



Water Risk Assessment Summary Report 2025



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Introduction

The chemical industry can be vulnerable to water-related risks that can disrupt its operations, infrastructure, and supply chains. Water is essential to the safe and efficient operation of our business and requires responsible management and stewardship. While effective water management presents opportunities, water scarcity, pollution, and other physical and regulatory risks remain key challenges.

We are working globally to reach our goals of reducing water intensity by 10% by 2025 and 20% by 2030 from the 2020 baseline. We openly disclose our water-related data and management approach and continuously seek to improve our water performance. We manage water-related risks at our sites through effective water management practices.

We used the AQUEDUCT Water Risk Atlas developed by the World Resources Institute (WRI) and the ENCORE tool developed by UNEP-WCMC and partners to perform a comprehensive water sensitivity analysis for current and future scenarios. These tools combine various indicators of water risk, availability, withdrawal, dependency, and ecosystem services to provide a holistic picture of our water-related impacts and dependencies across our operations and value chain. Based on these tools, we conduct regular local water risk assessments and identify both the challenges and opportunities for water management.

As a responsible corporate citizen, we engage with the local communities where we operate, participate in multi-stakeholder initiatives. We continue to strengthen our stakeholder engagement approach across the value chain, with particular attention to local communities. By valuing water and committing to water conservation and efficient water use, we are progressively contributing to the achievement of SDG 6: Clean Water and Sanitation.

Indorama Ventures at a Glance

Indorama Ventures is a global leader in the chemical industry and the world’s largest producer and recycler of PET. Across our four core business segments—Combined PET, Indovida (Packaging), Fibers, and Indovina— we serve diverse end-use markets globally through innovation, high-value products, and circular solutions.

Business segments



Combined PET (CPET)



Indovida (Packaging)



Fibers



Indovina

At a Glance

Consolidated Revenues
THB 447 B

EBITDA
THB 32 B

EBITDA Margin
7%

ROCE
2.1%

Americas

36

Manufacturing Locations

4

Countries

~50%
Revenue

EMEA

37

Manufacturing Locations

19

Countries

~20%
Revenue

Asia*

41

Manufacturing Locations

8

Countries

~30%
Revenue

*Asia includes Egypt in 2025.



27,331**
Total Employees



23.62%
Female

114***

Manufacturing Locations

5

Continents

31

Countries

20

Recycling Facilities

15

R&D Centers

** This number includes both permanent and temporary employees.
*** The Sustainability Report 2025 consists of data from 142 manufacturing sites with 2 offices. Further details can be found in the full Sustainability Report 2025 (under “About this Report”).

Our Differentiation

- 1 70% of our products serving daily necessities
- 2 Leadership positions across all major markets and products we manufacture
- 3 Best-in-class management
- 4 A world-class digital and AI platform

Water Risks Globally and to Indorama Ventures



Water is an essential natural resource that supports vital functions across ecosystems and society, including human health, food security, energy supply, and human habitats.

However, water resources are facing multiple pressures from population growth, urbanization, industrialization, climate change, and pollution. The water crisis, including water stress, droughts, floods, and sea-level rise, is a growing concern worldwide.

