

Welcome to your CDP Water Security Questionnaire 2020

W0. Introduction

W0.1

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

Occidental Petroleum Corporation's (Occidental's) integrated business model combines best-in-class assets and industry leadership in advancing a lower-carbon future. Founded in 1920, Occidental's success is built on technical expertise, business acumen, strong partnerships and our proven ability to deliver lasting results. Following the acquisition of Anadarko Petroleum in 2019, we are the largest onshore oil producer in the U.S. and a leading offshore producer in the Gulf of Mexico. Our midstream and marketing segment purchases, markets, gathers, processes, transports, and stores oil, condensate, natural gas liquids, natural gas, CO₂ and power. Our chemical subsidiary, OxyChem, is a leading manufacturer of PVC resins, vinyls, chlorine and caustic soda – key building blocks to life-enhancing products such as pharmaceuticals, water treatment chemicals, building materials and plastics. Our Oxy Low Carbon Ventures (OLCV) subsidiary is advancing leading-edge technologies and business solutions that economically grow our business while reducing emissions.

We are committed to being a Partner of Choice® everywhere we operate. At our business locations, we follow established procedures to gain an understanding of how Occidental's presence affects the surrounding area and the challenges faced by local communities. By investing in programs and initiatives that manage operational impacts and address key stakeholder concerns, Occidental strengthens relationships with communities and creates shared value for stakeholders and our business.

Occidental is committed to respecting the environment, operating safely and upholding the highest standards of ethical business practices. Occidental applies a robust environmental risk management approach and operational practices to increase energy efficiency and reduce greenhouse gas (GHG) emissions and air pollutants, even while expanding our production. The production of oil and gas, electricity and chemicals requires water, and Occidental understands the importance of managing water resources responsibly. Occidental's water management program is designed to conserve and protect water resources in communities where we operate by optimizing the use of low-quality produced water, the recycling of water and limiting the use of freshwater used for drinking water supplies.

W-CH0.1a

(W-CH0.1a) Which activities in the chemical sector does your organization engage in?

Bulk inorganic chemicals

W-OG0.1a

(W-OG0.1a) Which business divisions in the oil & gas sector apply to your organization?

- Upstream
- Chemicals

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.

- Algeria
- Bolivia (Plurinational State of)
- Canada
- Chile
- Colombia
- Oman
- United States of America

W0.4

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

- USD

W0.5

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

- Companies, entities or groups over which operational control is exercised

W0.6

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

- Yes

W0.6a

(W0.6a) Please report the exclusions.

Exclusion	Please explain
Water use/discharge at non-operated assets and facilities.	Occidental does not exercise operational control over certain assets and JVs.

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	It is important to Occidental that we use all sources of freshwater responsibly. Where possible, Occidental does not use freshwater resources in conflict with local users. Our oil and gas production operations generate significant quantities of produced water (i.e., saline water from hydrocarbon reservoirs) which is often sufficient to meet the quantity of our needs. However, there are certain activities, such as hydraulic fracturing and water flooding for which the quality of recycled produced water is not sufficient. For those, Occidental requires freshwater. OxyChem's business uses freshwater for production and cooling purposes, in addition to producing electricity. With respect to indirect use, freshwater is used to meet worker's needs for cleaning and drinking purposes.
Sufficient amounts of recycled, brackish and/or produced water available for use	Important	Not very important	With respect to its direct use, Occidental's oil and gas operations increasingly substitute freshwater resources with brackish/non-potable produced water, naturally occurring water that originates in the hydrocarbon reservoir and comes to the surface along with oil and gas during production. The extraction, processing, treatment and reinjection of produced water is integral to the design and efficient operation of Occidental's mature oil and gas fields, including water flooding and enhanced oil recovery (EOR) operations. In the Permian Basin, our oil and gas operations consume close to 90% of water needs using non-

			potable water. At OxyChem, the manufacture of chlorine and caustic soda involves the extraction and processing of brine (saltwater) streams.
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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	76-99	Operational facilities estimate, measure and monitor water withdrawals. For Occidental's oil and gas operations, essentially all brackish water is co-produced with oil and gas extracted from wells.
Water withdrawals – volumes by source	76-99	Operational facilities estimate, measure and monitor water withdrawals. For Occidental's U.S. oil and gas operations - including operations in potentially water-stressed areas, water needs are sourced using non-potable water.
Produced water associated with your oil & gas sector activities - total volumes [only oil and gas sector]	76-99	For Occidental's oil and gas operations, essentially all brackish water is co-produced with oil and gas extracted from wells.
Water withdrawals quality	76-99	As required by regulations and operational demands, facilities estimate and measure water quality.
Water discharges – total volumes	76-99	As required by regulations, operational facilities estimate, measure and monitor discharges by volumes, temperature, waste and effluent parameters.
Water discharges – volumes by destination	76-99	As required by regulations, operational facilities estimate, measure and monitor discharges by destination.
Water discharges – volumes by treatment method	76-99	As required by regulations, operational facilities estimate, measure and monitor discharges by treatment method.
Water discharge quality – by standard effluent parameters	76-99	As required by regulations, operational facilities estimate, measure and monitor discharges by volumes, temperature, waste and effluent parameters.

Water discharge quality – temperature	1-25	As required by regulations, operational facilities estimate, measure and monitor discharges by volumes, temperature, waste and effluent parameters.
Water consumption – total volume	76-99	Occidental's chemicals and oil and gas facilities estimate, measure and track water consumption.
Water recycled/reused	76-99	Occidental's chemicals and oil and gas facilities estimate, measure and track water recycled and reused.
The provision of fully-functioning, safely managed WASH services to all workers	100%	All Occidental offices, field camps, OxyChem and oil and gas facilities provide adequate water facilities for potable uses, sanitation and hygiene.

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	610,579	Higher	<p>Higher total withdrawals of freshwater and non-freshwater resultant from higher global production volumes and drilling activity. In 2019, Occidental acquired Anadarko Petroleum Corporation, which increased its global operated assets and therefore total production volumes.</p> <p>Throughout its operations, Occidental is increasing the rate of recycling and reuse of water, which decreases our freshwater withdrawals, but also the need for transportation and disposal of water.</p>
Total discharges	295,536	Higher	<p>Higher total discharges resultant from higher total withdrawal volumes. In 2019, Occidental acquired Anadarko Petroleum Corporation, which increased its global operated assets and therefore total production volumes.</p> <p>Total wastewater discharges = treated and/or untreated process and/or wastewater</p>

			discharged to surface bodies, land application and POTW (excludes Occidental on-site and third-party disposal).
Total consumption	309,753	Lower	Total consumption was slightly lower in 2019, resultant from higher recycling and reuse volumes.

W-OG1.2c

(W-OG1.2c) In your oil & gas sector operations, what are the total volumes of water withdrawn, discharged, and consumed – by business division – and what are the trends compared to the previous reporting year?

