

Welcome to your CDP Water Security Questionnaire 2023

W0. Introduction

W0.1

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

About us

Centrica is a leading energy services and solutions company focused on helping customers live sustainably, simply and affordably. We've been providing energy for over 200 years and serve over 10m residential and business customers mainly in the UK and Ireland, through strong brands like British Gas, Bord Gáis Energy and Centrica Business Solutions. Our distinctive capabilities are across energy supply, services and solutions, energy trading and optimisation, and supported via our 20,000-strong team which includes 7,000 engineers.

In recent years we have reviewed and evolved our strategy which has led us to a move away from most of our carbon intensive assets to provide low carbon services and solutions. This includes the sale of our joint venture oil and gas assets in Norway as well as our adoption of a run-off strategy for those that remain in the UK. We're now well-positioned to create a more sustainable future by becoming a new type of integrated energy company operating across the value chain – whether developing low carbon and transition assets or providing services and solutions that help our customers live sustainably, simply and affordably.

Our impact on water

As worldwide sources of clean water become increasingly under threat, we remain committed to ensuring water is used both efficiently and responsibly not only in our business, but across our supply chain too.

As we continue to move away from our more water intensive upstream activities (power stations and gas production) and focus on the low water intensity customer facing businesses, water is becoming an increasingly non-material risk for our business. For a company our size and within our sector, we consume a relatively small amount of water and less than 1% of water that we withdraw is from water-stressed areas. Moreover, using the World Resources Institute definitions, the vast majority of water we withdraw is used, rather than consumed, as it is returned to the same water catchment area within the same cycle period while ensuring minimal changes to the water's characteristics.

Most of our water-related risks and opportunities lie within our power generation and gas production businesses where cooling and produced water represent 99% of the total water we withdraw. Due to the nature of these withdrawals the risk and opportunities relating to water are not considered to have a substantial impact on our business, operations, or revenue.



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			
Lignite			
Oil			
Gas	494	100	2,605
Biomass			
Waste (non-biomass)			
Nuclear			
Fossil-fuel plants fitted with carbon capture and storage			
Geothermal			
Hydropower			
Wind			
Solar			
Marine			
Other renewable			
Other non-renewable			
Total	494	100	2,605

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.

Belgium Denmark Centrica CDP Water Security Questionnaire 2023 Thursday, August 3, 2023



Germany Hungary Ireland Israel Italy Mexico Netherlands Norway Singapore 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.

GBP

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	GB00B033F229

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	Important	Freshwater is important in our direct and indirect operations. Freshwater is primarily used in our direct operations for cooling at power stations; for operational uses at our gas terminals; as well as for office water supply. Our primary indirect freshwater use relates to power generation at non-owned assets that we purchase power from for resale. Third party suppliers of gas and power represent the stakeholders in our value chain with the highest freshwater demand. Despite increasing volumes of renewables and market flexibility in where we source our gas and power, the continued requirement of good quality volumes of freshwater in our direct and indirect operations remains the same and thus, our importance rating remains 'important'.
Sufficient amounts of recycled, brackish and/or produced water available for use	Important	Important	Direct access to saline or brackish water is important in both direct and indirect operations. Saline or brackish water is primarily used for cooling water at our gas terminals; and our offshore platforms operated by Spirit Energy, as considerable volumes of sufficient quality are required for direct operations. Recycled, produced and brackish water are important for our indirect operations, where we purchase energy from third parties for resale to our customers. Our suppliers will be the primary users of these water sources, in their power generation and gas production assets. As we continue to reduce our involvement in gas turbine power generation and gas production assets, our future water dependency will decline materially. With reduction in direct energy supplies, we become more dependent on indirect power generation and gas production, so availability of these water sources for indirect operations will remain important in future; however, this importance varies depending on
			technology employed and regional location, so we mitigate risk by diversification of our supply chain.



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%	Monthly	Across operated sites water withdrawals are measured using a series of water meters on the incoming feeds or through information from the water utility provider at each site.	We measure waterinput volumesacross all our siteswhich use orconsume waterand where wehave operationalcontrol. ForCentrica, 'sites'refers to anybuilding or facilitythat we operate in.Office anddownstreamassets' waterwithdrawals aremeasured at leastmonthly so thatany unexpectedpatterns areidentified andinvestigatedpromptly.Withdrawals aremeasured in thisway so thatvolumes can betracked throughtime and to ensureidentified andinvestigatedpatterns areidentified andintime and to ensureinexpectedpatterns areidentified andinvestigatedpotterns areidentified andinvestigatedpatterns areidentified andinvestigatedpatterns areidentified andinvestigatedpatterns areidentified andinvestigatedpatterns areidentified andinvestigatedpatterns areidentified andinvestigatedpromptly.
Water withdrawals – volumes by source	100%	Monthly	Direct monitoring through water meters or through	Centrica measures and monitors water input volumes by source category at all our sites which



			information from	use or consume
			water utility	water and have
			providers.	operational control.
				Office and
				downstream
				asset's water
				withdrawals are
				typically measured
				monthly. Upstream
				assets are typically
				monitored more
				regularly due to
				higher volumes
				being withdrawn.
				This is measured
				in this way so
				volumes can be
				tracked through
				time and to ensure
				that unexpected
				withdrawal patterns
				are identified and
				investigated
				promptly.
Water	Not relevant			All of our onshore
withdrawals				sites are
quality				connected to the
				municipal supply.
				We do not
				measure the water
				quality at these, as
				the water provider
				is maintained at an
	4000/			
vvater	100%	Wonthly	Direct	vve measure water
total volumes				from all our sites
Iotal volumes			based on water	which discharge
			withdrawale	which discharge
			withurawals.	water, and where
				operational control
				Water discharges
				are either directly
				measured or
				calculated from



				water withdrawals.
				Low water
				consumption sites,
				such as offices, are
				calculated based
				upon water
				withdrawals. Office
				and downstream
				asset's water
				discharges are
				typically measured
				monthly while at
				upstream assets
				this is typically
				done more
				regularly.
				Discharges are
				measured in this
				way so that
				volumes can be
				tracked through
				time and to ensure
				unexpected
				discharge patterns
				are identified and
				investigated
				promptly.
Water	100%	Monthly	Direct	Where we
discharges -			monitoring or	measure discharge
volumes by			use calculations	volumes, we do so
destination			based on water	by destination. As
			withdrawals.	such, discharge
				volumes are
				measured at all of
				our sites which
				discharge water
				and have
				operational control.
				Office and
				downstream
				assets' water
				discharges are
				typically measured
				monthly while of
				monuny write at
				upstream assets



				done more regularly. Discharges are measured in this way so that volumes can be tracked through time and to ensure unexpected patterns are identified and investigated promptly. Reporting is also done monthly or quarterly to ensure water withdrawals are monitored regularly and tracked against targets.
Water discharges – volumes by treatment method	100%	Monthly	Direct monitoring or use calculations based on water withdrawals.	By recording our discharge volumes by destination and knowing the asset type, we know how our discharges are being treated. For example, offices are assumed to only discharge to the municipal water system, hence treated at municipal wastewater treatment plants. We measure discharges at all our sites where we have operational control. Office and downstream asset's water discharges are typically measured