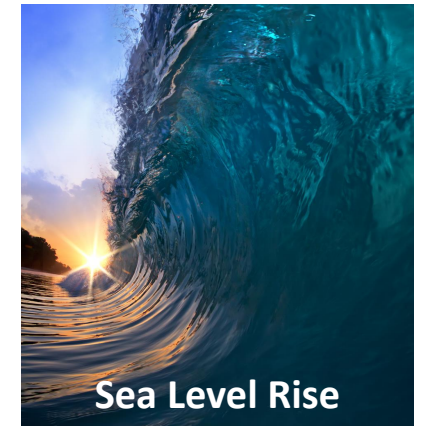
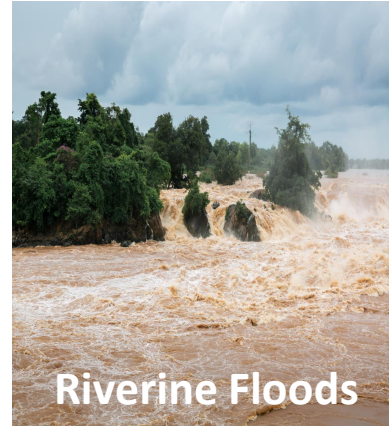
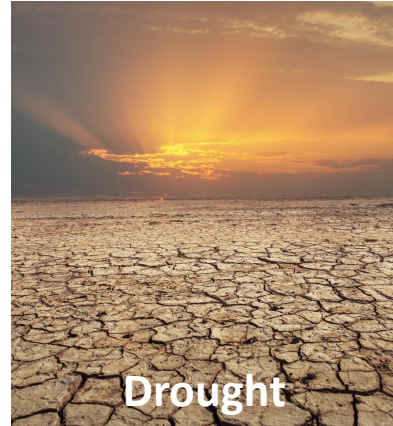
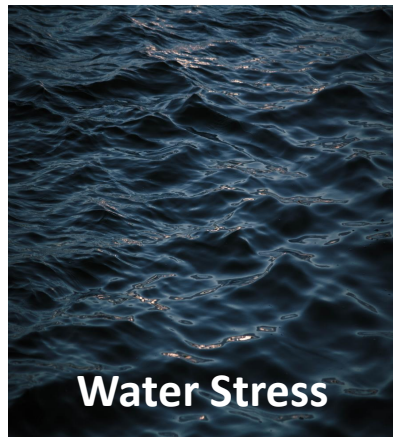
Indorama Ventures is committed to sustainable water management. As our operations are water-reliant, water-related risks can detrimentally affect our business. The water risk analysis, therefore, helps us identify both water risks and opportunities across our operating sites and supports efforts to improve water-use efficiency.

We practice responsible and sustainable water management in our operations, while ensuring compliance with all applicable legislation. Governments, businesses and communities need to adopt a responsible approach to water consumption and sustainable water management practices to address the global water crisis.

Objective of This Report

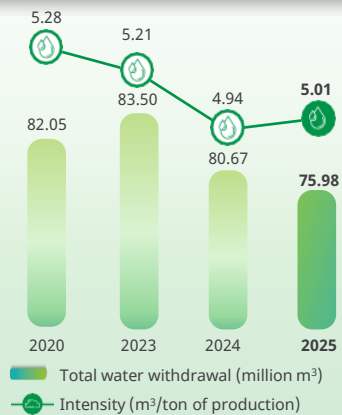
We analyzed water-related risks across Indorama Ventures' global operations using the AQUEDUCT Water Risk Atlas to address the following:

- ❑ Current water stress (2025) and projected changes in water stress by 2030
- ❑ Current drought risk (2025)
- ❑ Current riverine flood risk (2025)
- ❑ Current coastal flood risk (2025)
- ❑ Current sea level rise risk (2025)

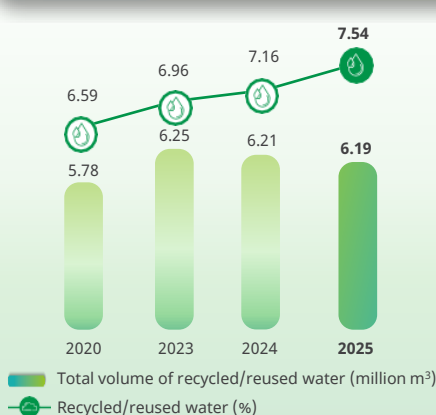


2025 Indorama Ventures' Water Performance

Total Water Withdrawal



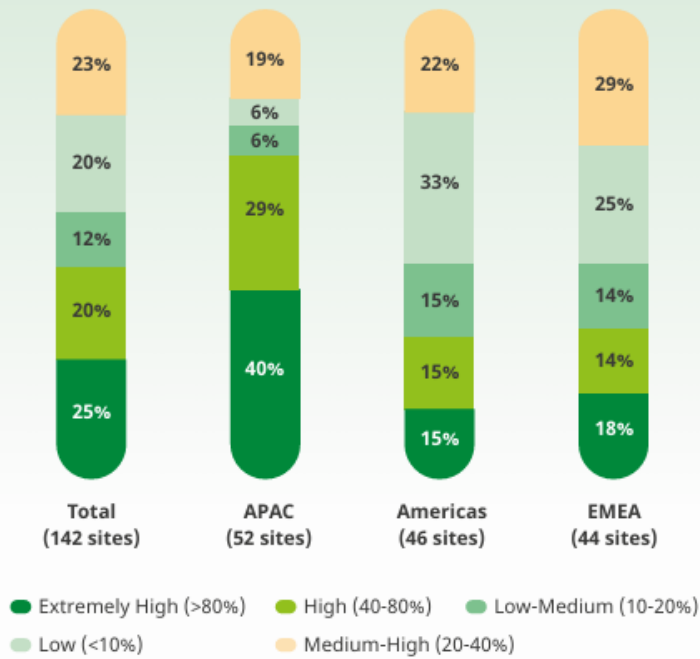
Total Recycled / Reused Water



2025 Water Stress Assessment

(% of Indorama Ventures' operations identified in water-stressed areas using the AQUEDUCT Water Risk Atlas)