	Volume (megaliters/year)	Comparison with previous reporting year %	Please explain
Total withdrawals - upstream	468,410	Lower	Throughout its operations, Occidental is increasing the rate of recycling and reuse of water, which decreases our freshwater withdrawals, but also the need for transportation and disposal of water.
Total discharges – upstream	196,419	Lower	Throughout its operations, Occidental is increasing the rate of recycling and reuse of water, which decreases our freshwater withdrawals, but also the need for transportation and disposal of water. Total wastewater discharges = treated and/or untreated process and/or wastewater discharged to surface bodies, land application and POTW (excludes Occidental on-site and third-party disposal).
Total consumption – upstream	266,701	Lower	Throughout its operations, Occidental is increasing the rate of recycling and reuse of water, which decreases our total consumption.
Total withdrawals – chemicals	142,169	Lower	
Total discharges – chemicals	99,117	Lower	

Total consumption – chemicals	43,053	Lower	
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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	% withdrawn from areas with water stress	Comparison with previous reporting year	Identification tool	Please explain
Row 1	Yes	1-10	About the same	WRI Aqueduct	<p>Occidental's water management program is designed to conserve and protect water resources in communities where we operate by optimizing the use of low-quality produced water, the recycling of water and limiting the use of freshwater withdrawals. Occidental works to ensure its water use does not affect the ability of cities, towns, farms and ranches near our operations to secure its access to water resources.</p> <p>Occidental's U.S. operations are concentrated in the Permian Basin, considered a historically water stressed region in West Texas and New Mexico. However, Occidental's reliance on the use of freshwater in the Permian is less than 10 percent. About 85 to 90 percent of Occidental's water needs are met through produced water (non-fresh, brackish/saline water) which poses minimal to no risk or stress to regional freshwater.</p> <p>In 2019, Occidental acquired</p>

				<p>Anadarko, which significantly increased its production volumes in the Permian Basin, and expanded operations into the DJ and Powder River Basins. Since Occidental's operations are heavily reliant on the availability of water resources; however, most of operational needs in the Permian are met through non-freshwater water. , we have adopted a forward focused stance on water stewardship and usage through a variety of initiatives to reduce our overall water footprint. From operational areas at-risk from water related stresses, we apply our Health, Environment and Safety Management System (HESMS) and the use of other industry risk tools, like Aqueduct, GEMI Local Water Risk Assessment tool to help validate the efficacy of existing water-related safeguards and identify new opportunities to ensure the protection of water sources and receiving water bodies.</p> <p>Occidental considers the longer-term patterns of integrated water resources management, regenerative capacity of ground water and aquifers, population growth/demand shifts and the potential for weather related impacts to evaluate and mitigate the effects of water risks on key operations and the safety and well- being of employees and contractors. When evaluating a new site or asset, this involves evaluating legal and regulatory issues and hydrological yield in terms of the reliability and</p>
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				<p>proximity of other water users during exploration and production activities. Our analysis of water-related risks includes an information-gathering process, environmental due diligence, participation in industry association work groups (for example, IPIECA Water Working Group, the American Chemistry Council Responsible Care®) and external stakeholder engagement to inform and refine our risk management and strategic planning processes.</p> <p>Part of Occidental's assessment involves the identification of water-related risks and impacts as well as opportunities. Occidental uses various approaches, including the Global Environmental Management Initiative®, Local Water Tool™ (GEMI® LWT™) to assess risks and to evaluate water use and discharge at key operations, taking into account factors such as:</p> <ul style="list-style-type: none"> • Physical and climatic characteristics • Future physical supply reliability • Population growth and industrial growth trends • Affected ecosystems • Regulatory issues • Social context
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W1.2h

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

	Relevance	Volume (megaliters/year)	Comparison with previous	Please explain
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			reporting year	
Fresh surface water, including rainwater, water from wetlands, rivers, and lakes	Relevant	119,211	Lower	<p>Throughout its operations, Occidental is increasing the rate of recycling and reuse of water, which decreases our freshwater withdrawals, but also the need for transportation and disposal of water.</p> <p>Occidental characterizes freshwater sources as TDS less than 1,000 ppm (in accordance with the Texas and New Mexico State and Local regulatory requirements and standards), and the volume includes water obtained from third- party sources (includes produced freshwater+ groundwater supply wells +municipal supply + surface water + other sources; excludes company generated freshwater from reverse osmosis (RO) and other processes.)</p>
Brackish surface water/Seawater	Relevant	16,273	Lower	<p>Occidental characterizes freshwater sources as TDS less than 1,000 ppm (in accordance with the Texas and New Mexico State and Local regulatory requirements and standards). We use nonfresh water whenever possible, in order to minimize the use of freshwater.</p>
Groundwater – renewable	Relevant	12,486	Lower	<p>Occidental minimizes the withdrawal of freshwater (TDS <1,000 ppm) and</p>

				maximizes use of nonfreshwater.
Groundwater – non-renewable	Relevant	22,748	About the same	Occidental minimizes the withdrawal of freshwater (TDS <1,000 ppm) and maximizes use of nonfreshwater.
Produced/Entrained water	Relevant	426,146	About the same	Occidental's focus on increasing the treatment and reuse of produced water in operations will allow us to commit to a policy of reducing freshwater consumption
Third party sources	Relevant	13,715	About the same	

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	111,500	About the same	As part of Occidental's Health, Environment and Safety Management System (HESMS), our programs, standards and operational strategies designed to conserve fresh water resources such as improving the efficient use and quality of water being treated and discharged to surface water bodies. We assess other risk parameters that focus on the unique characteristics of each watershed and location of operations. The quality of our treated water discharge to the freshwater bodies is monitored and our discharge water quality meet or exceed the receiving surface water bodies.

				Also, Occidental has entered into voluntary conservation agreements to protect species and habitats by minimizing and mitigating potential impacts from development and water-related discharges.
Brackish surface water/seawater	Relevant	4,695	About the same	In the Gulf of Mexico assets acquired from the Anadarko purchase, all water is treated and discharged back into the sea.
Groundwater	Relevant	55,644	About the same	<p>Groundwater is routinely monitored for quality by each groundwater district. Occidental is making significant investments in subsurface characterization in order to assess the rock and fluid properties in our unconventional reservoirs across our acreage. This helps to develop a better understanding of the key geologic parameters that drive productivity, such as porosity, saturation, brittleness, total organic content, mineral and geochemical composition, rock and fluid compatibility, natural fractures, distribution and stress regimes.</p> <p>Occidental's U.S. operations account for zero (0%) wastewater discharge to the environment. Less than 28,000 megalitres per year is disposed of into permitted UIC Class II injection wells, while a vast majority of the produced wastewater is recycled and reused.</p>
Third-party destinations	Relevant	30,462	About the same	This number includes third-party operated POTWs, disposal wells + Evaporation ponds/pits (excludes produced water injection for EOR purposes and transfer to third-party for beneficial use).

W-CH1.3

(W-CH1.3) Do you calculate water intensity for your activities in the chemical sector?

Yes

W-CH1.3a

(W-CH1.3a) For your top five products by production weight/volume, provide the following water intensity information associated with your activities in the chemical sector.

Product type

Bulk inorganic chemicals

Product name

VCM (vinyl chloride monomer)

Water intensity value (m3)

0

Numerator: water aspect

Total water consumption

Denominator

m3

Comparison with previous reporting year

About the same

Please explain

Total water consumption is the net consumption for the total company. Water intensity is the total annual net water consumption divided by annual production in tons.

OxyChem does not disclose water intensity metrics per product.

Product type

Bulk inorganic chemicals

Product name

PVC (polyvinyl chloride)

Water intensity value (m3)

0

Numerator: water aspect

Total water consumption

Denominator

m3

Comparison with previous reporting year

About the same

Please explain

OxyChem does not disclose water intensity metrics per product.

Product type

Bulk inorganic chemicals

Product name

EDC (ethylene dichloride)

Water intensity value (m3)

0

Numerator: water aspect

Total water consumption

Denominator

m3

Comparison with previous reporting year

About the same

Please explain

OxyChem does not disclose water intensity metrics per product.

Product type

Bulk inorganic chemicals

Product name

chlorinated organics

Water intensity value (m3)

0

Numerator: water aspect

Total water consumption

Denominator

m3

Comparison with previous reporting year

About the same

Please explain

OxyChem does not disclose water intensity metrics per product.

