are reporting data.

	Start date	End date	Indicate if you are providing emissions data for past reporting years	Select the number of past reporting years you will be providing emissions data for
Reporting year	January 1 2019	December 31 2019	No	<Not Applicable>

C0.3

(C0.3) Select the countries/areas for which you will be supplying data.

- Canada
- Kyrgyzstan
- Turkey

C0.4

(C0.4) Select the currency used for all financial information disclosed throughout your response.

USD

C0.5

(C0.5) Select the option that describes the reporting boundary for which climate-related impacts on your business are being reported. Note that this option should align with your chosen approach for consolidating your GHG inventory.

Operational control

C-MM0.7

(C-MM0.7) Which part of the metals and mining value chain does your organization operate in?

Row 1

Mining

- Copper
- Gold

Processing metals

Please select

C1. Governance

C1.1

(C1.1) Is there board-level oversight of climate-related issues within your organization?

Yes

C1.1a

(C1.1a) Identify the position(s) (do not include any names) of the individual(s) on the board with responsibility for climate-related issues.

Position of individual(s)	Please explain
Board-level committee	Centerra's Sustainable Operations Committee reviews performance against our goals, policies and systems to ensure we are fulfilling our objectives relating to safety, health, environmental management and social responsibility. The Committee also oversees the process we adopt for donations, sustainable development, investments and monitoring and evaluation measurement. Climate-related issues (in particular water resources and management, glaciers, energy use and emissions, climate-related regulatory changes, meteorological changes, and climate change resiliency) are overseen by the Sustainable Operations Committee. Centerra is currently undertaking work to develop a robust climate change strategy, and has conducted a strategic review of its current climate change governance practices as compared to best practices for Board and Management oversight of climate-related risks and opportunities. In 2020, Centerra will be implementing changes to its governance structure to enhance Board oversight of climate-related risks and opportunities.
Board-level committee	Centerra's Risk Committee is responsible for assisting the Board in fulfilling its oversight responsibilities in relation to company-wide risk management practices, overseeing that the executive team has in place processes designed to identify and assess the key risks that the organization faces and has established appropriate mechanisms designed to address those risks. Climate-related risks have the potential to negatively impact both Centerra's operations, financials, and commitment to the sustainable development of its communities of interest. Centerra is currently undertaking work to develop a robust climate change strategy, and has conducted a strategic review of its current climate change governance practices as compared to best practices for Board and Management oversight of climate-related risks and opportunities. In 2020, Centerra will be implementing changes to its governance structure to enhance Board oversight of climate-related risks and opportunities.

C1.1b

(C1.1b) Provide further details on the board's oversight of climate-related issues.

Frequency with which climate-related issues are a scheduled agenda item	Governance mechanisms into which climate-related issues are integrated	Scope of board-level oversight	Please explain
Sporadic - as important matters arise	Reviewing and guiding major plans of action Reviewing and guiding risk management policies Reviewing and guiding annual budgets Monitoring implementation and performance of objectives	<Not Applicable>	At the quarterly Board meeting, the executive team presents the key strategic risks for the upcoming quarter to the Board. The Board then ensures that the executive team has established appropriate mechanisms to address those risks. The Board reviews climate change risks as these matters arise: informal discussion of climate-related factors such as water, energy, tailings management, air emissions and the regulatory landscape may occur on a quarterly basis. Centerra is currently undertaking work to develop a robust climate change strategy, and has conducted a strategic review of its current climate change governance practices as compared to best practices for Board and Management oversight of climate-related risks and opportunities. In 2020, Centerra will be implementing changes to its governance structure to enhance Board oversight of climate-related risks and opportunities.

C1.2

(C1.2) Provide the highest management-level position(s) or committee(s) with responsibility for climate-related issues.

Name of the position(s) and/or committee(s)	Reporting line	Responsibility	Coverage of responsibility	Frequency of reporting to the board on climate-related issues
Chief Executive Officer (CEO)	<Not Applicable>	Assessing climate-related risks and opportunities	<Not Applicable>	Quarterly
Chief Operating Officer (COO)	<Not Applicable>	Assessing climate-related risks and opportunities	<Not Applicable>	Quarterly
Other, please specify (Vice President, Security, Sustainability and Environment)	<Not Applicable>	Both assessing and managing climate-related risks and opportunities	<Not Applicable>	Quarterly

C1.2a

(C1.2a) Describe where in the organizational structure this/these position(s) and/or committees lie, what their associated responsibilities are, and how climate-related issues are monitored (do not include the names of individuals).

Centerra's Sustainable Operations and Risk Board Committees receive updates and reports from the Vice President of Security, Sustainability and Environment on economic, environmental, social, health and safety topics and their impacts, risks, and opportunities. This includes climate-related issues as they arise. The Vice President of Security, Sustainability and Environment reports to the Chief Operating Officer (who in turn reports to the Chief Executive Officer).

The Vice President of Security, Sustainability and Environment manages the strategic implementation of Centerra's sustainability and environmental policy, programs and initiatives. The Advisor, Sustainability and Environment reports into the Vice President, Security, Sustainability and Environment and is responsible for understanding emerging and current environmental legislation, trends, and external sustainability reporting requirements, including those related to climate change.

At each active operating site, as well as those in-development, there is an executive appointed to oversee sustainability and environmental matters (and climate-related issues as they arise). These individuals are supported by environmental experts and report to the General Manager of the site. In addition, these local experts have a dotted reporting line into the Vice President of Security, Sustainability and Environment.

Centerra is currently undertaking work to develop a robust climate change strategy, and has conducted a strategic review of its current climate change governance practices as compared to best practices for Board and Management oversight of climate-related risks and opportunities. In 2020, Centerra will be implementing changes to its governance structure to enhance Management accountability for climate-related risks and opportunities.

C1.3

(C1.3) Do you provide incentives for the management of climate-related issues, including the attainment of targets?

	Provide incentives for the management of climate-related issues	Comment
Row 1	No, and we do not plan to introduce them in the next two years	Centerra is currently undertaking work to develop a robust climate change strategy. This work will include the identification of climate change priorities and link to company strategy (giving consideration to Centerra's most material climate-related risks and opportunities). As part of this work, Centerra will consider how incentives for the management of climate-related issues (including the attainment of targets) can support its climate change objectives. In 2020, one aspect of the Executive Team's short-term compensation was tied to the implementation of the World Gold Council's Responsible Gold Mining Principles. Principles 9 and 10 address climate-related issues and risks, including water management and implementation of TCFD recommendations.

C2. Risks and opportunities

C2.1

(C2.1) Does your organization have a process for identifying, assessing, and responding to climate-related risks and opportunities?

Yes

C2.1a

(C2.1a) How does your organization define short-, medium- and long-term time horizons?

	From (years)	To (years)	Comment
Short-term	0	1	Centerra's risk matrix defines short-term (almost certain risks) as risks that may occur greater than once per month.
Medium-term	1	10	Centerra's risk matrix defines medium-term (probable risks) as risks that may occur greater than once per year.
Long-term	10	100	Centerra's risk matrix defines long-term risks as those that may occur greater than once per 10 years (possible) to less than once every 100 years (rare). This time horizon will take into account the life of mine and post-closure responsibilities.

C2.1b

(C2.1b) How does your organization define substantive financial or strategic impact on your business?

Centerra defines 'substantive strategic or financial impact' as any financial (e.g. revenue or cost variance to budget) and/or operating impacts (e.g. shutdowns or impacts to production) to employee health and safety, the environment, local stakeholder relations and reputation, legal and regulatory compliance that could adversely affect the Company's business operations, prospects, financial condition, results of operations, or cash flows.

C2.2

(C2.2) Describe your process(es) for identifying, assessing and responding to climate-related risks and opportunities.

Value chain stage(s) covered

Direct operations

Risk management process

Integrated into multi-disciplinary company-wide risk management process

Frequency of assessment

Annually

Time horizon(s) covered

Short-term

Medium-term

Long-term

Description of process

Centerra has implemented an Enterprise Risk Management (ERM) program to ensure risk-informed decision making throughout the organization. The program is based on leading international risk management standards such as ISO 31000 and COSO as well as industry best practice. It employs both a bottom-up and top-down approach to identify and address risks from all sources that threaten the achievement of our objectives. Each operating site and project are responsible for identifying, assessing, treating and monitoring risk. Efforts are coordinated by appointed "Risk Champions" who facilitate the process to ensure consistency and continuity. Centerra's Corporate office based VP, Risk & Insurance is responsible for providing the requisite tools, guidance, oversight and strategic direction for the ERM program. The risk management program at Centerra considers the full life of mine cycle from exploration through to closure. All aspects of the operation and our stakeholders are considered when identifying risks. As such, our risk program encompasses a broad range of risks including technical, financial, commercial, social, reputational, environmental, health and safety, political and human resources related risks. The Board of Directors for Centerra has created a Risk Committee whose mandate is Enterprise Risk Management governance and oversight. The VP Risk & Insurance at Centerra prepares and presents a quarterly report for the Risk Committee on the key strategic, operational, project and exploration risks, as well as emerging risks. ERM supports continuous improvement in the organization as risk information is used to navigate and make course corrections. Stakeholder value is thus created through improved business performance and resilience. Currently, climate change is considered as an external factor influencing operational risks related to environmental, physical, financial, regulatory and reputational risk sub-categories. The impact of climate change on existing risks such as water resources, energy use and emissions, regulation, glaciers, meteorological changes and seismic activity, and infrastructure resiliency is considered. At an operational level, climate-related risks are identified and assessed via the site risk register. Climate change risk considerations are integrated into the company's life of mine planning, water and tailings management programs, and mine closure planning processes. Centerra is currently undertaking work to develop a robust climate change strategy, and has conducted a strategic review of its current climate-related risks and opportunities and identified and assessed the Company's material climate-related risks and opportunities at an enterprise level (using a consistent Impact-Likelihood matrix). As part of this work, in 2020 Centerra will update its corporate risk register to include identified climate-related risks.

