Welcome to your CDP Climate Change Questionnaire 2023

C0. Introduction

C0.1

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

Constellation Energy Corporation (Constellation, or the Company) (NASDAQ: CEG) is the nation's largest producer of clean, carbon-free energy and a leading supplier of sustainable power and energy products and services for homes and businesses across the United States (U.S.). Our businesses supply about 10 percent of the U.S. grid's clean, carbon-free power, through our nuclear, wind, solar and hydroelectric assets. We also operate natural gas and other assets that provide a mix of baseload, intermediate and peak power generation. Our family of retail businesses serves approximately 2 million homes and businesses, including approximately 75 percent of the *Fortune 100*.

In the first quarter of 2022, Constellation finalized its separation from Exelon as the largest producer of clean, carbon-free energy in the country. Headquartered in Baltimore, Maryland, Constellation operates in 48 U.S. states, the District of Columbia, Canada and the United Kingdom. Our business is supported by our skilled workforce of over 13,000 employees.

Our purpose is to accelerate the nation's transition to a carbon-free future with a generation fleet capacity of 32,355 megawatts (MW) and an annual output that is almost 90 percent carbon-free, generating enough clean energy to power the equivalent of 15 million homes. Our nuclear fleet, the nation's largest, is a critical driver of the energy transition, providing resilient and readily dispatchable energy that stabilizes the electricity grid, especially as more intermittent renewable energy resources come online. We offer innovative clean energy solutions, such as hourly carbon-free energy matching, to help customers reach their own climate goals, and we pioneer new technologies at our clean energy centers, such as hydrogen production, to help decarbonize other hard-to-abate industries.

At Constellation, sustainability is at our core. Our values provide a common foundation for our work as a premier sustainability company and proven leader in providing clean, carbon-free energy. We are driven by our commitment to create long-term value for our customers, communities and shareholders by combining next-generation energy products and services with the nation's top-producing fleet of carbon-free generation assets. Our superior operational performance, nearly two decades of best-in-industry nuclear capacity factors and a strong customer-facing business enable us to be a leader in the clean energy transition and meet the challenges of the climate crisis.

C0.2

(C0.2) State the start and end date of the year for which you are reporting data and indicate whether you will be providing emissions data for past reporting years.

Reporting year

Start date

January 1, 2022

End date

December 31, 2022

Indicate if you are providing emissions data for past reporting years

Yes

Select the number of past reporting years you will be providing Scope 1 emissions data for

2 years

Select the number of past reporting years you will be providing Scope 2 emissions data for

2 years

Select the number of past reporting years you will be providing Scope 3 emissions data for

2 years

C0.3

(C0.3) Select the countries/areas in which you operate.

Canada
United Kingdom of Great Britain and Northern Ireland
United States of America

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.

Equity share

C-EU0.7

(C-EU0.7) Which part of the electric utilities value chain does your organization operate in? Select all that apply.

Row 1

Electric utilities value chain

Electricity generation

Other divisions

Gas storage, transmission and distribution

C0.8

(C0.8) Does your organization have an ISIN code or another unique identifier (e.g., Ticker, CUSIP, etc.)?

Indicate whether you are able to provide a unique identifier for your organization	Provide your unique identifier
Yes, an ISIN code	US21037T1097

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 or committee	Responsibilities for climate-related issues
Board-level committee	The Corporate Governance Committee is specifically tasked with overseeing sustainability and climate change strategies, including impacts on the economy and people, and efforts to protect and improve the environment. The Committee has oversight over the Company's strategies and efforts to protect and improve the quality of the environment, including, but not limited to, the Company's climate change and sustainability policies and programs, and any material Company disclosures on these matters.

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	Please explain
Scheduled – all meetings	Reviewing and guiding strategy	Given the nature of the Company's business, climate-related issues, especially around carbon-free generation of electricity, are discussed at every board meeting. We also have specific executive leaders responsible for advancing our ESG principles. For instance, the Constellation Sustainability Council, led by the Vice President of Sustainability and Climate Strategy, is comprised of executive representatives from key functions within Constellation. The Council meets four times per year to review sustainability policies and initiatives, ensure strategic alignment, discuss emerging ESG trends, and make informed suggestions to senior leadership.

C1.1d

(C1.1d) Does your organization have at least one board member with competence on climate-related issues?

	Board member(s) have competence on climate-related issues	Criteria used to assess competence of board member(s) on climate-related issues
Row 1	Yes	Constellation's proxy statement includes a skills matrix which identifies the five most prominent skills and attributes that each director brings to their service to Constellation's Board and committees. While each independent director possesses numerous skills and attributes, Constellation believes that identifying the five most prominent skills and attributes provides a much more meaningful presentation of the key contributions and value of each director. Three directors were identified as having Environment and Sustainability as one of their top five skills based on their respective experiences in working in leadership roles or serving on boards of directors where they either led or oversaw key components of climate change, including (i) literacy in sciences, environmental matters, policy landscape and management, and (ii) knowledge or experience in strategic planning, decision-making, compliance, enterprise risk management or governance related to climate matters.

C1.2

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

Position or committee

Chief Executive Officer (CEO)

Climate-related responsibilities of this position

Managing major capital and/or operational expenditures related to low-carbon products or services (including R&D)
Managing climate-related acquisitions, mergers, and divestitures
Developing a climate transition plan
Implementing a climate transition plan

Coverage of responsibilities

Reporting line

Reports to the board directly

Frequency of reporting to the board on climate-related issues via this reporting line

More frequently than quarterly

Please explain

Constellation combines the largest carbon-free generation fleet in the U.S. with one of the leading customer-facing businesses, which offers innovative solutions along the sustainability continuum. As such, Constellation is purpose-built to meet the challenges of the climate crisis. Accordingly, it is imperative that the responsibility for overseeing and leading the company with respect to climate-related issues rests with the Chief Executive.

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, not currently but we plan to introduce them in the next two years	At present our executive compensation program does not include climate-related metrics; however, including such metrics is under evaluation.

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	When evaluating risks across time horizons we segregate them into the following tenors: Short Term < 12mos Medium Term 1 – 5 years Long Term > 5 years

Medium-term	1	5	
Long-term	6	20	In order to comply with the requirements of this questionnaire we have set the limit in the 'To (years)' to 20, however as mentioned above, the long term horizon considers risks above 5 years.

C2.1b

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

Risks are identified and assessed on an inherent and residual basis and for the purposes of internal decision making, we measure the impact of risks within each of our risk categories using qualitative and quantitative factors, which range from insignificant to very significant. For the purposes of our Enterprise Risk Management (ERM) process, we determine that a risk has a substantive impact, financial and/or strategic, if the residual risk has a probability of occurrence higher than 25%, and impact on income loss higher than $200M.

When identifying, assessing, responding and reporting on climate related risks, the Transition risk types, as defined by CDP, are embedded within broader risks such as Regulatory, Disruptive Technologies, Legal, and Market risks as well as the Acute physical risks.

As for the Chronic physical risks, when Constellation was part of Exelon, we performed a climate risk assessment to identify and quantify climate-related risks and opportunities and evaluate business resiliency under various industry-recognized climate scenarios. For more information, please see the Risk Management: Identifying, Assessing and Managing Climate-related Risks section of Exelon's 2020 Sustainability Report. We intend to update that climate risk assessment to understand our specific risks and opportunities given the passage of time and hope to provide more details in next year's questionnaire.

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

Upstream
Downstream

Risk management process

A specific climate-related risk management process

Frequency of assessment

More than once a year

Time horizon(s) covered

Short-term
Medium-term

Description of process

We conduct seasonal readiness reviews at our power plants to ensure availability of fuel supplies and equipment performance before entering the summer and winter seasons and we consider and review national climate assessments to inform our short-term planning (storm seasons, potential peak demand, fuel requirements) as well as our longer-term planning.

Past experiences have been used to improve our efforts to further the reliability of our assets during extreme weather events.

Our nuclear fleet is resilient to weather extremes and generates emissions-free electricity 24 hours a day even during unexpectedly cold winter events and hot summer events.

Value chain stage(s) covered

Direct operations
Upstream
Downstream

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

Our Enterprise Risk Management team coordinates our risk management program, and assessments at this level are performed at least annually. Additionally, we have robust governance processes in place to help manage and mitigate operational risks at the site level.

The Board of Director's Audit and Risk Committee ultimately approves our internal audit risk assessment and oversees our risk management program, which incorporates strategic, financial, operational, regulatory and legal risk into future business planning.

For more information on Constellation's identified risks, please see the Risk Factors section of our 2022 Form 10-K.

C2.2a

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

	Relevance & inclusion	Please explain
Current regulation	Relevant, always included	We are subject to comprehensive and complex environmental regulation at the federal, state, and local levels, including requirements relating to climate change, air quality and GHG emissions, water quality, solid and hazardous waste, and impacts on species and habitats.
Emerging regulation	Relevant, always included	We may become subject to additional or emerging federal and/or state regulations addressing GHG emissions. The electric sector plays a key role in lowering GHG emissions across the rest of the economy. Electrification of other sectors such as transportation and buildings coupled with simultaneous decarbonization of electric generation is a key lever for emissions

		reductions. To support this transition, we are advocating for public policy supportive of vehicle electrification, investing in enabling infrastructure and technology, and supporting customer education and adoption.
Technology	Relevant, always included	Emerging technologies are expected to help accelerate the economy's decarbonization. Lower costs, state-directed mandates, a backlog of storage projects in the interconnection queue, and utilities seeking large-scale storage capacity to support higher renewables penetration have created conditions for rapid growth of this technology in the U.S. Clean hydrogen also has the potential to drive decarbonization, particularly as it relates to more challenging sectors like long-haul transportation, steel, chemicals, heating, agriculture, and long-term power storage.
Legal	Relevant, always included	We may become subject to additional or emerging federal and/or state legislation that addresses climate change and that may impact the design of power markets, the renewal of permits and operating licenses. The Inflation Reduction Act of 2022 includes federal tax credits, certain of which are transferable or fully refundable, for clean energy technologies including existing nuclear plants and hydrogen production facilities. Legal proceedings arising from past or current operations could result in a negative outcome.
Market	Relevant, always included	Risks related to market factors include the price of fuels, in particular the price of natural gas, which affects power prices, the generation resources in the markets in which we operate, and our ability to operate our generating assets. Additionally, our customer facing business may be impacted by the ability to meet customer clean energy and climate goals.
Reputation	Relevant, always included	We could be subject to adverse publicity and reputational risks, which make us vulnerable to negative customer perception. Our ability to meet our climate goals as well as our ability to aid our customers in the transition to a low-carbon economy could materialize this impact.
Acute physical	Relevant, always included	Our operations are affected by weather, which affects demand for electricity and natural gas, as well as operating conditions. The market price for electricity is also affected by changes in the demand for electricity and the available supply of electricity as a result of severe weather conditions such as heat waves or extreme winter weather.
Chronic physical	Relevant, always included	Our facilities and operations are subject to the global impacts of climate change. Long-term shifts in climatic patterns, such as sustained higher temperatures and sea level rise, may present challenges for our facilities and services. We believe our operations could be significantly affected by the physical risks of climate change.

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

Acute physical

Other, please specify

Cold wave, heat wave, drought, flood, storm

Primary potential financial impact

Decreased revenues due to reduced production capacity

Company-specific description

Our operations are affected by weather, which impacts demand for electricity and natural gas, the price of energy commodities, as well as operating conditions.

To the extent that weather is warmer in the summer or colder in the winter than assumed, we could require greater resources to meet our

contractual commitments. Extreme weather conditions or storms have affected the availability of generation and its transmission, limiting our ability to source or send power to where it is sold, and have also impaired the transportation of natural gas to our generating assets and our ability to supply natural gas to our customers.

In addition, drought-like conditions limiting water usage could impact our ability to run certain generating assets at full capacity. These conditions, which cannot be reliably predicted could cause market volatility.

Time horizon

Medium-term

Likelihood

About as likely as not

Magnitude of impact

Medium-high

Are you able to provide a potential financial impact figure?

Yes, a single figure estimate

Potential financial impact figure (currency)

800,000,000

Potential financial impact figure – minimum (currency)

Potential financial impact figure – maximum (currency)

Explanation of financial impact figure

The impacts to our business during past extreme weather experiences were considered to calculate an estimate of the impact of an acute physical risk. This is an approximate value.

Cost of response to risk

0

Description of response and explanation of cost calculation

Please note: We entered 0 in the "Cost of response" field to satisfy CDP's disclosure requirement as this information is considered proprietary and confidential.

Comment

Identifier

Risk 2

Where in the value chain does the risk driver occur?

Direct operations

Risk type & Primary climate-related risk driver

Chronic physical

Other, please specify

Changing temperature Changing wind patterns Heat stress Precipitation and/or hydrological variability Sea level rise Temperature variability Water scarcity

Primary potential financial impact

Decreased asset value or asset useful life leading to write-offs, asset impairment or early retirement of existing assets

Company-specific description

We are subject to risks associated with climate change.

Climate adaptation risk refers to risks to our facilities or operations that may result from changes in the physical climate, such as changes to temperatures, weather patterns and sea level rise. We periodically perform analyses to better understand how climate change could affect our facilities and operations. We primarily operate in the Midwest and East Coast of the United States, areas that have historically been prone to

various types of severe weather events, and as such we have well-developed response and recovery programs based on these historical events. However, our physical facilities could be placed at greater risk of damage should changes in the global climate impact temperature and weather patterns, and result in more intense and frequent extreme weather events, unprecedented levels of precipitation, sea level rise, increased surface water temperatures, and/or other effects. Over time, we may need to make additional investments to protect our facilities from physical climate-related risks.

In addition, changes to the climate may impact levels and patterns of demand for energy and related services, which could affect our operations. Over time, we may need to make additional investments to adapt to changes in operational requirements because of climate change. Climate mitigation and transition risks include changes to the energy systems as a result of new technologies, changing customer expectations and/or voluntary GHG goals, as well as local, state, or federal regulatory requirements intended to reduce GHG emissions.

Time horizon

Long-term

Likelihood

More likely than not

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)

Potential financial impact figure – minimum (currency)

Potential financial impact figure – maximum (currency)

Explanation of financial impact figure

Cost of response to risk

0

Description of response and explanation of cost calculation

Please note: We entered 0 in the "Cost of response" field to satisfy CDP's disclosure requirement as this information is considered proprietary and confidential.

Comment

Identifier

Risk 3

Where in the value chain does the risk driver occur?

Upstream

Risk type & Primary climate-related risk driver

Emerging regulation

Enhanced emissions-reporting obligations

Primary potential financial impact

Increased indirect (operating) costs

Company-specific description

We are subject to comprehensive and complex environmental legislation and regulation at the federal, state, and local levels, including requirements relating to climate change, air quality and GHG emissions, water quality, solid and hazardous waste, and impacts on species and habitats. Our business could be negatively affected by legislative and/or regulatory actions.

Substantial aspects of our business are subject to comprehensive federal or state legislation and/or regulation. Our consolidated financial statements are significantly affected by our sales and purchases of commodities at market-based rates, as opposed to cost-based or other similarly regulated rates. Federal and state regulatory and legislative developments related to emissions, climate change, energy price formation, resilience, fuel diversity and RPS can impact market prices.

Changes to current state legislation or the development of federal legislation that requires the use of clean, renewable, and alternate fuel sources could significantly impact us. The impact could include reduced use of some of our generating facilities with effects on our revenues and costs.

Federal and state legislation mandating the implementation of energy conservation programs and new technologies could cause declines in customer energy consumption and lead to a decline in our revenues.

Fundamental changes in regulations or other adverse legislative actions affecting our business would require changes in our business planning models and operations. We cannot predict when or whether legislative and regulatory proposals could become law or what their effect would be.

Time horizon

Short-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)

Potential financial impact figure – minimum (currency)

Potential financial impact figure – maximum (currency)

Explanation of financial impact figure

Cost of response to risk

0

Description of response and explanation of cost calculation

Please note: We entered 0 in the "Cost of response" field to satisfy CDP's disclosure requirement as this information is considered proprietary and confidential.

Comment

Identifier

Risk 4

Where in the value chain does the risk driver occur?

Downstream

Risk type & Primary climate-related risk driver

Technology

Substitution of existing products and services with lower emissions options

Primary potential financial impact

Decreased revenues due to reduced demand for products and services

Company-specific description

Advancements in power generation technology, including commercial and residential solar generation installations and commercial micro turbine installations, are improving the cost-effectiveness of customer self-supply of electricity. Improvements in energy storage technology, including batteries and fuel cells, could also better position customers to meet their around-the-clock electricity requirements. Improvements in energy efficiency of lighting, appliances, equipment and building materials will also affect energy consumption by customers. Changes in power generation, storage, and technologies could have significant effects on customer's behavior and their energy consumption.

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)

Potential financial impact figure – minimum (currency)

Potential financial impact figure – maximum (currency)

Explanation of financial impact figure

Cost of response to risk

0

Description of response and explanation of cost calculation

Please note: We entered 0 in the "Cost of response" field to satisfy CDP's disclosure requirement as this information is considered proprietary and confidential.

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

Primary potential financial impact

Decreased asset value or asset useful life leading to write-offs, asset impairment or early retirement of existing assets

Company-specific description

We are potentially affected by emerging technologies that could over time affect or transform the energy industry.

Technology developments could affect the price of energy, levels of customer-owned generation, customer expectations and current business models and make portions of our generation facilities uneconomic prior to the end of their useful lives. These technologies could also result in further declines in commodity prices or demand for delivered energy.

Time horizon

Long-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)

Potential financial impact figure – minimum (currency)

Potential financial impact figure – maximum (currency)

Explanation of financial impact figure

Cost of response to risk

0

Description of response and explanation of cost calculation

Please note: We entered 0 in the "Cost of response" field to satisfy CDP's disclosure requirement as this information is considered proprietary and confidential.

Comment

Identifier

Risk 6

Where in the value chain does the risk driver occur?

Direct operations

Risk type & Primary climate-related risk driver

Legal

Exposure to litigation

Primary potential financial impact

Increased indirect (operating) costs

Company-specific description

Our operations have in the past, and may in the future, require substantial expenditures to comply with environmental laws. Additionally, under Federal and state environmental laws, we are generally liable for the costs of remediating environmental contamination of property now or formerly owned by us and of property contaminated by hazardous substances generated by us.

We own or lease several real estate parcels, including parcels on which our operations or the operations of others may have resulted in contamination by substances that are considered hazardous under environmental laws. In addition, we are currently involved in proceedings relating to sites where hazardous substances have been deposited and may be subject to additional proceedings in the future. Unless otherwise disclosed, we cannot reasonably estimate whether we will incur significant liabilities for additional investigation and remediation costs at these or additional sites identified by us, environmental agencies or others. Additional costs could have a material, unfavorable impact on our consolidated financial statements.

