



Based in Milwaukee, Wisconsin, WEC Energy Group is one of the nation's premier energy holding companies, with subsidiaries serving energy customers in Wisconsin, Illinois, Minnesota and Michigan.

At WEC Energy Group, we embrace our responsibility to provide safe, reliable and affordable energy in an environmentally sustainable manner. We set our strategies and run our operations with an emphasis on continuous improvement and a vision to deliver a cleaner energy future.

As we make progress on our environmental efforts, we provide information to a number of environmental, social and governance organizations and ratings firms to continually enhance transparency and encourage dialogue with stakeholders.

We have disclosed information regarding our operations and climate-related risks and opportunities to CDP for more than a decade.

Our responses in this report contain forward-looking information. For cautionary statements regarding forward-looking information, please go to <http://www.wecenergygroup.com/home/terms.htm>.

# Welcome to your CDP Water Security Questionnaire 2020

## W0. Introduction

### W0.1

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

We were incorporated in the state of Wisconsin in 1981 and became a diversified holding company in 1986. We maintain our principal executive offices in Milwaukee, Wisconsin. Our wholly owned utility subsidiaries provide regulated natural gas and electricity to customers in Wisconsin, Illinois, Michigan and Minnesota. We also have non-utility energy infrastructure operations that, among other things, hold majority ownership interests in several wind generating facilities. In addition, we own an approximate 60% equity interest in American Transmission Co. (an electric transmission company operating in Illinois, Michigan, Minnesota and Wisconsin) and an approximate 75% equity interest in ATC Holdco LLC, a separate entity formed to invest in transmission-related projects outside of American Transmission Co.'s traditional footprint.

Wisconsin Electric Power Co., which is the largest electric utility in the state of Wisconsin, generates and distributes electric energy to customers located in southeastern Wisconsin (including the metropolitan Milwaukee area), east central Wisconsin, and northern Wisconsin. Wisconsin Public Service Corp. generates and distributes electric energy to customers located in northeastern Wisconsin. Effective January 1, 2017, Wisconsin Electric and Wisconsin Public Service transferred their electric customers (other than an iron ore mine which transferred effective April 1, 2019), electric distribution assets, natural gas customers and natural gas distribution assets located in the Upper Peninsula of Michigan to Upper Michigan Energy Resources Corp., a stand-alone utility owned by WEC Energy Group.

We own the largest natural gas distribution utilities in Wisconsin (Wisconsin Electric, Wisconsin Public Service and Wisconsin Gas LLC), and we operate throughout the state, including the city of Milwaukee and surrounding areas, northeastern Wisconsin, and large areas of both central and western Wisconsin. In addition, Wisconsin Electric has a steam utility that generates, distributes and sells steam to customers in metropolitan Milwaukee for use in processing, space heating, domestic hot water and humidification. Our Illinois natural gas utilities, The Peoples Gas Light and Coke Co. and North Shore Gas Co., serve customers in Chicago and the northern suburbs of Chicago, respectively. Our other natural gas utilities include Minnesota Energy Resources Corp., serving customers in various cities and communities throughout Minnesota, and Michigan Gas Utilities Corp., serving customers in the southern portion of lower Michigan. Upper Michigan Energy Resources serves natural gas customers in the Upper Peninsula of Michigan. Our non-utility operations include W.E. Power LLC, which designed and built certain electric generating units that it now leases to Wisconsin Electric; Bluewater Natural Gas Holding LLC, which owns natural gas storage facilities in Michigan that provide approximately one-third of the current storage needs for our Wisconsin natural gas utilities; WEC Infrastructure LLC, which holds majority ownership interests in non-utility wind generating

facilities; Wispark LLC, which develops and invests in real estate; and WPS Power Development LLC, which owns non-regulated solar projects.

## W-EU0.1a

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

- Electricity generation
- Distribution

## 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	3,860	45.7	16,501
Lignite	0	0	0
Oil	0	0	0
Gas	3,854	45.7	13,559
Biomass	58	0.7	99
Waste (non-biomass)	0	0	0
Nuclear	0	0	0
Fossil-fuel plants fitted with carbon capture and storage	0	0	0
Geothermal	0	0	0
Hydropower	174	2	787
Wind	498	5.9	1,136
Solar	0	0	0
Marine	0	0	0
Other renewable	0	0	0
Other non-renewable	0	0	0
Total	8,444	100	32,082

## 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, 2019	December 31, 2019

### W0.3

**(W0.3) Select the countries/areas for which you will be supplying data.**

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.**

Other, please specify

Equity share of consolidated companies

### W0.6

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

No

## 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	Vital	Important	Our power plant operations use open cycle cooling or wet cooling tower systems that withdraw from intake structures from nearby freshwater sources.
Sufficient amounts of recycled, brackish and/or produced water available for use	Important	Important	Our Fox Energy Center beneficially reuses treated effluent to supply its process water and cooling water needs. The beneficial reuse of treated effluent results in a net reduction in the quantity of pollutants that would otherwise be discharged, resulting in a net benefit to the public and the aquatic environment in the Fox River.

