Welcome to your CDP Water Security Questionnaire 2023

W0. Introduction

W0.1

(W0.1) Give a general description of and introduction to your organization.

Constellation Energy Corporation (Constellation) (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 that produces enough energy to power the equivalent of 15 million homes through 32,355 megawatts (MW) of capacity and an annual output that is almost 90 percent carbon-free. 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. Our sustainable business strategy is built on four key strategic principles: powering America's clean, carbon-free energy future, expanding America's top-producing fleet of clean energy centers, uplifting and strengthening our communities, and providing energy and sustainability solutions for customers.

W-EU0.1a

(W-EU0.1a) Which activities in the electric utilities sector does your organization engage in?

Electricity generation

W-EU0.1b

(W-EU0.1b) For your electricity generation activities, provide details of your nameplate capacity and the generation for each technology.

	Nameplate capacity (MW)	% of total nameplate capacity	Gross electricity generation (GWh)
Coal – hard	0	0	0
Lignite	0	0	0
Oil	1,128	3.6	65
Gas	6,358	20.29	21,482
Biomass	0	0	0
Waste (non-biomass)	0	0	0
Nuclear	20,895	66.7	178,582
Fossil-fuel plants fitted with carbon capture and storage	0	0	0

Geothermal	0	0	0
Hydropower	572	1.83	1,757
Wind	752	2.4	2,173
Solar	268	0.86	602
Marine	0	0	0
Other renewable	0	0	0
Other non-renewable	1,355	4.33	594
Total	31,328	100	205,254

W0.2

(W0.2) State the start and end date of the year for which you are reporting data.

	Start date	End date
Reporting year	January 1, 2022	December 31, 2022

W0.3

(W0.3) Select the countries/areas in which you operate.

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

W0.4

(W0.4) Select the currency used for all financial information disclosed throughout your response.

USD

W0.5

(W0.5) Select the option that best describes the reporting boundary for companies, entities, or groups for which water impacts on your business are being reported.

Companies, entities or groups over which operational control is exercised

W0.6

(W0.6) Within this boundary, are there any geographies, facilities, water aspects, or other exclusions from your disclosure?

No

W0.7

(W0.7) 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

W1. Current state

W1.1

(W1.1) Rate the importance (current and future) of water quality and water quantity to the success of your business.

	Direct use importance rating	Indirect use importance rating	Please explain

Sufficient amounts of good quality freshwater available for use	Important	Neutral	Access to affordable, reliable and adequate water supplies is imperative to the success of our business. Direct water access supports our hydroelectric and nuclear facilities and our fossil fuel steam power plants. While water quality is a consideration, access to sufficient volume is more of a concern. Water supply has not been a significant challenge to date; however, we continue to assess our risks, evaluate our impacts and closely monitor our watersheds on an ongoing basis. We engage the communities in our watershed through environmental education and sustainability initiatives. Like the importance of direct water use, the importance of indirect water use is more dependent on quantity than quality; therefore, we rate it as neutral. Our largest upstream dependence is on fuels and purchased power for resale. Our products have de minimis requirements for water at the end point of use. Constellation uses water primarily as a cooling medium in our nuclear and natural gas power plants, and condenses steam after it passes through steam-turbine generators. Constellation uses closed-cycle cooling systems for a portion of our generating capacity. Closed cycle cooling systems use dedicated towers or cooling ponds to help conserve water resources by reusing the water, minimizing freshwater intake, reducing wastewater discharge(s), and improving water quality. These systems withdraw and discharge less water than open-cycle cooling systems, and in 2022, our nuclear assets recycled more than seven million megaliters of water through these systems. Our remaining fleet uses open-cycle cooling systems where water is withdrawn from a water body and then returned directly to its source. In open-cycle cooling systems, a small percentage of water is lost to evaporation. Where dry condenser cooling technologies are used, ambient air cools and condenses steam, requiring little to no water.
Sufficient amounts of recycled, brackish and/or produced water available for use	Important	Neutral	Our Limerick nuclear plant collaborated with regulators and environmental stakeholders to develop a flow augmentation alternative that uses upriver mine water to supplement flow in the Schuylkill River. Our nuclear and fossil plants located in saline watersheds depend directly on brackish water for cooling.. Adequate, affordable and reliable water supplies to support our indirect operations have not been a challenge to date; however, we continue to

			assess our risks, evaluate our impacts and closely monitor our watersheds on an ongoing basis. We engage the communities in our watersheds' improvement, environmental education and sustainability initiatives. Like direct importance, indirect importance is more dependent on quantity than quality; therefore, we rate it as neutral. Our largest upstream dependence is on fuels and purchased power for resale. Our products have de minimis requirements for water at the end point of use.

W1.2

(W1.2) Across all your operations, what proportion of the following water aspects are regularly measured and monitored?

