

W0. Introduction

W0.1

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

Celanese Corporation is a global technology leader in the production of differentiated chemistry solutions and specialty materials used in most major industries and consumer applications. Our two complementary business cores, Acetyl Chain and Materials Solutions, use the full breadth of Celanese’s global chemistry, technology and business expertise to create value for our customers and the corporation. As we partner with our customers to solve their most critical business needs, we strive to make a positive impact on our communities and the world through The Celanese Foundation. Based in Dallas, Celanese employs approximately 7,700 employees worldwide and had 2020 net sales of \$5.7 billion. For more information about Celanese and our product offerings, visit www.celanese.com or our blog at www.celaneseblog.com.

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 2020	December 31 2020

W0.3

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

- Belgium
- Brazil
- Canada
- China
- Germany
- India
- Italy
- Mexico
- Netherlands
- Singapore
- Sweden
- Switzerland
- United Kingdom of Great Britain and Northern Ireland
- United States of America

W0.4

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

- USD

W0.5

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

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

W0.6

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

- Yes

W0.6a

(W0.6a) Please report the exclusions.

Exclusion	Please explain
Offices	We have not yet implemented a system to track water impacts in offices located outside of our manufacturing facilities locations.

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freshwater available for use	Vital	Vital	In 2020 freshwater withdrawal volumes were estimated at 79% of total water withdrawn. Water is needed for Celanese manufacturing operations. Water is used in many ways including, for steam generation, cooling, washing, as a solvent and as a product ingredient. There is also a need for potable water for on-site employees and contractors.
Sufficient amounts of recycled, brackish and/or produced water available for use	Important	Important	In 2020, recycled water was approximately 1.3% of total water withdrawals. Recycled water volumes include water used more than once, including treated wastewater effluent and condensate reused from the generation of steam.

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%	Celanese collects data on water withdrawals for each facility in a global database system. Data entry has specific standardized reporting requirements and facilities receive training on this system. Facility water withdrawals are measured and monitored based on meters, instrumentation and/or monthly utility bills. Each facility works to ensure that sufficient quantities of water are available for reliable operations.
Water withdrawals – volumes by source	100%	Celanese collects data on water withdrawals for each facility in a global database system. Data entry has specific standardized reporting requirements and facilities receive training on this system. Facility water withdrawals are measured and monitored based on meters, instrumentation and/or monthly utility bills. Each facility works to ensure that sufficient quantities of water are available for reliable operations.
Entrained water associated with your metals & mining sector activities - total volumes [only metals and mining sector]	<Not Applicable>	<Not Applicable>
Produced water associated with your oil & gas sector activities - total volumes [only oil and gas sector]	<Not Applicable>	<Not Applicable>
Water withdrawals quality	100%	Celanese facilities may perform testing of incoming water as determined by specific operating plans and procedures. Treatment to demineralize water may occur at some facilities to operate and maintain cooling, heating and steam systems.
Water discharges – total volumes	100%	Celanese collects data on water discharges for each facility in a global database system. Data entry has specific standardized reporting requirements and facilities receive training on this system. Facility water discharges are measured and monitored based on meters, instrumentation and/or monthly utility bills.
Water discharges – volumes by destination	100%	Celanese collects data on water discharges for each facility in a global database system. Data entry has specific standardized reporting requirements and facilities receive training on this system. Facility water discharges are measured and monitored based on meters, instrumentation and/or monthly utility bills.
Water discharges – volumes by treatment method	1-25	Celanese facilities that treat wastewater and directly discharge treated effluent to the environment are included in this reporting element. These facilities treat and monitor effluent discharges under government-issued discharge permits and regulatory authorities.
Water discharge quality – by standard effluent parameters	1-25	Celanese facilities that treat wastewater and directly discharge treated effluent to the environment are included in this reporting element. These facilities treat and monitor effluent discharges under government-issued discharge permits and regulatory authorities.
Water discharge quality – temperature	1-25	Celanese facilities that treat wastewater and directly discharge treated effluent to the environment are included in this reporting element. These facilities treat and monitor effluent discharges under government-issued discharge permits and regulatory authorities.
Water consumption – total volume	100%	Celanese collects data on water discharges for each facility in a global database system. Data entry has specific standardized reporting requirements and facilities receive training on this system. Facility discharges are measured and monitored based on meters, instrumentation and/or monthly utility bills. Celanese follows the calculation method to derive consumption volumes (water withdrawals minus water discharges).
Water recycled/reused	100%	Celanese facilities recycled/reused approximately 1.3% of total water withdrawals. Recycled water volumes include water used more than once, including treated wastewater effluent and condensate reused from the generation of steam.
The provision of fully-functioning, safely managed WASH services to all workers	100%	Celanese facilities provide permanent or temporary access to clean water (bottled water and/or potable water), sanitation facilities, and hygiene facilities for protective measures (e.g., hand washing stations, eye washes, and safety showers). Additionally, we provide temporary services to workers during large capital projects or turnarounds where temporary workforces will be working at our facilities.