Product type

Bulk inorganic chemicals

Product name

ethylene

Water intensity value (m3)

0

Numerator: water aspect

Total water consumption

Denominator

m3

Comparison with previous reporting year

About the same

Please explain

OxyChem does not disclose water intensity metrics per product.

W-OG1.3

(W-OG1.3) Do you calculate water intensity for your activities associated with the oil & gas sector?

Yes

W-OG1.3a

(W-OG1.3a) Provide water intensity information associated with your activities in the oil & gas sector.

Business division

Upstream

Water intensity value (m3)

0

Numerator: water aspect

Total water withdrawals

Denominator

Barrel of oil equivalent

Comparison with previous reporting year

Much lower

Please explain

Water intensity is lower because Occidental continues to increase the amount of water reused and recycled, while overall production also continues to increase. Occidental's water management program is designed to conserve and protect water sources in communities where we operate. The vast majority of water managed by Occidental is co-produced from hydrocarbon reservoirs with oil and natural gas. Occidental strives to use non-freshwater and recycled or reused sources in place of freshwater for oil and natural gas operations. Occidental also obtains water from other non-potable sources. In addition, we routinely assess our water management practices including those with respect to water supply, treatment, reuse, recycling and discharge, to identify opportunities for improvement.

W1.4

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

Yes, our suppliers

Yes, our customers or other value chain partners

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

Occidental considers environmental management criteria as part of the comprehensive assessment (Health, Environment and Safety Management System or HESMS, and other water risk assessments and stewardship frameworks) it conducts when sourcing and selecting suppliers. At this time, there is insufficient value to Occidental in screening suppliers for reporting their organizational water consumption and risks. We continue to monitor these risks as operating parameters or local market conditions could change.

Impact of the engagement and measures of success

In the United States and around the world, Occidental continues to be one of the most admired companies in our industry. We are proud to be recognized as a responsible oil and gas and chemicals company and as a Partner of Choice®. OxyChem is a five-time winner of the American Chemistry Council's top safety performance award, including

"Responsible Care® Company of the Year".

Occidental also utilizes a variety of third-party assessment tools and sustainability "scorecards" to benchmark management practices and operating performance with suppliers. OxyChem has increased its position as an industry leader by achieving Ecovadis silver certification and ranked in the top 20% of companies in our industry for sustainable supply chain performance.

Comment

W1.4b

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

Type of engagement

Incentivizing for improved water management and stewardship

Details of engagement

Water management and stewardship is integrated into supplier evaluation processes

Other, please specify

corporate responsibility reputation

% of suppliers by number

1-25

% of total procurement spend

Unknown

Rationale for the coverage of your engagement

As a participant company in the American Chemistry Council's Responsible Care® initiative, OxyChem applies a management system that regularly measures and tracks performance through established metrics and extends best environmental stewardship, safety and security practices to its business partners and suppliers. OxyChem's Supply Chain Performance Management improves supply chain efficiency by continually monitoring performance. The cornerstone of OxyChem's Supply Chain Performance Management is our "Supply Chain Scorecard," a custom report on supply chain efficiency between our customers and OxyChem. Together with our customers, OxyChem Customer Relations Representatives review data and metrics to identify possible supply chain opportunities.

Impact of the engagement and measures of success

In the United States and around the world, Occidental continues to be one of the most admired companies in our industry. We are proud to be recognized as a responsible oil and gas and chemicals company and as a Partner of Choice®. OxyChem is a five-time winner of the American Chemistry Council's top safety performance award, including "Responsible Care® Company of the Year". Occidental also utilizes a variety of third-

party assessment tools and sustainability "scorecards" to benchmark management practices and operating performance with suppliers. OxyChem has increased its position as an industry leader by achieving Ecovadis silver certification and ranked in the top 20% of companies in our industry for sustainable supply chain performance.

Comment

Type of engagement

Innovation & collaboration

Details of engagement

Encourage/incentivize innovation to reduce water impacts in products and services
Encourage/incentivize suppliers to work collaboratively with other users in their river basins
Educate suppliers about water stewardship and collaboration

% of suppliers by number

Unknown

% of total procurement spend

Unknown

Rationale for the coverage of your engagement

OxyChem is a founding member of the Alliance to End Plastic Waste , which seeks to invest \$1.5 billion over five years to help eliminate plastic waste in the environment, especially in the oceans. The Alliance will develop and bring to scale innovative solutions that will minimize and manage plastic waste and promote solutions for used plastics by helping to enable a circular economy. This global effort consists of nearly 30 companies in the plastics value chain, including chemical and plastic manufacturers, consumer goods companies, retailers, converters and waste management.

Impact of the engagement and measures of success

OxyChem is collaborating with Alliance members to promote infrastructure, education and engagement, innovation, and clean up efforts to reduce plastic waste in the environment. These collective efforts combined with active stakeholder engagement and public awareness campaigns will bring to scale solutions that minimize and manage plastic waste and promote solutions for used plastics by helping to enable a circular economy.

Comment

W1.4c

(W1.4c) What is your organization's rationale and strategy for prioritizing engagements with customers or other partners in its value chain?

Stakeholder engagement, including suppliers and contractors, is both a central activity at Occidental and a catalyst for continuous improvement in our social responsibility policies, practices and reporting. We are committed to building trust with our stakeholders, including suppliers and customers, through regular and transparent communication and consistent actions. To help define the most important issues for Occidental, we engage with a range of stakeholders from both industry and non-industry. We monitor external trends, industry leadership, standards bodies and capital market influences to refine our operational priorities, including water management and risks, and focus on long-term value creation.

Our supplier engagement and supplier relationship management activities are focused on upholding high ethical standards and institutional integrity through compliance with our comprehensive Code of Business Conduct, security of supply and optimizing cost savings/total cost of ownership. As a participant company in the American Chemistry Council's Responsible Care® initiative, OxyChem applies a management system that regularly measures and tracks performance through established metrics and extends best environmental stewardship, safety and security practices to its business partners and suppliers. Occidental also participates in domestic and international industry initiatives, such as the IPIECA Water Group that focus on industry management practices and water stewardship, and achieving the UN Sustainable Development Goals.

OxyChem prioritizes our engagements in our value chain that align with our sustainability guiding principles and goals around water conservation and stewardship. Our support of Water Mission, a non-profit who focuses on providing clean safe drinking water to refugee camps and disaster areas. OxyChem is also a founding member of the Alliance to End Plastic Waste to develop solutions to keep plastics out of the environment.

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-CH3.1

(W-CH3.1) How does your organization identify and classify potential water pollutants associated with its activities in the chemical sector that could have a detrimental impact on water ecosystems or human health?

Occidental is committed to high ethical standards and the protection of health, safety and the environment. Safety and product stewardship are cornerstones of our business, and Occidental's rigorous programs have for many years helped us earn a reputation as one of the safest oil and gas and chemicals producers in the industry. Occidental's Health, Environment and Safety Management System (HESMS) encompasses the company's programs, operational standards, procedures, guidelines and processes and integrated planning designed to conserve natural resources, such as improving efficient use, recycling and reuse of water and the quality of water being treated and discharged to surface water bodies. Occidental's water stewardship policies and performance are also incorporated into supplier and stakeholder engagements and through corporate reporting. Complementing Occidental's HESMS, the chemicals business segment uses its health, environment, safety and security (HES&S) systems, procedures, work practices and employee training to enhance HES&S performance, awareness and compliance related to, among other things, responsibly managing waste materials and controlling the release of pollutants to the environment and water ecosystems.