				monthly; upstream assets are typically monitored more regularly. This is done so that unexpected withdrawal patterns are identified and investigated promptly. Reporting is also done monthly or quarterly to ensure water withdrawals are monitored regularly and tracked against targets.
Water discharge quality – by standard effluent parameters	100%	Quarterly	Direct monitoring.	Centrica routinely measures the quality of our water discharge at power assets, and gas terminals, where we have a legal or contractual requirement to monitor and/or report pursuant to consented quality limits quarterly. Municipal water from our offices is sent to a third-party wastewater treatment plant where quality measurements are undertaken routinely.
Water discharge quality – emissions to water (nitrates, phosphates, pesticides,	Not relevant			Priority substances such as nitrates, phosphates and pesticides are not of material relevance to our



and/or other priority substances)				sites due to the nature of the site activities. Therefore we do not monitor for these substances in our water discharges.
Water discharge quality – temperature	1-25	Continuously	Direct monitoring through traditional temperature- gauging methods such as thermometers.	We continuously monitor the temperature of discharged water from Whitegate power station to ensure it does not fall outside of any prescribed limits.
Water consumption – total volume	100%	Monthly	Our consumption values are calculated as the volume we withdraw and utilise, but do not return to its original source, or return within a different cycle period after treatment or further use.	We are able to calculate the total volume of water consumption across our business because we measure or accurately estimate our water consumption input from all our sites where we have operational control. Office and downstream assets are measured monthly, while upstream assets are monitored more regularly. This is done so that volumes can be tracked through time and to ensure that unexpected consumption patterns are identified and investigated



				promptly. Reporting is also done monthly or quarterly to ensure water withdrawals are monitored regularly and tracked against targets.
Water recycled/reused	Less than 1%	Monthly	Volumes are calculated based upon the fill and empty rate of the blow down tank.	We recycle boiler blowdown water at our Whitegate power station. Our blowdown water is cooled and sent back to our raw water tank and recycled back through the water treatment system. This helps to reduce water import into the raw water tank. Volumes are calculated based upon the fill and empty rate of the blow down tank. This is measured monthly so that volumes can be tracked through time and to ensure that unexpected patterns are identified and investigated promptly.
The provision of fully-functioning, safely managed WASH services to all workers	100%	Continuously	Direct monitoring by designated supervisors to ensure provision at all times.	As part of our duty of care to our people and through our Health, Safety and Environment assurance activities, we



1.1			
			ensure and verify
			that all employees
			have access to
			WASH services at
			their normal place
			of work.

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)	Compariso n with previous reporting year	Primary reason for comparison with previous reporting year	Five- year forecas t	Primary reason for forecas t	Please explain
Total withdrawals	23,951.73	Higher	Increase/decreas e in business activity	Lower	Facility closure	Our total water withdrawal volumes have increased by 21% in volume compared to 2021. We qualify a rise in water withdrawals between 10- 50% to be 'higher' with the increase being due to increased activity and consequentl y 60% more water withdrawn by Morecambe Offshore platform as well as a 200%



						increase in water withdrawn by Bord Gais due to Whitegate power station coming back online after being in outage in 2021. We expect total water consumption to fall over the next five years as Spirit Energy assets begin to close.
Total discharges	23,889.66	Higher	Increase/decreas e in business activity	Lower	Facility closure	Our total water discharge volumes have increased by 21% in volume compared to 2021. We qualify a rise in water discharges of between 10-50% to be 'higher' with the increase being due to increased activity and consequentl y 60% more water



Total	62.07		Epcility	Morecambe Offshore platform as well as a 200% increase in water discharged by Bord Gais due to Whitegate power station coming back online after being in outage in 2021. We expect total water discharge to fall over the next year and next five years as Spirit Energy assets begin to close. We expect total water discharge to fall over next five years as Spirit Energy assets begin to close. We expect total water
consumptio n		e in business activity	closure	n is calculated using the above withdrawal and discharge



			values. This
			value has
			increased by
			300% in
			volume
			compared to
			2021. We
			consider
			volumes that
			have
			increased
			over 50% to
			be 'much
			higher' and
			this can be
			attributed to
			Whitegate
			power
			station re-
			opening after
			an outage as
			well as
			offices re-
			opening
			throughout
			2022 due to
			COVID-19
			restrictions
			being eased
			and more in-
			person office
			working and
			events.
			We expect
			total water
			consumption
			to fall over
			the next five
			years as
			Spirit Energy
			assets begin
			to close.



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.

	Withdrawal s are from areas with water stress	% withdraw n from areas with water stress	Compariso n with previous reporting year	Primary reason for compariso n with previous reporting year	Five- year foreca st	Primary reason for forecast	Identificatio n tool	Please explain
Ro w 1	Yes	Less than 1%	About the same	Maximum potential volume reduction already achieved	About the same	Maximu m potential volume reductio n already achieve d	WRI Aqueduct	The baseline water stress overlay was applied using the WRI Aqueduct Water Risk Atlas tool which categorise s land into 5 water risk areas (Low Risk, Idedium to High Risk, Medium to High Risk, Medium to High Risk, Itigh Risk and Extremely High Risk to compare to our asset locations. Centrica maintains an updated



				list of all
				assets with
				the ability
				to plot
				spatially,
				via
				address.
				Our sites
				were
				plotted on
				top of the
				WRI Risk
				Atlas to
				identify
				locations in
				areas of
				potential
				water
				stress.
				Glanford
				Brigg
				power
				station and
				Easington
				gas
				terminal
				are located
				in 'low to
				medium'
				water-
				stressed
				areas;
				however,
				the total
				water
				withdrawal
				s of these
				sites
				contribute
				less than
				1% to
				Centrica's
				water
				withdrawal
				S.
				This is the



				same as
				the
				previous
				year's
				submission
				where our
				activities
				withdrew
				immaterial
				volumes of
				water from
				areas that
				experience
				'low to
				medium'
				water
				stress.
				Neither do
				we plan on
				this
				changing
				in the
				future, nor
				do we plan
				on
				increasing
				the
				proportion
				of water
				withdrawal
				s in areas
				of water
				stress.

W1.2h

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

	Relevanc e	Volume (megaliters/year)	Compariso n with previous reporting year	Primary reason for comparison with previous reporting year	Please explain
Fresh surface water, including rainwater, water	Relevant	0.83	Much higher	Increase/decreas e in business activity	Demolition works for asset removal at



from wetlands,					Glanford Brigg
rivers, and lakes					power station
,					required water
					to be sprayed
					on equipment
					for the purposes
					of dust removal.
					This water was
					abstracted from
					the nearby river.
					Asset removal
					work is now
					complete and
					we do not
					anticipate fresh
					surface water
					withdrawals in
					the comina
					vears.
Brackish surface	Polovant	23 523 26	Higher	Increase/decreas	, Brackish
water/Seawater	Relevant	20,020.20	riighei	e in husiness	surface
water/Geawater				activity	water/sea water
				activity	is the saline
					estuary and
					dock water
					withdrawn for
					and it includes
					the volume of
					'open sea' water
					withdrawn
					relating to
					cooling water
					for offshore
					platforms
					plationno.
					Our brackish
					surface/seawate
					r withdrawals
					have increased
					hy 27% in
					compared to
					2021 We
					consider a
					volume increase



			between 10- 50% to be 'higher' and this can be attributed to increased activity and therefore higher brackish surface water/seawater withdrawal. We expect total brackish surface water/seawater
			withdrawals to remain materially similar to our 2022 levels in 2023 but expect a reduction in future years as our Spirit Energy offshore platforms are run-down.
Groundwater – renewable	Not relevant		None of Centrica's assets are permitted to extract groundwater or designed to do so, therefore, Centrica does not withdraw renewable groundwater across its operations. We do not expect to use renewable groundwater sources in coming years.