Time horizon

Medium-term

Likelihood

About as likely as 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)

Potential financial impact figure – minimum (currency)

Potential financial impact figure – maximum (currency)

Explanation of financial impact figure

Cost of response to risk

0

Description of response and explanation of cost calculation

Please note: We entered 0 in the "Cost of response" field to satisfy CDP's disclosure requirement as this information is considered proprietary and confidential.

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

Products and services

Primary climate-related opportunity driver

Development of new products or services through R&D and innovation

Primary potential financial impact

Increased revenues resulting from increased demand for products and services

Company-specific description

Many sectors of the economy are pivoting to electricity as the power source to reach their decarbonization goals. By 2050, electricity demand is projected to double, representing 400 to 500 percent growth in the electricity market. Policy makers and stakeholders increasingly recognize that nuclear energy will be crucial in decarbonizing the economy and meeting the growing need for electricity.

Constellation's nuclear fleet is the nation's largest and produces reliable baseload generation, staying online approximately 95 percent of the time, on average. With 24/7 generation capacity, our nuclear plants also support the expansion of renewables by stabilizing the grid for the intermittent nature of wind and solar power.

Constellation has designated some of its nuclear stations as Clean Energy Centers (CECs), which are defined as sites where one or more clean, carbon-free power generation resources may be co-located with customer load to accelerate the transition to a carbon-free future. Our nuclear generation has the potential to go beyond its current use as a baseload energy source and provider of capacity to the electric grid. At Constellation, we envision expanding the capabilities of our nuclear fleet. The innovative clean energy center model will not only satisfy the growing demand for clean and flexible energy but also, in certain instances, allow for the production of clean hydrogen and power direct air capture (DAC) technology.

Our nuclear plants, by design, are accessible to sources of water, transmission infrastructure and transportation hubs, making them ideally suited to be centers of clean energy production. We are investigating ways to make use of DAC technology, which has the potential to draw on clean generation to efficiently remove CO2 directly from the atmosphere. The production of clean hydrogen takes advantage of our nuclear generation by capitalizing on the 24/7 stable production of electricity and the heat generated organically by our nuclear plants. Hydrogen demand is expected to increase to as much as 41 million metric tons per year by 2050, a four-fold increase compared to present demand. Clean hydrogen could support critical industries that are otherwise not well-positioned to decarbonize, such as aviation, long-distance trucking, heavy-duty machinery, chemical production including methanol and ammonia, steel production, refineries and even long-duration energy storage.

Time horizon

Short-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)

Potential financial impact figure – minimum (currency)

Potential financial impact figure – maximum (currency)

Explanation of financial impact figure

We cannot estimate the value today but are exploring valuations incorporating impact of recently passed legislation.

Cost to realize opportunity

0

Strategy to realize opportunity and explanation of cost calculation

Our sustainable business strategy builds on four strategic principles; powering America's clean energy future, expanding America's largest fleet of Clean Energy Centers, uplifting and strengthening our communities and providing energy and sustainability solutions for customers

Nuclear is foundational to our clean energy and climate strategy. Constellation owns and operates 21 nuclear reactors in the Mid-Atlantic, Northeast and Midwest and has an ownership interest in two additional reactors with a combined capacity of nearly 21 GW. In June 2023, we announced an agreement to acquire a 44 percent ownership stake in the South Texas Project Electric Generating Station, which is a 2,645 MW dual-unit nuclear plant located about 90 miles southwest of Houston with enough generating capacity to power two million homes, on average. Our total emissions are lower than any major publicly traded power generator and our carbon intensity is more than four times less than our next closest competitor. Production from our 21 gigawatts (GW) ownership share of 23 nuclear reactors totaled 173 terawatt hours of zero-emissions electricity in 2022, enough to power 15 million homes. Constellation also operates a fleet of hydroelectric, wind, solar and storage assets with a combined capacity of more than 2.6 GW.

We work every day to anticipate our customers' needs to create more innovative solutions that help them exceed their goals, such as our 24/7 product innovations to better recognize carbon-free energy on the grid Constellation Offsite Renewables (CORe) products combine location-specific renewable energy purchases and renewable energy certificates (RECs) with a physical, load-following, energy supply contract.

Please note: We entered 0 in the "Cost to realize opportunity" field to satisfy CDP's disclosure requirement as this information is considered proprietary and confidential.

Comment

C3. Business Strategy

C3.1

(C3.1) Does your organization's strategy include a climate transition plan that aligns with a 1.5°C world?

Row 1

Climate transition plan

No, but our strategy has been influenced by climate-related risks and opportunities, and we are developing a climate transition plan within two years

Explain why your organization does not have a climate transition plan that aligns with a 1.5°C world and any plans to develop one in the future

Please note: last year we responded incorrectly to this question as it was our first year responding to CDP as a separate independent company. In addition, we do plan to develop a climate transition plan, in contrast to the wording on this particular question.

At Constellation, sustainability is at our core. We are the nation's largest producer of clean, carbon-free energy and a leading supplier of sustainable power and energy products and services for homes and businesses across the U.S. Our businesses supply about 10 percent of the U.S. grid's clean, carbon-free power, through our nuclear, wind, solar and hydroelectric assets. Our purpose is to accelerate the nation's transition to a carbon-free future with a generation fleet capacity of 32,355 megawatts and an annual output that is almost 90 percent carbon-free, generating enough clean energy to power the equivalent of 15 million homes. We offer innovative clean energy solutions, such as hourly carbon-free energy matching, to help customers reach their own climate goals, and we pioneer new technologies at our clean energy centers, such as hydrogen production and potentially direct air capture, to help decarbonize other hard-to-abate industries.

Constellation is committed to operating our businesses in a socially responsible, sustainable manner by reducing our own GHG emissions and as industry leaders, we are committed to pushing even further as we accelerate the transition to a clean, carbon-free energy future. To that end, in early 2022, we announced an ambitious set of climate goals that include:

• We commit that our owned electricity generation will be 95 percent carbon-free by 2030 and 100 percent carbon-free by 2040.

• We will reduce operations-driven emissions by 100 percent by 2040, from a 2020 baseline. In the interim, we will reduce carbon emissions by 65 percent by 2030.

• We commit to reducing methane emissions 30 percent by 2030, also from a 2020 baseline, aligning Constellation with the Global Methane Pledge.

In 2023, we are developing a roadmap (equivalent to CDP's definition of a climate transition plan) for achieving our climate goals which will include implementation plans and recommendations for KPIs to track progress, and which will put us on a path to reduce our Scope 1 and 2 emissions by 2030 and beyond. Taken collectively, our climate commitments wholly cover all our Scope 1 and 2 GHG emissions.

C3.2

(C3.2) Does your organization use climate-related scenario analysis to inform its strategy?

	Use of climate-related scenario analysis to inform strategy	Primary reason why your organization does not use climate-related scenario analysis to inform its strategy	Explain why your organization does not use climate-related scenario analysis to inform its strategy and any plans to use it in the future
Row 1	No, but we anticipate using qualitative and/or quantitative analysis in the next two years	Other, please specify Please see the "Explain why your organization.." field for details	When Constellation was part of Exelon, we performed a climate risk assessment to identify and quantify climate-related risks and opportunities and evaluate business resiliency under various industry-recognized climate scenarios. For more information, please see the Risk Management: Identifying, Assessing and Managing Climate-related Risks section of Exelon's 2020 Sustainability Report. We intend to update that climate risk assessment to understand our specific risks and opportunities given the passage of time and hope to provide more details in next year's response.

C3.3

(C3.3) 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	Yes	Our commercial platform provides tools to empower existing and future customers to measure their carbon footprint, increase access to clean, carbon-free and renewable power, and improve energy efficiency and reduce emissions. Constellation capitalizes on this leading customer platform to enable customers to meet their energy and sustainability goals. Some of our innovative sustainable products include: • Constellation Offsite Renewables (CORe) offers customers access to existing offsite renewable projects through retail power contracts, and our CORe+ product offers access to new-build renewable energy projects and renewable energy certificates (RECs) through a physically-delivered retail electric supply agreement. • Hourly Carbon-Free Energy Matching provides customers with a transparent, independently verified view of their sustainability efforts, with hourly matching and reporting of carbon-free electricity supply and consumption. We partnered with Microsoft to develop an hourly-matching technology solution that enables us to match customers' power needs with regional carbon-free energy sources, 24/7/365. • Energy Attribute Certificates allow customers to match their purchased electricity with Emission-Free Energy Certificates, which represent the emission-free attributes of carbon-free generating sources, primarily nuclear, as well as RECs. • Constellation Energy Solutions support commercial customers by designing a customized plan to help them achieve their operational and sustainability goals.

		Our customers view us as a trusted resource to help them implement tailored solutions to achieve their sustainability targets while managing energy and operational costs. A key component in meeting these objectives is for customers to better understand their emissions. In 2022, we met our goal to provide 100 percent of C&I customers with customer-specific information on their GHG impact for facilities contracting for power and gas supply from Constellation. In December 2022, we acquired a GHG reporting and analytics platform and associated software company, which enables us to expand our GHG reports to more customers and provide the reports on a recurring basis. The platform will help develop mitigation scenarios for customers and support downstream voluntary and mandatory reporting requirements.
Supply chain and/or value chain	Evaluation in progress	At Constellation, we embed resiliency, reliability and equity into our supply chain as part of our purpose to accelerate the transition to a carbon-free future. We incorporate ESG criteria into our supplier assessments and we integrate sustainability and resiliency through relationships with key suppliers that provide materials and services. We do not actively engage suppliers on climate issues unless there is a specific reason for doing so. Additionally, suppliers are expected to adhere to the Constellation Supplier Code of Conduct, which includes the Environmental language below. “Constellation’s commitment to the environment is integral to meeting customers’ expectations and reducing Constellation’s environmental impact on future generations, while also ensuring that we meet or exceed all environmental laws and regulations. Constellation intends to be the leading American clean energy company. We expect Suppliers to share these goals by identifying and implementing opportunities to reduce or eliminate energy usage, greenhouse gas emissions, waste and pollution at its source, and continually improving efficiency of resource and materials use.” One of the ambitious 2030 and 2040 climate goals that we announced in early 2022 includes that we will work with our key energy suppliers on their GHG emissions and climate adaptation strategies.
Investment in R&D	Yes	Constellation collaborates with customers, suppliers, universities, governments, national labs and startups to support innovations that will accelerate the energy transition. We also invest in and commercialize technological advancements essential to achieve a clean, carbon-free energy future. Constellation Technology Ventures (CTV) is the venture investing organization within Constellation Energy. CTV invests in technologies across the energy landscape that help mitigate the impact of climate change and that will

		disrupt how electricity is generated, managed and consumed. CTV actively collaborates with portfolio companies, driving commercialization initiatives to create value for portfolio companies and their customers. Areas of investment focus include technologies addressing the core power sector, carbon markets, electrification of the built environment and transportation. For more information on the types of technologies that CTV invests in, please visit https://www.constellationenergy.com/our-work/innovation-and-advancement/technology-ventures.html. We were also a strategic venture investor in NET Power, LLC, which recently went public through a business combination with special purpose acquisition company Rice Acquisition Corp. II to form a new company called NET Power Inc. NET Power is a clean energy technology company that promotes, develops and licenses a proprietary process for efficiently generating electricity from natural gas while capturing all CO2 emissions. NET Power's revolutionary patented technology captures over 97 percent of CO2 emissions from power generation by combusting natural gas with pure oxygen and recirculating most of the resulting CO2 emissions back into a turboexpander, which produces electricity. Any CO2 not recirculated through the process is captured for sequestration.
Operations	Yes	Constellation owns and operates approximately 22,500 MW of carbon-free power generation which includes our nuclear fleet that provides clean and dispatchable energy for the electric grid, and we have set an ambitious goal of achieving 95 percent carbon-free electricity generation by 2030 and 100 percent by 2040. In 2023, we are developing a roadmap for achieving our climate goals which will include implementation plans and recommendations for KPIs to track progress, and which will put us on a path to reduce our Scope 1 and 2 emissions by 2030 and beyond. Taken collectively, our climate commitments wholly cover all our Scope 1 and 2GHG emissions. By providing clean, safe, affordable and reliable energy and expanding the use of our generation fleet to decarbonize other sectors, we are well-positioned to meet the increasing demand for sustainable solutions and to deliver long-term value to our shareholders. Operational excellence at our power generation facilities is focused on producing and delivering energy as efficiently as possible, resulting in more affordable energy and lower greenhouse gas emissions per unit of energy produced and delivered. These processes also consider how the grid may need to respond to changes in energy demand caused by both the physical effects of climate change as well as policy

		responses to climate change. In 2022, 90 percent of the electric output from our owned power generation was from zero-carbon nuclear, hydroelectric or renewable assets, enabled by industry-leading nuclear capacity factors. Our operations may face climate-related physical risks, such as damage from increasing temperatures, severe weather events and sea level rise, as well as transition risks, such as changes to energy systems as a result of new technologies, changing customer expectations and regulatory requirements intended to reduce GHG emissions. However, there are also clear opportunities for Constellation to mitigate the effects of climate change and support the transition to a low-carbon future as a leading clean, carbon-free energy provider. As the risks from climate change become more apparent, there is a growing market for clean energy solutions as companies and organizations work to reduce their carbon footprint and comply with new regulations.

C3.4

(C3.4) 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	We continually evaluate growth opportunities aligned with our businesses, assets, and markets leveraging our expertise in those areas and offering durable returns. We may pursue growth opportunities that optimize our core business or expand upon our strengths, including, but not limited to the following: • Opportunistic carbon-free energy acquisitions, particularly nuclear plants with supportive policy, • Create new value from the existing fleet through repowering, co-location and other opportunities, • Grow sustainability products and services for our customers focused on clean energy, efficiency, storage and electrification; help our C&I customers develop and meet sustainability targets,

		• Produce clean hydrogen using our carbon-free fleet, • Engagement with the technology and innovation ecosystem through continued partnerships with national labs, universities, startups, and research institutions, and • Explore advanced nuclear technology for investment and participation via advisory services to maintain our leadership position as stewards of a carbon-free energy future.

C3.5

(C3.5) In your organization's financial accounting, do you identify spending/revenue that is aligned with your organization's climate transition?

	Identification of spending/revenue that is aligned with your organization's climate transition
Row 1	No, but we plan to in the next two years

C4. Targets and performance

C4.1

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

Absolute target

C4.1a

(C4.1a) Provide details of your absolute emissions target(s) and progress made against those targets.

Target reference number

Abs 1

Is this a science-based target?

Yes, we consider this a science-based target, but we have not committed to seek validation of this target by the Science Based Targets initiative within the next two years

Target ambition

1.5°C aligned

Year target was set

2022

Target coverage

Business activity

Scope(s)

Scope 1
Scope 2

Scope 2 accounting method

Market-based

Scope 3 category(ies)

Base year

2020

Base year Scope 1 emissions covered by target (metric tons CO2e)

88,771

Base year Scope 2 emissions covered by target (metric tons CO2e)

126,571

Base year Scope 3, Category 1: Purchased goods and services emissions covered by target (metric tons CO2e)

Base year Scope 3, Category 2: Capital goods emissions covered by target (metric tons CO2e)

Base year Scope 3, Category 3: Fuel-and-energy-related activities (not included in Scopes 1 or 2) emissions covered by target (metric tons CO2e)

Base year Scope 3, Category 4: Upstream transportation and distribution emissions covered by target (metric tons CO2e)

Base year Scope 3, Category 5: Waste generated in operations emissions covered by target (metric tons CO2e)

Base year Scope 3, Category 6: Business travel emissions covered by target (metric tons CO2e)

Base year Scope 3, Category 7: Employee commuting emissions covered by target (metric tons CO2e)

Base year Scope 3, Category 8: Upstream leased assets emissions covered by target (metric tons CO2e)

Base year Scope 3, Category 9: Downstream transportation and distribution emissions covered by target (metric tons CO2e)

Base year Scope 3, Category 10: Processing of sold products emissions covered by target (metric tons CO2e)

Base year Scope 3, Category 11: Use of sold products emissions covered by target (metric tons CO2e)

Base year Scope 3, Category 12: End-of-life treatment of sold products emissions covered by target (metric tons CO2e)

Base year Scope 3, Category 13: Downstream leased assets emissions covered by target (metric tons CO2e)

Base year Scope 3, Category 14: Franchises emissions covered by target (metric tons CO2e)

Base year Scope 3, Category 15: Investments emissions covered by target (metric tons CO2e)

Base year Scope 3, Other (upstream) emissions covered by target (metric tons CO2e)

Base year Scope 3, Other (downstream) emissions covered by target (metric tons CO2e)

Base year total Scope 3 emissions covered by target (metric tons CO2e)

Total base year emissions covered by target in all selected Scopes (metric tons CO2e)

215,342

Base year Scope 1 emissions covered by target as % of total base year emissions in Scope 1

1.109

Base year Scope 2 emissions covered by target as % of total base year emissions in Scope 2

100

Base year Scope 3, Category 1: Purchased goods and services emissions covered by target as % of total base year emissions in Scope 3, Category 1: Purchased goods and services (metric tons CO2e)

Base year Scope 3, Category 2: Capital goods emissions covered by target as % of total base year emissions in Scope 3, Category 2: Capital goods (metric tons CO2e)

Base year Scope 3, Category 3: Fuel-and-energy-related activities (not included in Scopes 1 or 2) emissions covered by target as % of total base year emissions in Scope 3, Category 3: Fuel-and-energy-related activities (not included in Scopes 1 or 2) (metric tons CO2e)

Base year Scope 3, Category 4: Upstream transportation and distribution covered by target as % of total base year emissions in Scope 3, Category 4: Upstream transportation and distribution (metric tons CO2e)

Base year Scope 3, Category 5: Waste generated in operations emissions covered by target as % of total base year emissions in Scope 3, Category 5: Waste generated in operations (metric tons CO2e)

Base year Scope 3, Category 6: Business travel emissions covered by target as % of total base year emissions in Scope 3, Category 6: Business travel (metric tons CO2e)

Base year Scope 3, Category 7: Employee commuting covered by target as % of total base year emissions in Scope 3, Category 7: Employee commuting (metric tons CO2e)

Base year Scope 3, Category 8: Upstream leased assets emissions covered by target as % of total base year emissions in Scope 3, Category 8: Upstream leased assets (metric tons CO2e)

Base year Scope 3, Category 9: Downstream transportation and distribution emissions covered by target as % of total base year emissions in Scope 3, Category 9: Downstream transportation and distribution (metric tons CO2e)