C2.2a

(C2.2a) Which risk types are considered in your organization's climate-related risk assessments?

	Relevance & inclusion	Please explain
Current regulation	Relevant, sometimes included	The corporate and site-specific sustainability and environment teams and risk teams continuously research and attend relevant conferences / meetings to understand current legislation and its operational impact. Current legislation would be only added to the risk register if there is indication that the legislation is not being managed effectively or if there are indications that the current operation will begin to have some difficulty meeting the regulation.
Emerging regulation	Relevant, sometimes included	The corporate and site-specific sustainability and environment teams and risk teams continuously do research and attend relevant conferences / meetings to understand emerging legislation and its operational impact. Emerging legislation will be added to the risk register when it is identified as a near-term probability.
Technology	Relevant, sometimes included	The company considers how technology related to resource efficiency and low-carbon energy sources is developing and considers its viability for each specific site given the payback period and the estimated life of the mine.
Legal	Not relevant, explanation provided	Currently, Centerra has not identified any legal risks associated with climate change.
Market	Relevant, always included	Centerra considers how climate-related factors could influence demands for its products.
Reputation	Relevant, always included	Centerra is closely monitoring the reputational risks the company faces during the transition to the low carbon economy, in particular community and investor expectations regarding climate change.
Acute physical	Relevant, always included	Centerra considers how increases in extreme weather as a result of climate change could impact its operations. For example, Mount Milligan site is affected by changes in precipitation patterns and intensity, including drought conditions that may increase the risk of forest fires.
Chronic physical	Relevant, always included	Centerra considers how changes in precipitation patterns as a result of climate change could impact its operations. For example, Mount Milligan site is affected by changes in precipitation patterns and intensity, including drought conditions that may impact required water resources. Additionally, there are active glaciers within the Kumtor concession area.

C2.3

(C2.3) Have you identified any inherent climate-related risks with the potential to have a substantive financial or strategic impact on your business?

Yes

C2.3a

(C2.3a) Provide details of risks identified with the potential to have a substantive financial or strategic impact on your business.

Identifier

Risk 1

Where in the value chain does the risk driver occur?

Direct operations

Risk type & Primary climate-related risk driver

Chronic physical	Changes in precipitation patterns and extreme variability in weather patterns
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Primary potential financial impact

Decreased revenues due to reduced production capacity

Climate risk type mapped to traditional financial services industry risk classification

<Not Applicable>

Company-specific description

The chronic physical effects of climate change, such as resource shortages (particularly water quality and availability), changing sea levels and changing temperatures, could have an adverse financial impact on operations located in the regions where these conditions occur. For example, higher average temperatures can lead to increased drought conditions and impact water availability, reducing mine production and impacting profitability by reducing cash flows and increasing expenses. Centerra has experienced adverse financial impacts due to resource shortages. The Mount Milligan mine region has been experiencing drought conditions. During 2018 and 2019, water availability was inadequate (as the majority of the water was from spring freshet) and production was scaled back (negatively impacting revenues and profitability). Capital expenditures were also required to build new infrastructure to access new water sources and ensure future water availability. Centerra's operations are dependent on specific weather conditions (precipitation in particular) and changes to these weather conditions could have material financial impact in the form of reduced revenue, increased capital expenditures and increased compliance costs across all three mine sites. Climate change is expected to exacerbate existing resource shortages, especially water. Additionally, an increase in mean temperature due to climate change could impact (accelerate) the rate of glacial movement or glacial melting near Centerra's operation in the Kyrgyz Republic.

Time horizon

Medium-term

Likelihood

Likely

Magnitude of impact

High

Are you able to provide a potential financial impact figure?

No, we do not have this figure

Potential financial impact figure (currency)

<Not Applicable>

Potential financial impact figure – minimum (currency)

<Not Applicable>

Potential financial impact figure – maximum (currency)

<Not Applicable>

Explanation of financial impact figure

Cost of response to risk

Description of response and explanation of cost calculation

Centerra has completed a preliminary, desktop climate study which reviewed the Company's physical climate risks across all of its sites. The Company is working to adapt internal management structures in ways that facilitate proactive, adaptive, and integrated management of climate change impacts. In order to mitigate risks related to water availability, Centerra is designing comprehensive water management measures to ensure sustained adequate supply, implementing initiatives to increase the efficiency of water use through conservation practices, and looking for opportunities for reuse and recycling. To manage insufficient or interrupted water supply during operations, detailed water studies are completed with local experts. At Mount Milligan in particular, execution for long term water supply is underway. Requests to the Major Mines Office and the Environmental Assessment Office has been initiated, indicating the intent for long term water supply sources. To manage risks related to the glacier in the Kyrgyz Republic, the Company conducts geotechnical monitoring and surveying, facilitates regular visits of consultants for glaciers stability review, conducts systematic dewatering monitoring and operations and has updated its early warning system algorithm to detect changes in ice/water movement. Centerra is currently undertaking work to develop a robust climate change strategy, and has conducted a strategic review of its current climate-related risks and opportunities and identified and assessed the Company's material climate-related risks and opportunities at an enterprise level. As part of this work, Centerra will develop strategies to address its key climate-related risks.

Comment

Identifier

Risk 2

Where in the value chain does the risk driver occur?

Direct operations

Risk type & Primary climate-related risk driver

Reputation	Increased stakeholder concern or negative stakeholder feedback
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Primary potential financial impact

Increased capital expenditures

Climate risk type mapped to traditional financial services industry risk classification

<Not Applicable>

Company-specific description

Centerra has significant operations in regions that typically have environmentally conscious cultures, citizens and governments (British Columbia, the Kyrgyz Republic and Turkey). Previously, the company has faced scrutiny related to its environmental impacts in both British Columbia (water issues) and the Kyrgyz Republic (impact on glacier), thereby increasing its exposure to this issue. Additionally, given the size of the Kumtor operations (largest enterprise in the Kyrgyz Republic), Centerra faces a high level of public scrutiny towards its activities at Kumtor.

Time horizon

Medium-term

Likelihood

More likely than not

Magnitude of impact

Medium-high

Are you able to provide a potential financial impact figure?

No, we do not have this figure

Potential financial impact figure (currency)

<Not Applicable>

Potential financial impact figure – minimum (currency)

<Not Applicable>

Potential financial impact figure – maximum (currency)

<Not Applicable>

Explanation of financial impact figure

Cost of response to risk

Description of response and explanation of cost calculation

In general, our reputational risks are mitigated by ensuring we are operating responsibly, which includes rigorous and transparent business practices, high standards for safety and environmental performance, and strategic community investments / developments in the regions we operate or have projects. Earning our social license to operate is considered a cost of doing business, which we track and report on in our sustainability reporting. We are accountable to our stakeholders for their concerns, issues and expectations and continuously listen, learn, share, and receive constructive feedback and comments regarding our mining activities. We manage community-related feedback and potential risks before they become grievances and lead to operational disruptions. Our stakeholder engagement processes ensures that our stakeholders and project-impacted Indigenous groups are informed about our current activities and future plans. Our stakeholder engagement and community investment is led by our site community relations teams, often comprised of individuals from local or nearby communities who understand regional nuances and community needs. Stakeholder identification and mapping begins during exploration and is a continuous process which is regularly undertaken through to mine closure. We develop region-specific Community Development Plans (CDP) in collaboration with our regional committees where they exist. Committees are often comprised of local authorities, heads of village councils or Indigenous group representatives, and civil society organizations. Centerra is currently undertaking work to develop a robust climate change strategy, and has conducted a strategic review of its current climate-related risks and opportunities and identified and assessed the Company's material climate-related risks and opportunities at an enterprise level. As part of this work, Centerra has conducted a review of its top investors' expectations on climate change and moving forward will be aligning its ESG reporting with investor preferred frameworks such as the Sustainability Accounting Standard Board and the Taskforce on Climate-related Financial

Disclosures to communicate how it is addressing material ESG and climate-related factors.

Comment

Identifier

Risk 3

Where in the value chain does the risk driver occur?