	% of sites/facilities/operations	Frequency of measurement	Method of measurement	Please explain
Water withdrawals – total volumes	100%	Unknown	At our nuclear plants, we estimate all water inflows and outflows by source (including dedicated cooling ponds) in accordance with permit and/or internal performance monitoring requirements and methodology specifications for both quantitative and qualitative aspects of water use (e.g. sensor or meter type, calibration frequency, testing). At our fossil plants, we measure water withdrawals by estimating flows through the use of pump run times and manufacturer pump curves.	The 100% cited here is with the exception of water recycled/reused and WASH services at our fossil plants.
Water withdrawals – volumes by source	100%	Unknown	At our nuclear plants, we estimate all water inflows and outflows by source (including dedicated cooling ponds) in accordance with permit and/or internal performance	The 100% cited here is with the exception of water recycled/reused and WASH services at our fossil plants.

			monitoring requirements and methodology specifications for both quantitative and qualitative aspects of water use (e.g. sensor or meter type, calibration frequency, testing). At our fossil plants, we measure water withdrawals by estimating flows through the use of pump run times and manufacturer pump curves.	
Water withdrawals quality	100%	Unknown	At our nuclear plants, we monitor water quality of withdrawals as necessary to meet the performance requirements of our systems in accordance with permit and/or internal performance monitoring requirements and methodology specifications (e.g. sensor or meter type, calibration frequency, testing). At our fossil plants, we calculate water withdrawals by estimating flows through the use of pump run times and manufacturer pump curves.	The 100% cited here is with the exception of water recycled/reused and WASH services at our fossil plants.
Water discharges – total volumes	100%	Unknown	At our nuclear plants, we estimate all water inflows and outflows by source (including dedicated cooling ponds) in accordance with permit and/or internal performance monitoring requirements and methodology specifications of our systems (e.g. sensor or meter type, calibration frequency, testing). At our fossil plants, we calculate water discharges by estimating flows through the	The 100% cited here is with the exception of water recycled/reused and WASH services at our fossil plants.

			use of pump run times and manufacturer pump curves.	
Water discharges – volumes by destination	100%	Unknown	At our nuclear plants, we estimate all water inflows and outflows by source (included dedicated cooling ponds) by source and destination water bodies in accordance with permit and/or internal performance monitoring requirements and methodology specifications (e.g. sensor or meter type, calibration frequency, testing). At our fossil plants, we calculate water discharges by estimating flows through the use of pump run times and manufacturer pump curves.	The 100% cited here is with the exception of water recycled/reused and WASH services at our fossil plants.
Water discharges – volumes by treatment method	100%	Unknown	At our nuclear plants, we monitor discharges by treatment and/or use methods in accordance with permit and/or internal performance monitoring requirements and methodology specifications (e.g. sensor or meter type, calibration frequency, testing).	The 100% cited here is with the exception of water recycled/reused and WASH services at our fossil plants.
Water discharge quality – by standard effluent parameters	100%	Unknown	At our nuclear plants, we monitor and report standard effluent parameters including chemical constituents and temperature in accordance with our various operating permits and methodology specifications (e.g. sensor or meter type, calibration frequency, testing) defined by engineering department of individual operating	In our fossil power stations, testing for nitrates, phosphates, pesticides and priority pollutants are tested in the application of a NPDES permit. If any of the parameters come back higher than expected or higher than a regulated limit, the permit may require more frequent testing of that parameter.

			companies or sites. At our fossil plants, we calculate water discharges by estimating flows through the use of pump run times and manufacturer pump curves.	The 100% cited here is with the exception of water recycled/reused and WASH services at our fossil plants.
Water discharge quality – emissions to water (nitrates, phosphates, pesticides, and/or other priority substances)	Not monitored			In our fossil power plants, we test for all of the parameters listed in a renewal application for a NPDES permit. The priority pollutants are usually tested once per year in some permits. Other permits only require this to be tested on the renewal application.
Water discharge quality – temperature	100%	Unknown	At our nuclear plants, we monitor and report standard effluent parameters including chemical constituents and temperature in accordance with our various operating permits and methodology specifications (e.g. sensor or meter type, calibration frequency, testing) defined by engineering department of individual operating companies or sites. At our fossil plants, we calculate water discharges by estimating flows through the use of pump run times and manufacturer pump curves.	
Water consumption – total volume	100%	Unknown	At our nuclear plants, we estimate and report total water consumption (withdrawal minus discharge) for all of our water use in accordance with permit and/or internal performance monitoring requirements and	

			methodology specifications (e.g. sensor or meter type, calibration frequency, testing). At our fossil plants, we calculate water discharges by estimating flows through the use of pump run times and manufacturer pump curves.	
Water recycled/reused	100%	Unknown	At our nuclear plants, we estimate and report total water consumption (withdrawal minus discharge) for all of our water use in accordance with permit and/or internal performance monitoring requirements and methodology specifications (e.g. sensor or meter type, calibration frequency, testing). At our fossil plants, we calculate water discharges by estimating flows through the use of pump run times and manufacturer pump curves.	
The provision of fully-functioning, safely managed WASH services to all workers	100%	Unknown	We provide WASH services in facilities. We meet all drinking and sanitary water needs of our facilities.	

W-EU1.2a

(W-EU1.2a) For your hydropower operations, what proportion of the following water aspects are regularly measured and monitored?

	% of sites/facilities/operations measured and monitored	Please explain

Fulfilment of downstream environmental flows	100%	We fulfill downstream environmental flow commitments in accordance with company policy and/or permit requirements that establish minimum flow requirements and, monitoring frequency and methodology specifications (e.g. sensor or meter type, calibration frequency, testing).
Sediment loading	100%	We monitor and report standard effluent parameters including sediment parameters in accordance with company policy and/or our various operating permits and methodology specifications (e.g. sensor or meter type, calibration frequency, testing) defined by engineering department of individual operating companies or sites.
Other, please specify	Not relevant	Not applicable

W1.2b

(W1.2b) What are the total volumes of water withdrawn, discharged, and consumed across all your operations, how do they compare to the previous reporting year, and how are they forecasted to change?