Base year Scope 3, Category 10: Processing of sold products emissions covered by target as % of total base year emissions in Scope 3, Category 10: Processing of sold products (metric tons CO2e)

Base year Scope 3, Category 11: Use of sold products emissions covered by target as % of total base year emissions in Scope 3, Category 11: Use of sold products (metric tons CO2e)

Base year Scope 3, Category 12: End-of-life treatment of sold products emissions covered by target as % of total base year emissions in Scope 3, Category 12: End-of-life treatment of sold products (metric tons CO2e)

Base year Scope 3, Category 13: Downstream leased assets emissions covered by target as % of total base year emissions in Scope 3, Category 13: Downstream leased assets (metric tons CO2e)

Base year Scope 3, Category 14: Franchises emissions covered by target as % of total base year emissions in Scope 3, Category 14: Franchises (metric tons CO2e)

Base year Scope 3, Category 15: Investments emissions covered by target as % of total base year emissions in Scope 3, Category 15: Investments (metric tons CO2e)

Base year Scope 3, Other (upstream) emissions covered by target as % of total base year emissions in Scope 3, Other (upstream) (metric tons CO2e)

Base year Scope 3, Other (downstream) emissions covered by target as % of total base year emissions in Scope 3, Other (downstream) (metric tons CO2e)

Base year total Scope 3 emissions covered by target as % of total base year emissions in Scope 3 (in all Scope 3 categories)

Base year emissions covered by target in all selected Scopes as % of total base year emissions in all selected Scopes

2.648

Target year

2030

Targeted reduction from base year (%)

65

Total emissions in target year covered by target in all selected Scopes (metric tons CO2e) [auto-calculated]

75,369.7

Scope 1 emissions in reporting year covered by target (metric tons CO2e)

81,969

Scope 2 emissions in reporting year covered by target (metric tons CO2e)

45,444

Scope 3, Category 1: Purchased goods and services emissions in reporting year covered by target (metric tons CO2e)

Scope 3, Category 2: Capital goods emissions in reporting year covered by target (metric tons CO2e)

Scope 3, Category 3: Fuel-and-energy-related activities (not included in Scopes 1 or 2) emissions in reporting year covered by target (metric tons CO2e)

Scope 3, Category 4: Upstream transportation and distribution emissions in reporting year covered by target (metric tons CO2e)

Scope 3, Category 5: Waste generated in operations emissions in reporting year covered by target (metric tons CO2e)

Scope 3, Category 6: Business travel emissions in reporting year covered by target (metric tons CO2e)

Scope 3, Category 7: Employee commuting emissions in reporting year covered by target (metric tons CO2e)

Scope 3, Category 8: Upstream leased assets emissions in reporting year covered by target (metric tons CO2e)

Scope 3, Category 9: Downstream transportation and distribution emissions in reporting year covered by target (metric tons CO2e)

Scope 3, Category 10: Processing of sold products emissions in reporting year covered by target (metric tons CO2e)

Scope 3, Category 11: Use of sold products emissions in reporting year covered by target (metric tons CO2e)

Scope 3, Category 12: End-of-life treatment of sold products emissions in reporting year covered by target (metric tons CO2e)

Scope 3, Category 13: Downstream leased assets emissions in reporting year covered by target (metric tons CO2e)

Scope 3, Category 14: Franchises emissions in reporting year covered by target (metric tons CO2e)

Scope 3, Category 15: Investments emissions in reporting year covered by target (metric tons CO2e)

Scope 3, Other (upstream) emissions in reporting year covered by target (metric tons CO2e)

Scope 3, Other (downstream) emissions in reporting year covered by target (metric tons CO2e)

Total Scope 3 emissions in reporting year covered by target (metric tons CO2e)

Total emissions in reporting year covered by target in all selected scopes (metric tons CO2e)

127,413

Does this target cover any land-related emissions?

No, it does not cover any land-related emissions (e.g. non-FLAG SBT)

% of target achieved relative to base year [auto-calculated]

62.8188577311

Target status in reporting year

New

Please explain target coverage and identify any exclusions

This target covers Constellation's operational emissions, excluding emissions associated with power generation and methane emissions associated with the Everett Marine Terminal, which are covered by the Low1, Low2 and Oth2 targets discussed in this survey.

Plan for achieving target, and progress made to the end of the reporting year

Constellation initiated development of a climate roadmap in 2022, to begin in FY2023. This will include implementation plans and recommendations for KPIs to track progress. Some progress has been made in the interim period between 2020 and 2022 through retirement of some units at our plants. Additionally, in 2021, Constellation began retiring Emissions Free Energy Certificates (EFECs) from nuclear generation to cover 100 percent of our annual grid-supplied electric use in the PJM market territory in 2022.

List the emissions reduction initiatives which contributed most to achieving this target

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Target reference number

Abs 2

Is this a science-based target?

Yes, we consider this a science-based target, but we have not committed to seek validation of this target by the Science Based Targets initiative within the next two years

Target ambition

1.5°C aligned

Year target was set

2022

Target coverage

Business activity

Scope(s)

Scope 1
Scope 2

Scope 2 accounting method

Market-based

Scope 3 category(ies)

Base year

2020

Base year Scope 1 emissions covered by target (metric tons CO2e)

88,771

Base year Scope 2 emissions covered by target (metric tons CO2e)

126,571

Base year Scope 3, Category 1: Purchased goods and services emissions covered by target (metric tons CO2e)

Base year Scope 3, Category 2: Capital goods emissions covered by target (metric tons CO2e)

Base year Scope 3, Category 3: Fuel-and-energy-related activities (not included in Scopes 1 or 2) emissions covered by target (metric tons CO2e)

Base year Scope 3, Category 4: Upstream transportation and distribution emissions covered by target (metric tons CO2e)

Base year Scope 3, Category 5: Waste generated in operations emissions covered by target (metric tons CO2e)

Base year Scope 3, Category 6: Business travel emissions covered by target (metric tons CO2e)

Base year Scope 3, Category 7: Employee commuting emissions covered by target (metric tons CO2e)

Base year Scope 3, Category 8: Upstream leased assets emissions covered by target (metric tons CO2e)

Base year Scope 3, Category 9: Downstream transportation and distribution emissions covered by target (metric tons CO2e)

Base year Scope 3, Category 10: Processing of sold products emissions covered by target (metric tons CO2e)

Base year Scope 3, Category 11: Use of sold products emissions covered by target (metric tons CO2e)

Base year Scope 3, Category 12: End-of-life treatment of sold products emissions covered by target (metric tons CO2e)

Base year Scope 3, Category 13: Downstream leased assets emissions covered by target (metric tons CO2e)

Base year Scope 3, Category 14: Franchises emissions covered by target (metric tons CO2e)

Base year Scope 3, Category 15: Investments emissions covered by target (metric tons CO2e)

Base year Scope 3, Other (upstream) emissions covered by target (metric tons CO2e)

Base year Scope 3, Other (downstream) emissions covered by target (metric tons CO2e)

Base year total Scope 3 emissions covered by target (metric tons CO2e)

Total base year emissions covered by target in all selected Scopes (metric tons CO2e)

215,342

Base year Scope 1 emissions covered by target as % of total base year emissions in Scope 1

1.109

Base year Scope 2 emissions covered by target as % of total base year emissions in Scope 2

100

Base year Scope 3, Category 1: Purchased goods and services emissions covered by target as % of total base year emissions in Scope 3, Category 1: Purchased goods and services (metric tons CO2e)

Base year Scope 3, Category 2: Capital goods emissions covered by target as % of total base year emissions in Scope 3, Category 2: Capital goods (metric tons CO2e)

Base year Scope 3, Category 3: Fuel-and-energy-related activities (not included in Scopes 1 or 2) emissions covered by target as % of total base year emissions in Scope 3, Category 3: Fuel-and-energy-related activities (not included in Scopes 1 or 2) (metric tons CO2e)

Base year Scope 3, Category 4: Upstream transportation and distribution covered by target as % of total base year emissions in Scope 3, Category 4: Upstream transportation and distribution (metric tons CO2e)

Base year Scope 3, Category 5: Waste generated in operations emissions covered by target as % of total base year emissions in Scope 3, Category 5: Waste generated in operations (metric tons CO2e)

Base year Scope 3, Category 6: Business travel emissions covered by target as % of total base year emissions in Scope 3, Category 6: Business travel (metric tons CO2e)

Base year Scope 3, Category 7: Employee commuting covered by target as % of total base year emissions in Scope 3, Category 7: Employee commuting (metric tons CO2e)

Base year Scope 3, Category 8: Upstream leased assets emissions covered by target as % of total base year emissions in Scope 3, Category 8: Upstream leased assets (metric tons CO2e)

Base year Scope 3, Category 9: Downstream transportation and distribution emissions covered by target as % of total base year emissions in Scope 3, Category 9: Downstream transportation and distribution (metric tons CO2e)

Base year Scope 3, Category 10: Processing of sold products emissions covered by target as % of total base year emissions in Scope 3, Category 10: Processing of sold products (metric tons CO2e)

Base year Scope 3, Category 11: Use of sold products emissions covered by target as % of total base year emissions in Scope 3, Category 11: Use of sold products (metric tons CO2e)

Base year Scope 3, Category 12: End-of-life treatment of sold products emissions covered by target as % of total base year emissions in Scope 3, Category 12: End-of-life treatment of sold products (metric tons CO2e)

Base year Scope 3, Category 13: Downstream leased assets emissions covered by target as % of total base year emissions in Scope 3, Category 13: Downstream leased assets (metric tons CO2e)

Base year Scope 3, Category 14: Franchises emissions covered by target as % of total base year emissions in Scope 3, Category 14: Franchises (metric tons CO2e)

Base year Scope 3, Category 15: Investments emissions covered by target as % of total base year emissions in Scope 3, Category 15: Investments (metric tons CO2e)

Base year Scope 3, Other (upstream) emissions covered by target as % of total base year emissions in Scope 3, Other (upstream) (metric tons CO2e)

Base year Scope 3, Other (downstream) emissions covered by target as % of total base year emissions in Scope 3, Other (downstream) (metric tons CO2e)

Base year total Scope 3 emissions covered by target as % of total base year emissions in Scope 3 (in all Scope 3 categories)

Base year emissions covered by target in all selected Scopes as % of total base year emissions in all selected Scopes

2.648

Target year

2040

Targeted reduction from base year (%)

100

Total emissions in target year covered by target in all selected Scopes (metric tons CO2e) [auto-calculated]

0

Scope 1 emissions in reporting year covered by target (metric tons CO2e)

81,969

Scope 2 emissions in reporting year covered by target (metric tons CO2e)

45,444

Scope 3, Category 1: Purchased goods and services emissions in reporting year covered by target (metric tons CO2e)

Scope 3, Category 2: Capital goods emissions in reporting year covered by target (metric tons CO2e)

Scope 3, Category 3: Fuel-and-energy-related activities (not included in Scopes 1 or 2) emissions in reporting year covered by target (metric tons CO2e)

Scope 3, Category 4: Upstream transportation and distribution emissions in reporting year covered by target (metric tons CO2e)

Scope 3, Category 5: Waste generated in operations emissions in reporting year covered by target (metric tons CO2e)

Scope 3, Category 6: Business travel emissions in reporting year covered by target (metric tons CO2e)

Scope 3, Category 7: Employee commuting emissions in reporting year covered by target (metric tons CO2e)

Scope 3, Category 8: Upstream leased assets emissions in reporting year covered by target (metric tons CO2e)

Scope 3, Category 9: Downstream transportation and distribution emissions in reporting year covered by target (metric tons CO2e)

Scope 3, Category 10: Processing of sold products emissions in reporting year covered by target (metric tons CO2e)

Scope 3, Category 11: Use of sold products emissions in reporting year covered by target (metric tons CO2e)

Scope 3, Category 12: End-of-life treatment of sold products emissions in reporting year covered by target (metric tons CO2e)

Scope 3, Category 13: Downstream leased assets emissions in reporting year covered by target (metric tons CO2e)

Scope 3, Category 14: Franchises emissions in reporting year covered by target (metric tons CO2e)

Scope 3, Category 15: Investments emissions in reporting year covered by target (metric tons CO2e)

Scope 3, Other (upstream) emissions in reporting year covered by target (metric tons CO2e)

Scope 3, Other (downstream) emissions in reporting year covered by target (metric tons CO2e)

Total Scope 3 emissions in reporting year covered by target (metric tons CO2e)

Total emissions in reporting year covered by target in all selected scopes (metric tons CO2e)

127,413

Does this target cover any land-related emissions?

No, it does not cover any land-related emissions (e.g. non-FLAG SBT)

% of target achieved relative to base year [auto-calculated]

40.8322575252

Target status in reporting year

New

Please explain target coverage and identify any exclusions

This target covers Constellation's operational emissions, excluding emissions associated with power generation and methane emissions associated with the Everett Marine Terminal.

Plan for achieving target, and progress made to the end of the reporting year

Constellation initiated development of a climate roadmap in 2022, to begin in FY2023. This will include implementation plans and recommendations for KPIs to track progress. Some progress has been made in interim period between 2020 and 2022 through retirement of some units at our plants. Additionally, in 2021, Constellation began retiring Emissions Free Energy Certificates (EFECs) from nuclear generation to cover 100 percent of our annual grid-supplied electric use in the PJM market territory in 2022.

List the emissions reduction initiatives which contributed most to achieving this target

C4.2

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

Target(s) to increase low-carbon energy consumption or production
Target(s) to reduce methane emissions
Other climate-related target(s)

C4.2a

(C4.2a) Provide details of your target(s) to increase low-carbon energy consumption or production.

Target reference number

Low 1

Year target was set

2022

Target coverage

Business activity

Target type: energy carrier

Electricity

Target type: activity

Production

Target type: energy source

Low-carbon energy source(s)

Base year

2020

Consumption or production of selected energy carrier in base year (MWh)

181,368,855

% share of low-carbon or renewable energy in base year

89.35

Target year

2030

% share of low-carbon or renewable energy in target year

95

% share of low-carbon or renewable energy in reporting year

89.41

% of target achieved relative to base year [auto-calculated]

1.0619469027

Target status in reporting year

New

Is this target part of an emissions target?

Currently, this target is not technically part of an emissions target. However, achieving 95% carbon-free generation will result in the reduction of millions of metric tons of our Scope 1 CO2e per year.

Is this target part of an overarching initiative?

No, it's not part of an overarching initiative

Please explain target coverage and identify any exclusions

This target covers Constellation's power generation fleet.

Plan for achieving target, and progress made to the end of the reporting year

Constellation initiated development of a climate roadmap in 2022, to begin in FY2023. This will include implementation plans and recommendations for KPIs to track progress. In 2023, we are developing a roadmap for achieving our climate goals which will include implementation plans and recommendations for KPIs to track progress, and which will put us on a path to reduce our Scope 1 and 2 emissions by 2030 and beyond.

List the actions which contributed most to achieving this target

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Target reference number

Low 2

Year target was set

2022

Target coverage

Business activity

Target type: energy carrier

Electricity

Target type: activity

Production

Target type: energy source

Low-carbon energy source(s)

Base year

2020

Consumption or production of selected energy carrier in base year (MWh)

181,368,855

% share of low-carbon or renewable energy in base year

89.35

Target year

2040

% share of low-carbon or renewable energy in target year

100

% share of low-carbon or renewable energy in reporting year

89.41

% of target achieved relative to base year [auto-calculated]

0.5633802817

Target status in reporting year

New

Is this target part of an emissions target?

Currently, this target is not technically part of an emissions target. However, achieving 95% carbon-free generation will result in the reduction of millions of metric tons of our Scope 1 CO2e per year.

Is this target part of an overarching initiative?

No, it's not part of an overarching initiative

Please explain target coverage and identify any exclusions

This target covers Constellation's power generation fleet.

Plan for achieving target, and progress made to the end of the reporting year

Constellation initiated development of a climate roadmap in 2022, to begin in FY2023. This will include implementation plans and recommendations for KPIs to track progress. In 2023, we are developing a roadmap for achieving our climate goals which will include implementation plans and recommendations for KPIs to track progress, and which will put us on a path to reduce our Scope 1 and 2 emissions by 2030 and beyond.

List the actions which contributed most to achieving this target

C4.2b

(C4.2b) Provide details of any other climate-related targets, including methane reduction targets.

Target reference number

Oth 1

Year target was set

2022

Target coverage

Business activity

Target type: absolute or intensity

Absolute

Target type: category & Metric (target numerator if reporting an intensity target)

Methane reduction target

Total methane emissions in CO2e

Target denominator (intensity targets only)

Base year

2020

Figure or percentage in base year

177,386

Target year

2030

Figure or percentage in target year

124,170

Figure or percentage in reporting year

380,632

% of target achieved relative to base year [auto-calculated]

-381.9264882742

Target status in reporting year

New

Is this target part of an emissions target?

Yes – this target is to reduce Scope 1 methane emissions from natural gas storage at Everett Marine Terminal.

Is this target part of an overarching initiative?

Other, please specify

Global Methane Pledge

Please explain target coverage and identify any exclusions

This target covers Constellation's methane emissions from natural gas storage at Everett Marine Terminal.

Plan for achieving target, and progress made to the end of the reporting year

Constellation initiated development of a climate roadmap in 2022, to begin in FY2023. This will include implementation plans and recommendations for KPIs to track progress. In 2023, we are developing a roadmap for achieving our climate goals which will include implementation plans and recommendations for KPIs to track progress, and which will put us on a path to reduce our Scope 1 and 2 emissions by 2030 and beyond.

List the actions which contributed most to achieving this target

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Target reference number

Oth 2

Year target was set

2022

Target coverage

Company-wide

Target type: absolute or intensity

Intensity

Target type: category & Metric (target numerator if reporting an intensity target)

Engagement with customers

Percentage of customers (by emissions) actively engaged on climate-related issues

Target denominator (intensity targets only)

Other, please specify

Total commercial and industrial (C&I) customers

Base year

2020

Figure or percentage in base year

0

Target year

2022

Figure or percentage in target year

100

Figure or percentage in reporting year

100

% of target achieved relative to base year [auto-calculated]

100

Target status in reporting year

New

Is this target part of an emissions target?

No

Is this target part of an overarching initiative?

No, it's not part of an overarching initiative

Please explain target coverage and identify any exclusions

This target is to provide 100% of our C&I customers with GHG emissions reporting for their Scope 1 and 2 emissions associated with their natural gas and electricity purchases from Constellation. Also, we entered 0 in the "Figure or Percentage in base year" field to satisfy the requirements of CDP's online disclosure system. We did engage customers on climate-related issues in 2020 but we do not have data on the percentage engaged. Hence why we entered 0 in that field.