Direct operations

Risk type & Primary climate-related risk driver

Acute physical	Increased likelihood and severity of wildfires
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Primary potential financial impact

Decreased revenues due to reduced production capacity

Climate risk type mapped to traditional financial services industry risk classification

<Not Applicable>

Company-specific description

Centerra's operations in B.C. and the Kyrgyz Republic are vulnerable to extreme weather events, notably wildfires, droughts and extreme precipitation events. Wildfires have the potential to disrupt operations leading to reduced revenue and/or damage infrastructure leading to increased capital expenditures. Extreme precipitation events can cause road washouts and create delays in the delivery of required goods to site. Initiatives to increase resilience to wildfires or other extreme weather events can be costly and take time to implement. Given the expected life of Centerra's mines, the physical impacts of climate change could also increase costs related to mine closure.

Time horizon

Medium-term

Likelihood

Likely

Magnitude of impact

Medium-high

Are you able to provide a potential financial impact figure?

No, we do not have this figure

Potential financial impact figure (currency)

<Not Applicable>

Potential financial impact figure – minimum (currency)

<Not Applicable>

Potential financial impact figure – maximum (currency)

<Not Applicable>

Explanation of financial impact figure

Cost of response to risk

Description of response and explanation of cost calculation

Centerra has completed a preliminary, desktop climate study which reviewed the Company's physical climate risks across all of its sites. The Company is working to adapt internal management structures in ways that facilitate proactive, adaptive, and integrated management of climate change impacts. Centerra conducts engineering surveys of infrastructure and tailings facilities to assess seismic resistance. Centerra conducts engineering surveys of infrastructure and tailings facilities to assess seismic resistance. Centerra's TSFs have all been designed by professional engineers and are constructed, operated and monitored under the guidance of an external engineer of record. TSFs are actively managed to maintain structural performance and ensure environmental safety. Centerra's TSFs are designed in accordance with all applicable dam safety regulations and requirements. Centerra has developed a 5-step management process that is applied and monitored at each site. Trained site personnel and technical staff perform daily inspections on each active TSF. The operations and on-site teams perform monthly inspections and review systems data to monitor the tailings facilities for cracking or other signs of potential instability. More frequent inspections are conducted following significant precipitation, wind, fire or seismic events. Centerra is currently undertaking work to develop a robust climate change strategy, and has conducted a strategic review of its current climate-related risks and opportunities and identified and assessed the Company's material climate-related risks and opportunities at an enterprise level. As part of this work, Centerra will develop strategies to address its key climate-related risks.

Comment

Identifier

Risk 4

Where in the value chain does the risk driver occur?

Direct operations

Risk type & Primary climate-related risk driver

Emerging regulation	Carbon pricing mechanisms
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Primary potential financial impact

Increased indirect (operating) costs

Climate risk type mapped to traditional financial services industry risk classification

<Not Applicable>

Company-specific description

Centerra operates in various regions and jurisdictions where climate change laws are evolving and inconsistent. Both Canada and the Kyrgyz Republic have ratified the Paris Agreement. Under the Paris Agreement, Canada has committed to reducing its GHG emissions by 30% below 2005 levels by 2030 and net-zero emissions future by 2050. To meet long-term legislated emissions reductions, the province of British Columbia has committed to reducing its GHG emissions by 40% below its 2007 levels. As

part of its commitment, B.C. implemented a carbon tax and in April 2019, the tax increased to \$40 per tCO₂e. There were no emission-limiting regulations imposed in either the Kyrgyz Republic or Turkey in 2019 but we continue to proactively monitor the regulatory landscape in both countries as we anticipate emerging legislation due to the ratification of the Paris Agreement in the Kyrgyz Republic and continued path towards EU accession in Turkey. In Turkey, EU membership will create more stringent environmental standards and regulations nationwide like the EU's emissions trading system and the European Green Deal. In the longer-term, Centerra could be exposed to increased operational costs due to increasingly stringent GHG emissions policies, thereby impacting compliance costs and profit margins.

Time horizon

Medium-term

Likelihood

Likely

Magnitude of impact

Medium-high

Are you able to provide a potential financial impact figure?

No, we do not have this figure

Potential financial impact figure (currency)

<Not Applicable>

Potential financial impact figure – minimum (currency)

<Not Applicable>

Potential financial impact figure – maximum (currency)

<Not Applicable>

Explanation of financial impact figure

Cost of response to risk

Description of response and explanation of cost calculation

To enable us to effectively manage regulatory risks, we proactively monitor and assess the regulatory environment in our operating jurisdictions. We continue to monitor trends related to climate change regulation and events through our regular risk assessments and business planning activities as we recognize the impact that new regulation may have on our operations. Centerra seeks to work closely with regulators to identify emerging regulations that will impact its operations. In addition, each site extensively consults local experts on regulation matters; this involves regular calls with sites and office visits with local staff and advisors. The electricity used by Centerra at Mount Milligan and Kumtor comes from mostly renewable sources however additional efforts have been made to improve the energy efficiency of operations. For example, Kumtor has replaced diesel generators with lower emitting grid electricity for such uses as mine-site lighting, dewatering pumps, and other equipment. Additionally, a program is in place to reduce vehicular-related fuel consumption, we are transitioning to more fuel-efficient engines and have a proactive program in place to reduce the need for, and occurrence of, running engines on parked vehicles. We have also implemented energy conservation measures ranging from the installation of low wattage, high efficiency lighting systems, better insulation in camp buildings, and encouraging behaviour changes. We continue to explore approaches that may help reduce our energy and GHG intensity. Centerra is currently undertaking work to develop a robust climate change strategy, and has conducted a strategic review of its current climate-related risks and opportunities and identified and assessed the Company's material climate-related risks and opportunities at an enterprise level. As part of this work, Centerra will develop strategies to address its key climate-related risks.

Comment

Identifier

Risk 5

Where in the value chain does the risk driver occur?

Direct operations

Risk type & Primary climate-related risk driver

Technology	Transitioning to lower emissions technology
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Primary potential financial impact

Increased capital expenditures

Climate risk type mapped to traditional financial services industry risk classification

<Not Applicable>

Company-specific description

Centerra is likely to face growing pressure to reduce GHG emissions, potentially requiring significant capital expenditures to develop and implement new low carbon technologies in the face of pressure from governments and investors to improve sustainable mining practices by reducing GHG emissions from operations in the longer-term. Centerra current employs legacy technologies at some of its mine sites (e.g. running pumps on diesel generators, diesel powered trucks).

Time horizon

Medium-term

Likelihood

More likely than not

Magnitude of impact

Medium

Are you able to provide a potential financial impact figure?

No, we do not have this figure

Potential financial impact figure (currency)

<Not Applicable>

Potential financial impact figure – minimum (currency)

<Not Applicable>

Potential financial impact figure – maximum (currency)

<Not Applicable>

Explanation of financial impact figure

Cost of response to risk

Description of response and explanation of cost calculation

Efforts have been made to leverage new technology and reduce reliance on legacy technologies that are higher emitting. For example, Centerra has replaced diesel generators with lower emitting grid electricity for such uses as mine-site lighting, dewatering pumps, and other equipment. Additionally, we are transitioning to more fuel-efficient engines. We continue to explore approaches to leverage technology that will reduce our energy consumption and GHG intensity. Centerra is currently undertaking work to develop a robust climate change strategy, and has conducted a strategic review of its current climate-related risks and opportunities and identified and assessed the Company's material climate-related risks and opportunities at an enterprise level. As part of this work, Centerra will develop strategies to address its key climate-related risks.

Comment

Identifier

Risk 6

Where in the value chain does the risk driver occur?

Direct operations

Risk type & Primary climate-related risk driver

Market	Increased cost of raw materials
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Primary potential financial impact

Increased indirect (operating) costs

Climate risk type mapped to traditional financial services industry risk classification

<Not Applicable>

Company-specific description

Centerra's energy costs are significant and any increase in the cost of energy could have a potential financial impact in the form of increased expenses and reduced profitability. Given the steady demand for gold as a commodity and the potential for increased demand for copper as a result of the transition to a lower carbon economy, exposure to other types of market risk is reduced.

Time horizon

Long-term

Likelihood

About as likely as not

Magnitude of impact

Medium-high

Are you able to provide a potential financial impact figure?

No, we do not have this figure

Potential financial impact figure (currency)

<Not Applicable>

Potential financial impact figure – minimum (currency)

<Not Applicable>

Potential financial impact figure – maximum (currency)

<Not Applicable>

Explanation of financial impact figure

Cost of response to risk

Description of response and explanation of cost calculation

We have implemented initiatives to reduce energy consumption. For example, a program is in place to reduce vehicular-related fuel consumption, we are transitioning to more fuel-efficient engines and have a proactive program in place to reduce the need for, and occurrence of, running engines on parked vehicles. We have also implemented energy conservation measures ranging from the installation of low wattage, high efficiency lighting systems, better insulation in camp buildings, and encouraging behaviour changes. We continue to explore approaches that may help reduce our energy consumption. Centerra is currently undertaking work to develop a robust climate change strategy, and has conducted a strategic review of its current climate-related risks and opportunities and identified and assessed the Company's material climate-related risks and opportunities at an enterprise level. As part of this work, Centerra will develop strategies to address its key climate-related risks.