OxyChem complies with chemical product regulations designed to advance product safety and public health, including the U.S. Environmental Protection Agency (EPA) pesticide product registration program and the Toxic Substances Control Act, the European Union's REACH (Registration, Evaluation and Authorization and Restriction of Chemicals) and CLP (Classification, Labelling and Packaging) regulations, as well as many other chemical regulatory frameworks throughout the world. OxyChem also participates in voluntary initiatives, including the American Chemistry Council's Responsible Care® program, which requires the implementation of the Responsible Care® Product Safety Code.

Integral to our product stewardship standards and risk assessment process, OxyChem has established a risk management program for products and major secondary materials manufactured by OxyChem. The risk assessment for each chemical is based on analysis of the hazard it poses and its likelihood of exposure. Using this strategy, products are evaluated and prioritized for potential adverse effects, and risk-reduction practices are implemented, such as facility-based treatment and handling processes, recommending personal protective equipment and providing effective safety labeling and additional technical support to customers.

OxyChem is a founding member of the Alliance to End Plastic Waste, which seeks to invest \$1.5 billion over five years to help eliminate plastic waste in the environment, especially in the oceans. The Alliance will develop and bring to scale innovative solutions that will minimize and manage plastic waste and promote solutions for used plastics by helping to enable a circular economy. This global effort consists of nearly 30 companies in the plastics value chain,

including chemical and plastic manufacturers, consumer goods companies, retailers, converters and waste management.

Occidental is proud to be recognized by a number of organizations as a leading responsible oil and gas and chemicals company and a global Partner of Choice®. OxyChem is a five-time winner of the American Chemistry Council's top safety performance award, including the "Responsible Care® Company of the Year". Other honors and safety award recognition include the Tennessee Department of Environment and Conservation's award for exceptional environmental stewardship of a natural heritage site, for successfully restoring the Lower North Potato Creek watershed in eastern Tennessee to its natural habitat; achieving Star Status under the Occupational Safety & Health Administration's (OSHA) Voluntary Protection Program as among the safest work sites in the U.S.; the CSX Transportation award for Chemical Safety Excellence; the Canadian National Railway Company Safe Handling Award; and the American Chemistry Council Responsible Care® Waste Minimization, Reuse and Recycling Awards recognizing OxyChem's significant achievements in promoting waste recycling and reuse activities.

W-CH3.1a

(W-CH3.1a) Describe how your organization minimizes adverse impacts of potential water pollutants on water ecosystems or human health. Report up to ten potential pollutants associated with your activities in the chemical sector.

Potential water pollutant	Value chain stage	Description of water pollutant and potential impacts	Management procedures	Please explain
TSS (total suspended solids)	Direct operations	Total suspended solids (TSS) are particles that are larger than 2 microns found in the water column, typically smaller than 2 microns and made up of inorganic materials.	Compliance with effluent quality standards Measures to prevent spillage, leaching, and leakages	Occidental monitors and mitigates potential water pollutants based on regulatory standards, compliance with operational permits and best practice frameworks and wastewater and effluent treatment technologies.
TDS (Total Dissolved Solids)	Distribution network	Total dissolved solids (TDS) are the sum of all ion particles smaller than 2 microns, as well as other compounds such as dissolved organic solutes such as hydrocarbons.	Compliance with effluent quality standards Measures to prevent spillage, leaching, and leakages	Occidental monitors and mitigates potential water pollutants based on regulatory standards, compliance with operational permits and best practice frameworks and wastewater and effluent treatment technologies.

residual chlorine	Direct operations	Total residual chlorine	Compliance with effluent quality standards Measures to prevent spillage, leaching, and leakages	Occidental monitors and mitigates potential water pollutants based on regulatory standards, compliance with operational permits and best practice frameworks and wastewater and effluent treatment technologies.
trace inorganic acids (hydrochloric acid, sulfuric acid)	Direct operations	Occidental monitors these acids and applies suitable treatment processes and a methodology to dilute or remove acids from wastewater streams.		Occidental monitors and mitigates potential water pollutants based on regulatory standards, compliance with operational permits and best practice frameworks and wastewater treatment technologies.

W-OG3.1

(W-OG3.1) How does your organization identify and classify potential water pollutants associated with its activities in the oil & gas sector that may have a detrimental impact on water ecosystems or human health?

Occidental works to ensure its water use does not affect the ability of cities, towns, farms and ranches near our operations to secure its access to water resources. Occidental considers the longer-term patterns of integrated water resources management, regenerative capacity of ground water and aquifers, population growth/demand shifts and the potential for weather related impacts to evaluate and mitigate the effects of water risks on key operations and the safety and well-being of employees and contractors. The Health, Environment and Safety Management System (HESMS) encompasses programs, standards, procedures, and operational guidelines designed to conserve natural resources, such as improving efficient use, recycling and reuse of water and the quality of water being treated and discharged to surface water bodies. Occidental applies rigorous Health, Environment and Safety (HES) risk management and Asset Integrity (AI) programs to safeguard personnel, protect the environment and maintain operational reliability of equipment and systems in our plants and fields. The foundation for Occidental's successful AI program is the classification of systems and equipment that must remain available to maintain safe and reliable operations. Our risk-based AI program includes several key elements: mechanical integrity, maintenance, corrosion management and quality assurance/quality control. Occidental developed an innovative AI management system to maintain a high level of equipment and systems integrity throughout its facilities, involving operations, facility engineering, major projects, construction and supply chain, business planning and HES.

Occidental's capital investments in maintenance and its AI program emphasize mitigation of risks to people. We also continually invest in inspection activities, projects to upgrade or replace facilities and pipelines in environmentally sensitive areas, especially watersheds and freshwater bodies, and automated control systems to detect and mitigate leaks and spills to the environment. This approach and our pollution prevent programs extend to ensuring the vehicles it owns or operates, including tractor-trailers, railcars, light-duty trucks and passenger automobiles, are well maintained and equipped with appropriate safety features. Transportation safety issues - including the transportation of hazardous materials - are managed to prevent incidents and minimize risks.

Occidental's oil and gas waste is, under the U.S. EPA's Resource Conservation and Recovery Act (RCRA) defined as "non-hazardous". Recent advances in applying "greener" approach for the treatment of produced water have enabled Occidental to reduce its reliance upon halogen based chemistry. Although halogens are well-known and highly effective oxidizer of unwanted constituents in water, the newest Occidental's process has accelerated the application of green "chemical free" treatment of produced water.

Occidental is committed to public disclosure about its hydraulic fracturing operations. In 2011, Occidental was an early participant in FracFocus®, a website created by the Ground Water Protection Council and the Interstate Oil and Gas Compact Commission to provide for well-specific voluntary disclosure of hydraulic fracturing operations, including the chemical ingredients used in fracturing fluids. In addition to providing a national registry, the website provides factual information about hydraulic fracturing and groundwater protection.

W-OG3.1a

(W-OG3.1a) For each business division of your organization, describe how your organization minimizes the adverse impacts on water ecosystems or human health of potential water pollutants associated with your oil & gas sector activities.