Plan for achieving target, and progress made to the end of the reporting year

Target was achieved in 2022, with 100% of C&I customers receiving annual GHG emissions reports for their Scope 1 and 2 emissions associated with their natural gas and electricity purchases from Constellation.

List the actions which contributed most to achieving this target

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	8	0
To be implemented*	0	
Implementation commenced*	0	
Implemented*	5	13,467,388
Not to be implemented	0	

C4.3b

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

Initiative category & Initiative type

Low-carbon energy consumption

Nuclear

Estimated annual CO2e savings (metric tonnes CO2e)

322,324

Scope(s) or Scope 3 category(ies) where emissions savings occur

Scope 2 (market-based)

Voluntary/Mandatory

Voluntary

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

0

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

20,000

Payback period

No payback

Estimated lifetime of the initiative

<1 year

Comment

Constellation offsets indirect emissions from its own electricity use in the PJM market territory through the retirement of emissions free energy credits (EFECs) to support our net GHG annual target. In 2022, we retired 2,304,697 MWhs. EFECs are from PJM ISO, where these zero emission nuclear attributes are similarly tracked and retired by certificate number and third-party verified with respect to retirement and no double-counting. These clean energy attributes are currently used in our market-based accounting view of our Scope 2 emissions as described in our GHG goal description outlined in 4.1a (Abs 1). The value of EFECs is not reflected, as we are currently able to retire EFECs from our own nuclear generation stations at no cost. There is no savings or payback associated with this initiative. This is counted as 1 action implemented in 4.3a.

Initiative category & Initiative type

Low-carbon energy consumption

Other, please specify

RPS Renewable Energy Obligations Depend on State Requirements

Estimated annual CO2e savings (metric tonnes CO2e)

11,505,208

Scope(s) or Scope 3 category(ies) where emissions savings occur

Scope 3 category 3: Fuel-and-energy-related activities (not included in Scopes 1 or 2)

Voluntary/Mandatory

Mandatory

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

0

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

0

Payback period

<1 year

Estimated lifetime of the initiative

1-2 years

Comment

Constellation purchases Renewable Energy Credits to add renewable electricity to that which they deliver to their customers per state Renewable Portfolio Standards (RPS). In the 2022 reporting year, Constellation purchased approximately 16 million RECs to satisfy state specific portfolio standards. These RECs are procured on behalf of Constellation's customers in accordance with the state portfolio supply statutory requirements. Emissions reductions are Scope 3 and can be attributed to cleaner energy being used (or supported) by our customers. Estimated annual CO2e savings relate to the avoided emissions associated with these MWhs according to the U.S. EPA GHG Equivalencies calculator. These RECs are associated with the year they are retired, although as they encourage the clean energy market, they help to promote new renewable generation which can become a permanent emission reduction. There is no investment by Constellation as costs are passed through to the customer in accordance with their local utility specific rate case agreement. Payback is considered immediate because this is part of a compliance program. This is counted as 1 initiative implemented each year under 4.3a.

Initiative category & Initiative type

Energy efficiency in buildings

Other, please specify

Retail Customer Energy Efficiency Services (variety)

Estimated annual CO2e savings (metric tonnes CO2e)

243,749

Scope(s) or Scope 3 category(ies) where emissions savings occur

Scope 3: Other (downstream)

Voluntary/Mandatory

Voluntary

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

37,471,681

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

0

Payback period

4-10 years

Estimated lifetime of the initiative

6-10 years

Comment

Constellation Energy Solutions and Constellation Home organizations work with customers to develop cost effective energy efficiency projects that help to drive down their electricity and natural gas use. These projects are voluntary and result in reductions of our Scope 3 emissions (Scope 1 and 2 emissions of our customers) that last for the life of the more efficient equipment or home improvements (which varies based on the project). These GHG abatement activities are based on Constellation Efficiency-Made-Easy program and their Performance-Based Projects which combined are estimated to have saved over 250,000 MWh of electricity and more than 1 million mmBtu of natural gas in 2022. Emissions avoided are based on regional emission factors. Annual monetary savings would be that of our customers and was based on an average cost of electricity of 0.116$/kwh and an average cost of natural gas of $6.45/mmBtu. Investment would also be that of our customers and does not apply to Constellation. Payback is representative of a typical threshold; the actual payback period would vary based on project type. This is accounted for as one action implemented in 4.3a.

Initiative category & Initiative type

Low-carbon energy generation
Solar PV

Estimated annual CO2e savings (metric tonnes CO2e)
1,396,133

Scope(s) or Scope 3 category(ies) where emissions savings occur
Scope 3 category 3: Fuel-and-energy-related activities (not included in Scopes 1 or 2)

Voluntary/Mandatory
Voluntary

Annual monetary savings (unit currency – as specified in C0.4)
0

Investment required (unit currency – as specified in C0.4)
0

Payback period
4-10 years

Estimated lifetime of the initiative
6-10 years

Comment
In the 2022 reporting year, Constellation's commercial business facilitated the origination of solar PPAs that will yield approximately 1,970,040 MWh of new solar generation each year. These projects are voluntary and result in reductions of our Scope 3 emissions (Scope 2 emissions of our customers) that last for the life of the Solar PV equipment. Investment would also be that of our customers and does not apply to Constellation. This is accounted for as one action implemented in 4.3a.

C4.3c

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

Method	Comment
Compliance with regulatory requirements/standards	Constellation ensures compliance with all regulatory requirements and standards, such as Renewable Portfolio Standards (RPS) in the markets where we deliver power to customers.
Dedicated budget for low-carbon product R&D	Constellation has a dedicated budget for low-carbon product R&D. We continually evaluate growth opportunities aligned with our businesses, assets, and markets leveraging our expertise in those areas and offering durable returns. We may pursue growth opportunities that optimize our core business or expand upon our strengths, including, but not limited to the following: • Opportunistic carbon-free energy acquisitions, particularly nuclear plants with supportive policy, • Create new value from the existing fleet through repowering, co-location and other opportunities, • Grow sustainability products and services for our customers focused on clean energy, efficiency, storage and electrification; help our C&I customers develop and meet sustainability targets, • Produce clean hydrogen using our carbon-free fleet, • Engagement with the technology and innovation ecosystem through continued partnerships with national labs, universities, startups, and research institutions, and • Explore advanced nuclear technology for investment and participation via advisory services to maintain our leadership position as stewards of a carbon-free energy future.
Financial optimization calculations	Constellation typically evaluates all capital investment decisions on the basis of traditional financial metrics - such as net present value (NPV), internal rate of return (IRR), and payback periods - in a variety of pricing and operational

	environments (or cases). Certain cases may assume more or less stringent environmental standards as the investment decision is analyzed.
Internal finance mechanisms	At times, Constellation assigns a technology-specific cost of capital to different assets. This technology-specific cost of capital incorporates the potential cost associated with varying factors – which can include varying environmental regulations and policies – and incorporates specific risk premium into the required equity return and the appropriate capital structure.
Partnering with governments on technology development	Constellation collaborates with customers, suppliers, universities, governments, national labs and startups to support innovations that will accelerate the energy transition. This includes seeking federal and state government grants to demonstrate and deploy clean energy technologies.
Other Internal GHG Program Targets	In 2022, Constellation committed that our owned electricity generation will be 95 percent carbon-free by 2030 and 100 percent carbon-free by 2040. Constellation also committed to reducing operations-driven emissions by 100 percent by 2040, with an interim target of 65 percent by 2030, and to reducing methane emissions by 30 percent by 2030. Constellation is currently developing a roadmap for achieving these climate goals which will put us on a path to reduce our Scope 1 and 2 emissions by 2030 and beyond. will include implementation plans, a governance structure, and KPIs to track progress on an annual basis.
Other Community Engagement	Constellation's positive impacts go beyond providing clean, carbon-free energy to our customers. We create good-paying, family-sustaining careers that contribute to the economic development of the communities where we live and work, in addition to the taxes we pay to local governments to fund schools, fire, police and other public services. We also actively invest in community development through philanthropic giving and employee volunteerism. We are committed to building a future in which our employees, customers, business partners and communities benefit equitably from social, environmental and economic progress. Our corporate citizenship and philanthropy program is built upon three pillars: Climate & Environment: Providing support for environmental conservation and stewardship Equity & Education: Investing in education, STEM and workforce development Employee Philanthropy & Volunteerism: Demonstrating leadership and passion for causes close to our hearts

C4.5

(C4.5) Do you classify any of your existing goods and/or services as low-carbon products?

Yes

C4.5a

(C4.5a) Provide details of your products and/or services that you classify as low-carbon products.

Level of aggregation

Group of products or services

Taxonomy used to classify product(s) or service(s) as low-carbon

Other, please specify

WRI GHG accounting methodology and with avoided emissions being calculated at grid residual emissions rate

Type of product(s) or service(s)

Power

Other, please specify

carbon-free electricity generation

Description of product(s) or service(s)

We are the nation’s largest producer of clean, carbon-free energy, producing around 10% of the carbon-free energy in the U.S. Our generation fleet, which includes nuclear, hydroelectric, wind, solar and natural gas facilities, generates enough energy to power 15 million homes and has an annual output that is 90% carbon-free. We sell this generation to wholesale and retail customers, helping to keep grid emissions rate as low as possible.

We own and operates 21 nuclear reactors in the U.S. and have an ownership interest in two additional reactors with a combined capacity of nearly 21 GW. As a clean, carbon-free and highly reliable power source, nuclear is an essential part of the solution to combat climate change.

Our nuclear fleet alone avoided approximately 123 million metric tons of CO2 in 2022. Nuclear energy emits no GHGs or criteria air pollutants, such as nitrogen oxides (NOx), sulfur dioxide (SO2) or particulate matter (PM). Our nuclear fleet is the nation's largest and produces reliable baseload generation, staying online approximately 95% of the time, on average. With 24/7 generation capacity, our nuclear plants also support the expansion of renewables by stabilizing the grid for the intermittent nature of wind and solar power. We also operate a fleet of hydroelectric, wind, solar and storage assets with a combined capacity of more than 2.6 GW.

We entered 0 in the "Revenue generated…" field to satisfy CDP's disclosure requirement as this metric is not available.

Have you estimated the avoided emissions of this low-carbon product(s) or service(s)

Yes

Methodology used to calculate avoided emissions

Other, please specify

U.S. EPA Greenhouse Gas Emissions Equivalency Calculator

Life cycle stage(s) covered for the low-carbon product(s) or services(s)

Use stage

Functional unit used

Quantity of carbon-free electricity generated per year by our generation fleet (177,837,621 MWh).

Reference product/service or baseline scenario used

CO2e emissions from fossil fuel electricity generation that would have occurred but for the quantity of owned nuclear and renewable energy generation during the reporting year.

Life cycle stage(s) covered for the reference product/service or baseline scenario

Use stage

Estimated avoided emissions (metric tons CO2e per functional unit) compared to reference product/service or baseline scenario

126,030,406

Explain your calculation of avoided emissions, including any assumptions

Per the GHG Protocol equity share ownership boundary, 177,837,621,116 kWh of owned electricity was generated from clean, non-emitting sources (nuclear and renewables) in the reporting year. This quantity was entered into U.S. EPA's GHG Equivalencies calculator found here: https://www.epa.gov/energy/greenhouse-gas-equivalencies-calculator under "Kilowatt-hours avoided", yielding 126,030,406 metric tons of CO2e avoided. The U.S. EPA's GHG Equivalencies calculator uses a national average emission factor in this calculation.

Revenue generated from low-carbon product(s) or service(s) as % of total revenue in the reporting year

0

Level of aggregation

Group of products or services

Taxonomy used to classify product(s) or service(s) as low-carbon

Other, please specify

WRI GHG accounting methodology

Type of product(s) or service(s)

Other

Other, please specify

sustainable commercial products and services

Description of product(s) or service(s)

Our commercial platform provides tools to empower customers to measure their carbon footprint, increase access to clean, carbon-free power, and improve energy efficiency and reduce emissions. Some of our innovative sustainable products and services include:

•Constellation Offsite Renewables (CORe) offers customers access to existing offsite renewable projects through retail power contracts, and our CORe+ product offers access to new-build renewable energy projects and renewable energy certificates (RECs) through a physically-delivered retail electric supply agreement.

• Hourly Carbon-Free Energy Matching provides customers with a transparent, independently verified view of their sustainability efforts, with hourly matching and reporting of carbon-free electricity supply and consumption. We partnered with Microsoft to develop an hourly-matching technology solution that enables us to match customers' power needs with regional carbon-free energy sources, 24/7/365.

• Energy Attribute Certificates allow customers to match their purchased electricity with Emission-Free Energy Certificates, which represent the emission-free attributes of carbon-free generating sources, primarily nuclear, as well as RECs.

• Constellation Energy Solutions support commercial customers by designing a customized plan to help them achieve their operational and sustainability goals.

We entered 0 in the "Revenue generated…" field to satisfy CDP's disclosure requirement as this metric is not available.

Have you estimated the avoided emissions of this low-carbon product(s) or service(s)

No

Methodology used to calculate avoided emissions

Life cycle stage(s) covered for the low-carbon product(s) or services(s)

Functional unit used

Reference product/service or baseline scenario used

Life cycle stage(s) covered for the reference product/service or baseline scenario

Estimated avoided emissions (metric tons CO2e per functional unit) compared to reference product/service or baseline scenario

Explain your calculation of avoided emissions, including any assumptions

Revenue generated from low-carbon product(s) or service(s) as % of total revenue in the reporting year

0

C-EU4.6

(C-EU4.6) Describe your organization's efforts to reduce methane emissions from your activities.

As part of our ambitious climate goals that we announced in February 2022 upon separation from Exelon, we commit to reducing methane emissions 30 percent by 2030, also from a 2020 baseline, aligning Constellation with the Global Methane Pledge. In 2023, we are developing a roadmap for achieving our climate goals which will include implementation plans and recommendations for KPIs to track progress, and which will put us on a path to reduce our Scope 1 and 2 emissions by 2030 and beyond. Taken collectively, our climate commitments wholly cover all our Scope 1 and 2 GHG emissions.

C5. Emissions methodology

C5.1

(C5.1) Is this your first year of reporting emissions data to CDP?

No

C5.1a

(C5.1a) Has your organization undergone any structural changes in the reporting year, or are any previous structural changes being accounted for in this disclosure of emissions data?

Row 1

Has there been a structural change?

Yes, other structural change, please specify

see “Details of structural change(s)…” cell

Name of organization(s) acquired, divested from, or merged with

Exelon

Details of structural change(s), including completion dates

In February of 2022, Constellation finalized its separation from Exelon. Our GHG inventory boundary only includes entities now owned by Constellation post-separation.

C5.1b

(C5.1b) Has your emissions accounting methodology, boundary, and/or reporting year definition changed in the reporting year?

	Change(s) in methodology, boundary, and/or reporting year definition?
Row 1	No, but we have discovered significant errors in our previous response(s)

C5.1c

(C5.1c) Have your organization’s base year emissions and past years’ emissions been recalculated as a result of any changes or errors reported in C5.1a and/or C5.1b?

	Base year recalculation	Scope(s) recalculated	Base year emissions recalculation policy, including significance threshold	Past years’ recalculation
Row 1	Yes	Scope 2, location-based Scope 2, market-based	Constellation’s significance threshold is set at 5% of 2020 baseline emissions for each GHG Scope. If methodology changes occur which would result in a greater than 5% change in baseline emissions within a GHG Scope, Constellation will adjust its site level baselines accordingly.	Yes

C5.2

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

Scope 1

Base year start

January 1, 2020

Base year end

December 31, 2020

Base year emissions (metric tons CO2e)

8,006,374

Comment

Constellation utilizes an equity share boundary approach.

Scope 2 (location-based)

Base year start

January 1, 2020

Base year end

December 31, 2020

Base year emissions (metric tons CO2e)

354,262

Comment

Constellation utilizes an equity share boundary approach.

Scope 2 (market-based)

Base year start

January 1, 2020

Base year end

December 31, 2020

Base year emissions (metric tons CO2e)

126,571

Comment

Constellation utilizes an equity share boundary approach.

Scope 3 category 1: Purchased goods and services

Base year start

Base year end

Base year emissions (metric tons CO2e)

Comment

Scope 3 category 2: Capital goods

Base year start

Base year end

Base year emissions (metric tons CO2e)

Comment

Scope 3 category 3: Fuel-and-energy-related activities (not included in Scope 1 or 2)

Base year start

January 1, 2020

Base year end

December 31, 2020

Base year emissions (metric tons CO2e)

25,469,772

Comment

This represents emissions associated with long-term power purchase agreements and spot market electricity purchases which are sold and traded as part of the Constellation retail and wholesale business. Attributes associated with renewable energy may be sold as RECs. eGRID plant-specific emissions rates were employed for generation suppliers with long-term PPAs. Grid emissions rates are used for estimating.

Scope 3 category 4: Upstream transportation and distribution

Base year start

Base year end

Base year emissions (metric tons CO2e)

Comment

Scope 3 category 5: Waste generated in operations

Base year start

Base year end

Base year emissions (metric tons CO2e)

Comment

Scope 3 category 6: Business travel

Base year start

Base year end

Base year emissions (metric tons CO2e)

Comment

Scope 3 category 7: Employee commuting

Base year start

Base year end

Base year emissions (metric tons CO2e)

Comment

Scope 3 category 8: Upstream leased assets

Base year start

Base year end

Base year emissions (metric tons CO2e)

Comment

Scope 3 category 9: Downstream transportation and distribution

Base year start

Base year end

Base year emissions (metric tons CO2e)

Comment

Scope 3 category 10: Processing of sold products

Base year start

Base year end

Base year emissions (metric tons CO2e)

Comment

Scope 3 category 11: Use of sold products

Base year start

January 1, 2020

Base year end

December 31, 2020

Base year emissions (metric tons CO2e)

74,926,113

Comment

These emissions are related to the use of natural gas sold by our retail and wholesale organization as well as emissions associated with electric generation, heating and cooling equipment we do not own but that we operate for others; or lease to others for their operations (such as fuel cells) primarily under our Energy Solutions business.

Scope 3 category 12: End of life treatment of sold products

Base year start

Base year end

Base year emissions (metric tons CO2e)

Comment

Scope 3 category 13: Downstream leased assets

Base year start

Base year end

Base year emissions (metric tons CO2e)

Comment

Scope 3 category 14: Franchises

Base year start

Base year end

Base year emissions (metric tons CO2e)

Comment

Scope 3 category 15: Investments

Base year start

Base year end

Base year emissions (metric tons CO2e)

Comment

Scope 3: Other (upstream)

Base year start

Base year end

Base year emissions (metric tons CO2e)

Comment

Scope 3: Other (downstream)

Base year start

Base year end

Base year emissions (metric tons CO2e)

Comment

C5.3

(C5.3) Select the name of the standard, protocol, or methodology you have used to collect activity data and calculate emissions.