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	150097	This is our first year of measurement	This is Celanese's first formal year of CDP water disclosure reporting. Future years will include a comparison of prior year volumes.
Total discharges	135357	This is our first year of measurement	This is Celanese's first formal year of CDP water disclosure reporting. Future years will include a comparison of prior year volumes.
Total consumption	14740	This is our first year of measurement	This is Celanese's first formal year of CDP water disclosure reporting. Future years will include a comparison with prior year volumes.

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	This is our first year of measurement	WRI Aqueduct	Celanese, working with the WRI Aqueduct Water Risk Atlas tool identified 10.5% of total water withdrawals are from regions with high /extremely high "baseline water stress" scores. This indicator reflects water stress in terms of the quantity of water resource available. Work is ongoing to develop a comprehensive water risk assessment process for direct operations and we recently began evaluating risk tools such as the Ecolab Smart Water Navigator/Water Risk Monetizer.

W1.2h

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

	Relevance	Volume (megaliters/year)	Comparison with previous reporting year	Please explain
Fresh surface water, including rainwater, water from wetlands, rivers, and lakes	Relevant	118531	This is our first year of measurement	Celanese collects data on water withdrawal sources for each facility in a global data base system. Data entry has specific standardized reporting requirements and facilities receive training on this system. Facility water withdrawal is measured and monitored based on meters, instrumentation and/or monthly utility bills. In 2020, 79% of water withdrawals were from surface water sources.
Brackish surface water/Seawater	Relevant	0	This is our first year of measurement	Volume reported is zero, however our global database system has the capability to track this volume in the future should our facilities withdraw brackish surface waters.
Groundwater – renewable	Relevant	11245	This is our first year of measurement	Celanese collects data on water withdrawal sources for each facility in a global database system. Data entry has specific standardized reporting requirements and facilities receive training on this system. Facilities water withdrawal is measured and monitored based on meters, instrumentation and/or monthly utility bills. In 2020, 7.5% of water withdrawals were from groundwater wells.
Groundwater – non-renewable	Relevant	0	This is our first year of measurement	Volume reported is zero, however our global database system has the capability to track this volume in the future should our facilities withdraw groundwater from non-renewable sources.
Produced/Entrained water	Relevant	0	This is our first year of measurement	Volume reported in zero, however our global database system has the capability to track this volume in the future.
Third party sources	Relevant	20231	This is our first year of measurement	Celanese collects data on water withdrawal sources for each facility in a global data base system. Data entry has specific standardized reporting requirements and sites receive training on this system. Facilities water withdrawal is measured and monitored based on meters, instrumentation and/or monthly utility bills. In 2020, 13.5% of water withdrawals were from third party sources.

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?

Yes, fines, enforcement orders or other penalties but none that are considered as significant

W3. Procedures

W3.3

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

No, water risks-related are not assessed

W3.3e

(W3.3e) Why does your organization not undertake a water-related risk assessment?

	Primary reason	Please explain
Row 1	We are planning to introduce a risk assessment process within the next two years	In 2020 Celanese started to track facility water intake and discharge, percent water consumption and intake in water scarce areas (using WRI baseline water stress score). In 2021 Celanese formed a water stewardship committee to guide the water risk assessment process, provide water management guidance and support integration of water risk into the Enterprise Risk Management (ERM) process. Work is ongoing to develop a comprehensive water risk assessment process for direct operations and we recently began evaluating risk tools such as the Ecolab Smart Water Navigator/Water Risk Monetizer.