Comment

C2.4

(C2.4) Have you identified any climate-related opportunities with the potential to have a substantive financial or strategic impact on your business?

Yes

C2.4a

(C2.4a) Provide details of opportunities identified with the potential to have a substantive financial or strategic impact on your business.

Identifier

Opp1

Where in the value chain does the opportunity occur?

Direct operations

Opportunity type

Resource efficiency

Primary climate-related opportunity driver

Use of more efficient production and distribution processes

Primary potential financial impact

Reduced indirect (operating) costs

Company-specific description

Improvements to the resource efficiency of the company's drills, rigs and vehicle fleets, could reduce operational costs for Centerra. A significant portion of Centerra's fleet is powered by diesel increasing exposure to this opportunity. There also exist opportunities to improve the water efficiency of operations (e.g. reduced use of water in milling processes, improved water treatment and recycling to reduce freshwater consumption).

Time horizon

Short-term

Likelihood

Likely

Magnitude of impact

Medium

Are you able to provide a potential financial impact figure?

No, we do not have this figure

Potential financial impact figure (currency)

<Not Applicable>

Potential financial impact figure – minimum (currency)

<Not Applicable>

Potential financial impact figure – maximum (currency)

<Not Applicable>

Explanation of financial impact figure**Cost to realize opportunity****Strategy to realize opportunity and explanation of cost calculation**

The electricity used by Centerra at Mount Milligan and Kumtor comes from mostly renewable sources however efforts have been made to improve the resource efficiency of operations. For example, Centerra has replaced diesel generators with lower emitting grid electricity for such uses as mine-site lighting, dewatering pumps, and other equipment. Additionally, a program is in place to reduce vehicular-related fuel consumption, we are transitioning to more fuel-efficient engines and have a proactive program in place to reduce the need for, and occurrence, of running engines on parked vehicles. We have also implemented energy conservation measures ranging from the installation of low wattage, high efficiency lighting systems, better insulation in camp buildings, and encouraging behaviour changes. We continue to explore approaches that may help reduce our energy consumption and GHG intensity. Centerra is currently undertaking work to develop a robust climate change strategy, and has conducted a strategic review of its current climate-related risks and opportunities and identified and assessed the Company's material climate-related risks and opportunities at an enterprise level. As part of this work, Centerra will develop strategies to address its key climate-related opportunities.

Comment**Identifier**

Opp2

Where in the value chain does the opportunity occur?

Direct operations

Opportunity type

Energy source

Primary climate-related opportunity driver

Use of lower-emission sources of energy

Primary potential financial impact

Reduced indirect (operating) costs

Company-specific description

There exist opportunities for Centerra to reduce GHG emissions and/or operational costs by using new energy sources, to electrify certain processes that are reliant on diesel and to leverage renewable energy sources. Energy is one of Centerra's top input costs and there is an opportunity to decrease energy costs and associated GHG emissions by diversifying existing energy sources to cheaper and/or lower emitting sources and/or electrifying processes.

Time horizon

Short-term

Likelihood

Likely

Magnitude of impact

Medium-high

Are you able to provide a potential financial impact figure?

No, we do not have this figure

Potential financial impact figure (currency)

<Not Applicable>

Potential financial impact figure – minimum (currency)

<Not Applicable>

Potential financial impact figure – maximum (currency)

<Not Applicable>

Explanation of financial impact figure

Cost to realize opportunity

Strategy to realize opportunity and explanation of cost calculation

The electricity used by Centerra at Mount Milligan and Kumtor comes from mostly renewable sources however efforts have been made to diversify energy sources where possible. For example, Centerra has replaced diesel generators with lower emitting grid electricity for such uses as mine-site lighting, dewatering pumps, and other equipment. Centerra is currently undertaking work to develop a robust climate change strategy, and has conducted a strategic review of its current climate-related risks and opportunities and identified and assessed the Company's material climate-related risks and opportunities at an enterprise level. As part of this work, Centerra will develop strategies to address its key climate-related opportunities.

Comment

Identifier

Opp3

Where in the value chain does the opportunity occur?

Direct operations

Opportunity type

Resilience

Primary climate-related opportunity driver

Other, please specify (Build resilience into asset design and operational processes)

Primary potential financial impact

Increased revenues resulting from increased production capacity

Company-specific description

Centerra has an opportunity to invest in building resilience to physical impacts of climate change to avoid operational disruptions due to extreme weather and/or chronic changes in weather, particularly water quality and availability. The company can invest in new drills, rigs and infrastructure that can withstand a higher frequency and intensity of extreme weather events and/or build new infrastructure that ensures access to inputs needed for production (e.g. water), limiting the potentially negative financial impacts of physical climate risks as they grow over time.

Time horizon

Long-term

Likelihood

Likely

Magnitude of impact

Medium-high

Are you able to provide a potential financial impact figure?

No, we do not have this figure

Potential financial impact figure (currency)

<Not Applicable>

Potential financial impact figure – minimum (currency)

<Not Applicable>

Potential financial impact figure – maximum (currency)

<Not Applicable>

Explanation of financial impact figure

Cost to realize opportunity

Strategy to realize opportunity and explanation of cost calculation

Centerra has completed a preliminary, desktop climate study which reviewed the Company's physical climate risks across all of its sites. The Company is working to adapt internal management structures in ways that facilitate proactive, adaptive, and integrated management of climate change impacts. Centerra conducts engineering surveys of infrastructure and tailings facilities to assess seismic resistance. Centerra conducts engineering surveys of infrastructure and tailings facilities to assess seismic resistance. Centerra's TSFs have all been designed by professional engineers and are constructed, operated and monitored under the guidance of an external engineer of record. TSFs are actively managed to maintain structural performance and ensure environmental safety. Centerra's TSFs are designed in accordance with all applicable dam safety regulations and requirements. Centerra has developed a 5-step management process that is applied and monitored at each site. Trained site personnel and technical staff perform daily inspections on each active TSF. The operations and on-site teams perform monthly inspections and review systems data to monitor the tailings facilities for cracking or other signs of potential instability. More frequent inspections are conducted following significant precipitation, wind, fire or seismic events. Centerra is currently undertaking work to develop a robust climate change strategy, and has conducted a strategic review of its current climate-related risks and opportunities and identified and assessed the Company's material climate-related risks and opportunities at an enterprise level. As part of this work, Centerra will develop strategies to address its key climate-related opportunities.

Comment

Identifier

Opp4

Where in the value chain does the opportunity occur?

Direct operations

Opportunity type

Products and services

Primary climate-related opportunity driver

Shift in consumer preferences

Primary potential financial impact

Increased revenues resulting from increased demand for products and services

Company-specific description

The mining sector has growth opportunities to support the low carbon transition (e.g. providing precious metals such as copper, nickel and lithium that are required as inputs to batteries, solar panels, wind turbines). Centerra currently produces gold and copper. As Centerra's operational mines reach the end of their life cycles, there could be an opportunity for the company to build out its copper production business to capitalize on increased demand for copper (and/or other new market opportunities) created by the low carbon transition.

Time horizon

Long-term

Likelihood

More likely than not

Magnitude of impact

Medium-high

Are you able to provide a potential financial impact figure?

Please select

Potential financial impact figure (currency)

<Not Applicable>

Potential financial impact figure – minimum (currency)

<Not Applicable>

Potential financial impact figure – maximum (currency)

<Not Applicable>

Explanation of financial impact figure

Cost to realize opportunity

Strategy to realize opportunity and explanation of cost calculation

Centerra is currently undertaking work to develop a robust climate change strategy, and has conducted a strategic review of its current climate-related risks and opportunities and identified and assessed the Company's material climate-related risks and opportunities at an enterprise level. As part of this work, Centerra will develop strategies to address its key climate-related opportunities.

Comment

Identifier

Opp5

Where in the value chain does the opportunity occur?

Direct operations

Opportunity type

Markets

Primary climate-related opportunity driver

Use of public-sector incentives

Primary potential financial impact

Increased access to capital

Company-specific description

There are growing pools of government funding to reduce GHG emissions from mining operations. Centerra may be able to access government funding in Canada and Turkey to help offset the costs of research and development activities related to new technologies.

Time horizon

Medium-term

Likelihood

About as likely as not

Magnitude of impact

Medium-low

Are you able to provide a potential financial impact figure?

Yes, an estimated range

Potential financial impact figure (currency)

<Not Applicable>

Potential financial impact figure – minimum (currency)

0

Potential financial impact figure – maximum (currency)

5000000

Explanation of financial impact figure

Mining peers have received up to \$5,000,000 from provincial and federal governments in Canada towards electrification activities.

Cost to realize opportunity

Strategy to realize opportunity and explanation of cost calculation

Centerra is currently undertaking work to develop a robust climate change strategy, and has conducted a strategic review of its current climate-related risks and opportunities and identified and assessed the Company's material climate-related risks and opportunities at an enterprise level. As part of this work, Centerra will develop

strategies to address its key climate-related opportunities.