	Volume (megaliters/year)	Comparison with previous reporting year	Primary reason for comparison with previous reporting year	Five-year forecast	Primary reason for forecast	Please explain
Total withdrawals	46,682,499.9	Lower	Increase/decrease in business activity			In 2022, we withdrew approximately 47 million megaliters of water, which represents a nearly 13 percent year-over-year reduction in water withdrawal, primarily due to decreased electricity generation at our hydroelectric plants in 2022. (See the "Using Water Resources Responsibly" section of our 2023 Constellation Sustainability Report).
Total discharges	45,974,431.58	Lower	Increase/decrease in business activity			In 2022, we discharged approximately 46 million megaliters of water, which represents a nearly 13 percent year-over-year reduction in water discharge,

						primarily due to decreased electricity generation at our hydroelectric plants in 2022. (See the "Using Water Resources Responsibly" section of our 2023 Constellation Sustainability Report).
Total consumption	708,068.32	About the same	Other, please specify See the “Please explain” field.			The slight increase in water consumption was less than 5% in 2022, A small percentage of the water used in open-cycle cooling systems at our nuclear plants is lost to evaporation.

W1.2d

(W1.2d) Indicate whether water is withdrawn from areas with water stress, provide the proportion, how it compares with the previous reporting year, and how it is forecasted to change.

	Withdrawals are from areas with water stress	Identification tool	Please explain
Row 1	No	WRI Aqueduct	Constellation is working to determine our exposure to this issue to refine our strategy. For instance, we use the World Resources Institute Aqueduct tool to aggregate water stress indicators and understand projections of future water scarcity under scenarios of climate change and economic growth. Our facilities with the greatest consumptive water use operate in low-medium risk regions. Some of our solar, wind and simple cycle combustion turbine Power installations operate in high water risk areas; however, these assets use negligible amounts of water and do not face risks associated with water scarcity. In addition, many of our sites are required to develop and maintain drought contingency management plans, which document how these sites will manage water needs during drought emergencies. (See the "Using Water Resources Responsibly" section of our 2023 Constellation Sustainability Report)

W1.2h

(W1.2h) Provide total water withdrawal data by source.

	Relevance	Volume (megaliters/year)	Comparison with previous reporting year	Primary reason for comparison with previous reporting year	Please explain
Fresh surface water, including rainwater, water from wetlands, rivers, and lakes	Relevant	41,566,844.63	Lower	Increase/decrease in business activity	In 2022, we withdrew approximately 47 million megaliters of water, which represents a nearly 13 percent year-over-year reduction in water withdrawal, primarily due to decreased electricity generation at our hydroelectric plants in 2022. (See the "Using Water Resources Responsibly" section of our 2023 Constellation Sustainability Report)
Brackish surface water/Seawater	Relevant	4,662,858.9	About the same	Other, please specify there was no significant change	
Groundwater – renewable	Relevant	449,979.59	Higher	Unknown	Withdrawal of groundwater increased by 7 percent in 2022, primarily at our Calvert Cliffs nuclear plant.
Groundwater – non-renewable	Not relevant				
Produced/Entrained water	Not relevant				
Third party sources	Relevant	2,816.79	Higher	Unknown	

W1.2i

(W1.2i) Provide total water discharge data by destination.

	Relevance	Volume (megaliters/year)	Comparison with previous reporting year	Primary reason for comparison with previous reporting year	Please explain
Fresh surface water	Relevant	41,311,158.37	Lower	Increase/decrease in business activity	In 2022, we discharged approximately 46 million megaliters of water, which represents a nearly 13 percent year-over-year reduction in water discharge, primarily due to decreased electricity generation at our hydroelectric plants in 2022. (See the "Using Water Resources Responsibly" section of our 2023 Constellation Sustainability Report).
Brackish surface water/seawater	Relevant	4,662,885.96	About the same	Other, please specify there was no significant change	
Groundwater	Not relevant				
Third-party destinations	Relevant	387.25	Higher	Unknown	Discharge of third -party water increased by 7 percent in 2022, primarily at our Hillabee natural gas plant.

W1.2j

(W1.2j) Within your direct operations, indicate the highest level(s) to which you treat your discharge.

	Relevance of treatment level to discharge	Volume (megaliters/year)	Comparison of treated volume with previous reporting year	Primary reason for comparison with previous reporting year	% of your sites/facilities/operations this volume applies to	Please explain

Tertiary treatment	Relevant	352.4	This is our first year of measurement		1-10	Tertiary treatment is utilized at our Byron, Dresden and Three Mile Island facilities, primarily in the form of UV disinfection for groundwater use for non-cooling activities and WASH requirements at the facilities. Treatment is conducted in accordance with applicable permit and/or internal performance monitoring requirements and methodology specifications (e.g. sensor or meter type, calibration frequency, testing) defined by the engineering department of individual operating.
Secondary treatment	Not relevant					Secondary treatment is not utilized at any of our facilities.
Primary treatment only	Relevant	1,900,912.7	This is our first year of measurement		11-20	Primary treatment is utilized at our Braidwood, Byron, Clinton, Dresden, LaSalle, Limerick, Nine Mile Point, and Medway facilities primarily via settling of solids that occurs in recirculating cooling systems or the use of oil/water separator equipment. Treatment is conducted in accordance with applicable permit and/or internal performance monitoring requirements and methodology specifications (e.g. sensor or meter type, calibration frequency, testing). Some of our