2025 Water stress site



Targets

10% by 2025 and
20% by 2030

Performance

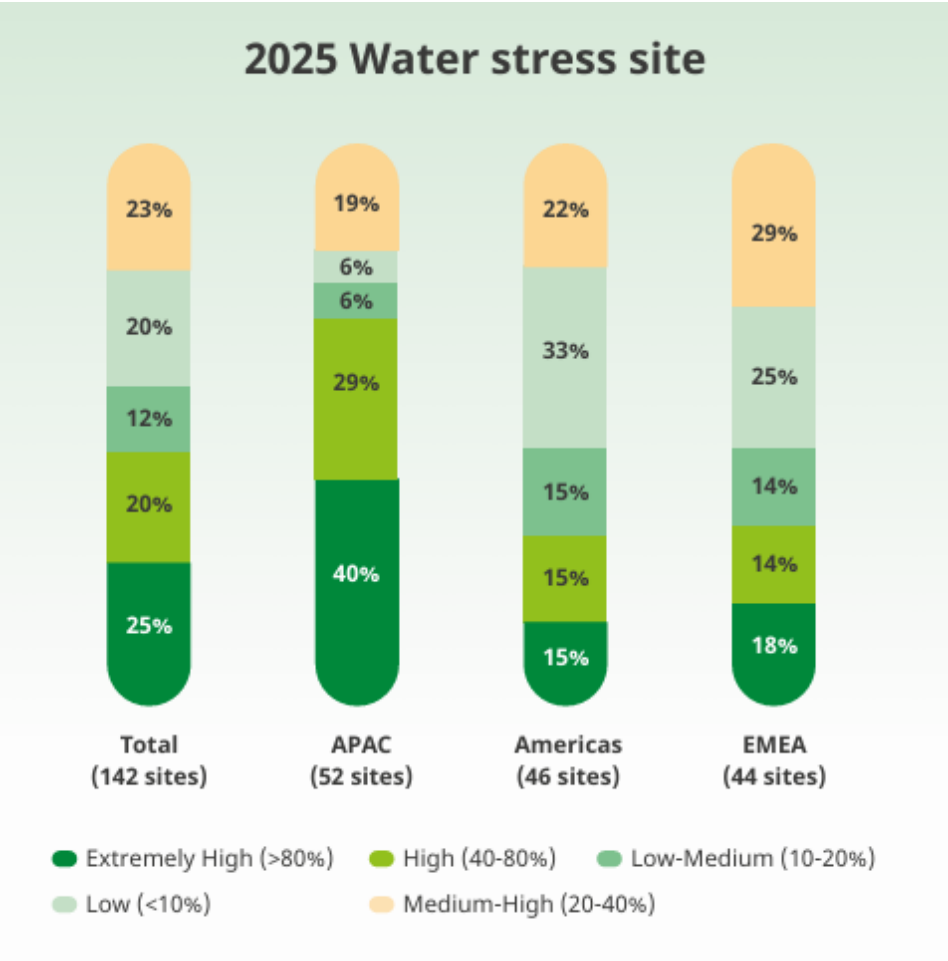
In 2025, we recorded a water intensity of 5.01 m³/ton of production, showing a 4.93% reduction against the 2020 baseline.



2025 Highlights

- 6 sites have achieved Zero Liquid Discharge
- Avgol Nonwovens India Private Limited (Halol site)
 - IVL Dhunseri Petrochem Industries Private Limited (Karnal site)
 - PT. Indorama Ventures Indonesia (PET)
 - PT. Indorama Ventures Indonesia (Fibers)
 - Schoeller Kresice s.r.o
 - TPT Petrochemicals (Branch 3)

Summary of Water Risk Analysis 2025



Number of Sites	Water Stress		Drought	Coastal flood	Riverine Flood
	2025	2030	2025	2025	2025
Extremely High	36	40	-	25	25
High	28	34	3	19	19
Medium	-	-	59	-	-
Medium – High	33	31	68	16	16
Low - Medium	16	10	9	29	29
Low	29	27	-	53	53
Total Sites	142	142	139*	142	142

*Data for three sites are unavailable in the AQUEDUCT Water Risk Atlas.