Potential water pollutant	Business division	Description of water pollutant and potential impacts	Management procedures	Please explain
Hydrocarbons	Upstream	Occidental is committed to conducting hydraulic fracturing in a manner that does not impact the environment or the communities in which we operate. It is Occidental's practice to avoid diesel fuels, including any of the following chemicals: benzene, toluene,	Compliance with effluent quality standards Measures to prevent spillage, leaching and leakages Community/stakeholder engagement	Occidental's Health, Environment and Safety Management System (HESMS) requires an assessment of potential environmental effects, including those related to water resources. The HESMS encompasses programs, standards and operational

		<p>xylene and ethylbenzene (collectively BTEX), in hydraulic fracturing treatments. Occidental is a participant in FracFocus®, a website created by the Ground Water Protection Council and the Interstate Oil and Gas Compact Commission to provide for well-specific voluntary disclosure of hydraulic fracturing operations, including the chemical ingredients used in fracturing fluids. FracFocus also provides factual information about hydraulic fracturing and groundwater protection.</p>	<p>strategies designed to conserve natural resources, such as improving efficient use, recycling and reuse of water and the quality of water being treated and discharged to surface water bodies. The vast majority of water managed by Occidental is co-produced from hydrocarbon reservoirs with oil and natural gas. Occidental strives to use non-freshwater and recycled or reused sources in place of freshwater for both types of operations. Occidental also obtains water from other non-potable sources, seeking to use the lowest-quality water acceptable for operational activities, and it recycles produced water and wastewater wherever feasible. Discharge to surface water bodies requires a permit or authorization that sets water quality parameters consistent with the receiving water body and may specify treatment requirements. Additionally, discharges or runoff from Occidental's facilities are evaluated for water quality under</p>
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				<p>other applicable regulations and company policies. In certain locations, such as in the United States and in Colombia, discharges of treated water from Occidental's facilities support riparian (or riverbank) eco-systems by providing a more consistent flow of freshwater than would otherwise exist.</p>
Drilling fluids	Upstream	Produced water, along with varying volumes of drilling muds and fracturing fluids can be collected and reused		<p>Occidental and its service companies employ a range of mitigation techniques to manage the potential environmental impacts of drilling materials and flowback fluids. Occidental works collaboratively with its service companies to improve drilling and production techniques to enhance the efficiency of water usage and to re-use drilling fluids to minimize sending fluids and wastewater to disposal. Within our U.S. oil and gas operations, Occidental stores drilling muds, other (oily) residuals and flowback water in closed containment systems or tanks for on-site storage and eventual disposal.</p>

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 as part of an 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
Enterprise Risk Management

Tools and methods used

GEMI Local Water Tool
WRI Aqueduct
Other, please specify
Occidental's Health Environment and Safety Management System (HESMS)

Comment

Water is integrated into a comprehensive, company-wide risk assessment process incorporating direct operations. Our Health, Environment and Safety Management System (HESMS) requires an assessment of potential environmental effects at all new operations. Facility or local level water risk assessments are cross referenced against longer-term (>3 years) demographic and economic growth forecasts. Occidental supplements its HESMS using a variety of tools including the GEMI LWT and WRI Aqueduct.

Supply chain

Coverage

Partial

Risk assessment procedure

Water risks are assessed as part of other company-wide risk assessment system

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
Enterprise Risk Management
Databases

Tools and methods used

GEMI Local Water Tool
WRI Aqueduct
Maplecroft Global Water Security Risk Index
Other, please specify
IHSMarkit, EcoVadis

Comment

Water is integrated into a comprehensive, company-wide risk assessment process incorporating direct operations using its HESMS. Occidental directly engages its suppliers using third-party water risk assessments and sustainability "scorecards", or uses these tools indirectly as an industry performance benchmark.

Other stages of the value chain

Coverage

Partial

Risk assessment procedure

Water risks are assessed as a standalone issue

Frequency of assessment

Annually

How far into the future are risks considered?

1 to 3 years

Type of tools and methods used

Enterprise Risk Management

Tools and methods used

Other, please specify
HESMS

Comment

Occidental considers the sustainability, health, safety and environment of the communities in which we operate. We follow established HESMS procedures to gain an

understanding of the potential effects of Occidental's presence on the local community and the surrounding ecosystem. Results from the assessment and input from a community advances our relationships and informs our work to promote mutually beneficial outcomes and to avoid using water resources in conflict with local users.

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	Water quality and quantity both represents risks and opportunities. Local ecosystem and watershed impacts are factored into our Health Environment and Safety Management System (HESMS) and water risk assessments. Our HESMS identifies, assesses and grades significant (actual and potential) water-related risks. The HESMS sets consistent worldwide performance expectations and standards across each business segment's respective operations. Occidental manages its own water use consistent with community interests near our operations and to avoid adversely impacting the environment, or our license to operate in these communities.
Water quality at a basin/catchment level	Relevant, always included	Water quality and quantity both represents risks and opportunities. Local ecosystem and watershed impacts are factored into our Health Environment and Safety Management System (HESMS) and water risk assessments. Our HESMS identifies, assesses and grades significant (actual and potential) water-related risks. The HESMS sets consistent worldwide performance expectations and standards across each business segment's respective operations. Occidental manages its own water use consistent with community interests near our operations and to avoid adversely impacting the environment, or our license to operate in these communities.
Stakeholder conflicts concerning water resources at a basin/catchment level	Relevant, always included	Occidental seeks to optimize water from non-potable sources, using the lowest-quality water acceptable for operational activities, and recycles produced water and wastewater wherever feasible to avoid using water resources in conflict with local stakeholders. Occidental manages its own water use consistent with community interests near our operations and to avoid adversely

		impacting the environment, or our license to operate in these communities.
Implications of water on your key commodities/raw materials	Not relevant, explanation provided	Water-related risk to our supply chain is relatively small. Occidental's oil and gas facilities do not rely extensively on a supply chain. The raw materials and finished goods that Occidental's oil and gas and chemical operations use can generally be sourced from multiple geographic areas, which mitigates the risk of water-related effects on the supply chain.
Water-related regulatory frameworks	Relevant, always included	Current regulatory frameworks and tariffs at the local and municipal level are factored into our HESMS and water risk assessments.
Status of ecosystems and habitats	Relevant, always included	Our HESMS identifies, assesses and grades significant (actual and potential) water-related risks. We will also, when needed, assess potential future risks and impacts to local ecosystems and watersheds. Occidental's supplemental use of tools such as the World Economic Forum Global Risks Report, WRI Aqueduct and the GEMI LWT is consistent with this approach.
Access to fully-functioning, safely managed WASH services for all employees	Relevant, always included	Occidental ensures adequate water is available for drinking, cleaning and hygiene at each of its facilities and field operations.
Other contextual issues, please specify	Relevant, always included	assesses potential future risks and impacts to local ecosystems and watersheds. Occidental's supplemental use of tools such as the WRI Aqueduct and GEMI LWT is consistent with this approach.

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, sometimes included	Customers of OxyChem are factored into water risks assessments. The cornerstone of OxyChem's Supply Chain Performance Management is our "Supply Chain Scorecard," between our customer and OxyChem.
Employees	Relevant, always included	Employees and contractors are factored into water risks assessments.

Investors	Relevant, always included	Investors are factored into water risks assessments and are part of Occidental's engagement with investors to disclose risks and water management performance.
Local communities	Relevant, always included	Local communities are factored into water risks assessments and are part of our engagement with stakeholders to inform the public about our water management practices and performance.
NGOs	Relevant, sometimes included	NGOs are, on a case by case basis, factored into water risks assessments. Typically, Occidental engages with these NGOs on broader environmental sustainability issues as part of our stakeholder engagement.
Other water users at a basin/catchment level	Relevant, always included	Other local water users are factored into water risks assessments.
Regulators	Relevant, always included	Regulators are factored into water risks assessments.
River basin management authorities	Relevant, sometimes included	River basin management authorities, where they exist, are factored into water risks assessments. Typically, these agencies are factored as part of the overall regulatory and operating environment.
Statutory special interest groups at a local level	Relevant, sometimes included	On a case by case basis, where they exist, special interest groups (like NGOs) are factored into water risks assessments. Typically, these agencies are factored as part of the overall regulatory and operating environment.
Suppliers	Relevant, always included	Commercial suppliers do not present a consequential risk to our operations. However, Occidental's access to water resources, secured through local water rights, are closely managed. Oxy monitors the market conditions and vulnerability of suppliers to water risks, and can adjust our assessment accordingly.
Water utilities at a local level	Relevant, always included	Water/waste water utilities are factored into water risks assessments.
Other stakeholder, please specify		

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.