ISO 14064-1
The Climate Registry: General Reporting Protocol
The Greenhouse Gas Protocol: A Corporate Accounting and Reporting Standard (Revised Edition)
The Greenhouse Gas Protocol: Scope 2 Guidance
The Greenhouse Gas Protocol: Corporate Value Chain (Scope 3) Standard
US EPA Mandatory Greenhouse Gas Reporting Rule

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)

9,108,347

Start date

January 1, 2022

End date

December 31, 2022

Comment

Constellation utilizes an equity share boundary approach.

Past year 1

Gross global Scope 1 emissions (metric tons CO2e)

8,253,968

Start date

January 1, 2021

End date

December 31, 2021

Comment

Constellation utilizes an equity share boundary approach.

Past year 2

Gross global Scope 1 emissions (metric tons CO2e)

8,004,108

Start date

January 1, 2020

End date

December 31, 2020

Comment

Constellation utilizes an equity share boundary approach.

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

We are reporting a Scope 2, market-based figure

Comment

Equity Share Boundary; Scope 2 location-based uses the specific ISO average emission factor if available for the region, otherwise employing the EPA eGRID sub-regional factors from 2021 data set as issued in 2/2023; Scope 2 market-based use ISO residual factors where available, otherwise employing the EPA eGRID sub-regional factors from 2021 data set as issued in 2/2023 where ISO regional rates are not available.

Scope 2 market-based also reflects Constellation purchases of PJM Emissions Free Energy Credits attributed to nuclear generation in this ISO where such attributes are tracked and able to be retired to a specific user.

C6.3

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

Reporting year

Scope 2, location-based

325,341

Scope 2, market-based (if applicable)

45,444

Start date

January 1, 2022

End date

December 31, 2022

Comment

Constellation utilizes an equity share boundary approach.

Past year 1

Scope 2, location-based

366,224

Scope 2, market-based (if applicable)

55,785

Start date

January 1, 2021

End date

December 31, 2021

Comment

Constellation utilizes an equity share boundary approach.

Past year 2

Scope 2, location-based

354,262

Scope 2, market-based (if applicable)

126,571

Start date

January 1, 2020

End date

December 31, 2020

Comment

Constellation utilizes an equity share boundary approach.

C6.4

(C6.4) Are there any sources (e.g. facilities, specific GHGs, activities, geographies, etc.) of Scope 1, Scope 2 or Scope 3 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 relevant, explanation provided

Please explain

In our first year as a stand-alone company, Constellation addressed calculation of Scope 3 emissions for categories where data was most accessible and reliable. We will be undertaking a comprehensive Scope 3 gap assessment within the next year where we will identify all potential sources of value chain emissions. We anticipate being able to report all our relevant Scope 3 emissions with reliable data sources to enable calculation upon completion of that process.

Based on our current understanding, Constellation has emissions in Scope 3 Category 1 Purchased Goods and Services, but these emissions are not likely to be relevant. We anticipate that emissions in this category will not comprise a large portion of our Scope 3 emissions when compared to our emissions in Scope 3 Categories 3 and 11. However, we will assess whether we have the ability to influence emissions reductions within this category such that we deem it relevant as part of our Scope 3 assessment.

Capital goods

Evaluation status

Relevant, not yet calculated

Please explain

In our first year as a stand-alone company, Constellation addressed calculation of Scope 3 emissions for categories where data was most accessible and reliable. We will be undertaking a comprehensive Scope 3 gap assessment within the next year where we will identify all potential sources of value chain emissions. We anticipate being able to report all our relevant Scope 3 emissions with reliable data sources to enable calculation upon completion of that process.

Within Scope 3 Category 2 Capital Goods, nuclear fuel is considered a capital good for our business. Based on our current understanding, we believe these emissions may be relevant both in size and ability to influence potential emissions reductions.

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

Evaluation status

Relevant, calculated

Emissions in reporting year (metric tons CO2e)

21,050,841

Emissions calculation methodology

Average data method

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

0

Please explain

These emissions represent emissions associated with electricity not purchased or generated by Constellation, but the emissions that have been calculated include long term power purchase agreements and spot market purchases for generation in addition to our owned assets which are sold and traded as part of the Constellation retail and wholesale business. Attributes associated with renewable energy may be sold as RECs. eGRID plant specific emissions rates were employed for generation suppliers with long-term PPAs. Grid emissions rates are used for estimating emissions associated with electricity delivery as supplier rates are not typically available. National average grid mix was used for supply where source generation was not specified.

These Scope 3 Category 3 emissions do not include the upstream life cycle emissions of the fuels we use for generation currently. We will be undertaking a comprehensive Scope 3 gap assessment within the next year where we will identify all potential sources of value chain emissions. Following this, if our Scope 3 upstream life cycle fuel emissions are deemed relevant, we will report on them accordingly.

Upstream transportation and distribution

Evaluation status

Not relevant, explanation provided

Please explain

At this time, we do not believe Scope 3 Category 4 Upstream Transportation and Distribution emissions are relevant to Constellation's business. There are minimal potential sources of emissions and there are not potential emissions reductions that could be undertaken by the company at this juncture.

Waste generated in operations

Evaluation status

Not relevant, explanation provided

Please explain

In our first year as a stand-alone company, Constellation addressed calculation of Scope 3 emissions for categories where data was most accessible and reliable. We will be undertaking a comprehensive Scope 3 gap assessment within the next year where we will identify all potential sources of value chain emissions. We anticipate being able to report all our relevant Scope 3 emissions with reliable data sources to enable calculation upon completion of that process.

Based on our current understanding, Constellation has emissions in Scope 3 Category 5 Waste Generated in Operations, but these emissions are not likely to be relevant. We anticipate that emissions in this category will not comprise a large portion of our Scope 3 emissions when compared to our emissions in Scope 3 Categories 3 and 11. However, we will assess whether we have the ability to influence emissions reductions within this category such that we deem it relevant as part of our Scope 3 assessment.

Business travel

Evaluation status

Relevant, calculated

Emissions in reporting year (metric tons CO2e)

4,686

Emissions calculation methodology

Distance-based method

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

100

Please explain

Constellation receives summaries of our miles travelled by each mode of transportation from our business travel agency. Constellation uses the latest EPA GHG Emissions Factor Hub emissions factors for calculation of business travel emissions beyond those captured from our fleet vehicles and aircraft in our Scope 1 emissions.

Employee commuting

Evaluation status

Not relevant, explanation provided

Please explain

In our first year as a stand-alone company, Constellation addressed calculation of Scope 3 emissions for categories where data was most accessible and reliable. We will be undertaking a comprehensive Scope 3 gap assessment within the next year where we will identify all potential sources of value chain emissions. We anticipate being able to report all our relevant Scope 3 emissions with reliable data sources to enable calculation upon completion of that process.

Based on our current understanding, Constellation has emissions in Scope 3 Category 7 Employee Commuting, but these emissions are not likely to be relevant. We anticipate that emissions in this category will not comprise a large portion of our Scope 3 emissions when compared to our emissions in Scope 3 Categories 3 and 11. However, we will assess whether we have the ability to influence emissions reductions within this category such that we deem it relevant as part of our Scope 3 assessment.

Upstream leased assets

Evaluation status

Relevant, calculated

Emissions in reporting year (metric tons CO2e)

4,338

Emissions calculation methodology

Asset-specific method

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

100

Please explain

Constellation includes emissions from leased buildings in this category of emissions. There are some buildings for which actual data cannot be obtained and electricity use is estimated based on the square footage leased.

Downstream transportation and distribution

Evaluation status

Not relevant, explanation provided

Please explain

At this time, we do not believe Scope 3 Category 8 Downstream Transportation and Distribution is relevant to Constellation's business. Downstream transportation and distribution for Constellation's business would relate to pipelines for natural gas or electricity transmission lines not owned by Constellation and for which Constellation could not reasonably make an impact on with regard to GHG emissions reductions at this time.

Processing of sold products

Evaluation status

Not relevant, explanation provided

Please explain

Constellation does not have having processing of sold products that is not captured under its Scope 1 and Scope 2 inventory.

Use of sold products

Evaluation status

Relevant, calculated

Emissions in reporting year (metric tons CO2e)

60,520,194

Emissions calculation methodology

Fuel-based method

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

100

Please explain

Within Scope 3 Category 11 Use of Sold Products, Constellation captures two sources of emissions: use of natural gas sold by our Constellation wholesale and retail organization (60.08 million metric tons CO2e) and emissions associated with electric generation, heating and cooling equipment we do not own but that we operate for others; or lease to others for their operations (such as fuel cells) primarily under our Energy Solutions business (438 thousand metric tons CO2e).

End of life treatment of sold products

Evaluation status

Not relevant, explanation provided

Please explain

There is no end of life treatment required for of our primary products: wholesale and retail electricity and retail natural gas.

Downstream leased assets

Evaluation status

Not relevant, explanation provided

Please explain

Constellation's Eddystone facility started to lease a portion of its property for transfer of fuel from rail to barge in 2014. This operation is small in comparison to our other operations and as a result, is not deemed relevant.

Franchises

Evaluation status

Not relevant, explanation provided

Please explain

Constellation did not have any applicable franchises in 2022.

Investments

Evaluation status

Not relevant, explanation provided

Please explain

At this time, Constellation's primary business is as an energy holding company with operations associated with gas distribution and electric generation. This Scope 3 category is applicable to investors (i.e., companies that make an investment with the objective of making a profit) and companies that provide financial services, and is thus not relevant to Constellation at this time.

Other (upstream)

Evaluation status

Not relevant, explanation provided

Please explain

Constellation did not have any other applicable upstream sources of value chain emissions in 2022.

Other (downstream)

Evaluation status

Not relevant, explanation provided

Please explain

Constellation did not have any other applicable downstream sources of value chain emissions in 2022.

C6.5a

(C6.5a) Disclose or restate your Scope 3 emissions data for previous years.

Past year 1

Start date

January 1, 2021

End date

December 31, 2021

Scope 3: Purchased goods and services (metric tons CO2e)

Scope 3: Capital goods (metric tons CO2e)

Scope 3: Fuel and energy-related activities (not included in Scopes 1 or 2) (metric tons CO2e)

24,065,916

Scope 3: Upstream transportation and distribution (metric tons CO2e)

Scope 3: Waste generated in operations (metric tons CO2e)

Scope 3: Business travel (metric tons CO2e)

3,064

Scope 3: Employee commuting (metric tons CO2e)

Scope 3: Upstream leased assets (metric tons CO2e)

5,418

Scope 3: Downstream transportation and distribution (metric tons CO2e)

Scope 3: Processing of sold products (metric tons CO2e)

Scope 3: Use of sold products (metric tons CO2e)

57,662,741

Scope 3: End of life treatment of sold products (metric tons CO2e)

Scope 3: Downstream leased assets (metric tons CO2e)

Scope 3: Franchises (metric tons CO2e)

Scope 3: Investments (metric tons CO2e)

Scope 3: Other (upstream) (metric tons CO2e)

Scope 3: Other (downstream) (metric tons CO2e)

Comment

Past year 2

Start date

January 1, 2020

End date

December 31, 2020

Scope 3: Purchased goods and services (metric tons CO2e)

Scope 3: Capital goods (metric tons CO2e)

Scope 3: Fuel and energy-related activities (not included in Scopes 1 or 2) (metric tons CO2e)

25,469,772

Scope 3: Upstream transportation and distribution (metric tons CO2e)

Scope 3: Waste generated in operations (metric tons CO2e)

Scope 3: Business travel (metric tons CO2e)

Scope 3: Employee commuting (metric tons CO2e)

Scope 3: Upstream leased assets (metric tons CO2e)

Scope 3: Downstream transportation and distribution (metric tons CO2e)

Scope 3: Processing of sold products (metric tons CO2e)

Scope 3: Use of sold products (metric tons CO2e)

74,926,113

Scope 3: End of life treatment of sold products (metric tons CO2e)

Scope 3: Downstream leased assets (metric tons CO2e)

Scope 3: Franchises (metric tons CO2e)

Scope 3: Investments (metric tons CO2e)

Scope 3: Other (upstream) (metric tons CO2e)

Scope 3: Other (downstream) (metric tons CO2e)

Comment

C6.7

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

Yes

C6.7a

(C6.7a) Provide the emissions from biogenic carbon relevant to your organization in metric tons CO2.

	CO2 emissions from biogenic carbon (metric tons CO2)	Comment
Row 1	319,285	Includes direct biogenic carbon emissions (12 metric tons CO2) and upstream, indirect biogenic carbon emissions (319,273 metric tons CO2). Upstream indirect biogenic carbon emissions are from biomass power purchasing agreements facilitated by Constellation.

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

0.000385994

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

9,433,688

Metric denominator

unit total revenue

Metric denominator: Unit total

24,440,000,000

Scope 2 figure used

Location-based

% change from previous year

12

Direction of change

Decreased

Reason(s) for change

Change in revenue

Please explain

Constellation saw a 12.0% decrease in this metric because although gross Scope 1 and 2 (location-based) emissions increased by 9.1%, revenue grew by approximately 24.4%.

Intensity figure

0.000374541

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

9,153,791

Metric denominator

unit total revenue

Metric denominator: Unit total

24,440,000,000

Scope 2 figure used

Market-based

% change from previous year

11.4

Direction of change

Decreased

Reason(s) for change

Change in revenue

Please explain

Constellation saw an 11.4% decrease in this metric because although gross Scope 1 and 2 (location-based) emissions increased by 9.3%, revenue grew by approximately 24.4%.

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	8,711,891	IPCC Fourth Assessment Report (AR4 - 100 year)

CH4	385,932	IPCC Fourth Assessment Report (AR4 - 100 year)
N2O	7,037	IPCC Fourth Assessment Report (AR4 - 100 year)
SF6	1,629	IPCC Fourth Assessment Report (AR4 - 100 year)
HFCs	1,858	IPCC Fourth Assessment Report (AR4 - 100 year)
PFCs	0	IPCC Fourth Assessment Report (AR4 - 100 year)

C-EU7.1b

(C-EU7.1b) Break down your total gross global Scope 1 emissions from electric utilities value chain activities by greenhouse gas type.

	Gross Scope 1 CO2 emissions (metric tons CO2)	Gross Scope 1 methane emissions (metric tons CH4)	Gross Scope 1 SF6 emissions (metric tons SF6)	Total gross Scope 1 emissions (metric tons CO2e)	Comment
Fugitives	5,514.77	15,253.52	0.071	390,340.05	This includes fugitive emissions from refrigerant and bulk CO2 use, as well as heated venting form LNG storage tanks at the Everett LNG plant and SF6 equipment.
Combustion (Electric utilities)	8,634,308.9	181.97	0	8,645,746.55	This includes just fossil combustion associated with power generation from our electric generation fleet. Note that we do not operate vertically integrated utilities, so our generation is sold to the market and does not flow directly in our utilities delivery supply.
Combustion (Gas utilities)	17,356.36	0.33	0	17,356.72	This includes combustion emissions associated with the Everett LNG plant.

Combustion (Other)	43,820	1.27	0	43,931.33	This captures auxiliary station combustion used for process or building heat and emergency back up.
Emissions not elsewhere classified	10,891.21	0.18	0	10,972.32	This breakdown represents mobile emissions across the corporation.

C7.2

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

Country/area/region	Scope 1 emissions (metric tons CO2e)
Canada	370,451
United States of America	8,737,896
United Kingdom of Great Britain and Northern Ireland	0

C7.3

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

By business division

C7.3a

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

Business division	Scope 1 emissions (metric ton CO2e)
Constellation Nuclear - our nuclear electric generation fleet producing grid supplied electric.	38,002
Constellation Power - our power electric generation fleet operating a mixture of natural gas and renewable generation assets producing grid supplied electric. This also includes the Everett LNG Plant.	9,051,136

Externally Operated Sites – this includes sites for which Constellation holds an equity share ownership stake per GHG Protocol but does not operate.	11,243
Constellation Corporate & Business Services – This includes our corporate operations that support operations as well as our competitive retail business.	2,390

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	Comment
Electric utility activities	9,089,138	This includes fossil combustion for electric generation and auxiliary process equipment that directly support safe operation of these facilities, as well as refrigerant or bulk CO2 used as part of equipment operations or maintenance. Excluded emissions include Everett LNG facility.

C7.7

(C7.7) Is your organization able to break down your emissions data for any of the subsidiaries included in your CDP response?

Not relevant as we do not have any subsidiaries

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?

Increased

C7.9a

(C7.9a) 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.

	Change in emissions (metric tons CO2e)	Direction of change in emissions	Emissions value (percentage)	Please explain calculation
Change in renewable energy consumption				
Other emissions reduction activities				
Divestment				
Acquisitions				
Mergers				
Change in output	643,175	Increased	7.46	Due to 'changes in output' that occurred during 2022, emissions associated with our electric generation portfolio increased. These emissions increases are primarily related changes in dispatch calls for our plants to meet grid demand and are affected most by market prices and customer demand. The total increase attributable to change in output in 2022 was 643,175 metric tons CO2e. Our total Scope 1 and Scope 2 emissions in the previous year was 8,620,191 metric tons CO2e, therefore we arrived at 7.46% through (643,175/8,620,191) * 100=7.46% (i.e. a 7.46% increase in emissions)

Change in methodology				
Change in boundary				
Change in physical operating conditions	212,646		2.47	Due to 'changes in physical operating conditions' that occurred during 2022, emissions associated with venting at Everett LNG terminal increased by 212,646 metric tons CO2e. The reasoning is twofold: first, low send out of LNG in 2022 resulted in high venting and second, one of the boil-off compressors for storage tank vapor recovery was out of service for two months, resulting in an increase in emissions. Our total Scope 1 and Scope 2 emissions in the previous year was 8,620,191 metric tons CO2e, therefore we arrived at 2.47% through (212,646/8,620,191) * 100=2.46% (i.e. a 2.46% increase in emissions)
Unidentified				
Other				

C7.9b

(C7.9b) Are your emissions performance calculations in C7.9 and C7.9a based on a location-based Scope 2 emissions figure or a market-based Scope 2 emissions figure?

Location-based

C8. Energy

C8.1

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

More than 70% but less than or equal to 75%

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	Yes

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)	HHV (higher heating value)	38	45,128,814	45,128,852
Consumption of purchased or acquired electricity		0	910,915	910,915
Consumption of self-generated non-fuel renewable energy		44,106		44,106
Total energy consumption		44,144	46,039,729	46,083,873

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	Yes
Consumption of fuel for the generation of heat	Yes
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.