## W1.2

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

	% of sites/facilities/operations	Please explain
Water withdrawals – total volumes	100%	Done as required by regulations and/or permits.
Water withdrawals – volumes by source	100%	Done as required by regulations and/or permits.
Water withdrawals quality	100%	Done as required by regulations and/or permits.
Water discharges – total volumes	100%	Done as required by regulations and/or permits.
Water discharges – volumes by destination	100%	Done as required by regulations and/or permits.
Water discharges – volumes by treatment method	100%	Done as required by regulations and/or permits.
Water discharge quality – by standard effluent parameters	100%	Done as required by regulations and/or permits.
Water discharge quality – temperature	100%	Done as required by regulations and/or permits.
Water consumption – total volume	100%	Done as required by regulations and/or permits.
Water recycled/reused	100%	Done as required by regulations and/or permits.
The provision of fully-functioning, safely managed WASH services to all workers	100%	Provided to all employees at all company 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%	Required by hydropower facility FERC licenses.
Sediment loading	Not monitored	Not a FERC license requirement.
Other, please specify	Not relevant	No other water aspects are

		regularly measured and monitored.
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## W1.2b

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

	Volume (megaliters/year)	Comparison with previous reporting year	Please explain
Total withdrawals	3,142,200	Lower	Primarily due to unit retirements and decreased utilization of coal-fueled facilities.
Total discharges	3,127,900	Lower	Primarily due to unit retirements and decreased utilization of coal-fueled facilities.
Total consumption	14,300	Lower	Primarily due to retirement of Pleasant Prairie Power Plant that operated cooling towers that resulted in an evaporative water loss.

## W1.2d

**(W1.2d) Indicate whether water is withdrawn from areas with water stress and provide the proportion.**

	Withdrawals are from areas with water stress	Identification tool	Please explain
Row 1	No	Other, please specify There is not a specific identification tool; however, after reviewing state codes and online guidance, there are no water withdrawals from locations defined by the Wisconsin DNR as having water stress.	There is not a specific identification tool; however, after reviewing state codes and online guidance, there are no water withdrawals from locations defined by the Wisconsin DNR as having water stress.

## W1.2h

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

	Relevance	Volume (megaliters/year)	Comparison with previous reporting	Please explain
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			year	
Fresh surface water, including rainwater, water from wetlands, rivers, and lakes	Relevant	3,142,200	Lower	Our power plant operations rely on open cycle cooling or wet cooling tower systems that withdraw from intake structures on freshwater sources. Customarily, for plants with open cycle cooling systems, about 99.2% of water withdrawn for plant operations is returned to the source. (Note: All water used for cooling is returned, and there are evaporative losses of under 1.0% due to equipment such as wet flue gas desulfurization systems.) For facilities with cooling towers, about 25.0% of the water is returned to the source with the balance of the water loss going to the air during the evaporative cooling process.
Brackish surface water/Seawater	Not relevant			Our company does not withdraw from brackish surface water or seawater.
Groundwater – renewable	Relevant	1,000	About the same	Less than 1.0% of water withdrawal for plant operations is from groundwater sources.
Groundwater – non-renewable	Not relevant			Our company does not withdraw from non-renewable groundwater.
Produced/Entrained water	Not relevant			Our company does not withdraw from produced or entrained water.
Third party sources	Relevant	3,000	About the same	Fox Energy Center beneficially reuses treated effluent to supply its process water and cooling water needs.

## W1.2i

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

	Relevance	Volume (megaliters/year)	Comparison with previous reporting year	Please explain
Fresh surface water	Relevant	3,127,900	Lower	Most of our power plants operate open cycle cooling systems that withdraw from freshwater sources and return most of the water to the source. Customarily, for plants with open cycle cooling systems, about 99.2% of water withdrawn for plant operations is returned to the source. (Note: All water used for cooling is returned, and there are evaporative losses of under 1.0% due to equipment such as wet flue gas desulfurization systems.)
Brackish surface water/seawater	Not relevant			Our company does not discharge to brackish surface water or seawater.
Groundwater	Not relevant			Our company does not discharge to groundwater.
Third-party destinations	Relevant	1,000	About the same	Some power plants discharge a small percentage of the water withdrawn to a municipal treatment system.