Oxy's HESMS and risk management approach identifies, assesses and grades significant (actual and potential) water-related risks. The HESMS sets consistent worldwide performance expectations and standards across each business segment's respective operations. The HESMS facilitates compliance with laws and regulations and the management of HES and water risks to improve overall business performance. Oxy manages its own water use consistent with community interests near our operations and to avoid adversely impacting the environment, or our license to operate in these communities.

For example, water scarcity is a prominent issue in the Permian Basin (West Texas and Southeast New Mexico) where, as reported by the U.S. Geologic Society and Texas Alliance, the majority of oil and gas wells are in a "high or extremely high water stress area." These prevailing water scarcity risks are factored into Oxy's business plans and water use strategy to operationalize and mitigate risks, and also to identify and seize opportunities that could provide costs savings or generate revenues. Our current oil and gas development plans factor the risk associated with future scarcity of fresh water, especially in Southeast New Mexico. Investing in solutions to treat a larger capacity of produced water delivers value to our operations. We mitigate safety-related risks and save money from minimizing the handling/trucking of water, disposal costs and providing operational continuity to treat large volumes of water if a disposal system goes down.

Occidental is proud to be recognized by a number of organizations as a leading responsible oil and gas and chemicals company and a global Partner of Choice®. Occidental is an inaugural partner of The Pecos Watershed Initiative, a proactive approach to the Endangered Species Act, involves landscape-based management of multiple species and their habitat within the Pecos River Watershed, in Texas. The Initiative is a collaborative endeavor between industry and local, state and federal agencies to improve habitat, watershed and water quality and to mitigate water scarcity concerns while allowing for responsible economic development. In Colombia, Occidental is actively managing habitat conservation and restoration programs that directly benefit users of watersheds and the complex of ecosystem services these designated districts provide.

Occidental also works with value chain constituents often through industry associations such as IPIECA and the Vinyl Institute's Vinyl Business and Sustainability Council. These collaborative industry associations and working groups enable Occidental to proactively identify potential water risks and to manage water issues.

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?

Yes, only within our direct operations

W4.1a

(W4.1a) How does your organization define substantive financial or strategic impact on your business?

Occidental follows the U.S. Securities and Exchange Commission (SEC) which has defined rules for oil and gas reporting disclosures with the aim to provide investors with a more meaningful and comprehensive understanding of oil and gas reserves and financial valuation. These same rules cover guidance regarding the types of issues an oil and gas company should consider when preparing its Management Discussion and Analysis (MD&A) in its Form 10-K and other financial filings, including disclosure regarding substantive financial impact (or changes) due to technology, prices and concession conditions.

W4.1b

(W4.1b) What is the total number of facilities exposed to water risks with the potential to have a substantive financial or strategic impact on your business, and what proportion of your company-wide facilities does this represent?

	Total number of facilities exposed to water risk	% company-wide facilities this represents	Comment
Row 1	35	26-50	Permian Basin (Texas, New Mexico); DJ Basin and Powder River Basin (Rockies, U.S.); U.S. Gulf Coast; Colombia; Bolivia; and, Gulf of Mexico.

W4.1c

(W4.1c) By river basin, what is the number and proportion of facilities exposed to water risks that could have a substantive financial or strategic impact on your business, and what is the potential business impact associated with those facilities?

Country/Area & River basin

United States of America

Other, please specify

Houston Ship Channel-Galveston Bay

Number of facilities exposed to water risk

5

% company-wide facilities this represents

1-25

% company's global oil & gas production volume that could be affected by these facilities

1-25

% company's total global revenue that could be affected

Less than 1%

Comment

Occidental has chemicals production facilities (vinyls and base chemicals), power generation assets and product distribution terminals along the U.S. Gulf Coast.

Country/Area & River basin

Colombia

Orinoco

Number of facilities exposed to water risk

3

% company-wide facilities this represents

1-25

% company's global oil & gas production volume that could be affected by these facilities

1-25

% company's total global revenue that could be affected

1-10

Comment

Discharge to surface water bodies requires a permit or authorization that sets water quality parameters consistent with the receiving water body and may specify treatment requirements. Additionally, discharges or runoff from Occidental's facilities is evaluated for water quality under other applicable regulations and company policies. In certain locations, such as in Colombia's Llanos Norte Basin, discharges of treated water from our facilities support riparian (or riverbank) eco-systems by providing a more consistent flow of freshwater than would otherwise exist.

Country/Area & River basin

United States of America

Colorado River (Caribbean Sea)

Number of facilities exposed to water risk

10

% company-wide facilities this represents

1-25

% company's global oil & gas production volume that could be affected by these facilities

26-50

% company's total global revenue that could be affected

11-20

Comment

Occidental's Permian oil and gas production accounted for nearly 50 percent of our 2019 total ongoing worldwide production. Even assuming a prolonged, severe drought similar to conditions in 2011, Occidental's Permian operations were not interrupted. Prices for water supplies could be at-risk, but not necessarily access to water.

W4.2

(W4.2) Provide details of identified risks in your direct operations with the potential to have a substantive financial or strategic impact on your business, and your response to those risks.

Country/Area & River basin

Colombia
Orinoco

Type of risk & Primary risk driver

Regulatory
Regulation of discharge quality/volumes

Primary potential impact

Fines, penalties or enforcement orders

Company-specific description

The environmental permits require ongoing monitoring of environmental impacts which form the legal framework for Occidental's local environmental and social management plan connected to the development in the Llanos Norte Basin. Occidental maintains a close working relationship with Corporinoquia, the Colombian environmental authority, to enable the development of these fields. The riparian ecosystem is highly important to Occidental's operations and finding alternatives would have been quite costly.

Timeframe

Current up to one year

Magnitude of potential impact

Medium

Likelihood

More likely than not

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

Financial estimate not available.

Primary response to risk

Comply with local regulatory requirements

Description of response

Areas within the Llanos Norte Basin along the Orinoco are unique and require extraordinary environmental and social risk mitigation factors. Parts of the rivershed are highly important to Occidental's operation in that it works as a "shock absorber" for water flows and sediment retention protecting the river's ecological characteristics and its capacity to support downstream local communities. Occidental's permitted discharges of treated water from Occidental's facilities support this ecosystem by providing a more consistent flow of freshwater than would otherwise exist.

Cost of response

0

Explanation of cost of response

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	In our water-related risk assessments, we have identified marginal water-related risk in our value chain.

W4.3

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

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.

Type of opportunity

Products and services

Primary water-related opportunity

Reduced impact of product use on water resources

Company-specific description & strategy to realize opportunity

Occidental works collaboratively with its service companies to improve drilling and production techniques to enhance the efficiency of water usage and to minimize the amount of chemicals required for hydraulic fracturing. For example, Occidental's re-use of drilling fluids minimizes sending any wastewater to disposal. Also, Occidental's commitment to using produced water from oil and gas reservoirs and other non-potable sources wherever feasible reduces our demand for freshwater.