Sustainable biomass

Heating value

HHV

Total fuel MWh consumed by the organization

0

MWh fuel consumed for self-generation of electricity

0

MWh fuel consumed for self-generation of heat

0

Comment

Other biomass

Heating value

HHV

Total fuel MWh consumed by the organization

37.93

MWh fuel consumed for self-generation of electricity

0

MWh fuel consumed for self-generation of heat

37.93

Comment

Wood and wood residuals

Other renewable fuels (e.g. renewable hydrogen)

Heating value

HHV

Total fuel MWh consumed by the organization

0

MWh fuel consumed for self-generation of electricity

0

MWh fuel consumed for self-generation of heat

0

Comment

Coal

Heating value

HHV

Total fuel MWh consumed by the organization

0

MWh fuel consumed for self-generation of electricity

0

MWh fuel consumed for self-generation of heat

0

Comment

Oil

Heating value

HHV

Total fuel MWh consumed by the organization

507,918.65

MWh fuel consumed for self-generation of electricity

405,310.79

MWh fuel consumed for self-generation of heat

102,607.86

Comment

Fuel oil no 2, diesel, jet fuel, motor gasoline, and kerosene

Gas

Heating value

HHV

Total fuel MWh consumed by the organization

44,620,895.49

MWh fuel consumed for self-generation of electricity

44,404,222.43

MWh fuel consumed for self-generation of heat

216,673.06

Comment

Natural gas and propane

Other non-renewable fuels (e.g. non-renewable hydrogen)

Heating value

HHV

Total fuel MWh consumed by the organization

0

MWh fuel consumed for self-generation of electricity

0

MWh fuel consumed for self-generation of heat

0

Comment

Total fuel

Heating value

HHV

Total fuel MWh consumed by the organization

45,128,852.07

MWh fuel consumed for self-generation of electricity

44,809,533.22

MWh fuel consumed for self-generation of heat

319,318.85

Comment

C-EU8.2d

(C-EU8.2d) For your electric utility activities, provide a breakdown of your total power plant capacity, generation, and related emissions during the reporting year by source.

Coal – hard

Nameplate capacity (MW)

0

Gross electricity generation (GWh)

0

Net electricity generation (GWh)

0

Absolute scope 1 emissions (metric tons CO2e)

0

Scope 1 emissions intensity (metric tons CO2e per GWh)

0

Comment

Constellation has exited all coal-fired generation assets as of 2017.

Lignite

Nameplate capacity (MW)

0

Gross electricity generation (GWh)

0

Net electricity generation (GWh)

0

Absolute scope 1 emissions (metric tons CO2e)

0

Scope 1 emissions intensity (metric tons CO2e per GWh)

0

Comment

Constellation does not have this type of asset.

Oil

Nameplate capacity (MW)

1,128

Gross electricity generation (GWh)

65

Net electricity generation (GWh)

64

Absolute scope 1 emissions (metric tons CO2e)

75,573

Scope 1 emissions intensity (metric tons CO2e per GWh)

1,182.15

Comment

Includes only units fully oil fired. Emissions intensity is based off of Net GWh generation. Equity share ownership capacity as of December 31, 2022. Does not include dual fired units that may burn fuel oil part of the time - see below under other non-renewables below for dual-fired units.

Gas

Nameplate capacity (MW)

6,358

Gross electricity generation (GWh)

21,482

Net electricity generation (GWh)

20,907

Absolute scope 1 emissions (metric tons CO2e)

8,239,004

Scope 1 emissions intensity (metric tons CO2e per GWh)

394.07

Comment

Includes both Natural Gas CTs and CCGTs. Emissions intensity is based off of Net GWh generation. Equity share ownership capacity as of December 31, 2022. Does not include dual fired units that may burn natural gas part of the time - see below under other non-renewables below for dual-fired units.

Sustainable biomass

Nameplate capacity (MW)

0

Gross electricity generation (GWh)

0

Net electricity generation (GWh)

0

Absolute scope 1 emissions (metric tons CO2e)

0

Scope 1 emissions intensity (metric tons CO2e per GWh)

0

Comment

Constellation does not have this type of asset.

Other biomass

Nameplate capacity (MW)

0

Gross electricity generation (GWh)

0

Net electricity generation (GWh)

0

Absolute scope 1 emissions (metric tons CO2e)

0

Scope 1 emissions intensity (metric tons CO2e per GWh)

0

Comment

Constellation does not have this type of asset.

Waste (non-biomass)

Nameplate capacity (MW)

0

Gross electricity generation (GWh)

0

Net electricity generation (GWh)

0

Absolute scope 1 emissions (metric tons CO2e)

0

Scope 1 emissions intensity (metric tons CO2e per GWh)

0

Comment

Constellation does not have this type of asset.

Nuclear

Nameplate capacity (MW)

20,895

Gross electricity generation (GWh)

178,582

Net electricity generation (GWh)

73,349

Absolute scope 1 emissions (metric tons CO2e)

0

Scope 1 emissions intensity (metric tons CO2e per GWh)

0

Comment

Equity share ownership capacity as of December 31, 2022.

Fossil-fuel plants fitted with CCS

Nameplate capacity (MW)

0

Gross electricity generation (GWh)

0

Net electricity generation (GWh)

0

Absolute scope 1 emissions (metric tons CO2e)

0

Scope 1 emissions intensity (metric tons CO2e per GWh)

0

Comment

While we did not have any grid connected generation assets with CCS in 2022, Constellation constantly seeks new technologies to provide customers with low-carbon energy solutions. For example, we were also a strategic venture investor in NET Power, LLC, which recently went public through a business combination with special purpose acquisition company Rice Acquisition Corp. II to form a new company called NET Power Inc. NET Power is a clean energy technology company that promotes, develops and licenses a proprietary process for efficiently generating electricity from natural gas while capturing all CO2 emissions. NET Power's revolutionary patented technology captures over 97 percent of CO2 emissions from power generation by combusting natural gas with pure oxygen and recirculating most of the resulting CO2 emissions back into a turboexpander, which produces electricity. Any CO2 not recirculated through the process is captured for sequestration. In addition to being an investor, Constellation provides operational services at NET Power's LaPorte, Texas demonstration facility.

Geothermal

Nameplate capacity (MW)

0

Gross electricity generation (GWh)

0

Net electricity generation (GWh)

0

Absolute scope 1 emissions (metric tons CO2e)

0

Scope 1 emissions intensity (metric tons CO2e per GWh)

0

Comment

Constellation does not have this type of asset.

Hydropower

Nameplate capacity (MW)

572

Gross electricity generation (GWh)

1,757

Net electricity generation (GWh)

1,757

Absolute scope 1 emissions (metric tons CO2e)

0

Scope 1 emissions intensity (metric tons CO2e per GWh)

0

Comment

This includes generation associated with Conowingo Hydroelectric plant. Per directions Muddy Run pumped storage facility has been omitted.

Wind

Nameplate capacity (MW)

752

Gross electricity generation (GWh)

2,173

Net electricity generation (GWh)

2,130

Absolute scope 1 emissions (metric tons CO2e)

0

Scope 1 emissions intensity (metric tons CO2e per GWh)

0

Comment

Equity share ownership capacity as of December 31, 2022.

Solar

Nameplate capacity (MW)

268

Gross electricity generation (GWh)

602

Net electricity generation (GWh)

602

Absolute scope 1 emissions (metric tons CO2e)

0

Scope 1 emissions intensity (metric tons CO2e per GWh)

0

Comment

Equity share ownership capacity as of December 31, 2022.

Marine

Nameplate capacity (MW)

0

Gross electricity generation (GWh)

0

Net electricity generation (GWh)

0

Absolute scope 1 emissions (metric tons CO2e)

0

Scope 1 emissions intensity (metric tons CO2e per GWh)

0

Comment

Constellation does not have this type of asset.

Other renewable

Nameplate capacity (MW)

0

Gross electricity generation (GWh)

0

Net electricity generation (GWh)

0

Absolute scope 1 emissions (metric tons CO2e)

0

Scope 1 emissions intensity (metric tons CO2e per GWh)

0

Comment

Constellation does not have this type of asset.

Other non-renewable

Nameplate capacity (MW)

1,355

Gross electricity generation (GWh)

594

Net electricity generation (GWh)

548

Absolute scope 1 emissions (metric tons CO2e)

331,170

Scope 1 emissions intensity (metric tons CO2e per GWh)

604.29

Comment

These include generation facilities that can burn either natural gas or fuel oil and switch during the course of the year depending upon demand, fuel costs and fuel availability. Equity share ownership as of December 31, 2022.

Total

Nameplate capacity (MW)

31,328

Gross electricity generation (GWh)

205,254

Net electricity generation (GWh)

199,357

Absolute scope 1 emissions (metric tons CO2e)

8,645,747

Scope 1 emissions intensity (metric tons CO2e per GWh)

43.37

Comment

Because of the specific rules of the CDP reporting to exclude certain sources, there may be slight differences in how this compares to our other public disclosures. Specifically, Constellation also has a 1070 MW capacity hydro pumped storage facility and a 10 MW battery storage facility that it typically includes in generation accounting in our Corporate Sustainability Report (CSR). Also Sections 8.2 through 8.2d specifically say to exclude nuclear generation in the totals, although some site power used at nuclear generation stations may come from that nuclear self-generation.

C8.2g

(C8.2g) Provide a breakdown by country/area of your non-fuel energy consumption in the reporting year.

Country/area

Canada

Consumption of purchased electricity (MWh)

5,479

Consumption of self-generated electricity (MWh)

0

Consumption of purchased heat, steam, and cooling (MWh)

0

Consumption of self-generated heat, steam, and cooling (MWh)

0

Total non-fuel energy consumption (MWh) [Auto-calculated]

5,479

Country/area

United States of America

Consumption of purchased electricity (MWh)

905,436

Consumption of self-generated electricity (MWh)

0

Consumption of purchased heat, steam, and cooling (MWh)

0

Consumption of self-generated heat, steam, and cooling (MWh)

0

Total non-fuel energy consumption (MWh) [Auto-calculated]

905,436

C-EU8.4

(C-EU8.4) Does your electric utility organization have a transmission and distribution business?

No

C9. Additional metrics

C9.1

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

Description

Energy usage

Metric value

2.17

Metric numerator

53103

Metric denominator (intensity metric only)

$24,440

% change from previous year

18

Direction of change

Decreased

Please explain

Our Energy intensity metric is calculated by dividing our total energy consumption (in GWh) by our total revenue (in USD millions). In 2022, our total energy consumption was 53,103 GWh while our total revenue was $24,440,000,000. Therefore, our Energy Intensity metric was 2.17 GWh per $ million of revenue in 2022. This was 18% lower than in 2021, when our total energy consumption was 51,945 GWh and our total revenue was $19,649,000,000.

C-EU9.5a

(C-EU9.5a) Break down, by source, your organization's CAPEX in the reporting year and CAPEX planned over the next 5 years.

Coal – hard

CAPEX in the reporting year for power generation from this source (unit currency as selected in C0.4)

CAPEX in the reporting year for power generation from this source as % of total CAPEX for power generation in the reporting year

CAPEX planned over the next 5 years for power generation from this source as % of total CAPEX planned for power generation over the next 5 years

Explain your CAPEX calculations, including any assumptions

Lignite

CAPEX in the reporting year for power generation from this source (unit currency as selected in C0.4)

CAPEX in the reporting year for power generation from this source as % of total CAPEX for power generation in the reporting year

CAPEX planned over the next 5 years for power generation from this source as % of total CAPEX planned for power generation over the next 5 years

Explain your CAPEX calculations, including any assumptions

Oil

CAPEX in the reporting year for power generation from this source (unit currency as selected in C0.4)

CAPEX in the reporting year for power generation from this source as % of total CAPEX for power generation in the reporting year

CAPEX planned over the next 5 years for power generation from this source as % of total CAPEX planned for power generation over the next 5 years

Explain your CAPEX calculations, including any assumptions

Gas

CAPEX in the reporting year for power generation from this source (unit currency as selected in C0.4)

CAPEX in the reporting year for power generation from this source as % of total CAPEX for power generation in the reporting year

CAPEX planned over the next 5 years for power generation from this source as % of total CAPEX planned for power generation over the next 5 years

Explain your CAPEX calculations, including any assumptions

Sustainable biomass

CAPEX in the reporting year for power generation from this source (unit currency as selected in C0.4)

CAPEX in the reporting year for power generation from this source as % of total CAPEX for power generation in the reporting year

CAPEX planned over the next 5 years for power generation from this source as % of total CAPEX planned for power generation over the next 5 years

Explain your CAPEX calculations, including any assumptions

Other biomass

CAPEX in the reporting year for power generation from this source (unit currency as selected in C0.4)

CAPEX in the reporting year for power generation from this source as % of total CAPEX for power generation in the reporting year

CAPEX planned over the next 5 years for power generation from this source as % of total CAPEX planned for power generation over the next 5 years

Explain your CAPEX calculations, including any assumptions

Waste (non-biomass)

CAPEX in the reporting year for power generation from this source (unit currency as selected in C0.4)

CAPEX in the reporting year for power generation from this source as % of total CAPEX for power generation in the reporting year

CAPEX planned over the next 5 years for power generation from this source as % of total CAPEX planned for power generation over the next 5 years

Explain your CAPEX calculations, including any assumptions

Nuclear

CAPEX in the reporting year for power generation from this source (unit currency as selected in C0.4)

850,000,000

CAPEX in the reporting year for power generation from this source as % of total CAPEX for power generation in the reporting year

51.5

CAPEX planned over the next 5 years for power generation from this source as % of total CAPEX planned for power generation over the next 5 years

46

Most recent year in which a new power plant using this source was approved for development

Explain your CAPEX calculations, including any assumptions

We are using this row to disclose the capital expenditures associated with nuclear fuel between 2022 and 2025. This information is also available in our Earnings Conference Call presentation located at https://investors.constellationenergy.com/static-files/6d7e2f0b-56e5-4f49-8c3f-b0f83b218f25

Geothermal

CAPEX in the reporting year for power generation from this source (unit currency as selected in C0.4)

CAPEX in the reporting year for power generation from this source as % of total CAPEX for power generation in the reporting year

CAPEX planned over the next 5 years for power generation from this source as % of total CAPEX planned for power generation over the next 5 years

Explain your CAPEX calculations, including any assumptions

Hydropower

CAPEX in the reporting year for power generation from this source (unit currency as selected in C0.4)

CAPEX in the reporting year for power generation from this source as % of total CAPEX for power generation in the reporting year

CAPEX planned over the next 5 years for power generation from this source as % of total CAPEX planned for power generation over the next 5 years

Explain your CAPEX calculations, including any assumptions

Wind

CAPEX in the reporting year for power generation from this source (unit currency as selected in C0.4)

CAPEX in the reporting year for power generation from this source as % of total CAPEX for power generation in the reporting year

CAPEX planned over the next 5 years for power generation from this source as % of total CAPEX planned for power generation over the next 5 years

Explain your CAPEX calculations, including any assumptions

Solar

CAPEX in the reporting year for power generation from this source (unit currency as selected in C0.4)

CAPEX in the reporting year for power generation from this source as % of total CAPEX for power generation in the reporting year

CAPEX planned over the next 5 years for power generation from this source as % of total CAPEX planned for power generation over the next 5 years

Explain your CAPEX calculations, including any assumptions

Marine

CAPEX in the reporting year for power generation from this source (unit currency as selected in C0.4)

CAPEX in the reporting year for power generation from this source as % of total CAPEX for power generation in the reporting year

CAPEX planned over the next 5 years for power generation from this source as % of total CAPEX planned for power generation over the next 5 years

Explain your CAPEX calculations, including any assumptions

Fossil-fuel plants fitted with CCS

CAPEX in the reporting year for power generation from this source (unit currency as selected in C0.4)

CAPEX in the reporting year for power generation from this source as % of total CAPEX for power generation in the reporting year

CAPEX planned over the next 5 years for power generation from this source as % of total CAPEX planned for power generation over the next 5 years

Explain your CAPEX calculations, including any assumptions

Other renewable (e.g. renewable hydrogen)

CAPEX in the reporting year for power generation from this source (unit currency as selected in C0.4)

CAPEX in the reporting year for power generation from this source as % of total CAPEX for power generation in the reporting year

CAPEX planned over the next 5 years for power generation from this source as % of total CAPEX planned for power generation over the next 5 years

Explain your CAPEX calculations, including any assumptions

Other non-renewable (e.g. non-renewable hydrogen)

CAPEX in the reporting year for power generation from this source (unit currency as selected in C0.4)

800,000,000

CAPEX in the reporting year for power generation from this source as % of total CAPEX for power generation in the reporting year

48.5

CAPEX planned over the next 5 years for power generation from this source as % of total CAPEX planned for power generation over the next 5 years

54

Most recent year in which a new power plant using this source was approved for development

Explain your CAPEX calculations, including any assumptions

We are using this row to disclose the total capital expenditures associated with maintaining existing assets (Baseline) and capital expenditures associated with committed growth opportunities (Committed Growth) between 2022 and 2025 because there is no option for us to add rows specific to those CAPEX categories. This information is also available in our Q4 2022 Earnings Conference Call presentation located at https://investors.constellationenergy.com/static-files/6d7e2f0b-56e5-4f49-8c3f-b0f83b218f25

C-EU9.5b

(C-EU9.5b) Break down your total planned CAPEX in your current CAPEX plan for products and services (e.g. smart grids, digitalization, etc.).

Products and services	Description of product/service	CAPEX planned for product/service	Percentage of total CAPEX planned products and services	End of year CAPEX plan
Other, please specify Total Planned CAPEX	Capital expenditures associated with maintaining existing assets (Baseline), Nuclear Fuel, and Committed Growth opportunities between 2023 and 2025. Detailed information is also available in our Q4 2022 Earnings Conference Call presentation located at https://investors.constellationenergy.com/static-files/6d7e2f0b-56e5-4f49-8c3f-b0f83b218f25	7,600,000,000	100	2025

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	Yes	Constellation has a dedicated budget for low-carbon product R&D. We continually evaluate growth opportunities aligned with our businesses, assets, and markets leveraging our expertise in those areas and offering durable returns. We may pursue growth opportunities that optimize our core business or expand upon our strengths, including, but not limited to the following: • Opportunistic carbon-free energy acquisitions, particularly nuclear plants with supportive policy, • Create new value from the existing fleet through repowering, co-location and other opportunities, • Grow sustainability products and services for our customers focused on clean energy, efficiency, storage and electrification; help our C&I customers develop and meet sustainability targets, • Produce clean hydrogen using our carbon-free fleet, • Engagement with the technology and innovation ecosystem through continued partnerships with national labs, universities, startups, and research institutions, and • Explore advanced nuclear technology for investment and participation via advisory services to maintain ur leadership position as stewards of a carbon-free energy future.