Water Stress Assessment Summary

Number of Sites by Water Stress Level	Water Stress		Regions (2025)
	2025	2030	
Extremely High	36	40	EMEA (8), Americas (7), APAC (21)
High	28	34	EMEA (6), Americas (7), APAC (15)
Medium – High	33	31	
Low – Medium	16	10	
Low	29	27	
Total	142	142	

Impacts on Indorama Ventures by Water Stress Level	Production Compared with Indorama Ventures' total production	Water Withdrawal Compared with Indorama Ventures' total water withdrawal
Extremely High	3.41 million tons	8.96 million m ³
High	3.40 million tons	18.98 million m ³

NOTE: Indorama Ventures' total production volume in 2025 = 15.16 million tons (including intercompany sales)
Indorama Ventures' total water withdrawal in 2025 = 75.98 million m³

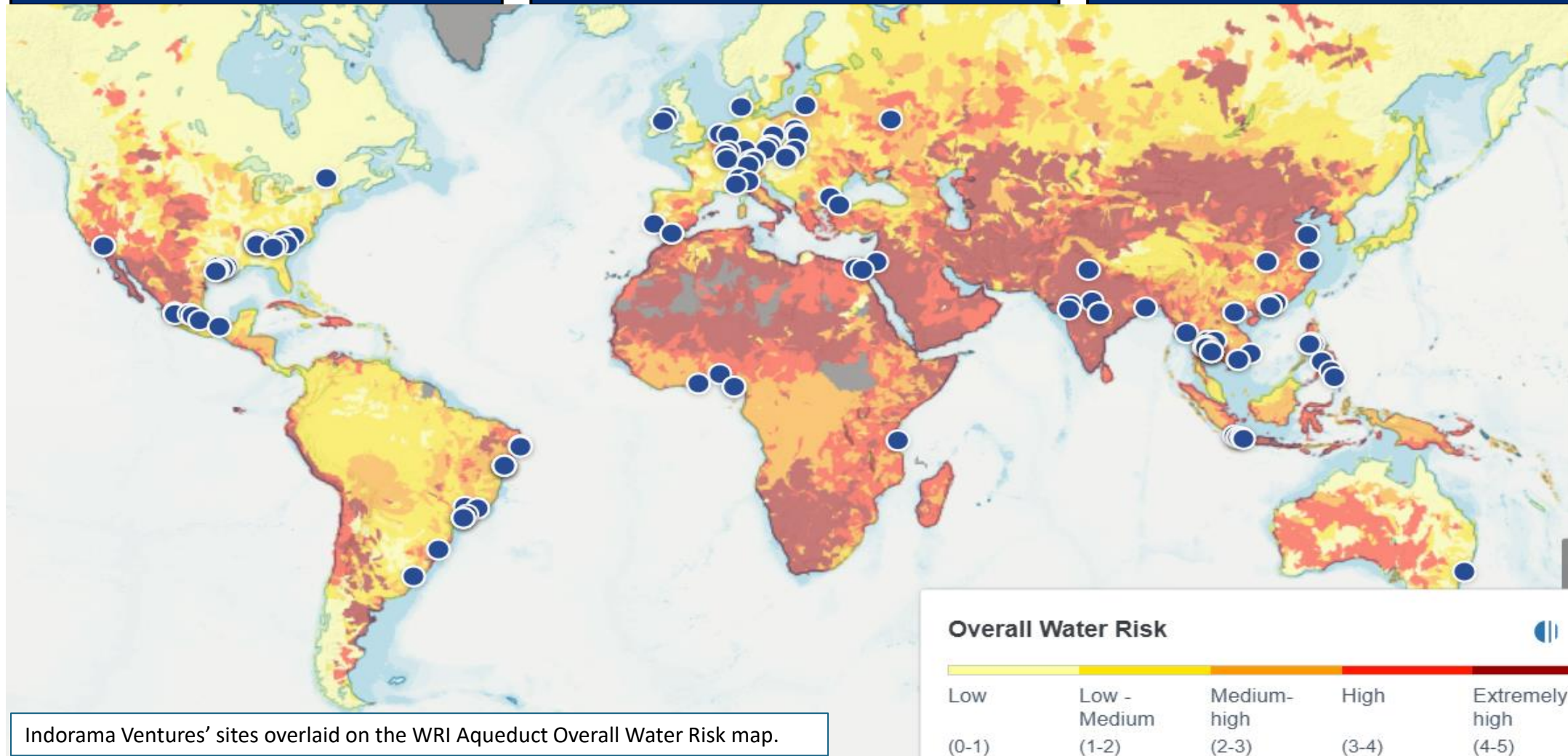
Total cost of water = THB 1,217.33 million in 2025 (actual)
Production exposed to Extremely High and High water stress = 6.81 million tons (44.92%)
Estimated 2025 EBITDA loss from plant shutdowns = at least THB 3,552 million
(Estimated EBITDA loss based on projected 90-day plant shutdowns due to water shortages at sites with Extremely High and High water stress)