						facilities have a portion of their discharges chlorinated and dechlorinated prior to discharge for condenser and service water systems and clamicide treatment for the inhibition of mussel growth.
Discharge to the natural environment without treatment	Relevant	44,072,896.9	This is our first year of measurement		51-60	Some of our facilities including but not limited to Fitzpatrick, Ginna, Nine Mile Point, Peach Bottom, Quad Cities, Colorado Bend II and Wolf Hollow II have a portion of their water discharges returned to the environment without treatment based upon determinations made by the federal, state and/or local authorities as part of their discharge permit review and authorization. Some of our facilities have a portion of their discharges chlorinated and dechlorinated prior to discharge for condenser and service water systems and clamicide treatment for the inhibition of mussel growth.
Discharge to a third party without treatment	Relevant	223.4	This is our first year of measurement		1-10	Some of our facilities including but not limited to Braidwood, Quad Cities, Braidwood, Ginna, Limerick, Eddystone, Handley, Medway and Perryman have a portion of their discharges sent to a third party or

						publicly owned treatment works (POTW), primarily for sanitary sewage. Discharges are conducted in accordance with applicable permit and/or internal performance monitoring requirements and methodology specifications (e.g. sensor or meter type, calibration frequency, testing) defined by the engineering department of individual operating companies or sites. A comparison to prior year tertiary treatment volume cannot be made as this is the first year of measurement.
Other	Relevant	43.9	This is our first year of measurement		1-10	

W1.3

(W1.3) Provide a figure for your organization's total water withdrawal efficiency.

	Revenue	Total water withdrawal volume (megaliters)	Total water withdrawal efficiency	Anticipated forward trend
Row 1	24,440,000,000	46,682,483	523.5368478579	

W-EU1.3

(W-EU1.3) Do you calculate water intensity for your electricity generation activities?

Yes

W-EU1.3a

(W-EU1.3a) Provide the following intensity information associated with your electricity generation activities.

Water intensity value (m3/denominator)	Numerator: water aspect	Denominator	Comparison with previous reporting year	Please explain
3.41	Total water consumption	MWh	About the same	This intensity metric was 2% lower in 2022 compared to 2021. Our water consumption volumes increased by 4% while our net generation MWh increased by 7% in 2022 compared to the previous year.

W1.4

(W1.4) Do any of your products contain substances classified as hazardous by a regulatory authority?

	Products contain hazardous substances	Comment
Row 1	No	

W1.5

(W1.5) Do you engage with your value chain on water-related issues?

	Engagement	Primary reason for no engagement	Please explain
Suppliers	No	Important but not an immediate business priority	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 water-related 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.”
Other value chain partners (e.g., customers)	Yes		

W1.5e

(W1.5e) Provide details of any water-related engagement activity with customers or other value chain partners.

Type of stakeholder

Customers

Type of engagement

Other

Details of engagement

Other, please specify

Water conservation products and services

Rationale for your engagement

Our energy services business provides water conservation products and services such as installing ultra-low flow toilets and low flow showerheads as well as leak detection systems to public sector, commercial and industrial customers. Our Constellation Home business provides residential customers with low water impact products through various plumbing service and repair offerings.

Impact of the engagement and measures of success

W2. Business impacts

W2.1

(W2.1) Has your organization experienced any detrimental water-related impacts?

No

W2.2

(W2.2) In the reporting year, was your organization subject to any fines, enforcement orders, and/or other penalties for water-related regulatory violations?

	Water-related regulatory violations	Comment
Row 1	No	We reported 6 permit non-compliance instances related to water in 2022. None of those resulted in an agency enforcement action.

W3. Procedures

W3.1

(W3.1) Does your organization identify and classify potential water pollutants associated with its activities that could have a detrimental impact on water ecosystems or human health?

	Identification and classification of potential water pollutants	How potential water pollutants are identified and classified
Row 1	Yes, we identify and classify our potential water pollutants	Potential water pollutants associated with our business are identified and classified based upon parameters to be monitored and measured in accordance with facility permit requirements. Pollutants of concern may be identified through watershed organizations or Total Maximum Daily Load (TMDL) limits in watersheds where we operate such as the Delaware River watershed where we monitor PCB parameters as a result of a PCB TMDL in the watershed. Typical permit parameters can address water quality aspects from pH, temperature, dissolved oxygen, total suspended solids etc., and can vary across our operations depending upon the specific type of generating facility, geographical location and prevailing watershed characteristics. These aspects are considered across our value chain based on individual facility and watershed characteristics such as TMDLs, etc. Under the federal Clean Water Act, NPDES permits for discharges into waterways are required to be obtained from the EPA or from the relevant state environmental agency, and must be renewed periodically. Some facilities discharge storm water and industrial wastewater into waterways and are subject to these regulations and operate under NPDES permits or pending applications for renewals of such permits after being granted an administrative extension. Generation is also subject to the jurisdiction of the Delaware River Basin Commission and the Susquehanna River Basin Commission, regional agencies that primarily regulate water use.

W3.1a

(W3.1a) Describe how your organization minimizes the adverse impacts of potential water pollutants on water ecosystems or human health associated with your activities.