Groundwater –	Not				None of
non-renewable	relevant				Centrica's
					assets are
					permitted to
					extract non-
					renewable
					groundwater or
					designed to do
					so, therefore,
					Centrica does
					not withdraw
					non-renewable
					groundwater
					across its
					operations. We
					do not expect to
					use non-
					renewable
					groundwater
					sources in
					coming years.
Produced/Entraine	Relevant	110.72	Much lower	Facility closure	Produced water
d water					is the water
					withdrawn
					withdrawn during natural
					withdrawn during natural gas production.
					withdrawn during natural gas production.
					withdrawn during natural gas production. Our produced
					withdrawn during natural gas production. Our produced water
					withdrawn during natural gas production. Our produced water withdrawals
					withdrawn during natural gas production. Our produced water withdrawals have decreased
					withdrawn during natural gas production. Our produced water withdrawals have decreased in 2022, with an
					withdrawn during natural gas production. Our produced water withdrawals have decreased in 2022, with an 89% decrease
					withdrawn during natural gas production. Our produced water withdrawals have decreased in 2022, with an 89% decrease in volume
					withdrawn during natural gas production. Our produced water withdrawals have decreased in 2022, with an 89% decrease in volume compared to
					withdrawn during natural gas production. Our produced water withdrawals have decreased in 2022, with an 89% decrease in volume compared to 2021. We
					withdrawn during natural gas production. Our produced water withdrawals have decreased in 2022, with an 89% decrease in volume compared to 2021. We consider
					withdrawn during natural gas production. Our produced water withdrawals have decreased in 2022, with an 89% decrease in volume compared to 2021. We consider volumes that
					withdrawn during natural gas production. Our produced water withdrawals have decreased in 2022, with an 89% decrease in volume compared to 2021. We consider volumes that have reduced
					withdrawn during natural gas production. Our produced water withdrawals have decreased in 2022, with an 89% decrease in volume compared to 2021. We consider volumes that have reduced by more than
					withdrawn during natural gas production. Our produced water withdrawals have decreased in 2022, with an 89% decrease in volume compared to 2021. We consider volumes that have reduced by more than 50% to be
					withdrawn during natural gas production. Our produced water withdrawals have decreased in 2022, with an 89% decrease in volume compared to 2021. We consider volumes that have reduced by more than 50% to be 'much lower'
					withdrawn during natural gas production. Our produced water withdrawals have decreased in 2022, with an 89% decrease in volume compared to 2021. We consider volumes that have reduced by more than 50% to be 'much lower' and this can
					withdrawn during natural gas production. Our produced water withdrawals have decreased in 2022, with an 89% decrease in volume compared to 2021. We consider volumes that have reduced by more than 50% to be 'much lower' and this can mainly be
					withdrawn during natural gas production. Our produced water withdrawals have decreased in 2022, with an 89% decrease in volume compared to 2021. We consider volumes that have reduced by more than 50% to be 'much lower' and this can mainly be attributed to



					being decommissione d by Spirit Energy mid- year. We expect total produced water withdrawals to continue to materially fall in 2023 compared to 2022 due to Hummingbird not being in operation for the entirety of the year while this was only the case for around half of 2022.
Third party sources	Relevant	316.93	Higher	Increase/decreas e in business activity	Municipal water supply is the volume of drinking- standard water used by a facility, including all water billed by the supplier, whether used, spilt, or leaked. Our municipal water supply from third party sources has increased in 2022, with a 29% rise in volume compared to 2021. We consider volumes that have increased



			between 10-
			50% to be
			'higher' and this
			increase can be
			attributed to
			Whitegate
			power station
			coming back
			online in 2022
			after being in
			outage in 2021.
			We expect
			municipal water
			withdrawal
			volumes from
			third party
			sources to
			remain
			materially
			similar to our
			2022 levels in
			2023 as well as
			future years.

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	Not relevant				Since the closure of our Glanford Brigg power station in September 2020 we no longer discharge fresh surface water at any of our sites.
Brackish surface water/seawater	Relevant	23,523.26	Higher	Increase/decrease in business activity	Brackish surface water/sea water is the direct cooling and



			produced water
			for operational
			use and is
			measured ri. Our
			brackish
			surface/seawater
			discharges have
			increased by 21%
			in volume
			compared to
			2021. We
			consider a
			volume rise
			between 10-50%
			to be 'higher' and
			this can be
			attributed to
			increased activity
			at Spirit Energy's
			Morecambe
			Offshore
			platform.
			We expect total
			brackish surface
			water/seawater
			discharge to
			remain materially
			similar to our
			2022 levels in
			2023 but could
			reduce in future
			years as our
			Spirit Energy
			offshore
			platforms are run-
			down.
Groundwater	Not		None of
	relevant		Centrica's assets
			are permitted or
			designed to
			discharge to
			groundwater
			sources across
			its operations.
			We do not expect
			to use non-



					renewable groundwater sources in coming years.
Third-party destinations	Relevant	201.79	About the same	Other, please specify Continuation of normal wastewater processes.	Third party discharges include all operational wastewater discharged from sites to sewer irrespective of where it is generated and the method of transmission. Our discharges have risen in 2022 with a 3% increase in volume compared to 2021. We consider volumes that have reduced below 10% to be 'about the same' and this increase can be attributed to the continued use of our offices and upstream assets

W1.2j

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

RelevanVolumece of(megaliters/ytreatmeear)nt leveltodischarge	Comparis on of treated volume with previous	Primary reason for comparison with previous reporting year	% of your sites/facilities/opera tions this volume applies to	Please explain
---	--	--	--	-------------------



		reporting		
		year		
Tertiary treatment	Not relevant			Tertiary treatment is not relevant for Centrica. We treat wastewate r streams to the highest level as determine d by our permits and regulation s and tertiary treatment is not a requireme nt at any of our sites where we discharge
Secondar y treatment	Not relevant			water. Secondar y treatment is not relevant for Centrica. We treat wastewate r streams to the highest level as determine d by our permits



						and regulation s and secondary treatment is not a requireme nt at any of our sites where we discharge water.
Primary treatment only	Relevant	24.38	Much higher	Increase/decre ase in business activity	Less than 1%	Primary treatment is undertake n for our wastewate r stream at our Whitegate Power Station. Wastewat er at Whitegate undergoes primary treatment in-line with our site permit and regulatory standards. Our primary treatment discharge s have increased in 2022 with a 142% rise in volume compared



						to 2021
						due to
						Whitegate
						power
						station
						being in
						outage for
						the
						majority of
						2021. We
						consider
						volumes
						that have
						increased
						over 50%
						to be
						'much
						higher'.
						We expect
						2023
						discharge
						volumes
						to remain
						materially
						similar to
						2022
						levels as
						well as in
						future
						years.
Discharge	Relevant	23,633.98	Higher	Increase/decre	91-99	Our
to the				ase in		wastewate
natural				business		r streams
environm				activity		that are
ent						discharge
without						d to the
treatment						natural
						environme
						nt without
						treatment
						include
						the
						cooling
						water at
						our
						offshore



				gas
				platforms.
				These
				waste
				streams
				are
				monitored
				to comply
				with site
				permits
				and
				regulatory
				standards
				but do not
				require
				additional
				treatment
				as
				standard
				before
				being
				discharge
				d to the
				environme
				nt.
				Our
				discharge
				s to the
				natural
				environme
				nt have
				increased
				in 2022,
				with a
				21%
				increase
				in volume
				compared
				to 2021.
				We
				consider
				volumes
				that have
				increased
4	1	1		1