Indorama Ventures: Current Conditions - 2025

Number of Manufacturing Sites
142

2025 Water Withdrawal
75.98 million m³

2025 Water Cost
THB 1,217.33 million



Estimated impacts on Indorama Ventures in 2025 from extremely high and high water-stress areas

In 2025, there were no water-related incidents affecting operations and no plant closures. However, we continued to monitor and assess the potential impacts of water scarcity and estimate the financial implications of potential disruption scenarios based on 2025 production, water cost, and cost of goods sold data.

2025 Water Cost
THB 568.76 million
 (46.72% of Indorama Ventures' total water costs of THB 1,217.33 million)

Estimated Production at Risk from Water Stress
6.81 million tons
 (44.92% of Indorama Ventures' total production volume of 15.16 million tons)

Cost of Goods Sold (COGS)
THB 178.50 billion, 44.92%
 (out of Indorama Ventures' COGS = THB 397.40 billion)

		Estimated EBITDA Loss based on the 2025 water stress assessment		
Water Stress Level	Number of sites	30-day shutdown (THB million)	60-day shutdown (THB million)	90-day shutdown (THB million)
Extremely High	36	592	1,184	1,776
High	28	592	1,184	1,776
Subtotal	64	1,184	2,368	3,552
All water-stress levels	142	2,636	5,273	7,908

Estimated impacts on Indorama Ventures in 2030

2030 Water Cost Projection

2025 Water Cost
THB 1,217.33 million

2030 Estimated Water Cost
THB 1,650.35 million

Projected Water Cost Increase
from 2025 to 2030
↑ 35.57%

Water Stress Level (2030)	Number of Sites	% of sites	Estimated Water Cost 2030 (THB million)
Extremely High (>80%)	40	28%	208.19
High (40-80%)	34	24%	683.39
Medium-High (20-40%)	31	22%	385.55
Low-Medium (10-20%)	10	7%	156.66
Low (<10%)	27	19%	216.56
Total	142	100%	1,650.35*

2030 Water Cost Projection	
Extremely High (>80%)	14%
High (40-80%)	47%
Medium-High (20-40%)	22%
Low-Medium (10-20%)	7%
Low (<10%)	10%

*Calculated using the average foreign exchange (FX) rate for 2025

Climate-related Scenarios For Physical Risks :

Description:

Optimistic

The "optimistic" scenario (SSP 1 RCP 2.6) represents It envisions a world shifting toward green technologies, reduced inequality, and low resource intensity. This pathway aims to limit global warming to well below 2°C by 2100, minimizing severe climate impacts.

Business as usual

The “Business as usual ” scenario (SSP 3 RCP 7.0) is a medium-to-high baseline emissions scenario assuming highly fragmented world and delayed technological progress. GHG roughly doubles, driving severe environmental impacts and pushing global warming toward 4.6°C.

Pessimistic

The "pessimistic" scenario (SSP 5 RCP 8.5) represent a high-emissions climate scenario depicting rapid, fossil-fueled global economic growth. It projects a radiative forcing of 8.5 W/m² and a severe temperature rise of 3.3°C to 5.7°C by 2100. Historically called a worst-case scenario.

Scenario	2030					
	Optimistic		Business as usual		Pessimistic	
	Sites	%	Sites	%	Sites	%
Low	27	19%	27	19%	27	19%
Low-medium	10	7%	10	7%	10	7%
Medium-high	36	25%	31	22%	35	25%
High	33	23%	34	24%	38	27%
Extremely high	36	25%	40	28%	32	23%
TOTAL	142	100%	142	100%	142	100%

Scenario	2050					
	Optimistic		Business as usual		Pessimistic	
	Sites	%	Sites	%	Sites	%
Low	27	19%	26	18%	25	18%
Low-medium	8	6%	10	7%	10	7%
Medium-high	34	24%	26	18%	26	18%
High	30	21%	45	32%	36	25%
Extremely high	43	30%	35	25%	45	32%
TOTAL	142	100%	142	100%	142	100%

Water Dependency

We use the ENCORE tool to analyze our dependencies on both groundwater and surface water, which are the main sources of water withdrawal across our operations. This assessment helps us identify water-related risks and opportunities, prioritize improvement actions, and develop strategies to enhance water security and operational resilience.