Water pollutant category

Other, please specify

Hydrocarbons

Description of water pollutant and potential impacts

Oil and grease – potential surface water impacts in immediate receiving water body

Value chain stage

Direct operations

Actions and procedures to minimize adverse impacts

Other, please specify

See “Please explain” field for details

Please explain

Management procedures:

Compliance with effluent quality standards

Measures to prevent spillage, leaching, and leakages

Community/stakeholder engagement

Emergency preparedness

Environmental monitoring is conducted in accordance with applicable permit requirements and company procedures. Successful implementation is assessed through sampling, tracking of self-identified permit non-compliances or other regulatory notifications. Our facilities utilize SPCC plans and regularly review and update them to control potential impacts of oil and grease.

Water pollutant category

Other, please specify

Radiation

Description of water pollutant and potential impacts

Radionuclides – potential for localized surface or groundwater impact

Value chain stage

Direct operations

Actions and procedures to minimize adverse impacts

Other, please specify

See “Please explain” field for details

Please explain

Management procedures:

Compliance with effluent quality standards

Measures to prevent spillage, leaching, and leakages

Community/stakeholder engagement

Emergency preparedness

Environmental monitoring is conducted in accordance with applicable permit requirements. Constellation has adopted a Radiological Groundwater Protection program that includes a robust groundwater monitoring program designed with the support of a third-party environmental engineering firm. Samples are obtained from wells at least quarterly and are reviewed by station personnel, a corporate geologist and a third-party to identify and respond to impacts, if any. In addition, we have procedures that outline monitoring and ground water protection program objectives at our facilities which follow the Nuclear Energy Institute's NEI-07-07 Rev 1 Ground Water Protection Initiative Guidance Document which also includes communication to federal, state and local stakeholders. Monitoring is also conducted in accordance with the NRC REMP/RETS program requirements.

Water pollutant category

Other, please specify

Thermal pollution

Description of water pollutant and potential impacts

Temperature – potential for surface water impacts in immediate receiving water body

Value chain stage

Direct operations

Actions and procedures to minimize adverse impacts

Other, please specify

See "Please explain" field for details

Please explain

Management procedures:

Compliance with effluent quality standards

Measures to prevent spillage, leaching, and leakages

Community/stakeholder engagement

Emergency preparedness

Environmental monitoring is conducted in accordance with applicable permit requirements and company procedures.

Water pollutant category

Other, please specify

PCBs

Description of water pollutant and potential impacts

PCBs – potential surface water impacts in immediate receiving water body

Value chain stage

Direct operations

Actions and procedures to minimize adverse impacts

Other, please specify

See “Please explain” field for details

Please explain

Management procedures:

Compliance with effluent quality standards

Measures to prevent spillage, leaching, and leakages

Community/stakeholder engagement

Emergency preparedness

Environmental monitoring is conducted in accordance with applicable permit requirements and company procedures.

Water pollutant category

Other, please specify

Nutrients

Description of water pollutant and potential impacts

Nitrogen and Phosphorus - potential surface water impacts in immediate receiving water body

Value chain stage

Direct operations

Actions and procedures to minimize adverse impacts

Other, please specify

See “Please explain” field for details

Please explain

Management procedures:

Compliance with effluent quality standards

Measures to prevent spillage, leaching, and leakages

Community/stakeholder engagement

Emergency preparedness

Environmental monitoring is conducted in accordance with applicable permit requirements and company procedures.

Water pollutant category

Other, please specify

Dissolved oxygen

Description of water pollutant and potential impacts

CBOD, COD – potential surface water impacts in immediate receiving water body

Value chain stage

Direct operations

Actions and procedures to minimize adverse impacts

Other, please specify

CBOD, COD – potential surface water impacts in immediate receiving water body

Please explain

Management procedures:

Compliance with effluent quality standards

Measures to prevent spillage, leaching, and leakages

Community/stakeholder engagement

Emergency preparedness

Environmental monitoring is conducted in accordance with applicable permit requirements and company procedures.

W3.3

(W3.3) Does your organization undertake a water-related risk assessment?

Yes, water-related risks are assessed

W3.3a

(W3.3a) Select the options that best describe your procedures for identifying and assessing water-related risks.

Value chain stage

Direct operations

Coverage

Full

Risk assessment procedure

Water risks are assessed as part of an established enterprise risk management framework

Frequency of assessment

Annually

How far into the future are risks considered?

More than 6 years

Type of tools and methods used

Enterprise risk management

Tools and methods used

Enterprise Risk Management

Contextual issues considered

Other, please specify

Most of the contextual issues are considered

Stakeholders considered

Other, please specify

Employees, Local Communities, Regulators and others as applicable.

Comment

Much of Constellation's business depends on access to reliable and adequate water supplies. Water is essential to produce electricity—it drives our hydroelectric facilities and cools our thermal generation stations.

We recognize that water is a shared resource that is critical to communities, economic development, and wildlife, and we work to minimize our impact while preserving the long-term viability of this important resource.

As we look toward the future, we anticipate that water access will be a key challenge for Constellation and many other businesses globally. Water scarcity is a critical risk for our industry, and may be exacerbated by the effects of the climate crisis. Changing weather patterns and growing competition for existing resources make effective water management increasingly essential. Constellation is continually working to define the scope of this issue, including by conducting climate scenario analyses, to refine our strategies.

Value chain stage

Direct operations

Coverage

Full

Risk assessment procedure

Water risks are assessed as part of an established enterprise risk management framework

Frequency of assessment

More than once a year

How far into the future are risks considered?