						10-50% to be 'higher' and this can be attributed to increased activity at Spirit Energy's Morecamb e Offshore platform.
Discharge to a third party without treatment	Relevant	201.79	About the same	Other, please specify Continuation of normal wastewater processes.	1-10	Our wastewate r streams that are discharge d to a third party without treatment includes all wastewate r discharge d from our onshore assets (other than the discharge d water that receives primary treatment at Whitegate power station). This occurs at our offices but the



			greatest
			proportion
			is from
			CSL's
			Easington
			Gas
			Terminal
			as well as
			other
			upstream
			assets
			operated
			by Spirit
			Energy
			where our
			permits
			and
			regulatory
			standarde
			allowus to
			discharge
			to cowor
			without
			trootmont
			of
			trootmont
			applied by
			party at
			the
			municipal
			wastewate
			facility is
			unknown.
			Our
			discharge
			a to third
			S to trilla
			increased
			in 2024
			111 2021
			with a 1%
			rise



				compared to 2021. We consider volumes that have fallen by less than 10% to be 'about the same' and this can be attributed to the continued use of our offices and upstream assets throughou t 2022
Other	Not relevant			All of our discharge streams are treated using the above categories . We have no additional treatment methods at any of our sites.

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	23,741,000,000	23,951.73	991,201.888130836	As we continue to close or convert
1				the majority of our water intensive
				assets, we expect our total water
				withdrawal efficiency to increase
				due to a decrease in total water
				withdrawals.

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
0.02	Total water withdrawals	MWh	Much lower	In our power generation activities, total electricity available for sale rose 980% due to Whitegate coming back online after being in outage for most of 2021. Water withdrawals from our power generation and distribution assets increased by 131% and this was also due to increased activity at Whitegate. Therefore, our water intensity associated with electricity generation activities decreased by 79% compared to our 2021 due to electricity generation increasing significantly more than the volume of water withdrawn. We consider falls of more than 50% to be 'much lower'. Our strategic direction is to maintain our ownership of one base-load power station and increase the number of reciprocating gas engines. The latter are air cooled and therefore



		reduce total water consumption
		and the water intensity of our
		power generation. Consequently,
		we expect a reduction in water
		intensity with improvements in
		efficiency of future power
		generation technology.
		However, we do not currently use
		the water intensity of our power
		generation as an internal metric
		because our primary focus is on
		the carbon intensity of power.

W1.4

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

	Products contain hazardous substances	
Row 1	Yes	

W1.4a

(W1.4a) What percentage of your company's revenue is associated with products containing substances classified as hazardous by a regulatory authority?

Regulatory classification of hazardous substances	% of revenue associated with products containing substances in this list	Please explain
Candidate List of Substances of Very High Concern (UK Regulation)	Less than 10%	Centrica Storage Limited (CSL) produces condensate as an unavoidable by-product of gas production which is itself then sold. The condensate contains Benzene, a known carcinogen, but varies considerably in its proportion of hazardous content. Benzene is classified as hazardous in both 'Annex XIV of UK REACH Regulation' and the 'Candidate List of Substances of Very High Concern (UK Regulation)'. There is no method that CSL's Easington Gas Terminal could use to reduce its hazardous content due to it being a naturally occurring hydrocarbon product extracted as part of the gas production process.



W1.5

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

	Engagement
Suppliers	Yes
Other value chain partners (e.g., customers)	Yes

W1.5a

(W1.5a) Do you assess your suppliers according to their impact on water security?

Row 1

Assessment of supplier impact

Yes, we assess the impact of our suppliers

Considered in assessment

Supplier dependence on water Supplier impacts on water availability Supplier impacts on water quality

Number of suppliers identified as having a substantive impact

% of total suppliers identified as having a substantive impact None

Please explain

Centrica defines a substantive impact as one that has a material effect on the water within a catchment area.

Our assessment tools evaluate the resilience of suppliers' current sustainability framework; including water management, consumption rate and measures to reduce pollutants discharged into water. Where a supplier is deemed to have inadequate performance (medium/high risk rating), we aim to work collaboratively with them to develop corrective action plans that improve and embed sustainable behaviours and request them to upload evidence to demonstrate their impact through SEDEX self-assessment questionnaires SAQ)/EcoVadis submissions. The information provided forms a scorecard and a corrective action plan. In 2022, no suppliers were assessed as having a substantive impact on water security within our risk assessment process.

W1.5b

(W1.5b) Do your suppliers have to meet water-related requirements as part of your organization's purchasing process?

	Suppliers have to meet specific water-related requirements	
Row 1	Yes, water-related requirements are included in our supplier contracts	



W1.5c

(W1.5c) Provide details of the water-related requirements that suppliers have to meet as part of your organization's purchasing process, and the compliance measures in place.

Water-related requirement

Other, please specify

Requirement to adhere to our code of conduct regarding water stewardship and management.

% of suppliers with a substantive impact required to comply with this waterrelated requirement

Less than 1%

% of suppliers with a substantive impact in compliance with this water-related requirement

None

Mechanisms for monitoring compliance with this water-related requirement Supplier self-assessment

Supplier scorecard or rating

Response to supplier non-compliance with this water-related requirement Retain and engage

Comment

If a supplier is classed as medium or high risk, according to our risk rating tool which uses criteria that factor in environmental, social and ethical issues, then we engage and request them to submit a SEDEX SAQ and an Ecovadis questionnaire which both assess impact on water security. 175 suppliers were assessed in 2022 however no suppliers were requested to submit evidence due to water-related concerns nor were any of these suppliers classed as displaying inadequate water-related performance within their SAQ or EcoVadis submission.

W1.5d

(W1.5d) Provide details of any other water-related supplier engagement activity.

Type of engagement Information collection

Details of engagement Other, please specify



Supplier's water-related performance is assessed through our supplier onboarding risk management process

% of suppliers by number

1-25

% of suppliers with a substantive impact

Unknown

Rationale for your engagement

Our assessment tools evaluate the resilience of their current sustainability framework; including water management, consumption rate and measures to reduce pollutants discharged into water. Where a supplier is deemed to have inadequate performance (medium/high risk rating), we aim to work collaboratively with them to develop corrective action plans that improve and embed sustainable behaviour through a supplier self-assessment questionnaire supported in 2022 by SEDEX and EcoVadis, which both look at water use and water security with the latter producing a scorecard.

Impact of the engagement and measures of success

The benefits are seen through the insights we gather into benchmarking approaches and utilising KPI tracking to demonstrate year on year improvements and being able to share best practices and participating in peer community networking enables the upskilling of suppliers in their understanding of sustainable water management. We measure the success of this active engagement with our suppliers through SEDEX self-assessment questionnaire scores and EcoVadis scorecard data.

Comment

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

Innovation & collaboration

Details of engagement

Collaborate with stakeholders on innovations to reduce water impacts in products and services

Rationale for your engagement

Although we are primarily an energy management and services company, we have continued to engage in our key strategic partnerships with Thames Water to offer plumbing and drain services to their customers.