C-CO9.6a/C-EU9.6a/C-OG9.6a

(C-CO9.6a/C-EU9.6a/C-OG9.6a) Provide details of your organization's investments in low-carbon R&D for your sector activities over the last three years.

Technology area	Stage of development in the reporting year	Average % of total R&D investment over the last 3 years	R&D investment figure in the reporting year (unit currency as selected in C0.4) (optional)	Average % of total R&D investment planned over the next 5 years	Explain how your R&D investment in this technology area is aligned with your climate commitments and/or climate transition plan
Unable to disaggregate by technology area		0	0	0	We selected 0 in the numeric fields in this question in order to satisfy CDP's disclosure system requirements. In reality, we, have significant investments in R&D for low-carbon products and services but are not in a position to disclose the level of detail required in the subsequent question at this time. For more information about our investments in innovative technologies that will help accelerate the transition to a carbon-free future, please visit our website at https://www.constellationenergy.com/our-work/innovation-and-advancement/strategy.html.

C10. Verification

C10.1

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

	Verification/assurance status
Scope 1	Third-party verification or assurance process in place

Scope 2 (location-based or market-based)	Third-party verification or assurance process in place
Scope 3	Third-party verification or assurance process in place

C10.1a

(C10.1a) Provide further details of the verification/assurance undertaken for your Scope 1 emissions, and attach the relevant statements.

Verification or assurance cycle in place

Annual process

Status in the current reporting year

Complete

Type of verification or assurance

Reasonable assurance

Attach the statement

Constellation CY 2022 GHG Emissions and Air Emissions Intensity Assurance Statement.pdf

Page/ section reference

whole document

Relevant standard

ISO14064-3

Proportion of reported emissions verified (%)

100

C10.1b

(C10.1b) Provide further details of the verification/assurance undertaken for your Scope 2 emissions and attach the relevant statements.

Scope 2 approach

Scope 2 location-based

Verification or assurance cycle in place

Annual process

Status in the current reporting year

Complete

Type of verification or assurance

Reasonable assurance

Attach the statement

Constellation CY 2022 GHG Emissions and Air Emissions Intensity Assurance Statement.pdf

Page/ section reference

whole document

Relevant standard

ISO14064-3

Proportion of reported emissions verified (%)

100

Scope 2 approach

Scope 2 market-based

Verification or assurance cycle in place

Annual process

Status in the current reporting year

Complete

Type of verification or assurance

Reasonable assurance

Attach the statement

Constellation CY 2022 GHG Emissions and Air Emissions Intensity Assurance Statement.pdf

Page/ section reference

whole document

Relevant standard

ISO14064-3

Proportion of reported emissions verified (%)

100

C10.1c

(C10.1c) Provide further details of the verification/assurance undertaken for your Scope 3 emissions and attach the relevant statements.

Scope 3 category

Scope 3: Fuel and energy-related activities (not included in Scopes 1 or 2)

Verification or assurance cycle in place

Annual process

Status in the current reporting year

Complete

Type of verification or assurance

Limited assurance

Attach the statement

Constellation CY 2022 GHG Emissions and Air Emissions Intensity Assurance Statement.pdf

Page/section reference

Page 2 - Fuel-and-energy-related activities - CNE electricity sale and Fuel and energy related activities - utility delivered electricity (totals have been summed for entry into CDP)

Relevant standard

ISO14064-3

Proportion of reported emissions verified (%)

100

Scope 3 category

Scope 3: Business travel

Verification or assurance cycle in place

Annual process

Status in the current reporting year

Complete

Type of verification or assurance

Limited assurance

Attach the statement

Constellation CY 2022 GHG Emissions and Air Emissions Intensity Assurance Statement.pdf

Page/section reference

Page 2

Relevant standard

ISO14064-3

Proportion of reported emissions verified (%)

100

Scope 3 category

Scope 3: Upstream leased assets

Verification or assurance cycle in place

Annual process

Status in the current reporting year

Complete

Type of verification or assurance

Limited assurance

Attach the statement

Constellation CY 2022 GHG Emissions and Air Emissions Intensity Assurance Statement.pdf

Page/section reference

Page 2

Relevant standard

ISO14064-3

Proportion of reported emissions verified (%)

100

Scope 3 category

Scope 3: Use of sold products

Verification or assurance cycle in place

Annual process

Status in the current reporting year

Complete

Type of verification or assurance

Limited assurance

Attach the statement

Constellation CY 2022 GHG Emissions and Air Emissions Intensity Assurance Statement.pdf

Page/section reference

Page 2

Relevant standard

ISO14064-3

Proportion of reported emissions verified (%)

100

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?

Yes

C10.2a

(C10.2a) Which data points within your CDP disclosure have been verified, and which verification standards were used?

Disclosure module verification relates to	Data verified	Verification standard	Please explain
SC. Supply chain module	Other, please specify Supplier Specific Electric Generation Emissions Intensity Rates	ISAE 3000 and ISAE 3410, Industry Best Practices, Constellation New Energy Supplier Specific Emissions, Factor Process Document, Revision 7 (July 2023); WRI GHG Protocol Scope 2 Guidance, State Renewable Portfolio Standard Requirements	Verification of our retail electric company Constellation New Energy's supplier specific electricity emission factors (lbs CO2/MWh) by state (based on contractual supply) in support of their market-based Scope 2 reporting

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.

California CaT - ETS
Massachusetts state ETS
RGGI - ETS
Other ETS, please specify
Canada – Carbon Competitiveness Incentive Regulation

C11.1b

(C11.1b) Complete the following table for each of the emissions trading schemes you are regulated by.

California CaT - ETS

% of Scope 1 emissions covered by the ETS

0

% of Scope 2 emissions covered by the ETS

0

Period start date

January 1, 2022

Period end date

December 31, 2022

Allowances allocated

0

Allowances purchased

0

Verified Scope 1 emissions in metric tons CO2e

0

Verified Scope 2 emissions in metric tons CO2e

0

Details of ownership

Other, please specify

See comment

Comment

Constellation does not have any power generation Scope 1 emissions in California, but under California regulations we are responsible for the emissions associated with the unspecified power we import into the state to serve load

Massachusetts state ETS

% of Scope 1 emissions covered by the ETS

8.48

% of Scope 2 emissions covered by the ETS

0

Period start date

January 1, 2022

Period end date

December 31, 2022

Allowances allocated

0

Allowances purchased

772,604

Verified Scope 1 emissions in metric tons CO2e

772,604

Verified Scope 2 emissions in metric tons CO2e

0

Details of ownership

Facilities we own and operate

Comment

Covers fossil generation we own in Massachusetts

RGGI - ETS

% of Scope 1 emissions covered by the ETS

11.78

% of Scope 2 emissions covered by the ETS

0

Period start date

January 1, 2022

Period end date

December 31, 2022

Allowances allocated

0

Allowances purchased

1,072,984

Verified Scope 1 emissions in metric tons CO2e

1,072,984

Verified Scope 2 emissions in metric tons CO2e

0

Details of ownership

Facilities we own and operate

Comment

Covers generation we own in in the participating states for fossil fuel-fired power plants sized 25 megawatts or greater

Other ETS, please specify

% of Scope 1 emissions covered by the ETS

4.07

% of Scope 2 emissions covered by the ETS

0

Period start date

January 1, 2022

Period end date

December 31, 2022

Allowances allocated

220,534

Allowances purchased

149,895

Verified Scope 1 emissions in metric tons CO2e

370,439

Verified Scope 2 emissions in metric tons CO2e

0

Details of ownership

Facilities we own and operate

Comment

Covers our fossil generation plant in Grand Prairie, Alberta.

C11.1d

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

Constellation supports and advocates for more meaningful prices on carbon emissions. For our own emitting facilities, Constellation operates in compliance with those regulations where they exist and apply to our facilities. The RGGI program covers fossil fuel electricity generation facilities larger than 25 MW in participating states (larger than 15 MW in NY). RGGI requires that we surrender allowances (1 allowance permits 1 short ton of emissions) equal to our facilities' CO2 emissions. Constellation purchases allowances based on estimated emissions from our generation planning process and carries forward any additional allowances that are not needed for meeting actual obligations, which are determined by the actual year end emissions resulting from each plant's operation. We purchase allowances to meet our compliance needs in the auctions or through the market as needed to meet the regulatory compliance deadlines. The overall effect of RGGI on Constellation is positive since our generation fleet is largely emissions-free and therefore, RGGI provides market recognition for our generation business in the RGGI region.

The Massachusetts Limits on Emissions from Electricity Generators cap-and-trade program functions similarly to RGGI. CO2 emissions from Constellation's fossil generating units located in MA are subject to an emissions budget. Thus, we must purchase and surrender emissions allowances equal to the CO2 emissions of these generating units.

C11.2

(C11.2) Has your organization canceled any project-based carbon credits within the reporting year?

No

C11.3

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

Yes

C11.3a

(C11.3a) Provide details of how your organization uses an internal price on carbon.

Type of internal carbon price

Other, please specify

Market forward prices for existing carbon markets

How the price is determined

Alignment with the price of allowances under an Emissions Trading Scheme

Objective(s) for implementing this internal carbon price

Navigate GHG regulations

Scope(s) covered

Scope 1

Pricing approach used – spatial variance

Differentiated

Pricing approach used – temporal variance

Evolutionary

Indicate how you expect the price to change over time

In regions with existing GHG policies, Constellation uses market forward prices for emissions allowances. In 2022, the Regional Greenhouse Gas Initiative (RGGI) carbon market prices ranged between $12.99 and $13.90 per ton. In the California Cap and Trade program prices ranged between $26.80 and $30.85 per ton in 2022. Both prices have more than doubled since 2015. Based on this historical context, Constellation expects that the price of carbon will continue to increase.

Actual price(s) used – minimum (currency as specified in C0.4 per metric ton CO2e)

0

Actual price(s) used – maximum (currency as specified in C0.4 per metric ton CO2e)

0

Business decision-making processes this internal carbon price is applied to

Capital expenditure
Operations
Product and R&D
Risk management
Opportunity management
Public policy engagement

Mandatory enforcement of this internal carbon price within these business decision-making processes

No

Explain how this internal carbon price has contributed to the implementation of your organization's climate commitments and/or climate transition plan

In markets where a carbon price is effective in an existing program, Constellation uses a carbon price that is based on market forwards in its analysis to guide our business decisions for our existing electric generation projects and to help guide the implementation of our strategic plan.

Constellation generates more than twice as much carbon-free electricity as any other company in the U.S. Regarding internal decision-making, we conduct near- and long-term modelling to inform our electric market positions, generation portfolio management, generation investment, and our strategic plan. Cross functional teams across the organization identify and regularly review key market drivers, including regulatory or policy influences such as a carbon price, and use them in our analyses to capture a range of plausible future outcomes and develop our overall generation strategy. Regulation of carbon is one of many considerations in our planning analyses and the impacts of carbon are weighed with other issues that may affect market conditions.

Note: we have put $0 in for the actual price minimum and maximum, as our internal economic modelling is considered proprietary.

C12. Engagement

C12.1

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

Yes, our suppliers

Yes, our customers/clients

C12.1a

(C12.1a) Provide details of your climate-related supplier engagement strategy.

Type of engagement

Other, please specify

See Comment field

Details of engagement

Other, please specify

See Comment field

% of suppliers by number

100

% total procurement spend (direct and indirect)

100

% of supplier-related Scope 3 emissions as reported in C6.5

0.01

Rationale for the coverage of your engagement

See Comment field

Impact of engagement, including measures of success

See Comment field

Comment

At Constellation, we embed resiliency, reliability and equity into our supply chain as part of our purpose to accelerate the transition to a carbon-free future. We incorporate ESG criteria into our supplier assessments and we integrate sustainability and resiliency through relationships with key suppliers that provide materials and services.

We do not actively engage suppliers on climate issues unless there is a specific reason for doing so. Additionally, suppliers are expected to adhere to the Constellation Supplier Code of Conduct, which includes the Environmental language below:
“Constellation’s commitment to the environment is integral to meeting customers’ expectations and reducing Constellation’s environmental impact on future generations, while also ensuring that we meet or exceed all environmental laws and regulations. Constellation intends to be the leading American clean energy company. We expect Suppliers to share these goals by identifying and implementing opportunities to reduce or eliminate energy usage, greenhouse gas emissions, waste and pollution at its source, and continually improving efficiency of resource and materials use.”

Please note that the 100% reported in the “% of suppliers by number” field, and the associated “% total procurement spend…” field, refer to the percentage suppliers who are expected to adhere to our Supplier Code of Conduct.

C12.1b

(C12.1b) Give details of your climate-related engagement strategy with your customers.

Type of engagement & Details of engagement

Education/information sharing

Run an engagement campaign to education customers about your climate change performance and strategy

% of customers by number

100

% of customer - related Scope 3 emissions as reported in C6.5

99.5

Please explain the rationale for selecting this group of customers and scope of engagement

Constellation New Energy began to provide Supplier specific emissions factors and enhanced communications around its voluntary renewable energy credit (REC) and Emissions Free Energy Credits (EFECs) with its Commercial and Industrial (C&I) customers in response to increased interest in GHG emissions reduction and renewable energy commitments associated with the Paris Agreement. The engagement was first extended to all C&I customers, making available third-party verified suppler specific emission factors to assist with Scope 2 accounting, as well as assistance for customers in understanding the new WRI Scope 2 reporting and how to incorporate our new clean energy products such as EFECs (nuclear supply) and CORe (easy access renewable packaged PPAs) that can help them to reach their climate change goals. This program highlights Constellation’s low carbon generation portfolio and shows our customers how our product can assist in their efforts to reduce GHG emissions. These efforts relate directly to Upstream Energy related emissions associated with the purchased power needed to fulfill our customer load commitments. Upstream Energy from Purchased Electric from our Constellation retail organization related Scope 3 emissions accounts for 26% of the emissions reported in C6.5.

Impact of engagement, including measures of success

Constellation connects customers with clean energy through RECs and EFECs. New Mix® wind RECs are sourced from renewable generating facilities within the United States. Each REC represents the positive environmental attributes of one MWh of electricity generated by a renewable power plant and is retired on behalf of customers wishing to promote their environmental commitment. The purchase of RECs supports the operation and development of facilities that generate clean, renewable energy. EFECs are created to represent the emission-free attributes of generating sources (such as nuclear) as defined by PJM, that do not emit greenhouse gases from combustion. When customers purchase a carbon-free electricity plan from Constellation, electricity they purchase is matched with EFECs from those energy sources providing carbon-free electricity. Constellation retired 9 million RECs and 22 million nuclear Emission-Free Energy Certificates (EFECs) for customers in 2022.

C12.2

(C12.2) Do your suppliers have to meet climate-related requirements as part of your organization's purchasing process?

Yes, suppliers have to meet climate-related requirements, but they are not included in our supplier contracts

C12.2a

(C12.2a) Provide details of the climate-related requirements that suppliers have to meet as part of your organization's purchasing process and the compliance mechanisms in place.

Climate-related requirement

Other, please specify

See Description field

Description of this climate related requirement

There are no specific climate change requirements in our contract terms and conditions (other than meeting regulatory requirements/environmental compliance laws), hence why: we are entering 0% in the "% suppliers by procurement spend…" fields for this question. However, there are environmental questions in the bid template on our SMART sourcing tool that do ask specifically about climate change impacts as shown below but this would only apply to contracts awarded through a RFP process:

• Tell us about the greenhouse gas emissions (GHG) at the facility/division/corporation involved in completing this scope of work
• Do you currently work with your Tier 1 and Tier 2 suppliers on their environmental performance and the impact of climate change on their business?

% suppliers by procurement spend that have to comply with this climate-related requirement

0

% suppliers by procurement spend in compliance with this climate-related requirement

0

Mechanisms for monitoring compliance with this climate-related requirement

No mechanism for monitoring compliance

Response to supplier non-compliance with this climate-related requirement

Other, please specify

We don’t have a mechanism in place for monitoring compliance, but if we’re made aware of supplier-related environmental incidents, necessary actions can be taken such as placing a supplier on a performance improvement plan or contract termination.

C12.3

(C12.3) Does your organization engage in activities that could either directly or indirectly influence policy, law, or regulation that may impact the climate?

Row 1

External engagement activities that could directly or indirectly influence policy, law, or regulation that may impact the climate

Yes, we engage directly with policy makers
Yes, our membership of/engagement with trade associations could influence policy, law, or regulation that may impact the climate
Yes, we fund organizations or individuals whose activities could influence policy, law, or regulation that may impact the climate

Does your organization have a public commitment or position statement to conduct your engagement activities in line with the goals of the Paris Agreement?

No, and we do not plan to have one in the next two years

Describe the process(es) your organization has in place to ensure that your external engagement activities are consistent with your climate commitments and/or climate transition plan

Our Public Policy and Sustainability organizations work collaboratively to ensure that our public advocacy is consistent with our climate commitments.

We do not currently have a policy position that is strictly consistent with the Paris Agreement However, our policy priorities include support for clean, carbon-free energy generation—including the preservation and expansion of nuclear power—hydrogen development, hourly carbon-free energy products, accurate GHG emissions accounting and competitive retail and wholesale markets that incentivize the retention and deployment of clean, carbon-free energy resources. We also support strict federal controls on air pollutants and carbon pollution from power plants and encourage the U.S. Environmental Protection Agency (EPA) to adopt rigorous standards.

C12.3a

(C12.3a) On what policy, law, or regulation that may impact the climate has your organization been engaging directly with policy makers in the reporting year?

Specify the policy, law, or regulation on which your organization is engaging with policy makers

Constellation believes that a federal policy that places a value on carbon emissions would be the most efficient solution. Incorporating the cost of carbon emissions into the generation unit dispatch would be the most fair and cost efficient approach. This would allow for the most cost-efficient solutions to be selected before more expensive carbon abatement options. Until such time as markets reflect the cost of carbon, Constellation supports state programs, such as the Clean Energy Standard in New York and the Zero Emissions Standard in Illinois, that compensate nuclear units for their environmental attributes, similar to how renewables are compensated for their zero emissions attributes. Further, we support policies and programs that ensure the continued operation of the nuclear fleet, such as production tax credit for existing nuclear units that was included in the Inflation Reduction Act.