3 to 6 years

Type of tools and methods used

Enterprise risk management

Other

Tools and methods used

Enterprise Risk Management

Internal company methods

Contextual issues considered

Water availability at a basin/catchment level

Water quality at a basin/catchment level

Water regulatory frameworks

Status of ecosystems and habitats

Other, please specify

Most of the contextual issues are considered

Stakeholders considered

Other, please specify

Employees, Local Communities, Regulators and others as applicable.

Comment

We address site-specific, water-related management practices and risks and collaborate with relevant stakeholders at the local level, which helps us to identify and address specific water challenges most effectively.

W3.3b

(W3.3b) Describe your organization's process for identifying, assessing, and responding to water-related risks within your direct operations and other stages of your value chain.

	Rationale for approach to risk assessment	Explanation of contextual issues considered	Explanation of stakeholders considered	Decision-making process for risk response
Row 1	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.	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.	Much of Constellation's business depends on access to reliable and adequate water supplies. Water is essential to produce electricity—it drives our hydroelectric facilities and cools our thermal generation stations. We recognize that water is a shared resource that is critical to communities, economic development, and wildlife, and we work to minimize our impact while preserving the long-term viability of this important resource. We address site-specific, water-related management practices and risks and collaborate with relevant stakeholders at the local level, which helps us to identify and address specific water challenges most effectively. As we look toward the future, we anticipate	Our Water Policy sets out the values and guiding principles to accomplish our commitments as a good steward of water: Our Guiding Principles Constellation seeks to be a good steward of water by: • Understanding our impacts on water resources in the communities in which we operate. • Continuously improving our management of water resources, preventing pollution, and complying with all applicable water use laws and regulations.

			that water access will be a key challenge for Constellation and many other businesses globally. Water scarcity is a critical risk for our industry, and may be exacerbated by the effects of the climate crisis. Changing weather patterns and growing competition for existing resources make effective water management increasingly essential. Constellation is continually working to define the scope of this issue, including by conducting climate scenario analyses, to refine our strategies.	• Engaging local and other relevant stakeholders on important water issues, including those related to operational changes, development of strategic plans, or public policy advocacy. • Collaborating with communities and other interested parties to address opportunities for protecting and enhancing watershed resources

W4. Risks and opportunities

W4.1

(W4.1) Have you identified any inherent water-related risks with the potential to have a substantive financial or strategic impact on your business?

No

W4.1a

(W4.1a) 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 ERM process, we determine that a risk has a substantive impact, financial and/or strategic, if the residual severity results from a risk with 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.

W4.2b

(W4.2b) Why does your organization not consider itself exposed to water risks in its direct operations with the potential to have a substantive financial or strategic impact?

	Primary reason	Please explain
Row 1	Risks exist, but no substantive impact anticipated	Constellation Generation assets operate in accordance with federal- or state-issued NPDES permits pursuant to the Clean Water Act. We use the World Resources Institute Aqueduct tool to aggregate water stress indicators for the power generation sector, including water quantity and quality, reputational risk and regulatory measures. According to the study performed we do not have any facilities exposed to water stress risks.

W4.2c

(W4.2c) Why does your organization not consider itself exposed to water risks in its value chain (beyond direct operations) with the potential to have a substantive financial or strategic impact?

	Primary reason	Please explain
Row 1	Not yet evaluated	Constellation is working to determine our exposure to this issue to refine our strategy. For instance, we use the World Resources Institute Aqueduct tool to aggregate water stress indicators and understand projections of future water scarcity under scenarios of climate change and economic growth. In the future, we hope to undertake an in-depth ESG materiality assessment where we will consider water impacts in our value chain.

W4.3

(W4.3) Have you identified any water-related opportunities with the potential to have a substantive financial or strategic impact on your business?

No

W4.3b

(W4.3b) Why does your organization not consider itself to have water-related opportunities?

	Primary reason	Please explain
Row 1	Not yet evaluated	Constellation is working to determine our exposure to this issue to refine our strategy. For instance, we use the World Resources Institute Aqueduct tool to aggregate water stress indicators and understand projections of future water scarcity under scenarios of climate change and economic growth. In the future, we hope to undertake an in-depth ESG materiality assessment where we will consider water related opportunities.

W6. Governance

W6.1

(W6.1) Does your organization have a water policy?

Yes, we have a documented water policy that is publicly available

W6.1a

(W6.1a) Select the options that best describe the scope and content of your water policy.

	Scope	Content	Please explain
Row 1	Company-wide	Description of business dependency on water Description of business impact on water Commitments beyond regulatory compliance Other, please specify Description of water-related performance standards for direct operations and procurement, and company water targets	Constellation's Water Resources Management Policy is publicly available on our corporate website at: https://www.constellationenergy.com/content/dam/constellationenergy/pdfs/Constellation-Water-Resource-Management-Policy.pdf.

W6.2

(W6.2) Is there board level oversight of water-related issues within your organization?

Yes

W6.2a

(W6.2a) Identify the position(s) (do not include any names) of the individual(s) on the board with responsibility for water-related issues.

Position of individual or committee	Responsibilities for water-related issues
Board-level committee	Our Board of Directors oversees our executive team as it manages the company's environmental compliance and assurance, including water. The Corporate Governance Committee of the Board of Directors oversees our environmental strategies, including climate and sustainability policies. reviews 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. The Nuclear Oversight Committee is specifically tasked with overseeing environmental and safety laws, regulations and standards applicable to ownership and operation of nuclear power facilities. This includes compliance with policies and procedures to manage and mitigate risks associated with nuclear assets, and oversight of both cyber security risks and environmental, health and safety issues related to nuclear generating facilities. This includes oversight of water-related issues which are critical to the operation of our nuclear generating facilities.