## 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)	Numerator: water aspect	Denominator	Comparison with previous reporting year	Please explain
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0.45	Freshwater consumption	MWh	This is our first year of measurement	The water consumption rate is 0.45 cubic meters per MWh of gross electrical generation. This is based upon a total consumption rate of 14,300,000 cubic meters/year of water consumption and a gross electrical generation total of 32,082,000 MWh/year.
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## W1.4

### (W1.4) Do you engage with your value chain on water-related issues?

Yes, our suppliers

## W1.4a

### (W1.4a) What proportion of suppliers do you request to report on their water use, risks and/or management information and what proportion of your procurement spend does this represent?

#### Row 1

#### % of suppliers by number

1-25

#### % of total procurement spend

Unknown

#### Rationale for this coverage

The overarching reason for engagement is to improve our power generation operational efficiency.

#### Impact of the engagement and measures of success

The engagement for the Fox Energy Center is related to interacting with the Heart of the Valley municipal staff regarding treated wastewater quality, as this source is used to provide cooling and process water for our plant. The quality of the water delivered to Fox is important to us, as it affects how we operate and it can influence the means to meet environmental permit limits.

We engage with any company shipping products to us over the water. Water levels and time of year affect the efficiency and cost of delivery.

We also have vendors that provide products (e.g. water treatment chemicals at power plants) for improving our boiler water or cooling water chemistry. This engagement is done to optimize operational efficiency at our power plants.

#### Comment

## W1.4b

**(W1.4b) Provide details of any other water-related supplier engagement activity.**

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**Type of engagement**

No other supplier engagements

**Details of engagement**

**% of suppliers by number**

**% of total procurement spend**

**Rationale for the coverage of your engagement**

Supplier engagement described in response to W1.4a.

**Impact of the engagement and measures of success**

**Comment**

## 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?**

No

## W3. Procedures

### W-EU3.1

**(W-EU3.1) How does your organization identify and classify potential water pollutants associated with your business activities in the electric utilities sector that could have a detrimental impact on water ecosystems or human health?**

We identify a range of pollutant discharges from our electric generating facilities, including hydropower facilities, during permit application or Federal Energy Regulatory Commission (FERC) license renewal processes. We follow a classification system for potential water pollutants used by the Wisconsin Department of Natural Resources (DNR) in their water quality standards codes. The DNR classifications are established for: 1) protection of fish and aquatic life; 2) protection of human health, including carcinogenic substances; and 3) protection of wildlife from the effects of bioaccumulation in the aquatic environment.

### W-EU3.1a

**(W-EU3.1a) Describe how your organization minimizes the adverse impacts of potential water pollutants associated with your activities in the electric utilities sector on water ecosystems or human health.**

Potential water pollutant	Description of water pollutant and potential impacts	Management procedures	Please explain
Thermal pollution	Heat addition to the Great Lakes and tributaries	Other, please specify Cooling towers and discharge diffusers. Working with regulatory agency staff and community/stakeholder engagement	Studies conducted between the mid-1970s through 2019 have been used to demonstrate that existing technologies are protective and to establish operating limits for each facility.
Other, please specify Trace metals, total suspended solids and phosphorus	Potential for trace metals, total suspended solids and/or phosphorus to exceed water quality standards in the Great Lakes and tributaries.	Compliance with effluent quality standards Measures to prevent spillage, leaching, and leakages Community/stakeholder engagement Emergency preparedness Other, please specify Water treatment equipment	All discharges at electric generating facilities are monitored for a large range of substances and evaluated to help ensure management procedures are effective.

### 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.**

Direct operations

**Coverage**

Full

**Risk assessment procedure**

Water risks are assessed in an environmental risk assessment

**Frequency of assessment**

Not defined

**How far into the future are risks considered?**

More than 6 years

**Type of tools and methods used**

Other

**Tools and methods used**

Internal company methods

**Comment**

Prior to siting or expanding any electrical generating facility, including hydropower facilities, the company fully evaluates the quantity and quality of groundwater and surface water resources to ensure there will not be detrimental effects on water ecosystems and resources. Water-resource-related risks are also evaluated in advance of the construction of all natural gas and electric distribution infrastructure. Also, water-related risks are evaluated at all electric generating stations during each five-year water discharge permit renewal process.