Category of policy, law, or regulation that may impact the climate

Carbon pricing, taxes, and subsidies

Focus area of policy, law, or regulation that may impact the climate

Carbon taxes

Emissions trading schemes

Policy, law, or regulation geographic coverage

National

Country/area/region the policy, law, or regulation applies to

United States of America

Your organization's position on the policy, law, or regulation

Support with no exceptions

Description of engagement with policy makers

Direct communication with legislators and regulators, as well as broadly through our investor and stakeholder materials such as our Corporate Sustainability Report and other sustainability disclosures.

Details of exceptions (if applicable) and your organization's proposed alternative approach to the policy, law or regulation

Have you evaluated whether your organization's engagement on this policy, law, or regulation is aligned with the goals of the Paris Agreement?

No, we have not evaluated

Specify the policy, law, or regulation on which your organization is engaging with policy makers

Addressing the climate crisis is one of the single greatest things we can do to ensure that our communities remain strong, safe and prosperous. Volatile weather is fast becoming the norm in our communities and the physical stress and damage to energy infrastructure is something one can already see and measure. Policy and market designs must recognize the value of zero- carbon generation. Solutions must be affordable for all customers. We structure innovative products and services to allow help our customers minimize their carbon footprint.

Category of policy, law, or regulation that may impact the climate

Low-carbon products and services

Focus area of policy, law, or regulation that may impact the climate

Alternative fuels
Energy attribute certificate systems
Green electricity tariffs/renewable energy PPAs
Low-carbon innovation and R&D
Technology requirements

Policy, law, or regulation geographic coverage

National

Country/area/region the policy, law, or regulation applies to

United States of America

Your organization's position on the policy, law, or regulation

Support with minor exceptions

Description of engagement with policy makers

Direct communication with legislators and regulators, as well as broadly through our investor and stakeholder materials such as our Corporate Sustainability Report and other sustainability disclosures.

Details of exceptions (if applicable) and your organization's proposed alternative approach to the policy, law or regulation

Have you evaluated whether your organization's engagement on this policy, law, or regulation is aligned with the goals of the Paris Agreement?

No, we have not evaluated

Specify the policy, law, or regulation on which your organization is engaging with policy makers

Families and businesses require a power system that reliably delivers 24/7 electricity. Wholesale power markets need to evolve to select resources based on their true cost, including their ability to withstand fuel supply disruptions. Enhancing the resilience of generating resources against severe weather and other threats is essential. Constellation supports the development of industry and regulatory guidance on best practices for resilience-based design standards and planning criteria. We are working with stakeholders and grid operators to enhance market constructs that compensate generators for reliably delivering energy during periods of system stress.

Category of policy, law, or regulation that may impact the climate

Climate change adaptation

Focus area of policy, law, or regulation that may impact the climate

Other, please specify

Ensuring resilience and reliability of power generation infrastructure

Policy, law, or regulation geographic coverage

National

Country/area/region the policy, law, or regulation applies to

United States of America

Your organization's position on the policy, law, or regulation

Support with minor exceptions

Description of engagement with policy makers

Direct communication with legislators and regulators, as well as broadly through our investor and stakeholder materials such as our Corporate Sustainability Report and other sustainability disclosures.

Details of exceptions (if applicable) and your organization's proposed alternative approach to the policy, law or regulation

Have you evaluated whether your organization's engagement on this policy, law, or regulation is aligned with the goals of the Paris Agreement?

No, we have not evaluated

C12.3b

(C12.3b) Provide details of the trade associations your organization is a member of, or engages with, which are likely to take a position on any policy, law or regulation that may impact the climate.

Trade association

Other, please specify

Nuclear Energy Institute

Is your organization's position on climate change policy consistent with theirs?

Consistent

Has your organization attempted to influence their position in the reporting year?

No, we did not attempt to influence their position

Describe how your organization's position is consistent with or differs from the trade association's position, and any actions taken to influence their position

Reducing carbon dioxide emissions, while fostering sustainable development, is a major global challenge of the 21st century. Nuclear energy is a vital source of electricity that can meet the nation's growing energy needs with a secure, domestic energy supply that also protects our air quality.

The aim of Constellation's funding is to support NEI's mission to promote the beneficial uses of nuclear energy.

Please note: We entered 0 in the "Funding figure …" field to satisfy CDP's disclosure requirement as this information is considered proprietary and confidential.

Funding figure your organization provided to this trade association in the reporting year (currency as selected in C0.4)

0

Describe the aim of your organization's funding

Have you evaluated whether your organization's engagement with this trade association is aligned with the goals of the Paris Agreement?

Yes, we have evaluated, and it is aligned

C12.3c

(C12.3c) Provide details of the funding you provided to other organizations or individuals in the reporting year whose activities could influence policy, law, or regulation that may impact the climate.

Type of organization or individual

Non-Governmental Organization (NGO) or charitable organization

State the organization or individual to which you provided funding

Center for Climate and Energy Solutions

Funding figure your organization provided to this organization or individual in the reporting year (currency as selected in C0.4)

0

Describe the aim of this funding and how it could influence policy, law or regulation that may impact the climate

The Center for Climate and Energy Solutions works to secure a safe and stable climate by accelerating the global transition to net-zero greenhouse gas emissions and a thriving, just, and resilient economy.

Please note: We entered 0 in the "Funding figure …" field to satisfy CDP's disclosure requirement as this information is considered proprietary and confidential.

Have you evaluated whether this funding is aligned with the goals of the Paris Agreement?

No, we have not evaluated

Type of organization or individual

Non-Governmental Organization (NGO) or charitable organization

State the organization or individual to which you provided funding

Conservative Climate Foundation

Funding figure your organization provided to this organization or individual in the reporting year (currency as selected in C0.4)

0

Describe the aim of this funding and how it could influence policy, law or regulation that may impact the climate

The Conservative Climate Foundation's mission is to engage and inform the public and policymakers about reducing global and domestic emissions with common sense, economic, and environmentally sustainable strategies and solutions based on conservative principles.

Please note: We entered 0 in the "Funding figure …" field to satisfy CDP's disclosure requirement as this information is considered proprietary and confidential.

Have you evaluated whether this funding is aligned with the goals of the Paris Agreement?

No, we have not evaluated

Type of organization or individual

Non-Governmental Organization (NGO) or charitable organization

State the organization or individual to which you provided funding

Climate Solutions Foundation, Inc

Funding figure your organization provided to this organization or individual in the reporting year (currency as selected in C0.4)

0

Describe the aim of this funding and how it could influence policy, law or regulation that may impact the climate

Their mission is to bring together ideologically diverse Members of Congress and their staff, global leaders, and corporate and trade executives to discuss climate science, economics, and policy.

Please note: We entered 0 in the “Funding figure …” field to satisfy CDP’s disclosure requirement as this information is considered proprietary and confidential.

Have you evaluated whether this funding is aligned with the goals of the Paris Agreement?

No, we have not evaluated

Type of organization or individual

Non-Governmental Organization (NGO) or charitable organization

State the organization or individual to which you provided funding

Americans for Carbon Dividends

Funding figure your organization provided to this organization or individual in the reporting year (currency as selected in C0.4)

0

Describe the aim of this funding and how it could influence policy, law or regulation that may impact the climate

Americans for Carbon Dividends (AFCD) is a national education and advocacy campaign that promotes a bipartisan climate solution where all sides win. As the most popular, equitable and politically viable climate solution, carbon dividends offers the best hope for a much-needed bipartisan climate breakthrough. It is already supported by the broadest climate coalition in U.S. history.

Please note: We entered 0 in the “Funding figure …” field to satisfy CDP’s disclosure requirement as this information is considered proprietary and confidential.

Have you evaluated whether this funding is aligned with the goals of the Paris Agreement?

No, we have not evaluated

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 mainstream reports

Status

Complete

Attach the document

2022 Constellation 10-K - Final.pdf

Page/Section reference

Environmental Matters and Regulation: Page 23-27

Risk Factors: Page 29-42

Content elements

Governance
Strategy
Risks & opportunities

Comment

Publication

In voluntary sustainability report

Status

Complete

Attach the document

Constellation-2023-Sustainability-Report.pdf

Page/Section reference

Powering America's Clean, Carbon-Free Energy Future: Page 7-21

Upholding Strong Governance Principles > Mitigating Risk > Climate Change Risk and Opportunity: Page 50

ESG Data Index & Factsheet: Page 5-6

Content elements

Governance
Strategy
Risks & opportunities
Emissions figures
Emission targets
Other metrics

Comment

Please see the “Powering America’s Clean, Carbon-Free Energy Future” chapter of our 2023 Corporate Sustainability Report for details on our clean energy and climate change strategy. We also disclose detailed GHG performance data in the accompanying “ESG Data Index and Factsheet” which can be downloaded at https://www.constellationenergy.com/content/dam/constellationenergy/pdfs/Constellation-2023-ESG-Data-Index-Factsheet.pdf

C12.5

(C12.5) Indicate the collaborative frameworks, initiatives and/or commitments related to environmental issues for which you are a signatory/member.

	Environmental collaborative framework, initiative and/or commitment	Describe your organization’s role within each framework, initiative and/or commitment
Row 1	Other, please specify See the “Describe your organization’s role…” field for details	Our relationships with external organizations and initiatives are essential for advancing the adoption of clean energy technology and expanding the development of innovative research. Constellation is a member of the United Nations Global Compact (UNGC) on 24/7 Carbon-free Energy. We participate in the CEO Climate Dialogue, which comprises corporations and NGOs that support a meaningful market-based approach to GHG emission reductions across the economy. Constellation also collaborates with leading clean energy research institutions across the U.S., including MIT Energy Initiative, Argonne National Laboratory, the Electrical Power Research Institute (EPRI) and GTI Energy Low Carbon Resource Initiative (LCRI), in addition to funding agencies, including the DOE. Furthermore, Constellation is an organizational member of the Climate Leadership Council, alongside other organizations playing a pivotal role in identifying climate solutions and decarbonizing the economy. We also maintain memberships with and actively participate in trade associations and other organizations to further our sustainability efforts. Our current association memberships include the Nuclear Energy Institute, The Clean Energy Group, Center for Climate and Energy Solutions (C2ES), Energy Strategy Coalition and the Clean Energy Buyers Association. As strong supporters of actions that address the climate crisis, membership in these organizations allows us to advocate and influence industry positions on clean energy and climate policies, as well as share safety best practices. We also actively participate in an advisory capacity for other clean energy-focused

		organizations such as Energy Tag, Center for Resource Solutions, Clean Air Task Force and The Regulatory Assistance Project, among others.

C15. Biodiversity

C15.1

(C15.1) Is there board-level oversight and/or executive management-level responsibility for biodiversity-related issues within your organization?

	Board-level oversight and/or executive management-level responsibility for biodiversity-related issues	Description of oversight and objectives relating to biodiversity
Row 1	Yes, both board-level oversight and executive management-level responsibility	Constellation is committed to protecting and sustaining the environment. We strive to go beyond compliance with the comprehensive environmental statutes and regulatory requirements applicable to our operations. Our Board of Directors oversees the management of environmental matters, including biodiversity impacts, and our executive team, including our CEO and other senior management, is accountable for our environmental compliance and assurance strategy. Protecting and preserving biodiversity is one of our highest environmental priorities. Our Biodiversity Policy describes our commitment and ongoing actions to protect species on land and in water bodies surrounding our operations. Our management of biodiversity is informed through ongoing engagement with stakeholders, including engaging with experts and regulatory agencies, collaborating on research studies, and providing educational opportunities for employees and community members.

C15.2

(C15.2) Has your organization made a public commitment and/or endorsed any initiatives related to biodiversity?

	Indicate whether your organization made a public commitment or endorsed any initiatives related to biodiversity	Biodiversity-related public commitments	Initiatives endorsed
Row 1	Yes, we have made public commitments and publicly endorsed initiatives related to biodiversity	Adoption of the mitigation hierarchy approach Commitment to avoidance of negative impacts on threatened and protected species Other, please specify See Initiatives Endorsed field for details.	Other, please specify Constellation is proud to continue 15 years of collaboration with the Wildlife Habitat Council (WHC) on a variety of biodiversity projects. In addition, 14 Constellation locations are certified through the National Wildlife Federation (NWF).

C15.3

(C15.3) Does your organization assess the impacts and dependencies of its value chain on biodiversity?

Impacts on biodiversity

Indicate whether your organization undertakes this type of assessment

Yes

Value chain stage(s) covered

Direct operations

Tools and methods to assess impacts and/or dependencies on biodiversity

Other, please specify

See “Please explain…” field for details.

Please explain how the tools and methods are implemented and provide an indication of the associated outcome(s)

Across our power-generating footprint, we employ a mitigation hierarchy to avoid, minimize, restore or offset our operational impact on ecosystems. During the development and maintenance of capital projects, we conduct a thorough environmental review to assess potential impacts on birds, bats, and terrestrial species and habitats. When construction or operations may impact certain species and ecosystems, we follow site-specific management plans and obtain all necessary incidental take permits, enabling Constellation to minimize impacts to species when possible or relocate affected species at those sites.

We also take action to improve aquatic ecosystems where we operate hydroelectric and nuclear power plants, where appropriate, by investing in habitat improvement projects, constructing oyster and mussel beds, creating artificial reefs, stabilizing banks, managing fish hatcheries, and developing fish passages. To minimize biodiversity impacts at our Conowingo hydroelectric power plant, which is situated along the Susquehanna River, we monitor oxygen levels below the dams for the health and protection of the river's aquatic life. We also observe the minimum flow requirements of our federal license to maintain healthy water levels in the river and allow for recreational activities during the summer months.

Dependencies on biodiversity

Indicate whether your organization undertakes this type of assessment

No and we don't plan to within the next two years

C15.4

(C15.4) Does your organization have activities located in or near to biodiversity- sensitive areas in the reporting year?

Yes

C15.4a

(C15.4a) Provide details of your organization's activities in the reporting year located in or near to biodiversity -sensitive areas.

Classification of biodiversity -sensitive area

Other biodiversity sensitive area, please specify

Please refer to the “Name of the biodiversity-sensitive area” field.

Country/area

United States of America

Name of the biodiversity-sensitive area

Detailed information on Constellation’s operational sites owned, leased, managed in, or adjacent to, protected areas and areas of high biodiversity value outside protected areas is not currently available. For information on how we actively manage local biodiversity impacts of our operations, please see the Protecting Biodiversity section on pages 25-26 of our 2023 Sustainability Report.

Proximity

Data not available

Briefly describe your organization’s activities in the reporting year located in or near to the selected area

Protecting and preserving biodiversity is one of our highest environmental priorities. Our Biodiversity Policy describes our commitment and ongoing actions to protect species on land and in water bodies surrounding our operations. Our management of biodiversity is informed through ongoing engagement with stakeholders, including engaging with experts and regulatory agencies, collaborating on research studies, and providing educational opportunities for employees and community members.

Across our power-generating footprint, we employ a mitigation hierarchy to avoid, minimize, restore or offset our operational impact on ecosystems. During the development and maintenance of capital projects, we conduct a thorough environmental review to assess potential impacts on birds, bats, and terrestrial species and habitats. When construction or operations may impact certain species and ecosystems, we follow site-specific management plans and obtain all necessary incidental take permits, enabling Constellation to minimize impacts to species when possible or relocate affected species at those sites.

Indicate whether any of your organization’s activities located in or near to the selected area could negatively affect biodiversity

Yes, but mitigation measures have been implemented

Mitigation measures implemented within the selected area

Other, please specify

Please see the “Explain how your organization’s activities..” field for details

Explain how your organization’s activities located in or near to the selected area could negatively affect biodiversity, how this was assessed, and describe any mitigation measures implemented

Protecting and preserving biodiversity is one of our highest environmental priorities. Our Biodiversity Policy describes our commitment and ongoing actions to protect species on land and in water bodies surrounding our operations. Our management of biodiversity is informed through ongoing engagement with stakeholders, including engaging with experts and regulatory agencies, collaborating on research studies, and providing educational opportunities for employees and community members.

Across our power-generating footprint, we employ a mitigation hierarchy to avoid, minimize, restore or offset our operational impact on ecosystems. During the development and maintenance of capital projects, we conduct a thorough environmental review to assess potential impacts on birds, bats, and terrestrial species and habitats. When construction or operations may impact certain species and ecosystems, we follow site-specific management plans and obtain all necessary incidental take permits, enabling Constellation to minimize impacts to species when possible or relocate affected species at those sites.

We also take action to improve aquatic ecosystems where we operate hydroelectric projects by investing in habitat improvement projects, constructing oyster and mussel beds, creating artificial reefs, stabilizing banks, managing fish hatcheries, and developing fish passages. To minimize biodiversity impacts at our Conowingo hydroelectric power plant, which is situated along the Susquehanna River, we monitor oxygen levels below the dams for the health and protection of the river’s aquatic life.

Now in our second year of operation, Constellation is proud to continue 15 years of collaboration with the Wildlife Habitat Council (WHC) on a variety of biodiversity projects. We have 14 program certifications, covering approximately 140 individual projects that include pollinator gardens, habitat restoration for a variety of species, fish and water management projects, bat and insect houses, special events and more. WHC also provides a guidance e-tool and objective oversight for creating and maintaining these high-quality wildlife habitats and implementing environmental education programs. In addition, 14 Constellation locations are certified through the National Wildlife Federation (NWF).

C15.5

(C15.5) What actions has your organization taken in the reporting year to progress your biodiversity-related commitments?

	Have you taken any actions in the reporting period to progress your biodiversity-related commitments?	Type of action taken to progress biodiversity- related commitments
Row 1	Yes, we are taking actions to progress our biodiversity-related commitments	Land/water protection Land/water management Species management Education & awareness

C15.6

(C15.6) Does your organization use biodiversity indicators to monitor performance across its activities?

	Does your organization use indicators to monitor biodiversity performance?	Indicators used to monitor biodiversity performance
Row 1	Yes, we use indicators	Other, please specify we have our own customized set of biodiversity performance indicators

C15.7

(C15.7) Have you published information about your organization's response to biodiversity-related issues for this reporting year in places other than in your CDP response? If so, please attach the publication(s).

Report type	Content elements	Attach the document and indicate where in the document the relevant biodiversity information is located
In voluntary sustainability report or other voluntary communications	Content of biodiversity-related policies or commitments Governance Impacts on biodiversity Biodiversity strategy	Please see the "Protecting Biodiversity" section of our 2023 Constellation Sustainability Report 1

[1]Constellation-2023-Sustainability-Report.pdf

C16. 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.

C16.1

(C16.1) Provide details for the person that has signed off (approved) your CDP climate change response.

	Job title	Corresponding job category
Row 1	Chief Strategy Officer	Other C-Suite Officer