The services of our trained engineers are available year-round to quickly respond to calls from Thames Water customers to fix leaks in their homes and help reduce unnecessary water use.

Impact of the engagement and measures of success

There are no set measures of success for this partnership (volume of water lost through leakage before, during and after partnership for example) however the impact of British Gas and Dyno Rod engineers' work on reducing unnecessary water usage is demonstrated by the reach of their services; around a quarter of the water Thames Water supplies is lost through leakage and in 2021 a quarter of that was lost from the 1.85 million Thames Water customer properties. Through our strategic partnership customers are able to receive leakage finding and fixing services more quickly, contributing to Thames Water's goal of increasing the efficiency of their water supply.

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	

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	Prior to the building of our electric utility assets and in order to obtain operational permits, an Environmental Impact Assessment must be completed. This will identify potential water pollutants that could have a detrimental impact on water ecosystems or human health and mitigations of risk. These pollutants will be identified based on the



materials used and activities to be undertaken on the proposed sites. Thermal pollution, hydrocarbons, biocides and boiler chemicals are all examples of typical pollutants that need to be managed. These can adversely affect aquatic life at low concentration levels and impact humans at higher levels.

Facilities from which we discharge to receiving waters are highly regulated assets, subject to water-related permits, licenses or consents. These regulatory control mechanisms identify potential pollutants; set limits on discharge levels and specify monitoring and reporting requirements for us to meet. Water quality monitoring includes automatic monitoring and manually collected samples. The assets have water quality analysis capability and trained staff to undertake monitoring of a wide range of pollutants, where required. We follow an established standard working to the permit requirements and government guidance. In addition, there is a stringent audit program in place, which looks at the permit requirements and scrutinises how these are being met. This is a requirement of BS EN ISO 14001 in terms of controls and checking.

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

Inorganic pollutants

Description of water pollutant and potential impacts

Pollutants from our gas processing assets have the potential to pollute local ground water, adjacent water streams or other water bodies. Contaminated cooling water could reach these water bodies via discharges to streams or coastal waters via storm water drains. Impact is likely to be minor with regulatory standards and monitoring of water discharge in place. Glycol used in closed cooling water systems has the potential to be harmful to water ecosystems, if discharged at high concentration. Leakages on land could also be harmful to the environment.

The inherent risk of impact from contaminated cooling water is medium because it could impact a large area, sensitive ecosystem or require remedial clean-ups. However, with controls in place and high levels of regulatory scrutiny, we believe the mitigated risk is low.

Value chain stage

Direct operations



Actions and procedures to minimize adverse impacts

Assessment of critical infrastructure and storage condition (leakages, spillages, pipe erosion etc.) and their resilience

Resource recovery

Beyond compliance with regulatory requirements

Implementation of integrated solid waste management systems

Industrial and chemical accidents prevention, preparedness, and response

Requirement for suppliers to comply with regulatory requirements

Please explain

Assets ensure compliance through strict adherence to the requirements of the licence issued by the regulatory body. Where applicable, we strive to implement guidance documents issued by the regulator and also seek to follow industry best practice where applicable. We use number of events and water quality discharge as indicators of success. Areas which contain glycol and storage areas are bunded and located inside buildings at our power stations with closed system cooling water to prevent any chance of escape to the environment. This cooling water is not discharged into the water course as it's only used in closed systems. There is a robust maintenance schedule which prevents leaks from occurring, to both water bodies and land. There are also detection systems on the closed cooling systems which notify us of any water loss, this allows for immediate remedy. There are comprehensive emergency response procedures utilising spill kits and isolation valves where appropriate.

Water pollutant category

Oil

Description of water pollutant and potential impacts

Pollutants from our power generation and gas processing assets have the potential to pollute local groundwater, seawater (from offshore platforms) adjacent water streams or other water bodies. Oil and condensate could reach these water bodies via on-site spillages to ground outside of bunded areas, discharges to streams or coastal waters via storm water drains. The inherent risk of impact from these hydrocarbons is medium because it could impact a large area, sensitive ecosystem or require remedial clean-ups however with controls in place and high levels of regulatory scrutiny, we believe the mitigated risk is low.

Value chain stage

Direct operations

Actions and procedures to minimize adverse impacts

Assessment of critical infrastructure and storage condition (leakages, spillages, pipe erosion etc.) and their resilience

Resource recovery

Beyond compliance with regulatory requirements

Implementation of integrated solid waste management systems

Industrial and chemical accidents prevention, preparedness, and response



Please explain

Assets ensure compliance through strict adherence to the requirements of the licence issued by the regulatory body. Where applicable, we strive to implement guidance documents issued by the regulator and also seek to follow industry best practice where applicable. We use number of events and water quality discharge as indicators of success.

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?

1 to 3 years

Type of tools and methods used

Tools on the market Other

Tools and methods used

WRI Aqueduct Internal company methods Scenario analysis

Contextual issues considered

Water regulatory frameworks Status of ecosystems and habitats Access to fully-functioning, safely managed WASH services for all employees

Stakeholders considered

Centrica CDP Water Security Questionnaire 2023 Thursday, August 3, 2023



Customers Employees Investors Local communities

Comment

Value chain stage

Supply chain

Coverage

Partial

Risk assessment procedure

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

Frequency of assessment

Every two years

How far into the future are risks considered?

1 to 3 years

Type of tools and methods used

Tools on the market

Tools and methods used

EcoVadis SEDEX Other, please specify Supplier segmentation analysis

Contextual issues considered

Implications of water on your key commodities/raw materials

Stakeholders considered

Suppliers

Comment

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	As part of our TCED	Water regulatory	Customers are factored	Our internal
1	disclosure in 2022	frameworks at a local	into our organization's	environmental
	we used scenario	level are relevant at	water risk assessment	specialists input to
	analysis to identify	all of our facilities	to ensure continuity of	risk assessments and
	any water related	which require water.	both gas and power	management at all
	physical risks on all	Our assessments	supply. Any material	levels via methods
	of our assets using	using internal	risks to water availability	like quarterly risk
	the IPCC	company knowledge,	which could impact	reviews and peer
	temperature	indicate that our	operational output have	review quality checks.
	scenarios. We used	operational facilities	the potential to	Where appropriate,
	the baseline water	which require	negatively impact our	Environmental Impact
	stress overlay within	relatively large	security of supply for	Assessments (EIA)
	the WRI Aqueduct	volumes of municipal	customers. We engage	are used to evaluate
	Water Risk Atlas tool	water, or which	with our customers	potential water
	to assess flood risk	abstract from and	primarily by phone,	requirements of a
	for our UK assets out	discharge to	email, or letter.	proposed activity or
	to 2050 under	freshwater, have the		asset, options for
	RCP4.5 & RCP8.5	highest potential risk	Employees are included	meeting those
	pathways. We also	from current and	in the organization's	requirements,
	used the UK Met	future regulations and	water risk assessment	possible impacts and
	Office UKCP18	financial costs	in order to assess the	mitigations of risk.
	marine projections to	associated with water.	risk of not meeting our	
	assess the risk of	We continually review	duty of care by providing	Risks are identified
	sea level rise out to	the status at quarterly	suitable WASH facilities.	and mitigation
	2050 under RCP2.6,	risk meetings.	The availability of water	strategies are
	4.5 & 8.5 scenarios.		is a key component of	developed across the
		Our hydrocarbon	upholding this	business, from asset
	Through supplier	production assets that	commitment. If this was	to enterprise level.
	segmentation	discharge into the	to change, for example	Business unit and
	Centrica has	marine environment	if the water supply was	functional level risk
	identified critical	must consider the	disrupted at an office,	registers are regularly
	suppliers exposed to	local ecosystems and	employees would be	reviewed by senior
	various risks	habitats they interact	informed through	management. Each
	including climate	with. These	automated text	identified risk together
	change. We are	considerations are	messages and by	with related controls,
	engaging with these	included in EIA's	phone. Employees	are periodically
	suppliers to mitigate	where appropriate	would be moved to one	assessed and
	these risks by	and within permitting	of our work area	reported according to
	improving supply	requirements as well	recovery sites or told to	the Group Risk
	chain visibility;	as being subject to	work from home until	Management Policy,
	supplier governance;	ongoing assessments,	the issue was resolved.	Standards and
	and ongoing	reporting and		Guidelines; classified
	performance		Investors are factored	with defined scoring