Estimated timeframe for realization

Current - up to 1 year

Magnitude of potential financial impact

Low-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

Financial estimate of impact not available.

W5. Facility-level water accounting

W5.1

(W5.1) For each facility referenced in W4.1c, provide coordinates, water accounting data, and a comparison with the previous reporting year.

W6. Governance

W6.1

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

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

W6.1a

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

	Scope	Content	Please explain
Row 1	Company-wide	Description of business dependency on water Description of business impact on water Description of water-related performance standards for direct operations Description of water-related standards for procurement Reference to international standards and widely-recognized water initiatives Commitment to align with public policy initiatives, such as the SDGs Commitments beyond regulatory compliance Commitment to stakeholder awareness and education	Occidental's Health Environment and Safety Management System (HESMS) encompasses our programs, standards, operational strategies and integrated planning designed to conserve natural resources, such as improving efficient use, recycling and reuse of water and the quality of water being treated and discharged to surface water bodies. Occidental's water stewardship policies and water management performance are also publicly communicated online and through corporate reporting. Occidental performance objectives are also aligned with the United Nations Sustainable Development Goals (SDGs). The SDGs give Occidental a complimentary framework to use and to communicate its supportive role with host governments. Occidental will strive to incorporate the SDGs into our Social Responsibility programs and to identify additional opportunities to help countries make progress towards achieving the Goals.

		Commitment to water stewardship and/or collective action Recognition of environmental linkages, for example, due to climate change	
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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
Director on board	<p>To support the Board's oversight of strategy and risk management, senior management regularly reports to the Board on environmental and sustainability matters, including water-related risks and opportunities. This interaction takes place informally during regular business, scheduled meetings and during annual strategy sessions.</p> <p>The Environmental Committee reviews and discusses water and climate-related risks and opportunities with management and oversees Occidental's environmental, health and safety programs and performance. One of the specific responsibilities of the Environmental Committee outlined in its charter is to review and discuss water-related risks and opportunities with Occidental's senior management.</p> <p>The Board's newly formed Sustainability and Shareholder Engagement Committee reviews and oversees Occidental's external reporting on environmental, social and governance and sustainability matters.</p> <p>In addition, the Audit Committee oversees Occidental's Enterprise Risk Management (ERM) process, which involves a cross-functional team that reports to our ERM Council, a group of senior executives collectively responsible for policies and procedures involved in measuring, monitoring, managing and reporting enterprise risks, including climate risk.</p>

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 acquisitions and divestiture Overseeing major capital expenditures Reviewing and guiding major plans of action Reviewing and guiding risk management policies Reviewing and guiding strategy Reviewing and guiding corporate responsibility strategy Setting performance objectives	<p>Our Board of Directors (Board) include the consideration of water-related risks and opportunities in our strategic planning. The Board addresses water and associated climate risk factors and is committed to continuous evaluation of the impact of these risks on our business. For more than a decade, the Board has discussed environmental, social and governance (ESG) issues significant to our business at its regular meetings.</p> <p>Our integration of water risk-related issues into our business strategy and environmental stewardship helps inform our active shareholder engagement. The Board has made it a priority to include the consideration of water risks and scarcity issues in our strategic planning.</p> <p>In 2019, we reached out to our largest stockholders and other interested ESG stakeholders to discuss matters related to the 2019 Annual Meeting and to gather feedback on our first climate report publication. In the fall, we conducted a broad-based engagement, and offered telephonic or in-person meetings with stockholders collectively representing a majority of Occidental's shares outstanding to engage on ESG issues, including water-related risks and opportunities, especially as they address operational efficiencies and support the delivery of the United Nations Sustainable Development Goals. One or more of our independent directors participated in several of these meetings, demonstrating the Board's commitment to transparent engagement and the value the Board places on directly hearing the views of our stockholders.</p>

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)

Responsibility

Both assessing and managing water-related risks and opportunities

Frequency of reporting to the board on water-related issues

As important matters arise

Please explain

As part of Occidental's governance and risk management processes, the CEO and senior management regularly reports to the entire Board of Directors on environmental and sustainability matters, including water and associated climate-related risks and opportunities. Occidental's executive-level Director of Water Strategy manages the oil and gas development plans in an integrated and collaborative manner, across different business assets and geographic basins. The goal is to grow the business through the application of a full-cycle, cost-efficient water management program focused on smart sourcing of water, the recycling and re-use of produced water and environmentally sound treatment and disposal.

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	Following the acquisition of Anadarko Petroleum, the Compensation Committee reviewed and set performance metrics and targets for the executive officers including the annual cash incentive award and performance-based long-term incentive awards. Up to 20% of the potential payout incentives focus on sustainability and climate-related issues, but not water-specific issues.

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

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?


Occidental's policies and robust management systems foster and reinforce ethical business practices that are consistently sound, highly principled and transparent. Occidental's Board and senior management understand that climate and water issues, like other business concerns, are continuously evolving. Occidental is committed to transparency around our environmental-risk efforts and strategic planning. Outcomes of the processes to integrate water-related considerations into our business strategy help inform our active engagement with institutional stockholders, state and national-level regulators, industry associations, research and technology collaborations, environmental groups and other public stakeholders.

Occidental works constructively with governments, industry actors and civil society organizations to facilitate the development of viable global policies and regulatory frameworks. Occidental also participates in domestic and international industry initiatives, such as with the American Petroleum Institute (API), IPIECA, and the American Chemistry Council (ACC) that focus on smart regulations, industry solutions, achieving the UN Sustainable Development Goals and global climate change-related risks and opportunities.

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)

 2020-Proxy-Statement.pdf

 2019-Form-10K.pdf

W7. Business strategy

W7.1

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

	Are water-related issues integrated?	Long-term time horizon (years)	Please explain
Long-term business objectives	Yes, water-related issues are integrated	5-10	As part of our investment decision process, we evaluate a wide range of opportunities and consider the associated risks, such as technical subsurface challenges and technical progress, regulatory and

			environmental developments, geopolitics, macro commodity-price outlooks and localized climate adaptation and mitigation.
Strategy for achieving long-term objectives	Yes, water-related issues are integrated	5-10	Each year, as part of Occidental's Health, Environment and Safety strategic planning process, water-related issues are integrated.
Financial planning	Yes, water-related issues are integrated	5-10	As part of Occidental's Health, Environment and Safety strategic planning and multi-year budgeting process, water-related issues are integrated and accounted.

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)

9.8

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

-10

Water-related OPEX (+/- % change)

45.5

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

6

Please explain

Our increased CAPEX/OPEX in 2019 reflects a larger asset base (post-acquisition), and water treatment/disposal costs in the Rockies region.

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	Climate-related risks are integrated into the HESMS and strategic planning process to support readiness for emerging challenges and opportunities. Taking into consideration a range of energy scenarios, Occidental factors carbon pricing and energy intensity assumptions to understand a range of risk around commodity prices, returns on capital, and the risks and opportunities of greenhouse gas (GHG) abatement and CO2 utilization options. The scope of this assessment includes the consideration of international accords, treaties, legislation, regulation and fiscal policy initiatives that may affect the raw materials, other inputs and costs to produce our products, and the demand for and the restrictions on the use of our products. The process of risk evaluation also includes potential physical and social impacts (i.e., climate adaptation capacity) relating to severe weather events and disruption due to proximity to flood-prone and water-stressed areas.
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W7.3a

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

Yes

W7.3b

(W7.3b) What water-related outcomes were identified from the use of climate-related scenario analysis, and what was your organization’s response?