Upstream activities:

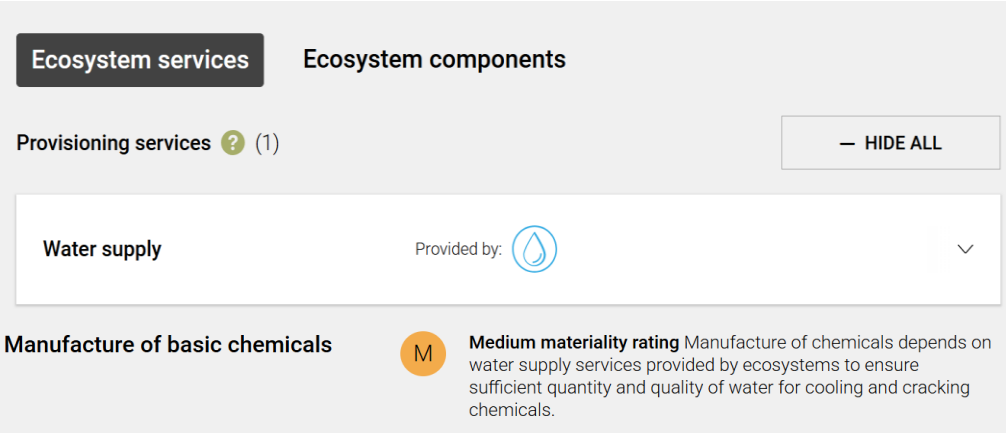
The polymerization process has a medium materiality rating. Although the process itself consumes relatively little water, it depends on ecosystem services to maintain the chemical composition and quality of water required for cooling and other critical production processes. Water quality is therefore essential to ensure safe and efficient operations. We improve water efficiency by reusing, recycling, and storing water for utility purposes across our sites. We also continuously monitor water quality to maintain the performance and reliability of our cooling systems.

Downstream activities:

The process relies heavily on water and may need to be interrupted if a continuous supply of water of sufficient quality is unavailable.

- Water is essential for recycling, as we wash flakes twice with water.
- Water is used in fiber production to cool down the yarns after extrusion.

Water treatment plants are in place at relevant sites to ensure that water is appropriately treated for water-dependent processes.



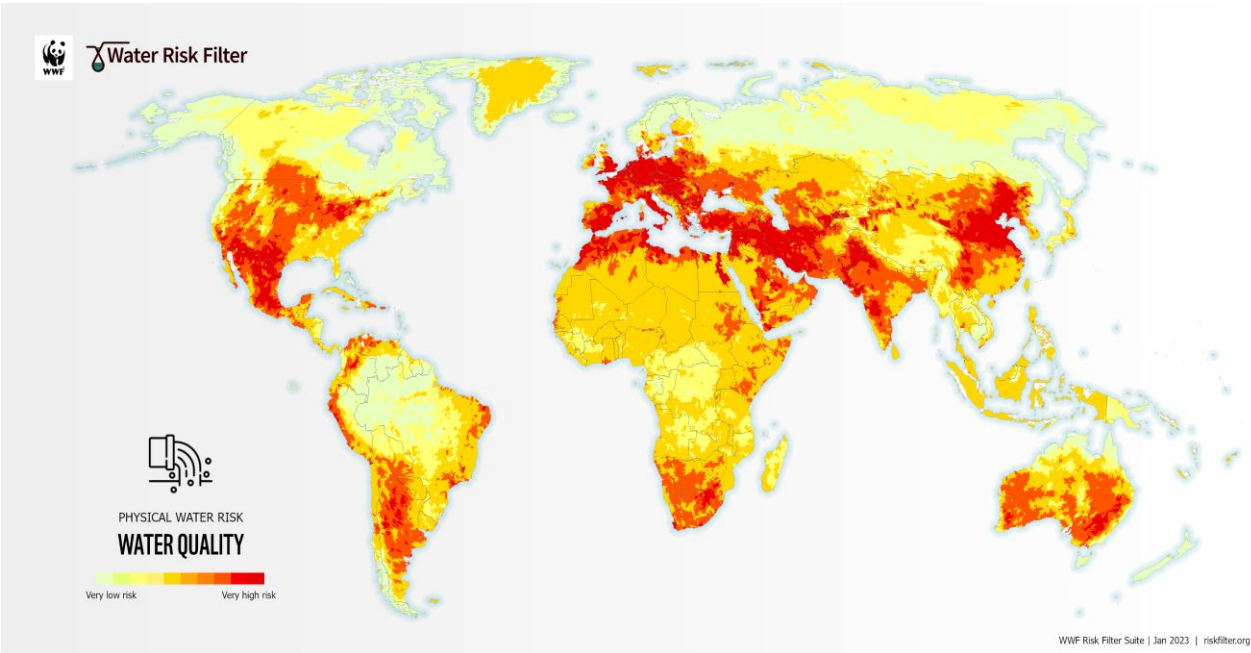
In summary, we found that our water hotspots are in the cooling systems, washing flakes, and extruded yarns. We have systems to reuse, recycle, and store water, and a water treatment plant to purify water for all units.