monitoring. We	monitoring as	into Centrica's water risk	methodology and 'out-
undertake regular	required.	assessment because	of-appetite' criteria.
reviews of supplier		any change in future risk	
resilience capabilities		exposure, has the	
and provide support		potential to negatively	
when events occur		impact on revenue and	
that affect our		profitability alongside	
suppliers.		shareholder perception	
Suppliers are		towards the company.	
assessed using our		Any relevant updates	
internal supplier		would be shared with	
onboarding risk		investors through public	
management		announcements,	
process and we then		investor meetings and	
use a self-		reports or capital market	
assessment tool,		days.	
provided by		Where a facility uses or	
EcoVadis, to assess		consumes significant	
water-related risks		volumes of fresh water,	
against sector		other stakeholders such	
appropriate criteria.		as local communities	
Through these		will, if applicable, be	
methods, a large		engaged to discuss	
proportion of		issues through local	
suppliers are		town hall meetings.	
assessed on their			
water-related			
activities but we			
cannot guarantee full			
coverage.			

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 related to, or influenced by, climate change are assessed alongside other business risks. A substantive financial or strategic impact on our business is defined through our Risk Assessment Criteria.

In the Risk Assessment Criteria, risks are assessed using potential impact severity alongside the likelihood of materialisation. A 1-5 impact and 1-5 likelihood scale is used, with the overall risk rating (1-25) being the product of impact multiplied by likelihood. The impact score is derived using several criteria including Financial impact.

Financial impact is scored on a scale of 1-5 from negligible to severe and is normally derived through consideration of lifetime or in-year operating cash flow impact. A substantive financial impact on 'in-year operating cashflow' is defined as severity level 4 'Significant' (\pounds 40–60m) and severity level 5 'Severe' (> \pounds 60m).

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	Centrica is not currently exposed to substantive water-related risks. This is primarily because an immaterial proportion of our water withdrawals are in water-stressed areas, assessed using the WRI Aqueduct Water Risk Atlas tool. Using the water stress overlay, Easington gas terminal and Glanford Brigg power station are classified as 'low to medium' risk. We do not consider the water-related risks posed by these assets as substantive due to their water demand accounting for less than 1% of our total water withdrawals. The most significant risk we are exposed to is the availability of water for cooling requirements at our gas production assets, for which the supply of large volumes of water is important. All of our cooling water is abstracted from the open seas, which are sources associated with low risks regarding quantity and quality. Moreover, more than 99% of water we withdraw is used rather than consumed, as it is returned to the same area from which it was withdrawn within the same cycle period, further reducing the risks of supply interruption. This can also be demonstrated by our TCFD physical risk scenario analysis assessment for UK power assets which indicates that flood risk and water availability risk is immaterial across our sites, although this and other risks are still reviewed at quarterly risk relates to the cost of water to our business. However, this is currently immaterial when compared with other commodity costs such as gas, but nevertheless we review the risk annually. Looking ahead, we do not foresee material tightening of relevant regulations and our risk profile is falling as we reduce our involvement in large-scale power generation and oil & gas operations.



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	Risks exist, but	Gas and power sales are the most important components in our supply
1	no substantive	chain, both of which are reliant to varying degrees on the availability of
	impact	water for their operations. As such, an inherent risk of water-related supply
	anticipated	interruption exists. This risk is however not substantive as we purposely
		procure power from multiple generators in the open market, while gas is
		purchased from various sources including international supply contracts.
		This flexibility reduces our exposure to water-related risks. Water related
		risks also exist in the supply chains of other services and products we
		procure. Identification of high-risk suppliers occur through our
		comprehensive supply chain risk management programme including the
		use of EcoVadis and, to date, no suppliers have been found to have
		substantive water-related risks. High risk and tier 0 suppliers are asked to
		complete an EcoVadis assessment every two years or when a contract is
		renewed, which enables us to re-evaluate risk and, where necessary,
		implement measures to reduce that risk.

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	Opportunities exist, but	Centrica defines substantive opportunities as one that provides a
1	none with potential to have	material basis for the corporation to grow or become more
	a substantive financial or	efficient.
	strategic impact on	Water is not material to the growth or cost saving opportunities for
	business	the business. We assess water opportunities using our annual
		water spend and its associated financial impact level in our risk
		matrix. With minimal water expenditure, our water spend has an
		impact rating of 1 (negligible). This means the cost of water is not
		currently significant enough to present substantive saving
		opportunities and we expect this to continue to decrease as we
		reduce our involvement in water-intensive assets. We have yet to
		identify major commercial, competitive, or other opportunities



related to water. While our approach to water-related biodiversity and habitat protection provides local engagement opportunities, these are not substantive as they do not provide a material basis for the corporation to grow or become more efficient. As detailed in W1.5e, we have formed a strategic partnership with Thames Water to engage with consumers on water-related issues through the provision of leakage finding and fixing services through our British Gas and Dyno Rod engineers, however the associated commercial opportunity is not yet deemed financially substantive. We hold an annual Board Planning Conference during which opportunities are examined including any related to water in new markets, potential investments, and technologies. Due diligence to assess commercial viability, market landscapes and future regulation is then conducted before strategies are presented to the Executive team who meet monthly. Opportunities to reduce office water consumption have been found and implemented across Centrica offices, for example, waterless urinals have been installed across many of our offices, as well as infrared toilet cubicles and Dyson taps which automate water use. However, as water is not a material consideration at Centrica, this opportunity did not have a substantive financial or strategic impact on the business, nor do any other 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	RowCompany- wideCommitment to align with international frameworks, standards, 		Our Group HSES policy includes a key commitment to protect the environment and the efficient use and effective management of resources, such as water, as well as set measurable objectives and targets in
			business plans to enhance HSE performance. This policy is expected to be fulfilled by all Business Units within Centrica. However, we do not include



	Reference to company	performance standards for direct operations as this level
	water-related targets	of detail is contained within Business Unit standards
		and procedures.

W6.2

(W6.2) Is there board level oversight of water-related issues within your organization? $$_{\mbox{Yes}}$$

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
Chief Executive Officer (CEO)	The Chief Executive has board responsibility of water-related issues as they are responsible for the Group HSES Policy, which embodies our highest-level water-related commitments. In 2022, the Chief Executive attended the Board Safety, Environment and Sustainability Committee (SESC). The Committee discusses environmental matters, including water-related issues, as required. The CEO chaired the Centrica Leadership Team (CLT) meetings that would cover operational environmental performance in more detail on at least a quarterly basis. Major water-related incidents are reported within 24 hours to the Chief Executive.