Comment

C3. Business Strategy

C3.1

(C3.1) Have climate-related risks and opportunities influenced your organization’s strategy and/or financial planning?

Yes

C3.1a

(C3.1a) Does your organization use climate-related scenario analysis to inform its strategy?

No, but we anticipate using qualitative and/or quantitative analysis in the next two years

C3.1c

(C3.1c) Why does your organization not use climate-related scenario analysis to inform its strategy?

Centerra is currently undertaking work to develop a robust climate change strategy, and has conducted a strategic review of its current climate-related risks and opportunities and identified and assessed the Company’s material climate-related risks and opportunities at an enterprise level. As part of this work, Centerra will conduct climate-related scenario analysis. In 2020, Centerra will be publishing its first report aligned with the Recommendations of the Taskforce on Climate-related Financial Disclosures which will include qualitative scenario analysis.

C3.1d

(C3.1d) Describe where and how climate-related risks and opportunities have influenced your strategy.

	Have climate-related risks and opportunities influenced your strategy in this area?	Description of influence
Products and services	Evaluation in progress	Centerra is currently undertaking work to develop a robust climate change strategy, and has conducted a strategic review of its current climate-related risks and opportunities and identified and assessed the Company’s material climate-related risks and opportunities at an enterprise level. As part of this work, Centerra will consider how climate-related factors might influence its strategy as it relates to products and services.
Supply chain and/or value chain	Evaluation in progress	Centerra is currently undertaking work to develop a robust climate change strategy, and has conducted a strategic review of its current climate-related risks and opportunities and identified and assessed the Company’s material climate-related risks and opportunities at an enterprise level. As part of this work, Centerra will consider how climate-related factors might influence its strategy as it relates to its supply chain and/or value chain.
Investment in R&D	Evaluation in progress	Centerra is currently undertaking work to develop a robust climate change strategy, and has conducted a strategic review of its current climate-related risks and opportunities and identified and assessed the Company’s material climate-related risks and opportunities at an enterprise level. As part of this work, Centerra will consider how climate-related factors might influence its strategy as it relates to its investment in R&D.
Operations	Yes	Centerra considers how our operations could be impacted by the physical risks of climate change, existing and emerging regulation, the potential reputational impacts to our company related to climate change. Given the risks and opportunities presented by climate change, Centerra has implemented a number of initiatives to reduce its energy consumption, carbon footprint and exposure to the physical impacts of climate change (including on water availability). Centerra has built new infrastructure to access new water sources and ensure future water availability. Efforts have also been made to improve the energy efficiency of operations. For example, Centerra has replaced diesel generators with lower emitting grid electricity for such uses as mine-site lighting, dewatering pumps, and other equipment.

C3.1e

(C3.1e) Describe where and how climate-related risks and opportunities have influenced your financial planning.

	Financial planning elements that have been influenced	Description of influence
Row 1	Capital expenditures Capital allocation	We consider how our operating costs and capital expenditures could be impacted by the physical risks of climate change, existing and emerging regulation and the potential reputational impacts to our company related to climate change, in the short, medium and long term. Given the risks and opportunities presented by climate change and their potential financial impacts, Centerra has allocated capital and resources to a number of initiatives to reduce its energy consumption, carbon footprint and exposure to the physical impacts of climate change (including on water availability). For example, new infrastructure was built to access new water sources and ensure future water availability.

C3.1f

(C3.1f) Provide any additional information on how climate-related risks and opportunities have influenced your strategy and financial planning (optional).

Centerra is currently undertaking work to develop a robust climate change strategy, and has conducted a strategic review of its current climate-related risks and opportunities and identified and assessed the Company's material climate-related risks and opportunities at an enterprise level. As part of this work, Centerra will consider how climate-related factors might further influence its strategy and financial planning.

C4. Targets and performance

C4.1

(C4.1) Did you have an emissions target that was active in the reporting year?

No target

C4.1c

(C4.1c) Explain why you did not have an emissions target, and forecast how your emissions will change over the next five years.

	Primary reason	Five-year forecast	Please explain
Row 1	We are planning to introduce a target in the next two years	Centerra is currently undertaking work to develop a robust climate change strategy. This work will include the identification of climate change priorities and link to company strategy (giving consideration to Centerra's most material climate-related risks and opportunities). In 2020, this work will include development of metrics and targets to facilitate the measurement of Centerra's performance against its established climate change priorities.	Centerra is currently developing a climate change strategy that seeks to address its material climate-related risks and opportunities. This climate change strategy will be developed in alignment with the TCFD, and include qualitative scenario analysis to be included in the first year report. The work being conducted includes: • A materiality assessment to identify and prioritize climate-related risks and opportunities • A review of Centerra's current governance practices against established best practices in climate change governance • A critical review of Centerra's current climate strategy • Establishing climate change priorities for the company • A review of current processes for identifying, assessing and managing climate-related risks • An update of the current corporate risk register to include any potentially new and relevant climate-related risks • The development of metrics and targets to facilitate the measurement of Centerra's performance against its established climate change priorities • The development of a reporting, disclosure and communications approach on climate-related factors that is aligned to the TCFD (including qualitative scenario analysis). This work is currently underway and is expected to be completed by the end of 2020.

C4.2

(C4.2) Did you have any other climate-related targets that were active in the reporting year?

No other climate-related targets

C4.3

(C4.3) Did you have emissions reduction initiatives that were active within the reporting year? Note that this can include those in the planning and/or implementation phases.

Yes

C4.3a

(C4.3a) Identify the total number of initiatives at each stage of development, and for those in the implementation stages, the estimated CO2e savings.

	Number of initiatives	Total estimated annual CO2e savings in metric tonnes CO2e (only for rows marked *)
Under investigation		
To be implemented*	2	
Implementation commenced*		
Implemented*	1	
Not to be implemented		

C4.3b

(C4.3b) Provide details on the initiatives implemented in the reporting year in the table below.

Initiative category & Initiative type

Energy efficiency in production processes	Other, please specify (Waste recovery)
---	--

Estimated annual CO2e savings (metric tonnes CO2e)

Scope(s)

Scope 1

Voluntary/Mandatory

Voluntary

Annual monetary savings (unit currency – as specified in C0.4)

Investment required (unit currency – as specified in C0.4)

Payback period

Please select

Estimated lifetime of the initiative

Please select

Comment

The Kumtor mine has in place a biodegradable waste processing station or compost unit. Laboratory tests confirmed that the chemical biological composition of the final product - compost - fully complies with the properties of organic fertilizers. This station processes about 1 ton of food waste per day. Centerra is currently undertaking work to develop a robust climate change strategy, and has conducted a strategic review of its current climate-related risks and opportunities and identified and assessed the Company's material climate-related risks and opportunities at an enterprise level. As part of this work, Centerra will develop emissions reductions strategies.

C4.3c

(C4.3c) What methods do you use to drive investment in emissions reduction activities?

Method	Comment
Employee engagement	As part of our energy conservation efforts, we have implemented initiatives to encourage behaviour changes and increase employee ownership of climate-related objectives and emissions reductions activities.

C4.5

(C4.5) Do you classify any of your existing goods and/or services as low-carbon products or do they enable a third party to avoid GHG emissions?

No

C5. Emissions methodology

C5.1

(C5.1) Provide your base year and base year emissions (Scopes 1 and 2).

Scope 1

Base year start

January 1 2019

Base year end

December 31 2019

Base year emissions (metric tons CO2e)

447165

Comment

We have selected 2019 as the base year as this is the first year Centerra calculated its global GHG emissions using a standard protocol across all operating sites and including the Öksüt project.

Scope 2 (location-based)

Base year start

January 1 2019

Base year end

December 31 2019

Base year emissions (metric tons CO2e)

19685

Comment

We have selected 2019 as the base year as this is the first year Centerra calculated its global GHG emissions using a standard protocol across all operating sites and including the Öksüt project.

Scope 2 (market-based)

Base year start

Base year end

Base year emissions (metric tons CO2e)

Comment

C5.2

(C5.2) Select the name of the standard, protocol, or methodology you have used to collect activity data and calculate emissions.

IPCC Guidelines for National Greenhouse Gas Inventories, 2006
The Greenhouse Gas Protocol: A Corporate Accounting and Reporting Standard (Revised Edition)
Other, please specify (British Columbia Greenhouse Gas Reporting Regulation)

C5.2a

(C5.2a) Provide details of the standard, protocol, or methodology you have used to collect activity data and calculate emissions.

The Mount Milligan facility in British Columbia reports GHG emissions according to the British Columbia Greenhouse Gas Reporting Regulations and The Greenhouse Gas Protocol: A Corporate Accounting and Reporting Standard (Revised Edition).

The Oksut and Kumtor operations apply the IPCC Guidelines for National Greenhouse Gas Inventories and The Greenhouse Gas Protocol: A Corporate Accounting and Reporting Standard (Revised Edition).