We also aim to improve our water efficiency and productivity by optimizing our water use and impacts, and by increasing the value added per unit of water consumed or withdrawn. Currently, six sites have achieved Zero Liquid Discharge (ZLD).

Water Quality

Water Quality Risk: Current Trend Scenario 2030

We use the WWF Water Risk Filter to assess physical water risk related to water quality in 2030, using 2020 as the baseline. The Current Trend scenario represents a world similar to current socio-economic development trends (SSP2) and intermediate GHG emission levels (RCP4.5 /RCP6.0), a pathway projected to lead to an increase in global mean surface temperature of approximately 2°C by the end of the 21st century.



Water Quality Risk in 2030 (Focused on 64 sites in Extremely High and High water-stress areas)	
Very High Risk	4 sites
High Risk	36 sites
Medium Risk	24 sites
Low Risk	0 sites
Very Low Risk	0 sites



Drought Risk Assessment Summary

Number of Sites by Drought Risk Level	2025	Regions (2025)
Extremely High	0	
High	3	APAC (3)
Medium-High	68	
Medium	59	
Low-Medium	9	
Total	139*	

*Data for three sites are unavailable in the AQUEDUCT Water Risk Atlas.

Impacts on Indorama Ventures by Drought Risk Level	Production Compared with Indorama Ventures' total production	Water Withdrawal Compared with Indorama Ventures' total water withdrawal
Extremely High	-	-
High	0.21 million tons	0.18 million m³

NOTE: Indorama Ventures' total production in 2025 including intercompany sales volume = 15.16 million tons

Production exposed to High drought risk = 0.21 million tons (1.39%)
Estimated 2025 EBITDA loss from plant shutdowns = at least THB 128.15 million
 (EBITDA loss based on projected 90-day plant shutdowns at sites with High drought risk)



Riverine Flood Risk Assessment Summary

Number of Sites by Riverine Flood Risk Level	2025	Regions (2025)
Extremely High	25	APAC (18), Americas (3), EMEA (4)
High	19	APAC (12), Americas (6), EMEA (1)
Medium-High	16	
Low-Medium	29	
Low	53	
Total	142	

Impacts on Indorama Ventures by Riverine Flood Risk Level	Production Compared with Indorama Ventures' total production
Extremely High	2.84 million tons
High	1.39 million tons

NOTE: Indorama Ventures' total production in 2025 including intercompany sales volume = 15.16 million tons

Production exposed to Extremely High and High riverine flood risk = 4.23 million tons (27.90%)
Estimated 2025 EBITDA loss from plant shutdowns = at least THB 2,508.94 million
(EBITDA loss based on projected 90-day plant shutdowns at sites with Extremely High and High riverine flood risk)



Coastal Flood Risk Assessment Summary

Number of Sites by Coastal Flood Risk Level	2025	Regions (2025)
Extremely High	25	EMEA (4), Americas (3) , APAC (18)
High	19	EMEA (1), Americas (6), APAC (12)
Medium-High	16	
Low-Medium	29	
Low	53	
Total	142	

Impacts on Indorama Ventures by Coastal Flood Risk Level	Production Compared with Indorama Ventures' total production
Extremely High	2.84 million tons
High	1.39 million tons

NOTE: Indorama Ventures' total production in 2025 including intercompany sales volume = 15.16 million tons

Production exposed to Extremely High and High coastal flood risk = 4.23 million tons (27.90%)
Estimated 2025 EBITDA loss from plant shutdowns = at least THB 2,508.94 million
(EBITDA loss based on projected 90-day plant shutdowns at sites with Extremely High and High coastal flood risk)



Sea Level Rise Risk Assessment Summary

Impacts on Indorama Ventures

To date, we have not experienced any operational impacts from sea-level rise.