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

W4.2b

(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	Evaluation in progress	In 2020 Celanese started to track facility water intake and discharge, percent water consumption and intake in water scarce areas (using the WRI baseline water stress score). In 2021 Celanese formed a water stewardship committee to guide the water risk assessment process, provide water management guidance and support integration of water risk into the ERM process. Work is ongoing to develop a comprehensive water risk assessment process for direct operations and we recently began evaluating risk tools such as the Ecolab Smart Water Navigator/Water Risk Monetizer.

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

Other, please specify (Circular economy products that reduce use of new raw material and environmental impacts)

Company-specific description & strategy to realize opportunity

At Celanese, we strive to create opportunities in which we can offer products and applications that maximize the value of our resources. Through our advancements in circular economy, we are able to renew and restore materials at all phases of a product's life cycle. This reduces the disposal of valuable materials and the amount of new raw materials obtained from our environment, which decreases energy usage and pollution. Examples of Celanese products that illustrate this opportunity include: Recycled content products which are post-industrial or post-consumer that contain recycled content while still maintaining the quality, consistency and performance of the material (Ecomid®, Polifor®, Celanex®, Impet®). End-of-Life products that can be restored and reused from the waste stage of life and turned into new materials and products (Blue Ridge®, Clarifoil®).

Estimated timeframe for realization

Current - up to 1 year

Magnitude of potential financial impact

Unknown

Are you able to provide a potential financial impact figure?

No, we do not have this figure

Potential financial impact figure (currency)

<Not Applicable>

Potential financial impact figure – minimum (currency)

<Not Applicable>

Potential financial impact figure – maximum (currency)

<Not Applicable>

Explanation of financial impact

Overall impact is expected to be positive as market demand for sustainable products increases.

Type of opportunity

Resilience

Primary water-related opportunity

Other, please specify (Operation Clean Sweep® commitment to protect waterways)

Company-specific description & strategy to realize opportunity

Celanese recently joined Operation Clean Sweep® a global organization, formed 30-years ago to help industry implement good housekeeping and pellet containment practices to prevent plastics from entering the environment through streams, waterways or oceans. Celanese engineered materials manufacturing facilities strive to implement good practices to prevent plastic pellets from entering storm water that flows into waterways.

Estimated timeframe for realization

Current - up to 1 year

Magnitude of potential financial impact

Unknown

Are you able to provide a potential financial impact figure?

No, we do not have this figure

Potential financial impact figure (currency)

<Not Applicable>

Potential financial impact figure – minimum (currency)

<Not Applicable>

Potential financial impact figure – maximum (currency)

<Not Applicable>

Explanation of financial impact

The impact is expected to be minimal as the OCS good practices closely align with our existing facility material handling objectives and corporate stewardship policy.

W6. Governance

W6.1

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

No, but we plan to develop one within the next 2 years

W6.2

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

No

W6.2c

(W6.2c) Why is there no board-level oversight of water-related issues and what are your plans to change this in the future?

	Primary reason	Board level oversight of water-related issues will be introduced in the next two years	Please explain
Row 1	None in 2020	Yes	In April 2021 the Nominating and Corporate Governance Committee charter was updated to provide oversight of public reporting of ESG metrics and targets, which is expected to include water metrics.

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 committee, please specify (Environmental, Social and Governance (ESG) Council)

Responsibility

Other, please specify (Sustainability strategy and communications)

Frequency of reporting to the board on water-related issues

As important matters arise

Please explain

The Environmental, Social and Governance (ESG) Council was established by the Celanese CEO in 2019, and the ESG Council reports regularly to the CEO. At least quarterly an update is provided to the board. The ESG Council is led by our SVP and General Counsel and is made up of senior leaders from key ESG-related functional and business areas with special representation from our regional leadership. The purpose of the ESG Council is to develop a strategy and framework for ongoing communications to key stakeholders on ESG topics material to the company's long-term success. ESG recommendations are reviewed for approval by the Executive Leadership Team (ELT) prior to going to the Board for review where appropriate. The ELT is led by the CEO and consists of a small group of the company's most senior executive leaders.