**Supply chain**

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**Coverage**

Full

**Risk assessment procedure**

Water risks are assessed as a standalone issue

**Frequency of assessment**

Not defined

**How far into the future are risks considered?**

More than 6 years

**Type of tools and methods used**

Other

**Tools and methods used**

Internal company methods

Other, please specify

Safety Data Sheets; online approval process

**Comment**

All products that require Safety Data Sheets (SDS) are evaluated to ensure use will not cause water-related risks. This is a formal online approval process used within our electric utilities.

### Other stages of the value chain

#### Coverage

Full

#### Risk assessment procedure

Other, please specify

Legal, regulatory and policy evaluation

#### Frequency of assessment

Not defined

#### How far into the future are risks considered?

More than 6 years

#### Type of tools and methods used

Other

#### Tools and methods used

Internal company methods

#### Comment

Corporate Environmental department tracks all relevant new or modified water laws, regulations and policies to ensure the company meets all current requirements.

## W3.3b

**(W3.3b) Which of the following contextual issues are considered in your organization's water-related risk assessments?**

	Relevance & inclusion	Please explain
Water availability at a basin/catchment level	Relevant, always included	Studies done during siting assessments and for ongoing operations to evaluate water availability and quality at a basin/catchment level.
Water quality at a basin/catchment level	Relevant, always included	Studies done during siting assessments and for ongoing operations to evaluate water availability and quality at a basin/catchment level.
Stakeholder conflicts concerning water resources at a basin/catchment level	Relevant, always included	Stakeholder conflicts are resolved during public meetings held in advance of, and during, any facility permitting processes.
Implications of water on your key commodities/raw materials	Relevant, always included	Studies are done to evaluate implications of water availability and quality in cases where multiple sites are being evaluated for a company project.

Water-related regulatory frameworks	Relevant, always included	Studies done during siting assessments and for ongoing operations to evaluate water availability and quality at a basin/catchment level.
Status of ecosystems and habitats	Relevant, always included	Studies done during siting assessments and for ongoing operations to evaluate water availability and quality at a basin/catchment level.
Access to fully-functioning, safely managed WASH services for all employees	Relevant, always included	Our facilities are all in the U.S., and it is standard practice to provide access to fully functioning, safely managed WASH services for all employees.
Other contextual issues, please specify	Relevant, always included	Navigation access to allow for barge and ship docking adjacent to coal-fueled power generating facilities.

### W3.3c

**(W3.3c) Which of the following stakeholders are considered in your organization’s water-related risk assessments?**

	Relevance & inclusion	Please explain
Customers	Relevant, always included	All stakeholders are engaged in siting of electrical generating station projects and during the water permit renewals every five years.
Employees	Relevant, always included	All stakeholders are engaged in siting of electrical generating station projects and during the water permit renewals every five years.
Investors	Not relevant, explanation provided	Investors are not engaged in water-related risk assessments.
Local communities	Relevant, always included	All stakeholders are engaged in siting of electrical generating station projects and during the water permit renewals every five years.
NGOs	Relevant, always included	All stakeholders are engaged in siting of electrical generating station projects and during the water permit renewals every five years.
Other water users at a basin/catchment level	Relevant, always included	All stakeholders are engaged in siting of electrical generating station projects and during the water permit renewals every five years.
Regulators	Relevant, always included	All stakeholders are engaged in siting of electrical generating station projects and during the water permit renewals every five years.
River basin	Relevant, always	All stakeholders are engaged in siting of electrical

management authorities	included	generating station projects and during the water permit renewals every five years.
Statutory special interest groups at a local level	Relevant, always included	All stakeholders are engaged in siting of electrical generating station projects and during the water permit renewals every five years.
Suppliers	Not relevant, explanation provided	Equipment suppliers and technical consultants are engaged, as needed, in siting of electrical generating station projects and during the water permit renewals every five years.
Water utilities at a local level	Relevant, always included	All stakeholders are engaged in siting of electrical generating station projects and during the water permit renewals every five years.
Other stakeholder, please specify	Relevant, always included	All stakeholders are engaged in siting of electrical generating station projects and during the water permit renewals every five years.