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	Scheduled - some meetings	Monitoring implementation and performance Reviewing and guiding business plans Reviewing and guiding corporate responsibility strategy Reviewing and guiding major plans of action	The SESC has oversight of environmental matters including water and meets 3 times annually. The committee's duties include reviewing the adequacy and effectiveness of the Company's internal controls and risk management systems in respect of, amongst other things, environmental matters including water. Each meeting will have a standing agenda item, on significant HSE incidents which will include water related issues, as appropriate. A deeper review of environmental performance, which may include water related performance matters, is undertaken annually as presented by the Group Head of Environment. Water performance data is



	Reviewing and	captured through our global reporting tool
	guiding risk	'MyHSES', approved by the relevant business unit
	management policies	leadership team and presented at the committee by
	Reviewing and	the Group Head of Environment when appropriate.
	guiding strategy	

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 and its committees have a range of skills, experience, and knowledge relevant to Centrica and its markets. We assess Board skills and expertise using a Skills Matrix covering 11 core skills criteria one of which is Climate Change and Sustainability. The specifics of this criteria have been developed with reference to Chapter Zero's guidelines including a requirement for deep experience on climate change but also the wider environmental issues or implications, of which water-related issues are prominent. The chair of our Board Safety, Environment and Sustainability Committee (SESC) is the current Chief Executive Officer of a leading UK water utility group, ensuring we have sufficient board level competence on water related issues.

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)

Chief Executive Officer (CEO)

Water-related responsibilities of this position

Assessing water-related risks and opportunities Managing water-related risks and opportunities

Frequency of reporting to the board on water-related issues

Quarterly

Please explain

The Chief Executive has responsibility for the Group HSES Policy and has overall responsibility for water-related performance. The Centrica Leadership Team review



operational environmental performance at least quarterly during designated meetings. Major water-related incidents are reported within 24 hours to the Chief Executive.

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, and we do not plan to introduce them in the next two years	Water related issues are not a material risk for Centrica and hence we do not provide incentives for management in this area.		

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?

No

W6.6

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

No, and we have no plans to do so

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	No, water-related issues were reviewed but not considered as strategically relevant/significant	16-20	In 2015 our Board undertook a major strategic review resulting in a fundamental transformation of Centrica with new long-term business objectives; moving the company from a large-scale carbon-intensive asset-based business towards a customer focussed energy services and supply model and development of transition assets. This strategy is based on a world moving towards a low carbon future that



			Centrica are contributing to through the establishment of British Gas Zero within British Gas which we believe will play a significant role in de-carbonising the energy sector. Building on progress made under our Responsible Business Ambitions, we introduced our People & Planet Plan in 2021 and afterwards published our Climate Transition Plan, which sets out our long-term commitments towards helping our customers be net zero by 2050, (28% carbon intensity reduction by 2030) and being a net zero business by 2045 (40% reduction by 2034). Water related issues were considered only insofar as they impact upon our target markets, products and services we aim to offer and capital investment we intend to make. As we transform Centrica, our exposure to water related issues such as access to freshwater is significantly reducing, particularly as we reduce our ownership of water intensive assets so investigating beyond 20 years would be
Strategy for achieving long-term objectives	No, water-related issues were reviewed but not considered as strategically relevant/significant	16-20	immaterial to our objectives. The Board and the Executive have dedicated meetings each year to review and develop strategy. In line with our business objectives, externalities are assessed including market, competitive, technology, regulatory and policy aspects primarily related to energy markets. Water related issues are only considered insofar that they influence energy markets. An example is when we review the individual aspects of energy markets within member EU states. Those with a significant and/or increasing hydroelectric sector are likely to have less attractive markets for low-carbon energy solutions compared with a member state with a largely fossil-fuel based system. Conversely, there may be opportunities for our route to market services for hydroelectric power generators. This will all be assessed through our long-term strategic business planning, however beyond 20 years, the degree of uncertainty undermines the quality of the assessment. To date, no strategically



			significant water related issues have been identified within our target markets.
Financial planning	No, water-related issues were reviewed but not considered as strategically relevant/significant	16-20	Our financial planning and capital allocation are not significantly influenced by water related issues over the long term so investigating beyond 20 years would be immaterial to our objectives. Water commodity costs are not significant for our business and reducing further as we transform. We have invested £1bn into growth businesses which are not associated with significant water risks or impacts.

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)

-35

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

5

Please explain

OPEX:

Our OPEX includes the cost associated with water abstraction, discharge permits and also from withdrawal and discharge costs associated with municipal water supplies. Our OPEX decreased in 2022 due a number of offices closing and a reduction in engine runtime at Glanford Brigg power station, both contributing to a reduction in municipal water supply. Going forward, total OPEX is anticipated to slightly increase as we bring online a number of projects over the next two years such as our peaking plants in Redditch, UK and in Athlone and Dublin in Ireland which will all require municipal water supply.

CAPEX:

This year's water-related CAPEX has remained at 0 as we haven't had any specific water-related project expenditure and we do not anticipate there to be any in 2023.



W7.3

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

	Use of scenario analysis	Comment
Rc 1	w Yes	We have completed a detailed analysis of our primary business, located in the UK and Ireland, against several scenarios ranging from 1.5 to 4 degrees. We used a number of third-party reference scenarios including National Grid's Future Energy Scenarios for transitional risks and opportunities, and the IPCC Representative Concentration Pathways for physical risks and opportunities. This analysis has provided valuable insights into the range of risks and impacts associated with climate change and the energy transition on Centrica's core businesses whilst also highlighting the significant opportunities and potential growth areas that Centrica is already engaged in through its current strategy.

W7.3a

(W7.3a) Provide details of the scenario analysis, what water-related outcomes were identified, and how they have influenced your organization's business strategy.

	Type of scenario analysis used	Parameters, assumptions, analytical choices	Description of possible water-related outcomes	Influence on business strategy
Row 1	Climate- related	We used the WRI Aqueduct tool to assess flood risk that could lead to damage and operational difficulties for all our UK assets. We performed this analysis under RCP4.5 and RCP8.5 scenarios, using asset value as a financial indicator to calculate overall risk impact. We also used the UK Met Office UKCP18 Marine Projections to assess risk of sea level rise which could affect our coastal assets through inundation. We performed this analysis under RCP2.6, RCP4.5 & RCP8.5 scenarios, using asset value as a financial indicator to calculate overall risk impact.	No material risks were identified through this analysis as under all scenarios and asset locations, flood risk magnitude and sea level rise does not exceed current site elevations. As we continue to reduce our portfolio of large- scale energy assets, our risk exposure in this area is materially reducing.	As no material risks were identified, the analysis has had no influence on our business strategy.



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

We do not have an internal price on water as it does not pose a material strategic or financial risk and we do not operate in any water constrained areas and our discharges are well regulated in the jurisdictions in which we work.