W6.2b

(W6.2b) Provide further details on the board's oversight of water-related issues.

	Frequency that water-related issues are a scheduled agenda item	Governance mechanisms into which water-related issues are integrated	Please explain
Row 1	Other, please specify Periodically and as required by the	Overseeing major capital expenditures Reviewing and guiding risk management policies Reviewing and guiding strategy	Constellation is subject to comprehensive and complex environmental statutes and regulations at the federal, state and local levels, including requirements relating to water quality, impacts on species and habitat,

	occurrence of specific water-related incidents.	Other, please specify Regular reporting to the board by management of monitoring implementation and performance; Regular reporting to the board of compliance with federal and state environmental and water related regulations	solid and hazardous waste and air emissions. Our Board of Directors reviews the management of environmental matters. Our executive team, including the CEO and other senior management, is accountable for our environmental compliance and our compliance assurance strategy. The performance of individuals directly involved in environmental compliance affects compensation as part of the annual individual performance review process. The executive team is also in charge of ensuring compliance with various federal and state regulatory requirements. The executive team provides regular reports to the board regarding any potential compliance issues with these regulations.

W6.2d

(W6.2d) Does your organization have at least one board member with competence on water-related issues?

	Board member(s) have competence on water-related issues	Criteria used to assess competence of board member(s) on water-related issues
Row 1	Yes	Our board consists of individuals who are competent in many areas, however none have specifically related to significant water-related issues, except for one board member that is a former retired Navy admiral. Our board functions at a high level in providing direction and oversight of management – many of which have direct and relevant experience in water-related matters. Due to the governance structure of our board of directors, the board receives and reviews material water related matters and is able to provide input and advise as necessary.

W6.3

(W6.3) Provide the highest management-level position(s) or committee(s) with responsibility for water-related issues (do not include the names of individuals).

Name of the position(s) and/or committee(s)

Other, please specify

Executive Committee

Water-related responsibilities of this position

Other, please specify

Both assessing and managing water-related risks and opportunities

Frequency of reporting to the board on water-related issues

As important matters arise

Please explain

Constellation is subject to comprehensive and complex environmental statutes and regulations at the federal, state and local levels, including requirements relating to water quality, impacts on species and habitat, solid and hazardous waste and air emissions. Our Board of Directors has oversight of the management of environmental matters. Our executive team, including the CEO and other senior management, is ultimately accountable for our environmental compliance and our compliance assurance strategy.

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.

W6.4

(W6.4) Do you provide incentives to C-suite employees or board members for the management of water-related issues?

	Provide incentives for management of water-related issues	Comment

Row 1	No, not currently but we plan to introduce them in the next two years	Constellation is subject to comprehensive and complex environmental statutes and regulations at the federal, state and local levels, including requirements relating to water quality, impacts on species and habitat, solid and hazardous waste and air emissions The performance of individuals directly involved in environmental compliance affects compensation as part of the annual individual performance review process.

W6.5

(W6.5) Do you engage in activities that could either directly or indirectly influence public policy on water through any of the following?

Yes, trade associations

W6.5a

(W6.5a) What processes do you have in place to ensure that all of your direct and indirect activities seeking to influence policy are consistent with your water policy/water commitments?

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

W6.6

(W6.6) Did your organization include information about its response to water-related risks in its most recent mainstream financial report?

Yes (you may attach the report - this is optional)

2022 Constellation 10-K - Final.pdf

W7. Business strategy

W7.1

(W7.1) Are water-related issues integrated into any aspects of your long-term strategic business plan, and if so how?

	Are water-related issues integrated?	Long-term time horizon (years)	Please explain
Long-term business objectives	Yes, water-related issues are integrated	5-10	Water availability and accessibility are crucial to our business operations and vital to the security of human health and diverse biological ecosystems. Water scarcity is a critical risk for our industry and is exacerbated by the effects of the climate crisis. Changing weather patterns and growing competition for existing resources make effective water management essential. Constellation is working to determine our exposure to this issue to refine our strategy. For instance, we use the World Resources Institute Aqueduct tool to aggregate water stress indicators and understand projections of future water scarcity under scenarios of climate change and economic growth.
Strategy for achieving long-term objectives	Yes, water-related issues are integrated	5-10	Water availability and accessibility are crucial to our business operations and vital to the security of human health and diverse biological ecosystems. Water scarcity is a critical risk for our industry and is exacerbated by the effects of the climate crisis. Changing weather patterns and growing competition for existing resources make effective water management essential. Constellation is working to determine our exposure to this issue to refine our strategy. For instance, we use the World Resources Institute Aqueduct tool to aggregate water stress indicators and understand projections of future water scarcity under scenarios of climate change and economic growth.
Financial planning	Yes, water-related issues are integrated	5-10	Water availability and accessibility are crucial to our business operations and vital to the security of human health and diverse biological ecosystems. Water scarcity is a critical risk for our industry and is exacerbated by the effects of the climate crisis. Changing weather patterns and growing competition for existing resources make effective water management essential. Constellation is working to determine our exposure to this issue to refine our strategy. For instance, we use the

			World Resources Institute Aqueduct tool to aggregate water stress indicators and understand projections of future water scarcity under scenarios of climate change and economic growth.