	Climate-related scenarios and models applied	Description of possible water-related outcomes	Company response to possible water-related outcomes
Row 1	2DS IEA Sustainable Development Scenario	The scope of our scenario analysis and risk assessment includes the consideration of international accords, treaties, legislation, regulation and fiscal policy initiatives that may affect the raw materials, other inputs and costs to produce our products, and the demand for and the restrictions on the use of our products. The process of risk evaluation also includes potential physical and social impacts relating to severe weather events and disruption due to proximity to flood-prone and water-stressed areas.	Specifically, the IEA SDS highlights that more than half the global population lacks access to proper sanitation services, and more than a third of the global population is affected by water scarcity. Energy is an essential part of the solution, and IEA's analysis shows that a range of potential synergies exist between water (SDG 6) and energy (SDG 7). We believe our strategy for resilience — utilizing and sequestering CO2 at a price and volume that adjusts relative to potential economic or regulatory carbon constraints or

			<p>incentives — is flexible in various carbon-constrained and potentially water-stressed scenarios, while still aligning with the Paris climate accord goals.</p> <p>We will continue to evaluate new scenarios, and reassess our asset portfolio based on material changes in leading market forecasts or carbon pricing regimes or significant changes to our asset mix.</p>
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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

Occidental does not use an internal price on water.

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	Business level specific targets and/or goals	<p>Targets are monitored at the corporate level</p> <p>Goals are monitored at the corporate level</p>	<p>Occidental's success is built on technical expertise, business acumen, strong partnerships and our proven ability to deliver lasting results. Occidental uses a range of resource efficiency targets to drive continuous improvements that help us manage our energy and water consumption and to maximize shareholder value and remain a partner of choice for our stakeholders.</p>

W8.1a

(W8.1a) Provide details of your water targets that are monitored at the corporate level, and the progress made.

Target reference number

Target 1

Category of target

Water withdrawals

Level

Business activity

Primary motivation

Risk mitigation

Description of target

Limiting water withdrawal, especially from potable and freshwater sources, as much as possible. Occidental reports on the performance of specific operations rather than company-wide aggregate metrics.

Quantitative metric

% increase in water use met through recycling/reuse

Baseline year

2012

Start year

2015

Target year

2020

% of target achieved

Please explain

Occidental is increasing the rate of recycling and reuse of water, which decreases our freshwater withdrawals, but also the need for transportation and disposal of water. Occidental has implemented major water treatment, reuse and recycling projects. We strive to minimize the use of potable water sources and maximize the re-use of produced (flowback/high-saline) water.

In the Permian Delaware Basin, our industry-leading water recycling program achieves more than 90% recycling rate at new locations; Occidental's consumption of freshwater is less than 10% while the industry average is about 68%. In our Permian operations in New Mexico, we expect more than 80% of water used, in 2019, will be recycled, and we

are striving for 95%. Since the inception of this Permian-based program in 2016, 2.7 million barrels of produced water have been recycled.

Target reference number

Target 2

Category of target

Community engagement

Level

Company-wide

Primary motivation

Shared value

Description of target

Stakeholder engagement is both a central activity at Oxy and a catalyst for continuous improvement in our social responsibility policies, practices and reporting. We are committed to building trust with our stakeholders through regular and transparent communication and positive community outreach. Occidental's goal is to consider the self-sufficiency, sustainability, health, safety and environment of the communities in which we operate, and to conduct our business as a responsible corporate citizen.

Quantitative metric

Total number of population participating in community-engagement activities

Baseline year

2016

Start year

2016

Target year

2020

% of target achieved

Please explain

In Oman, for example, more than 1,000 inhabitants of the villages surrounding the Mukhaizna Field receive potable water from Occidental Oman's Water Provision Project.

Target reference number

Target 3

Category of target

Water withdrawals

Level

Business activity

Primary motivation

Cost savings

Description of target

Although operations that use Enhanced Oil Recovery (EOR) tend to require more water than operations in the primary recovery phase, Occidental strives to use non-freshwater and recycled or reused sources in place of freshwater for both types of operations. Occidental also obtains water from other non-potable sources, seeking to use the lowest-quality water acceptable for operational activities, and it recycles produced water and wastewater wherever feasible.

Quantitative metric

Absolute reduction in total water withdrawals

Baseline year

2012

Start year

2016

Target year

2020

% of target achieved

Please explain

The extraction, processing, treatment and reinjection of produced water is integral to the design and efficient operation of Occidental's mature oil and gas fields, including water flooding and EOR operations. Occidental's operations employ advanced production technologies and control systems to enhance the efficiency of resource utilization, including both energy and water. Occidental also is developing new or enhancing existing water-related technologies, including the treatment of produced water and wastewater streams. We also continue to evaluate new opportunities for beneficial reuse of water, such as for our chemicals production, non-potable municipal, ecological or agricultural use.

W8.1b

(W8.1b) Provide details of your water goal(s) that are monitored at the corporate level and the progress made.

Goal

Providing access to safely managed Water, Sanitation and Hygiene (WASH) in workplace

Level

Company-wide

Motivation

Corporate social responsibility

Description of goal

All Occidental facilities and operations are required to provide workplace WASH access.

Baseline year

2012

Start year

2016

End year

2020

Progress

Implemented and sustaining 100% completion rate.

Goal

Engaging with customers to help them minimize product impacts

Level

Business

Motivation

Brand value protection

Description of goal

Improve coordination of and gain efficiency from Occidental's Integrated Planning and Procurement - for both oil and gas and chemicals business segments.

Baseline year

2012

Start year

2016

End year

2020

Progress

Occidental also works with its service contractors to improve water efficiency. Efficiency programs that save water will also save energy and vice versa. Energy and water

efficiency can help achieve other objectives, such as emission reductions, water conservation and enhance our social license to operate with stakeholders. Through direct engagements with its own suppliers and customers and by engaging through industry associations, Occidental evaluates and reports on environmental performance, water stewardship and best management practices with customers, suppliers and other value chain participants.

Specifically, OxyChem's Supply Chain Performance Management improves supply chain efficiency by continually monitoring performance. The cornerstone of OxyChem's Supply Chain Performance Management is its "Supply Chain Scorecard," a custom report on supply chain efficiency between our customer and OxyChem. Together with its customers, OxyChem Customer Relations Representatives review data and metrics to identify possible supply chain opportunities.

Goal

Other, please specify
Alignment of water stewardship approach

Level

Business

Motivation

Water stewardship

Description of goal

Perform a comprehensive water management assessment at each major oil and gas and chemicals facility. The assessment includes the use of Occidental's HESMS and may be augmented with other tools such as the GEMI Local Water Tool (GEMI LWT) and facilitates consistent tracking and management of our water use, discharge, and consumption to ensure that these are consistent with community interests near operations and do not adversely impact the environment.

Baseline year

2012

Start year

2016

End year

2020

Progress

Implemented and sustaining: Occidental has recently begun the process of incorporating the United Nations Sustainable Development Goals (e.g., Clean Water and Sanitation, and Ensure Sustainable Responsible Consumption and Production Patterns) into our risk assessments and Social Responsibility programs to identify

additional opportunities to help our partners make progress towards achieving the Goals.

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.

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 Advisor, Corporate Sustainability	Environment/Sustainability manager

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

SW. Supply chain module

SW0.1

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

	Annual revenue
Row 1	20,393,000,000

SW0.2

(SW0.2) Do you have an ISIN for your organization that you are willing to share with CDP?

No

SW1.1

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

No facilities were reported in W5.1

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	No, this is confidential data	

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?

No

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

Please state the main reason why you are declining to respond to your Customers

Prefer to work directly with customer, not through a third party

DRAFT