C6. Emissions data

C6.1

(C6.1) What were your organization's gross global Scope 1 emissions in metric tons CO2e?

Reporting year

Gross global Scope 1 emissions (metric tons CO2e)

447165

Start date

<Not Applicable>

End date

<Not Applicable>

Comment

C6.2

(C6.2) Describe your organization's approach to reporting Scope 2 emissions.

Row 1

Scope 2, location-based

We are reporting a Scope 2, location-based figure

Scope 2, market-based

Please select

Comment

C6.3

(C6.3) What were your organization's gross global Scope 2 emissions in metric tons CO2e?

Reporting year

Scope 2, location-based

19685

Scope 2, market-based (if applicable)

<Not Applicable>

Start date

<Not Applicable>

End date

<Not Applicable>

Comment

C6.4

(C6.4) 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?

No

C6.5

(C6.5) Account for your organization's gross global Scope 3 emissions, disclosing and explaining any exclusions.

Purchased goods and services

Evaluation status

Not evaluated

Metric tonnes CO2e

<Not Applicable>

Emissions calculation methodology

<Not Applicable>

Percentage of emissions calculated using data obtained from suppliers or value chain partners

<Not Applicable>

Please explain

Due to data limitations, Centerra has not evaluated its Scope 3 GHG emissions. The company will evaluate the cost/benefit of measuring its Scope 3 GHG emissions in the future.

Capital goods

Evaluation status

Not evaluated

Metric tonnes CO2e

<Not Applicable>

Emissions calculation methodology

<Not Applicable>

Percentage of emissions calculated using data obtained from suppliers or value chain partners

<Not Applicable>

Please explain

Due to data limitations, Centerra has not evaluated its Scope 3 GHG emissions. The company will evaluate the cost/benefit of measuring its Scope 3 GHG emissions in the future.

Fuel-and-energy-related activities (not included in Scope 1 or 2)

Evaluation status

Not evaluated

Metric tonnes CO2e

<Not Applicable>

Emissions calculation methodology

<Not Applicable>

Percentage of emissions calculated using data obtained from suppliers or value chain partners

<Not Applicable>

Please explain

Due to data limitations, Centerra has not evaluated its Scope 3 GHG emissions. The company will evaluate the cost/benefit of measuring its Scope 3 GHG emissions in the future.

Upstream transportation and distribution

Evaluation status

Not evaluated

Metric tonnes CO2e

<Not Applicable>

Emissions calculation methodology

<Not Applicable>

Percentage of emissions calculated using data obtained from suppliers or value chain partners

<Not Applicable>

Please explain

Due to data limitations, Centerra has not evaluated its Scope 3 GHG emissions. The company will evaluate the cost/benefit of measuring its Scope 3 GHG emissions in the future.

Waste generated in operations

Evaluation status

Not evaluated

Metric tonnes CO2e

<Not Applicable>

Emissions calculation methodology

<Not Applicable>

Percentage of emissions calculated using data obtained from suppliers or value chain partners

<Not Applicable>

Please explain

Due to data limitations, Centerra has not evaluated its Scope 3 GHG emissions. The company will evaluate the cost/benefit of measuring its Scope 3 GHG emissions in the future.

Business travel

Evaluation status

Not evaluated

Metric tonnes CO2e

<Not Applicable>

Emissions calculation methodology

<Not Applicable>

Percentage of emissions calculated using data obtained from suppliers or value chain partners

<Not Applicable>

Please explain

Due to data limitations, Centerra has not evaluated its Scope 3 GHG emissions. The company will evaluate the cost/benefit of measuring its Scope 3 GHG emissions in the future.

Employee commuting

Evaluation status

Not evaluated

Metric tonnes CO2e

<Not Applicable>

Emissions calculation methodology

<Not Applicable>

Percentage of emissions calculated using data obtained from suppliers or value chain partners

<Not Applicable>

Please explain

Due to data limitations, Centerra has not evaluated its Scope 3 GHG emissions. The company will evaluate the cost/benefit of measuring its Scope 3 GHG emissions in the future.

Upstream leased assets

Evaluation status

Not evaluated

Metric tonnes CO2e

<Not Applicable>

Emissions calculation methodology

<Not Applicable>

Percentage of emissions calculated using data obtained from suppliers or value chain partners

<Not Applicable>

Please explain

Due to data limitations, Centerra has not evaluated its Scope 3 GHG emissions. The company will evaluate the cost/benefit of measuring its Scope 3 GHG emissions in the future.

Downstream transportation and distribution

Evaluation status

Not evaluated

Metric tonnes CO2e

<Not Applicable>

Emissions calculation methodology

<Not Applicable>

Percentage of emissions calculated using data obtained from suppliers or value chain partners

<Not Applicable>

Please explain

Due to data limitations, Centerra has not evaluated its Scope 3 GHG emissions. The company will evaluate the cost/benefit of measuring its Scope 3 GHG emissions in the future.

Processing of sold products

Evaluation status

Not evaluated

Metric tonnes CO2e

<Not Applicable>

Emissions calculation methodology

<Not Applicable>

Percentage of emissions calculated using data obtained from suppliers or value chain partners

<Not Applicable>

Please explain

Due to data limitations, Centerra has not evaluated its Scope 3 GHG emissions. The company will evaluate the cost/benefit of measuring its Scope 3 GHG emissions in the future.

Use of sold products

Evaluation status

Not evaluated

Metric tonnes CO2e

<Not Applicable>

Emissions calculation methodology

<Not Applicable>

Percentage of emissions calculated using data obtained from suppliers or value chain partners

<Not Applicable>

Please explain

Due to data limitations, Centerra has not evaluated its Scope 3 GHG emissions. The company will evaluate the cost/benefit of measuring its Scope 3 GHG emissions in the future.

End of life treatment of sold products

Evaluation status

Not evaluated

Metric tonnes CO2e

<Not Applicable>

Emissions calculation methodology

<Not Applicable>

Percentage of emissions calculated using data obtained from suppliers or value chain partners

<Not Applicable>

Please explain

Due to data limitations, Centerra has not evaluated its Scope 3 GHG emissions. The company will evaluate the cost/benefit of measuring its Scope 3 GHG emissions in the future.

Downstream leased assets

Evaluation status

Not evaluated

Metric tonnes CO2e

<Not Applicable>

Emissions calculation methodology

<Not Applicable>

Percentage of emissions calculated using data obtained from suppliers or value chain partners

<Not Applicable>

Please explain

Due to data limitations, Centerra has not evaluated its Scope 3 GHG emissions. The company will evaluate the cost/benefit of measuring its Scope 3 GHG emissions in the future.

Franchises

Evaluation status

Not evaluated

Metric tonnes CO2e

<Not Applicable>

Emissions calculation methodology

<Not Applicable>

Percentage of emissions calculated using data obtained from suppliers or value chain partners

<Not Applicable>

Please explain

Due to data limitations, Centerra has not evaluated its Scope 3 GHG emissions. The company will evaluate the cost/benefit of measuring its Scope 3 GHG emissions in the future.

Investments

Evaluation status

Not evaluated

Metric tonnes CO2e

<Not Applicable>

Emissions calculation methodology

<Not Applicable>

Percentage of emissions calculated using data obtained from suppliers or value chain partners

<Not Applicable>

Please explain

Due to data limitations, Centerra has not evaluated its Scope 3 GHG emissions. The company will evaluate the cost/benefit of measuring its Scope 3 GHG emissions in the future.

Other (upstream)

Evaluation status

Not evaluated

Metric tonnes CO2e

<Not Applicable>

Emissions calculation methodology

<Not Applicable>

Percentage of emissions calculated using data obtained from suppliers or value chain partners

<Not Applicable>

Please explain

Due to data limitations, Centerra has not evaluated its Scope 3 GHG emissions. The company will evaluate the cost/benefit of measuring its Scope 3 GHG emissions in the future.

Other (downstream)

Evaluation status

Not evaluated

Metric tonnes CO2e

<Not Applicable>

Emissions calculation methodology

<Not Applicable>

Percentage of emissions calculated using data obtained from suppliers or value chain partners

<Not Applicable>

Please explain

Due to data limitations, Centerra has not evaluated its Scope 3 GHG emissions. The company will evaluate the cost/benefit of measuring its Scope 3 GHG emissions in the future.

C6.7

(C6.7) Are carbon dioxide emissions from biogenic carbon relevant to your organization?

No

C6.10

(C6.10) Describe your gross global combined Scope 1 and 2 emissions for the reporting year in metric tons CO2e per unit currency total revenue and provide any additional intensity metrics that are appropriate to your business operations.

Intensity figure

0.000339

Metric numerator (Gross global combined Scope 1 and 2 emissions, metric tons CO2e)

466850

Metric denominator

unit total revenue

Metric denominator: Unit total

1375000000

Scope 2 figure used

Location-based

% change from previous year

0

Direction of change

No change

Reason for change

This is the first year that Centerra is reporting company-wide GHG emissions.

C7. Emissions breakdowns

C7.1

(C7.1) Does your organization break down its Scope 1 emissions by greenhouse gas type?