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

Other, please specify (Water Stewardship Committee)

Responsibility

Assessing water-related risks and opportunities

Frequency of reporting to the board on water-related issues

Not reported to board

Please explain

In 2021 Celanese formed a water stewardship committee to guide the water risk assessment process, provide water management guidance and support integration of water risk into the ERM process.

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	The Celanese ESG Council in its advisory role, expects to evaluate and make recommendations on ESG topics material to the company's long-term success, including those involving water-related issues. ESG recommendations are reviewed for approval by the Executive Leadership Team (ELT) prior to going to the Board for review where appropriate.

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	Long-term Celanese recognizes that water is a vital raw material for our business and shared natural resource. Integrating water issues at the product development and operational levels is an ongoing and continuous process.
Strategy for achieving long-term objectives	Yes, water-related issues are integrated	5-10	We have started considering water impacts with the development of our circular economy products that respond to demand for recycled materials (see Section W4.3a). Additionally, at an operational level we recently established a corporate water consumption intensity reduction target to drive more efficient use and reuse of water by 2030. Also, we are moving forward to integrate ESG issues, including water-related into our annual ERM and existing financial planning processes.
Financial planning	Yes, water-related issues are integrated	5-10	Our business and financial planning processes consider the resources necessary to achieve our long-term water-related objectives in the three areas outlined below. Direct Cost: Utilities costs (including water) are based on usage and efficiency are managed and planned as part of the business and site Annual Operating Plan (AOP) process and annual productivity program and targets. Capital Allocation / Capital Expenditures: When allocating or spending capital for new technology, process efficiency or growth, energy efficiency, waste and water are factors considered as part of the decision process. This is now incorporated into our productivity database to track not only cost savings, but also other environmental impacts/benefits for air emissions, energy, waste, water, and GHG emissions. Acquisitions and Divestment: Sustainability factors are included as part of our initial data requests for any future due diligence which include: energy, efficiency, GHG emissions, waste, water, and air emissions.

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	Company-wide targets and goals	Targets are monitored at the corporate level	Celanese has established a corporate water consumption intensity target (m3/MT) of 10% reduction by 2030 by increasing water reuse, recycling and conservation. The baseline year for measuring water performance against this target is 2021. Performance will be monitored at the corporate level and disclosed in our annual Sustainability Report. Recently we committed to publicly disclosing more information on our water-related performance by following the standards established by the Sustainability Accounting Standards Board Standards for the Chemical Industry.

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 consumption

Level

Company-wide

Primary motivation

Water stewardship

Description of target

10% reduction in water consumption intensity (m3/MT) by 2030 starting in 2021

Quantitative metric

% reduction per unit of production

Baseline year

2021

Start year

2021

Target year

2030

% of target achieved

0

Please explain

Our baseline year for measuring performance with our consumption intensity target is 2021. Percent completion in meeting the water target will be provided in our Sustainability report starting in 2021.

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	Environmental Director	Environment/Sustainability manager

SW. Supply chain module

SW0.1

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

	Annual revenue
Row 1	5655000000

SW0.2

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

Yes

SW0.2a

(SW0.2a) Please share your ISIN in the table below.

	ISIN country code	ISIN numeric identifier (including single check digit)
Row 1	US	1508701034

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, we do not have this data and have no plans to collect it	N/A

SW2.1

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

Requesting member

Altria Group, Inc.

Category of project

Relationship water assessment

Type of project

Aligning goals to feed into customers targets and ambitions

Motivation

As sustainability goals become increasingly important to both parties, an early step in the process is to align on our individual goals and seek common areas of interest to work on together. Goal alignment on Water Security will allow us to understand the importance and priorities of customer goals with respect to water security and water-related risks, and to confirm the importance and help prioritize our own goals that would feed into the downstream value chain.

Estimated timeframe for achieving project

Other, please specify (1 - 3 years, depending on customer interest and project details)

Details of project

Unknown at this point. Celanese is interested in learning customer's targets and ambitions in order to discover potential projects of mutual benefit.

Projected outcome

Regular alignment on water security and water risk goals will allow both parties to prioritize and optimize projects that bring the highest value.