We continue to monitor this risk and have a business continuity plan in place to manage the risk and respond effectively.

Water-related business risks



- **Physical:**

A business facing physical water-related risks may experience operational disruptions due to a lack of water supplies or services. This can be the result of prolonged water scarcity due to droughts, damage to infrastructure and/or water supply disruptions due to floods, or polluted water that is unfit for operational use.

- **Regulatory:**

Corporate water use and management may be affected by regulatory risks that arise from changes in laws and regulations. Such regulatory changes may be driven by issues such as water scarcity and competition among sectors for water resources.

- **Reputational:**

A business may face reputational risks from actual or perceived adverse water-related impacts on water sources, ecosystems and communities. Such risks may reduce stakeholder trust and the company's brand value, and may affect the company's social license to operate.

Near-term mitigation measures

- The risk management committees of plants and business segments regularly monitor potential regulatory changes and evaluate water risks and opportunities through scenario analysis.
- We undertake natural disaster risk assessments of our sites to determine risk levels and the mitigation measures and interventions required, using risk assessment standards in collaboration with Environmental, Health & Safety, and Group Insurance.
- We establish "minimum expectations" for assessment, preparedness, and response planning, including emergency procedures for natural disasters such as hurricanes, winter freezes, and flooding.
- We conduct a water sensitivity analysis using the AQUEDUCT Water Risk Atlas developed by the World Resources Institute (WRI) to identify water stress locations. This tool helps us evaluate changes in water demand, water supply, risks from stakeholders and changes in regulations based on current and future conditions.
- We evaluate options and the potential to reduce water consumption, increase the recycling and reuse of wastewater, and collect rainwater, working toward Zero Liquid Discharge (ZLD) at as many sites as possible, and establish targets at the entity and Group levels.
- We are committed to sustainable water management (including water withdrawal and discharge) by complying with all applicable environmental laws, international standards, and regulations in the countries where we have operations, and being proactive in demonstrating our leadership and responsibility in line with our values.

Impact on stakeholders

We conducted the assessment as part of our commitment to environmental sustainability and social responsibility.

We used the AQUEDUCT Water Risk Atlas developed by the World Resources Institute (WRI), as well as ENCORE and the WWF Water Risk Filter, to assess water-related risks to our business. The tools measure water-risks across 13 indicators, such as water stress, drought, flood, groundwater depletion, and water quality.

Our water risk assessments consider water-related risks and potential impacts on local stakeholders, ecosystems, and water resources, including those associated with water availability and quality. In 2025, there were no water-related incidents affecting operations, no plant closures, and no material impacts on stakeholders. We continue to monitor water-related risks, particularly in water-stressed locations, and implement appropriate water management measures to minimize potential impacts on surrounding communities and water resources.

In collaboration with local authorities, including industrial estate authorities in Thailand, we assess potential water-related impacts on local stakeholders. In 2025, six sites achieved Zero Liquid Discharge (ZLD).

We will continue to monitor water-related risks and take appropriate actions to minimize potential impacts on local communities, ecosystems, and water resources.



Contributing to SDG 6: Clean Water and Sanitation

Indorama Ventures is committed to sustainable water management and improving water-use efficiency through water-risk assessments across all our operating sites and implementation of the 3Rs (reduce, reuse, recycle).

We also collaborate with local authorities on collective actions related to water management to improve water supply efficiency and help prevent potential conflicts among stakeholders.

Additionally, we provide safe drinking water and systems to communities and schools in rural areas.

SDG Target 6.3 – Improve water quality, wastewater treatment, recycling and reuse

Water Quality

100% of wastewater is treated to meet or exceed applicable regulatory quality standards before discharge.

Water Recycling and Reuse

7.54% of water was recycled and reused.

Six sites achieved Zero Liquid Discharge (ZLD).

SDG Target 6.4 – Increase water-use efficiency and address water scarcity

Water-use Efficiency

Water intensity = 5.01 m³/ton of production

4.93% reduction in water intensity against the 2020 baseline

Water Stress

Water stress assessment is conducted annually.

25% of sites are in Extremely High water-stress areas.

20% of sites are in High water-stress areas.





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Thank you