Yes

C7.1a

(C7.1a) Break down your total gross global Scope 1 emissions by greenhouse gas type and provide the source of each used greenhouse warming potential (GWP).

Greenhouse gas	Scope 1 emissions (metric tons of CO2e)	GWP Reference
CO2	422450	IPCC Fourth Assessment Report (AR4 - 100 year)
CH4	1820	IPCC Fourth Assessment Report (AR4 - 100 year)
N2O	22895	IPCC Fourth Assessment Report (AR4 - 100 year)

C7.2

(C7.2) Break down your total gross global Scope 1 emissions by country/region.

Country/Region	Scope 1 emissions (metric tons CO2e)
Canada	66653
Kyrgyzstan	361441
Turkey	19070

C7.3

(C7.3) Indicate which gross global Scope 1 emissions breakdowns you are able to provide.

By facility

C7.3b

(C7.3b) Break down your total gross global Scope 1 emissions by business facility.

Facility	Scope 1 emissions (metric tons CO2e)	Latitude	Longitude
Mount Milligan Mine in BC, Canada	66653		
Kumtor Mine in the Kyrgyzstan	361441		
Oksut Mine in Turkey	19070		

C-CE7.4/C-CH7.4/C-CO7.4/C-EU7.4/C-MM7.4/C-OG7.4/C-ST7.4/C-TO7.4/C-TS7.4

(C-CE7.4/C-CH7.4/C-CO7.4/C-EU7.4/C-MM7.4/C-OG7.4/C-ST7.4/C-TO7.4/C-TS7.4) Break down your organization's total gross global Scope 1 emissions by sector production activity in metric tons CO2e.

	Gross Scope 1 emissions, metric tons CO2e	Net Scope 1 emissions, metric tons CO2e	Comment
Cement production activities	<Not Applicable>	<Not Applicable>	<Not Applicable>
Chemicals production activities	<Not Applicable>	<Not Applicable>	<Not Applicable>
Coal production activities	<Not Applicable>	<Not Applicable>	<Not Applicable>
Electric utility activities	<Not Applicable>	<Not Applicable>	<Not Applicable>
Metals and mining production activities	447165	<Not Applicable>	
Oil and gas production activities (upstream)	<Not Applicable>	<Not Applicable>	<Not Applicable>
Oil and gas production activities (midstream)	<Not Applicable>	<Not Applicable>	<Not Applicable>
Oil and gas production activities (downstream)	<Not Applicable>	<Not Applicable>	<Not Applicable>
Steel production activities	<Not Applicable>	<Not Applicable>	<Not Applicable>
Transport OEM activities	<Not Applicable>	<Not Applicable>	<Not Applicable>
Transport services activities	<Not Applicable>	<Not Applicable>	<Not Applicable>

C7.5

(C7.5) Break down your total gross global Scope 2 emissions by country/region.

Country/Region	Scope 2, location-based (metric tons CO2e)	Scope 2, market-based (metric tons CO2e)	Purchased and consumed electricity, heat, steam or cooling (MWh)	Purchased and consumed low-carbon electricity, heat, steam or cooling accounted for in Scope 2 market-based approach (MWh)
Canada	5196		287346	
Kyrgyzstan	12931		535708	
Turkey	1558		2867	

C7.6

(C7.6) Indicate which gross global Scope 2 emissions breakdowns you are able to provide.

By facility

C7.6b

(C7.6b) Break down your total gross global Scope 2 emissions by business facility.

Facility	Scope 2, location-based (metric tons CO2e)	Scope 2, market-based (metric tons CO2e)
Mount Milligan Mine in BC, Canada	5196	
Kumtor Mine in the Kyrgyzstan	12931	
Oksut Mine in Turkey	1558	

C-CE7.7/C-CH7.7/C-CO7.7/C-MM7.7/C-OG7.7/C-ST7.7/C-TO7.7/C-TS7.7

(C-CE7.7/C-CH7.7/C-CO7.7/C-MM7.7/C-OG7.7/C-ST7.7/C-TO7.7/C-TS7.7) Break down your organization's total gross global Scope 2 emissions by sector production activity in metric tons CO2e.

	Scope 2, location-based, metric tons CO2e	Scope 2, market-based (if applicable), metric tons CO2e	Comment
Cement production activities	<Not Applicable>	<Not Applicable>	<Not Applicable>
Chemicals production activities	<Not Applicable>	<Not Applicable>	<Not Applicable>
Coal production activities	<Not Applicable>	<Not Applicable>	<Not Applicable>
Metals and mining production activities	19685		
Oil and gas production activities (upstream)	<Not Applicable>	<Not Applicable>	<Not Applicable>
Oil and gas production activities (midstream)	<Not Applicable>	<Not Applicable>	<Not Applicable>
Oil and gas production activities (downstream)	<Not Applicable>	<Not Applicable>	<Not Applicable>
Steel production activities	<Not Applicable>	<Not Applicable>	<Not Applicable>
Transport OEM activities	<Not Applicable>	<Not Applicable>	<Not Applicable>
Transport services activities	<Not Applicable>	<Not Applicable>	<Not Applicable>

C7.9

(C7.9) How do your gross global emissions (Scope 1 and 2 combined) for the reporting year compare to those of the previous reporting year?

This is our first year of reporting, so we cannot compare to last year

C8. Energy

C8.1

(C8.1) What percentage of your total operational spend in the reporting year was on energy?

More than 15% but less than or equal to 20%

C8.2

(C8.2) Select which energy-related activities your organization has undertaken.

	Indicate whether your organization undertook this energy-related activity in the reporting year
Consumption of fuel (excluding feedstocks)	Yes
Consumption of purchased or acquired electricity	Yes
Consumption of purchased or acquired heat	No
Consumption of purchased or acquired steam	No
Consumption of purchased or acquired cooling	No
Generation of electricity, heat, steam, or cooling	No

C8.2a

(C8.2a) Report your organization's energy consumption totals (excluding feedstocks) in MWh.

	Heating value	MWh from renewable sources	MWh from non-renewable sources	Total (renewable and non-renewable) MWh
Consumption of fuel (excluding feedstock)	LHV (lower heating value)	0	1586923	1586923
Consumption of purchased or acquired electricity	<Not Applicable>	0	825921	825921
Consumption of purchased or acquired heat	<Not Applicable>	<Not Applicable>	<Not Applicable>	<Not Applicable>
Consumption of purchased or acquired steam	<Not Applicable>	<Not Applicable>	<Not Applicable>	<Not Applicable>
Consumption of purchased or acquired cooling	<Not Applicable>	<Not Applicable>	<Not Applicable>	<Not Applicable>
Consumption of self-generated non-fuel renewable energy	<Not Applicable>	<Not Applicable>	<Not Applicable>	<Not Applicable>
Total energy consumption	<Not Applicable>	0	2412844	2412844

C-MM8.2a

(C-MM8.2a) Report your organization's energy consumption totals (excluding feedstocks) for metals and mining production activities in MWh.

	Heating value	Total MWh
Consumption of fuel (excluding feedstocks)	LHV (lower heating value)	1586923
Consumption of purchased or acquired electricity	<Not Applicable>	825921
Consumption of purchased or acquired heat	<Not Applicable>	<Not Applicable>
Consumption of purchased or acquired steam	<Not Applicable>	<Not Applicable>
Consumption of purchased or acquired cooling	<Not Applicable>	<Not Applicable>
Consumption of self-generated non-fuel renewable energy	<Not Applicable>	0
Total energy consumption	<Not Applicable>	2412844

C8.2b

(C8.2b) Select the applications of your organization's consumption of fuel.

	Indicate whether your organization undertakes this fuel application
Consumption of fuel for the generation of electricity	No
Consumption of fuel for the generation of heat	No
Consumption of fuel for the generation of steam	No
Consumption of fuel for the generation of cooling	No
Consumption of fuel for co-generation or tri-generation	No

C8.2c

(C8.2c) State how much fuel in MWh your organization has consumed (excluding feedstocks) by fuel type.