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	Power generating assets that use less water per unit of energy produced are considered 'low water impact' relative to traditional power generating assets.	Our power generation and gas production assets have the most material water impact as cooling and produced water represent 99% of the total water we withdraw. They are also suppliers of our core commodities, gas, and electricity. As such, they have the greatest opportunity for low water impact development.
		We consider water intensity reductions over 10% compared to previous power generation assets to have a lower water impact.	In recent years we have continued to close or divest our most water intensive OCGT and CCGT power stations and have moved to reciprocating gas engines that do not require water. As a result, they have a much lower water intensity (water used /MWh of electricity generated).
			An example of where we have moved towards lower water impact assets is through the closure of the water-cooled Brigg and Peterborough OCGT power station that ceased operations in 2020 and 2021 respectively. We now only operate air- cooled gas engines on site at Brigg and our gas engines currently in development in Redditch in



	Worcestershire and Athlone and Dublin in Ireland
	are also air-cooled.

W8. Targets

W8.1

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

Yes

W8.1a

(W8.1a) Indicate whether you have targets relating to water pollution, water withdrawals, WASH, or other water-related categories.

	Target set in this category	Please explain
Water pollution	No, and we do not plan to within the next two years	We have a company-wide goal of compliance with all legal and regulatory requirements. This is detailed in our global HSE policy, global HSE Standard and as a part of our company code. For example, in order to obtain operational permits, an Environmental Impact Assessment must be completed to identify potential water pollutants that could have a detrimental impact on water ecosystems or human health. In these cases, our goal is to ensure ongoing compliance with those limits rather than setting absolute reduction targets.
Water withdrawals	Yes	
Water, Sanitation, and Hygiene (WASH) services	No, and we do not plan to within the next two years	As part of our duty of care to our people and through our Health, Safety and Environment assurance activities, we ensure and verify that all employees have access to WASH services at their normal place of work. Since this is something we continuously upkeep, we do not set quantitative targets.
Other	No, and we do not plan to within the next two years	We currently have no other water-related targets and do not plan to have any within the next two years.

W8.1b

(W8.1b) Provide details of your water-related targets and the progress made.

Target reference number Target 1 Centrica CDP Water Security Questionnaire 2023 Thursday, August 3, 2023



Category of target Water withdrawals

Target coverage Business division

Quantitative metric

Reduction in total water withdrawals

Year target was set 2021

Base year 2021

Base year figure 13,304

Target year 2022

Target year figure 15,966

Reporting year figure

15,009

% of target achieved relative to base year 64.0495867769

Target status in reporting year Achieved

Please explain

Our water-related target in 2022 was for our Group Property function (all UK offices across the Group) to have increased water withdrawals (measured in m3) by no more than 20% compared to 2021 levels. A water withdrawal reduction target for our offices was unrealistic as consumption in 2021 was far lower than usual due to a high proportion of employees working from home compared to before the COVID-19 lockdowns while 2022 office occupancy, and therefore water withdrawals, began to resemble pre-pandemic levels. This target was put in place to ensure our Group Property function was held accountable for monitoring and reacting to any unexpected withdrawal patterns throughout the year which proved successful as although reducing water withdrawals was not possible, we surpassed the target by capping our water withdrawals at a 13% increase compared to 2021, 7% lower than the target (with lower than the target being an indication of success). Moreover, UK office water withdrawal has fallen 77% overall when compared with 2019, the most recent full year when officeoccupancy levels were high and therefore more comparable with 2022 levels. This demonstrates our continued commitment to limiting our water-related impact across our offices.



W9. Verification

W9.1

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

No, we do not currently verify any other water information reported in our CDP disclosure

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 – but we plan to within the next two years	We have a company-wide goal of compliance with all legal and regulatory requirements. This is detailed in our global HSE policy, global HSE Standard and as a part of our company code. Up until this year we have not been mandated to map plastic use (we do not produce plastics) in our value chain however as part of our work to comply with extended producer responsibility (EPR) for packaging, this year we are actively working to implement reporting processes that collect plastic packaging use data from across the business. This will facilitate an overall mapping of where in the business plastics are used and disposed of.

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	Not assessed – and we	All of our operations presently meet all legal and regulatory
1	do not plan to within	requirements on plastic use however we do not have the capabilities
	the next two years	to be able to assess the environmental and human health impacts of
		the plastics we use to package our products across our entire value
		chain.

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
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Row	Not assessed –	We classify a substantive financial or strategic impact to be one that has
1	and we do not plan	a material impact on the company's ability to grow or become more
	to within the next	efficient and we do not classify plastic-related risks to have such an
	two years	impact. Due to the immateriality of plastic-related risks on our finances
		and strategy we therefore do not plan to undertake future risk
		assessments within the next two years.

W10.4

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

	Targets in place	Target type	Target metric	Please explain
Row 1	Yes	Waste management	Increase the proportion of recyclable plastic waste that we collect, sort, and recycle	Although we have no specific reduction target for plastic-use, our recycling targets are plastics- related. We strive to increase the waste recycling rate in our offices and meet the annual targets we set ourselves. With goods made of plastics being recyclable and widely used in offices, ensuring they are properly collected, sorted and disposed of is an important component of our recycling targets. These targets include a 70% UK office recycling rate, maintaining zero waste to landfill and a 90% recycling rate at our distribution centres.

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)	Yes	

W10.8

(W10.8) Provide the total weight of plastic packaging sold and/or used, and indicate the raw material content.



	Total weight of plastic packaging sold / used during the reporting year (Metric tonnes)	Raw material content percentages available to report	Please explain
Plastic packaging used		None	We are actively working to implement reporting processes that will collect data on the total plastic packaging used in our operations as part of our efforts to comply with the upcoming extended producer responsibility (EPR) measures. To date we have not been mandated to report our plastic packaging use and have therefore not done so with there being a lack of material plastics-related risks and opportunities for our business (hence why the total weight of plastic packaging sold/used during the reporting year is reported as '-', to indicate that this figure is unknown as we do not have the reporting processes in place to capture this data and submit a figure within this disclosure). Therefore, measuring and reporting on our plastic packaging usage has historically not been a strategic priority for our relevant business areas.

W10.8a

(W10.8a) Indicate the circularity potential of the plastic packaging you sold and/or used.

	Percentages available to report for circularity potential	Please explain
Plastic packaging used	None	We are actively working to implement reporting processes that will collect data on the total and type of plastic packaging used in our operations as part of our efforts to comply with the upcoming extended producer responsibility (EPR) measures. To date we have not been mandated to report our plastic packaging use or the type of packaging used. Additionally, with there being a lack of material plastics-related risks and opportunities for our business, measuring and reporting on our plastic packaging usage has historically not been a strategic priority for our relevant business areas.



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.

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 Executive Officer	Chief Executive Officer (CEO)

SW. Supply chain module

SW0.1

(SW0.1) What is your organization's annual revenue for the reporting period?

	Annual revenue
Row 1	

SW1.1

(SW1.1) Could any of your facilities reported in W5.1 have an impact on a requesting CDP supply chain member?

SW1.2

(SW1.2) Are you able to provide geolocation data for your facilities?

	Are you able to provide geolocation data for your facilities?	Comment
Row 1		

SW2.1

(SW2.1) Please propose any mutually beneficial water-related projects you could collaborate on with specific CDP supply chain members.



SW2.2

(SW2.2) Have any water projects been implemented due to CDP supply chain member engagement?

SW3.1

(SW3.1) Provide any available water intensity values for your organization's products or services.

Submit your response

In which language are you submitting your response?

English

Please confirm how your response should be handled by CDP

	I understand that my response will be shared with all requesting stakeholders	Response permission
Please select your submission options	Yes	Public

Please indicate your consent for CDP to share contact details with the Pacific Institute to support content for its Water Action Hub website.

Please confirm below

I have read and accept the applicable Terms