W7.2

(W7.2) What is the trend in your organization's water-related capital expenditure (CAPEX) and operating expenditure (OPEX) for the reporting year, and the anticipated trend for the next reporting year?

Row 1

Water-related CAPEX (+/- % change)

0

Anticipated forward trend for CAPEX (+/- % change)

0

Water-related OPEX (+/- % change)

0

Anticipated forward trend for OPEX (+/- % change)

0

Please explain

We entered 0 in the numeric fields of this response to satisfy CDP's disclosure requirement as these metrics are not available.

W7.3

(W7.3) Does your organization use scenario analysis to inform its business strategy?

	Use of scenario analysis	Comment

Row 1	No, but we anticipate doing so within the next two years	Constellation is continually analyzing market conditions, regulatory developments, and new technologies in order to best position itself. Constellation maintains a Corporate Strategy organization that analyzes market trends, key risk indicators, and anticipated developments in the market to retain its role as an industry leader. This includes coordination of cross-company analysis on emerging technologies that may be associated with climate change action, potential risks associated with various future scenarios and identification of key signposts that might indicate changes in market signals, which can help influence and inform other areas of the company.

W7.4

(W7.4) Does your company use an internal price on water?

Row 1

Does your company use an internal price on water?

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

Please explain

At the present time weighing the most significant risk factors including increased water stress and scarcity, flooding, drought, and the related potential of climate change, we are not currently using an internal price on water.

W7.5

(W7.5) Do you classify any of your current products and/or services as low water impact?

	Products and/or services classified as low water impact	Definition used to classify low water impact	Please explain
Row 1	Yes	We provide customers with water conservation products and services.	Our energy services business provides water conservation products and services such as installing ultra-low flow toilets and low flow showerheads as well as leak detection systems to Public Sector, Commercial and Industrial customers. Our Constellation Home business provides

			residential customers with low water impact products through various plumbing service and repair offerings.

W8. Targets

W8.1

(W8.1) Do you have any water-related targets?

No, and we do not plan to within the next two years

W8.1c

(W8.1c) Why do you not have water-related target(s) and what are your plans to develop these in the future?

	Primary reason	Please explain
Row 1	Other, please specify See the " Please explain" field for details	We currently do not have any specific water-related targets in place because water use is a direct function of the amount of power produced. However, in our Water Resource Management Policy, we commit to establishing annual and long-term water management goals, and working to improve water efficiency and reduce consumptive use across our operations. We hope to be able to provide more information on this commitment in future years.

W9. Verification

W9.1

(W9.1) Do you verify any other water information reported in your CDP disclosure (not already covered by W5.1a)?

Yes

W9.1a

(W9.1a) Which data points within your CDP disclosure have been verified, and which standards were used?

Disclosure module	Data verified	Verification standard	Please explain
W1 Current state	Applicable withdrawals and discharges are monitored for both quantity and quality. This includes cooling water intakes and discharges, treated wastewater discharges, storm water and various industrial or construction related activities.	Other, please specify USEPA NPDES System, US DOE EIA Reporting Requirements (Fm. 923)	The CWA's National Pollutant Discharge Elimination System (NPDES) Program regulates point sources that discharge pollutants into waters of the United States. Compliance monitoring under the NPDES Program encompasses a range of techniques, from Discharge Monitoring Report reviews, to on-site compliance evaluation as well as providing assistance to enhance compliance with NPDES permits. The objective is to address the most significant problems and to promote compliance among the regulated community. The NPDES Compliance Inspection Manual provides information on how compliance inspections are conducted. Form EIA-923 collects information on the operation of electric power plants and combined heat and power (CHP) plants in the United States. Data collected on this form includes electric power generation operational cooling water data. These data are used to monitor the status and trends of the electric power industry and appear in U.S. Energy Information Administration (EIA) publications and public databases.

W10. Plastics

W10.1

(W10.1) Have you mapped where in your value chain plastics are used and/or produced?

	Plastics mapping	Please explain
Row 1	Not mapped – and we do not plan to within the next two years	Plastic usage is not a material issue for Constellation.

W10.2

(W10.2) Across your value chain, have you assessed the potential environmental and human health impacts of your use and/or production of plastics?

	Impact assessment	Please explain
Row 1	Not assessed – and we do not plan to within the next two years	Plastic usage is not a material issue for Constellation.

W10.3

(W10.3) Across your value chain, are you exposed to plastics-related risks with the potential to have a substantive financial or strategic impact on your business? If so, provide details.

	Risk exposure	Please explain
Row 1	Not assessed – and we do not plan to within the next two years	Plastic usage is not a material issue for Constellation.

W10.4

(W10.4) Do you have plastics-related targets, and if so what type?

	Targets in place	Please explain
Row 1	No – and we do not plan to within the next two years	Plastic usage is not a material issue for Constellation.

W10.5

(W10.5) Indicate whether your organization engages in the following activities.

	Activity applies	Comment

Production of plastic polymers	No	
Production of durable plastic components	No	
Production / commercialization of durable plastic goods (including mixed materials)	No	
Production / commercialization of plastic packaging	No	
Production of goods packaged in plastics	No	
Provision / commercialization of services or goods that use plastic packaging (e.g., retail and food services)	No	

W11. Sign off

W-FI

(W-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.

Constellation-2023-Sustainability-Report.pdf

Constellation-Water-Resource-Management-Policy.pdf

W11.1

(W11.1) Provide details for the person that has signed off (approved) your CDP water response.

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