Fuels (excluding feedstocks)

Diesel

Heating value

LHV (lower heating value)

Total fuel MWh consumed by the organization

1574615

MWh fuel consumed for self-generation of electricity

<Not Applicable>

MWh fuel consumed for self-generation of heat

<Not Applicable>

MWh fuel consumed for self-generation of steam

<Not Applicable>

MWh fuel consumed for self-generation of cooling

<Not Applicable>

MWh fuel consumed for self-cogeneration or self-trigeneration

<Not Applicable>

Emission factor

78.43

Unit

metric tons CO2e per GJ

Emissions factor source

IPCC Guidelines for National Greenhouse Gas Inventories, 2006 WCI.020 WCI.280

Comment

Fuels (excluding feedstocks)

Propane Gas

Heating value

LHV (lower heating value)

Total fuel MWh consumed by the organization

6208

MWh fuel consumed for self-generation of electricity

<Not Applicable>

MWh fuel consumed for self-generation of heat

<Not Applicable>

MWh fuel consumed for self-generation of steam

<Not Applicable>

MWh fuel consumed for self-generation of cooling

<Not Applicable>

MWh fuel consumed for self-cogeneration or self-trigeneration

<Not Applicable>

Emission factor

44.92

Unit

metric tons CO2e per GJ

Emissions factor source

WCI.020

Comment

Fuels (excluding feedstocks)

Liquefied Natural Gas (LNG)

Heating value

LHV (lower heating value)

Total fuel MWh consumed by the organization

172

MWh fuel consumed for self-generation of electricity

<Not Applicable>

MWh fuel consumed for self-generation of heat

<Not Applicable>

MWh fuel consumed for self-generation of steam

<Not Applicable>

MWh fuel consumed for self-generation of cooling

<Not Applicable>

MWh fuel consumed for self-cogeneration or self-trigeneration

<Not Applicable>

Emission factor

56.15

Unit

metric tons CO2e per GJ

Emissions factor source

IPCC Guidelines for National Greenhouse Gas Inventories, 2006

Comment

Fuels (excluding feedstocks)

Gas Oil

Heating value

LHV (lower heating value)

Total fuel MWh consumed by the organization

5929

MWh fuel consumed for self-generation of electricity

<Not Applicable>

MWh fuel consumed for self-generation of heat

<Not Applicable>

MWh fuel consumed for self-generation of steam

<Not Applicable>

MWh fuel consumed for self-generation of cooling

<Not Applicable>

MWh fuel consumed for self-cogeneration or self-trigeneration

<Not Applicable>

Emission factor

71.18

Unit

metric tons CO2e per GJ

Emissions factor source

IPCC Guidelines for National Greenhouse Gas Inventories, 2006 WCI.020 WCI.280

Comment

C9. Additional metrics

C9.1

(C9.1) Provide any additional climate-related metrics relevant to your business.

C-MM9.3a

(C-MM9.3a) Provide details on the commodities relevant to the mining production activities of your organization.

Output product

Gold

783,308 ounces

Capacity, metric tons

Production, metric tons

22.2

Production, copper-equivalent units (metric tons)

Scope 1 emissions

Scope 2 emissions

Scope 2 emissions approach

Please select

Pricing methodology for copper-equivalent figure

Comment

Amount taken from 2019 Annual Report and converted into metric tons.

Output product

Copper

71,146,000 pounds

Capacity, metric tons

Production, metric tons

32271.28

Production, copper-equivalent units (metric tons)

Scope 1 emissions

Scope 2 emissions

Scope 2 emissions approach

Please select

Pricing methodology for copper-equivalent figure

Comment

Amount taken from 2019 Annual Report and converted into metric tons.

C-CE9.6/C-CG9.6/C-CH9.6/C-CN9.6/C-CO9.6/C-EU9.6/C-MM9.6/C-OG9.6/C-RE9.6/C-ST9.6/C-TO9.6/C-TS9.6

(C-CE9.6/C-CG9.6/C-CH9.6/C-CN9.6/C-CO9.6/C-EU9.6/C-MM9.6/C-OG9.6/C-RE9.6/C-ST9.6/C-TO9.6/C-TS9.6) Does your organization invest in research and development (R&D) of low-carbon products or services related to your sector activities?

	Investment in low-carbon R&D	Comment
Row 1	No	Centerra is currently undertaking work to develop a robust climate change strategy, and has conducted a strategic review of its current climate-related risks and opportunities and identified and assessed the Company's material climate-related risks and opportunities at an enterprise level. As part of this work, Centerra will consider how climate-related factors might influence its strategy as it relates to its investment in R&D.

C10. Verification

C10.1

(C10.1) Indicate the verification/assurance status that applies to your reported emissions.

	Verification/assurance status
Scope 1	No third-party verification or assurance
Scope 2 (location-based or market-based)	No third-party verification or assurance
Scope 3	No emissions data provided

C10.2

(C10.2) Do you verify any climate-related information reported in your CDP disclosure other than the emissions figures reported in C6.1, C6.3, and C6.5?

No, but we are actively considering verifying within the next two years

C11. Carbon pricing

C11.1

(C11.1) Are any of your operations or activities regulated by a carbon pricing system (i.e. ETS, Cap & Trade or Carbon Tax)?

Yes

C11.1a

(C11.1a) Select the carbon pricing regulation(s) which impacts your operations.

BC carbon tax

C11.1c

(C11.1c) Complete the following table for each of the tax systems you are regulated by.

BC carbon tax

Period start date

January 1 2019

Period end date

December 31 2019

% of total Scope 1 emissions covered by tax

14.9

Total cost of tax paid

0

Comment

Represents Scope 1 emissions of Mount Milligan Mine in BC (66,653/447,165).

C11.1d

(C11.1d) What is your strategy for complying with the systems you are regulated by or anticipate being regulated by?

Centerra is currently undertaking work to develop a robust climate change strategy, and has conducted a strategic review of its current climate-related risks and opportunities and identified and assessed the Company's material climate-related risks and opportunities at an enterprise level. As part of this work, Centerra will develop strategies to address its key climate-related risks, including those related to carbon pricing.

C11.2

(C11.2) Has your organization originated or purchased any project-based carbon credits within the reporting period?

No

C11.3

(C11.3) Does your organization use an internal price on carbon?

No, and we do not currently anticipate doing so in the next two years

C12. Engagement

C12.1

(C12.1) Do you engage with your value chain on climate-related issues?

No, we do not engage

C12.1e

(C12.1e) Why do you not engage with any elements of your value chain on climate-related issues, and what are your plans to do so in the future?

Centerra is currently undertaking work to develop a robust climate change strategy, and has conducted a strategic review of its current climate-related risks and opportunities and identified and assessed the Company's material climate-related risks and opportunities at an enterprise level. As part of this work, Centerra will consider how engagement activities with its value chain could support its climate change objectives.

C12.3

(C12.3) Do you engage in activities that could either directly or indirectly influence public policy on climate-related issues through any of the following?

No

C12.3g

(C12.3g) Why do you not engage with policy makers on climate-related issues?

Centerra is currently undertaking work to develop a robust climate change strategy, and has conducted a strategic review of its current climate-related risks and opportunities and identified and assessed the Company's material climate-related risks and opportunities at an enterprise level. As part of this work, Centerra will consider how engagement activities with its value chain could support its climate change objectives.

C12.4

(C12.4) 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

In voluntary sustainability report

Status

Underway – previous year attached

Attach the document

CG_2018_Sustainability_Data_Supplement.pdf

Page/Section reference

Our Material ESG Issues - Page 7 Energy and Emissions - Page 19

Content elements

Risks & opportunities
Emissions figures

Comment

Publication

In mainstream reports

Status

Complete

Attach the document

2019 AIF.pdf

Page/Section reference

Risk Factors - Page 101, 109, 113

Content elements

Risks & opportunities

Comment

C15. Signoff

C-FI

(C-FI) Use this field to provide any additional information or context that you feel is relevant to your organization's response. Please note that this field is optional and is not scored.

Information contained in this response which are not statements of historical facts, and the documents incorporated by reference herein, may be "forward-looking information" for the purposes of Canadian securities laws. Such forward-looking information involves risks, uncertainties and other factors that could cause actual results, performance, prospects and opportunities to differ materially from those expressed or implied by such forward looking information. The words "believe", "expect", "anticipate", "contemplate", "plan", "intends", "continue", "budget", "estimate", "may", "will", "schedule", "understand" and similar expressions identify forward-looking information. These forward-looking statements relate to, among other things: the discussion of plans are underway to develop a climate change strategy and how this may impact Centerra's strategy, potential impacts of the potential risks and opportunities identified, as set out in the responses, including likelihood, magnitude, potential financial impact, cost of response and strategy to respond.

Forward-looking information is necessarily based upon a number of estimates and assumptions that, while considered reasonable by Centerra, are inherently subject to significant political, business, economic and competitive uncertainties and contingencies. Known and unknown factors could cause actual results to differ materially from those projected in the forward-looking information.

There can be no assurances that forward-looking information and statements will prove to be accurate, as many factors and future events, both known and unknown could cause actual results, performance or achievements to vary or differ materially from the results, performance or achievements that are or may be expressed or implied by such forward-looking statements contained herein or incorporated by reference. Accordingly, all such factors should be considered carefully when making decisions with respect to Centerra, and prospective investors should not place undue reliance on forward looking information. Forward-looking information is as of August 26, 2020. Centerra assumes no obligation to update or revise forward looking information to reflect changes in assumptions, changes in circumstances or any other events affecting such forward-looking information, except as required by applicable law.

C15.1

(C15.1) Provide details for the person that has signed off (approved) your CDP climate change response.

	Job title	Corresponding job category
Row 1	President and CEO	Chief Executive Officer (CEO)

Submit your response

In which language are you submitting your response?

English

Please confirm how your response should be handled by CDP

	I am submitting to	Public or Non-Public Submission
I am submitting my response	Investors	Public

Please confirm below

I have read and accept the applicable Terms