### W3.3d

**(W3.3d) 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.**

Our process is largely designed around the Clean Water Act, Water Resources Development Act and related state laws that govern regulatory programs in the Great Lakes region. These federal and state programs are designed around risk-based approaches to regulating water quality and quantity. These programs have been identified and assessed by our Environmental Department staff. Our response is to develop internal programs and procedures to manage these water-related risks when siting new facilities and when operating existing facilities.

## 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?**

There are not constraints on our operations related to water use due to our Great Lakes basin and Mississippi River basin operating locations. Therefore, we have not developed unique metrics to define substantive impact to our business, operations, revenue or expenditure from water risk.

## 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	Our electrical generating facilities are all located in an area of the U.S. without water shortages, including the Great Lakes and Mississippi River basin. Our largest baseload facilities are located on Lake Michigan and the Wisconsin River. There are limited and infrequent risks, such as high (flooding risk) or low water levels (commercial shipping) that can impact our facilities. To minimize risks, our facilities water utilization rates are based upon what we demonstrate to our regulatory agencies as being essential for our electrical generating facility operations and have contingency plans for times when water levels may affect operations. We also work with our regulatory agency staff to ensure compliance with all existing and anticipated future water regulations.

## 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	Risks exist, but no substantive impact anticipated	There are limited and infrequent risks, specifically due to high (flooding risk) or low water levels (commercial shipping risks, including rail delivery) that can impact our facilities. Either of these risks may affect our ability to secure purchases of fuel (e.g. coal) and bulk materials (e.g., limestone). These materials are shipped via vessels that move through the Great Lakes. Most bulk materials shipped to our facilities arrive via rail or truck delivery, and flooding of major waterways such as the Mississippi River can cause bridges or tunnels to become impassable, thereby disrupting the supply 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?**

Yes, we have identified opportunities, and some/all are being realized

### W4.3a

**(W4.3a) Provide details of opportunities currently being realized that could have a substantive financial or strategic impact on your business.**



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**Type of opportunity**

Efficiency

**Primary water-related opportunity**

Improved water efficiency in operations

**Company-specific description & strategy to realize opportunity**

Due to our Great Lakes basin and Mississippi River basin locations, many of our generating stations utilize open-cycle cooling. All of the water used for open-cycle cooling is returned to the water body. Among options for power plant cooling, our open-cycle systems are the most efficient technology choice. Therefore, this form of cooling maximizes plant efficiency and affords lower carbon emissions per unit of electrical generation compared to any other cooling technology options.

**Estimated timeframe for realization**

Current - up to 1 year

**Magnitude of potential financial impact**

Medium

**Are you able to provide a potential financial impact figure?**

No, we do not have this figure

**Potential financial impact figure (currency)**

**Potential financial impact figure – minimum (currency)**

**Potential financial impact figure – maximum (currency)**

**Explanation of financial impact**

The company has invested in advanced cooling water intake structure technologies and analyzed cooling water thermal discharges. We have received long-term government agency approvals for these systems that will be operable for well beyond six years. A quantitative estimate of the inherent financial impacts of the opportunity is not currently available.

## 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	Commitment to stakeholder awareness and education Commitment to water stewardship and/or collective action	Our environmental policy reflects our commitment to stewardship by protecting properties entrusted to our management; mitigating the environmental impact of our operations; and supporting local communities through stewardship efforts. We also engage with customers and other stakeholders to keep them informed and encourage their feedback.

## 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	Please explain
Other, please specify Board of individuals/sub-set of board	Briefings occur via quarterly environmental report to Audit and Oversight Committee of board of directors

### 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 Overseeing major capital expenditures Reviewing and guiding risk management policies	The board, on its own or through one or more committees, monitors implementation and performance; oversees and approves major capital expenditures; and reviews and guides risk management policies and practices.

		Reviewing innovation/R&D priorities Setting performance objectives	
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### 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 C-Suite Officer, please specify  
 Senior executive vice president

**Responsibility**

Both assessing and managing water-related risks and opportunities

**Frequency of reporting to the board on water-related issues**

Quarterly

**Please explain**

To review, as needed, federal, state and local water-related issues that may affect the operations of our facilities and/or be of concern to government agency staff or other stakeholders.

### 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	Our electrical generating facilities are all located in an area of the U.S. without water stress or shortages, including the Great Lakes and Mississippi River basin. Our largest baseload facilities are located on Lake Michigan and the Wisconsin River. Because of this, there isn't a meaningful water-related metric to implement as an incentive for C-suite employees.