Requesting member

British American Tobacco

Category of project

Relationship water assessment

Type of project

Aligning goals to feed into customers targets and ambitions

Motivation

As sustainability goals become increasingly important to both parties, an early step in the process is to align on our individual goals and seek common areas of interest to work on together. Goal alignment on Water Security will allow us to understand the importance and priorities of customer goals with respect to water security and water-related risks, and to confirm the importance and help prioritize our own goals that would feed into the downstream value chain.

Estimated timeframe for achieving project

Other, please specify (1 - 3 years, depending on customer interest and project details)

Details of project

Unknown at this point. Celanese is interested in learning customer's targets and ambitions in order to discover potential projects of mutual benefit.

Projected outcome

Regular alignment on water security and water risk goals will allow both parties to prioritize and optimize projects that bring the highest value.

Requesting member

Imperial Brands

Category of project

Relationship water assessment

Type of project

Aligning goals to feed into customers targets and ambitions

Motivation

As sustainability goals become increasingly important to both parties, an early step in the process is to align on our individual goals and seek common areas of interest to work on together. Goal alignment on Water Security will allow us to understand the importance and priorities of customer goals with respect to water security and water-related risks, and to confirm the importance and help prioritize our own goals that would feed into the downstream value chain.

Estimated timeframe for achieving project

Other, please specify (1 - 3 years, depending on customer interest and project details)

Details of project

Unknown at this point. Celanese is interested in learning customer's targets and ambitions in order to discover potential projects of mutual benefit.

Projected outcome

Regular alignment on water security and water risk goals will allow both parties to prioritize and optimize projects that bring the highest value.

Requesting member

JT International SA

Category of project

Relationship water assessment

Type of project

Aligning goals to feed into customers targets and ambitions

Motivation

As sustainability goals become increasingly important to both parties, an early step in the process is to align on our individual goals and seek common areas of interest to work on together. Goal alignment on Water Security will allow us to understand the importance and priorities of customer goals with respect to water security and water-related risks, and to confirm the importance and help prioritize our own goals that would feed into the downstream value chain.

Estimated timeframe for achieving project

Other, please specify (1 - 3 years, depending on customer interest and project details)

Details of project

Unknown at this point. Celanese is interested in learning customer's targets and ambitions in order to discover potential projects of mutual benefit.

Projected outcome

Regular alignment on water security and water risk goals will allow both parties to prioritize and optimize projects that bring the highest value.

Requesting member

Symrise AG

Category of project

Relationship water assessment

Type of project

Aligning goals to feed into customers targets and ambitions

Motivation

As sustainability goals become increasingly important to both parties, an early step in the process is to align on our individual goals and seek common areas of interest to work on together. Goal alignment on Water Security will allow us to understand the importance and priorities of customer goals with respect to water security and water-related risks, and to confirm the importance and help prioritize our own goals that would feed into the downstream value chain.

Estimated timeframe for achieving project

Other, please specify (1 - 3 years, depending on customer interest and project details)

Details of project

Unknown at this point. Celanese is interested in learning customer's targets and ambitions in order to discover potential projects of mutual benefit.

Projected outcome

Regular alignment on water security and water risk goals will allow both parties to prioritize and optimize projects that bring the highest value.

Requesting member

The LEGO Group

Category of project

Relationship water assessment

Type of project

Aligning goals to feed into customers targets and ambitions

Motivation

As sustainability goals become increasingly important to both parties, an early step in the process is to align on our individual goals and seek common areas of interest to work on together. Goal alignment on Water Security will allow us to understand the importance and priorities of customer goals with respect to water security and water-related risks, and to confirm the importance and help prioritize our own goals that would feed into the downstream value chain.

Estimated timeframe for achieving project

Other, please specify (1 - 3 years, depending on customer interest and project details)

Details of project

Unknown at this point. Celanese is interested in learning customer's targets and ambitions in order to discover potential projects of mutual benefit.

Projected outcome

Regular alignment on water security and water risk goals will allow both parties to prioritize and optimize projects that bring the highest value.

SW2.2

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

No

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	Are you ready to submit the additional Supply Chain questions?
I am submitting my response	Investors Customers	Non-public	Yes, I will submit the Supply Chain questions now

Please confirm below

I have read and accept the applicable Terms