### 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, direct engagement with policy makers
- Yes, trade associations

Yes, funding research organizations  
 Yes, other

## 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?

WEC Energy Group is routinely engaged in water policy review, development and modification with federal and state agencies, such as USEPA, FERC, U.S. Fish and Wildlife Service, U.S. Army Corps of Engineers, WI Dept of Natural Resources, MI Dept of Natural Resources and MI Dept of Environment, Great Lakes and Energy. The company also is engaged in water policy evaluation, research and funding with trade and other nongovernment organizations such as the Electric Power Research Institute (EPRI), National Hydropower Association, Midwest Hydro Users Group, MI Manufacturers Association, MI Hydro Licensing Coalition, and River Alliance of WI. Company interactions are vetted through environmental, regulatory and operations business support teams. Established processes include procedural-based review and/or comment on policy and regulatory documents, participation at policy-based stakeholder meetings, active committee and board appointments in trade organizations, and attendance at trade and industry research meetings.

WEC Energy Group commented on the U.S. EPA's Effluent Limitation Guidelines program, which establishes wastewater treatment requirements for steam electric power plants. The company has financially supported EPRI research and hosted a pilot study site to test an emerging technology to remove selenium, nitrogen compounds and mercury from power plant scrubber discharges. This technology uses an advanced biological metals removal process to improve discharge water quality.

## 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)

## 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	Yes, water-	> 30	Water resource considerations are factored into location

business objectives	related issues are integrated		planning for new operations and site expansions, impacting the types of facilities that can be considered.
Strategy for achieving long-term objectives	Yes, water-related issues are integrated	> 30	Water resource considerations are factored into location planning for new operations and site expansions.
Financial planning	Yes, water-related issues are integrated	> 30	Proximity to water resources is one of the most important siting criteria used for power plant location planning for new operations and site expansions. Availability of water affects choices of cooling and other systems and technologies. Also, waterfront access can facilitate ship and barge delivery of fuel and other bulk materials needed for power plant operations, impacting costs.

## 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)**

250

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

680

**Water-related OPEX (+/- % change)**

0

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

0

**Please explain**

CAPEX is attributable to planned upgrades for wastewater treatment equipment that will improve discharge water quality at coal-fueled electrical generating facilities.

While there is not a calculated value that identifies OPEX at our utilities attributable to just water-related spending, water-related OPEX did decrease in 2019 and 2020 due to the retirements of coal-fueled facilities.

The trend of decreases in OPEX is expected to change in mid-2021 as new wastewater treatment upgrades are added between 2020 and 2023. The increased OPEX related to the increased CAPEX spending identified above is projected to begin mid-2021 and later.

## W7.3

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

	Use of climate-related scenario analysis	Comment
Row 1	Yes	Our use of climate-related scenario analysis is explained in our response to the climate change questionnaire.

## W7.3a

**(W7.3a) Has your organization identified any water-related outcomes from your climate-related scenario analysis?**

No

## 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**

Due to the very low business risk from being located in the Great Lakes basin and Mississippi River basin, where there is a large supply of high quality fresh water, we do not anticipate establishing an internal price on water at this time.

## W8. Targets

### W8.1

**(W8.1) Describe your approach to setting and monitoring water-related targets and/or goals.**

	Levels for targets and/or goals	Monitoring at corporate level	Approach to setting and monitoring targets and/or goals
Row 1	Site/facility specific targets and/or goals	None are monitored at corporate level	We set specific goals at all of our generating facilities related to anticipated regulatory and permit compliance activities, some of which may be associated with water-related compliance requirements.

## 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. 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.**

Due in part to facility retirements, water consumption from electricity generation has decreased to 0.4% of water withdrawn.

Our attached 2019 Corporate Responsibility Report provides the most current information on our water use.

 [wec-corporate-responsibility-report-2019.pdf](#)

### W10.1

**(W10.1) Provide details for the person that has signed off (approved) your CDP water response.**

	Job title	Corresponding job category
Row 1	Senior executive vice president and chief operating officer	Chief Operating Officer (COO)

### W10.2

**(W10.2) Please indicate whether your organization agrees for CDP to transfer your publicly disclosed data on your impact and risk response strategies to the CEO Water Mandate's Water Action Hub [applies only to W2.1a (response to impacts), W4.2 and W4.2a (response to risks)].**

Yes

## Submit your response

**In which language are you submitting your response?**

English

**Please confirm how your response should be handled by CDP**

	<b>I am submitting to</b>	<b>Public or Non-Public Submission</b>
I am submitting my response	Investors	Public

**Please confirm below**

I have read and accept the applicable Terms