



SDGs REPORT 2021

(Sustainable Development Goals)

THE WORLD'S SUSTAINABLE CHEMICAL COMPANY

Integrated Oxides and Derivatives | Combined PET | Fibers



CONTENTS

FOREWORD	3
SDGs 2030 AGENDA – HALFWAY THERE	5
IVL'S SDGs STRATEGY	7
KEY FOCUS AREAS	8
RELEVANT STRATEGIES	9
TARGETS	10
3 GOOD HEALTH AND WELL-BEING	11
4 QUALITY EDUCATION	12
5 GENDER EQUALITY	13
6 CLEAN WATER AND SANITATION	14
7 AFFORDABLE AND CLEAN ENERGY	15
8 DECENT WORK AND ECONOMIC GROWTH	16
9 INDUSTRY, INNOVATION AND INFRASTRUCTURE	17
11 SUSTAINABLE CITIES AND COMMUNITIES	18
12 RESPONSIBLE CONSUMPTION AND PRODUCTION	19
13 CLIMATE ACTION	20
14 LIFE BELOW WATER	21
15 LIFE ON LAND	22
17 PARTNERSHIPS FOR THE GOALS	23



FOREWORD

The SDGs in Action – the 2030 Agenda for Sustainable Development

We are committed to playing a constructive role and contributing to the achievement of the Sustainable Development Goals (SDGs).

The SDGs, also known as the Global Goals, were adopted by the United Nations in 2015 as a universal call to action to achieve a sustainable society by improving people's quality of life and solving global, social and environmental concerns.

Accordingly, through innovative and sustainable solutions and products in our business, we are creating social, environmental, and economic value as part of our corporate strategy. We are also working to mitigate any adverse impacts resulting from our operations, gaining a deeper understanding of business risks arising from social and environmental changes, as well as concerns from stakeholders to ensure our readiness and a robust response when needed. This is a key to achieving the SDGs.

In 2022, we are nearing the midpoint between the adoption and finish line of the 2030 Agenda for Sustainable Development. In this edition of our report, we dedicated a special section, "SDGs 2030 Agenda – halfway there," to highlight our successful collective efforts. Against our 2025/2030 sustainability commitment, we are on track and accelerating our actions to continue to support and achieve the SDGs.



UDEY PAUL SINGH GILL
Chief Strategy Officer

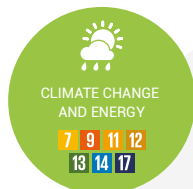
At the GCNT Forum 2021: Thailand's Climate Leadership Summit 2021, which adopted the theme of "A New Era of Accelerated Actions," **we jointly declared our commitment to achieving net-zero carbon by 2050, or no later than 2070**, with other leading companies and the private sector in Thailand.

The forum also engaged the voices of leading experts from both the public and private sectors, as well as civil society organizations and the UN, to find ways to mitigate the climate crisis, with the private sector as the key driver. Leaders of the GCNT's member organizations voiced their strong support for the country in its efforts to tackle climate change.



SDGs 2030 AGENDA – HALFWAY THERE

IVL'S ACHIEVEMENTS



US\$7 billion
Sustainability CAPEX commitment (2020-2030)

US\$1.3 billion
in sustainable finance
(2018 – 2021)

78% waste
diverted from landfill
(2021 performance)

0.66
cases/200,000 man-hours
lost time injury
frequency rate (LTIFR)
(2021 performance)

53,585 consumers
took part in IVL's
Recycling Education
(2018-2021)

US\$10.7 million
in social contributions
(2015-2021)

75 billion
PET bottles recycled
(2011 – Q2/2021)

3% reduction
in GHG intensity
(against 2025 target)

0.48% increase
in water intensity
(against 2025 target)

Over 25,000
personal protective
equipment (PPE) suits for
healthcare workers
made from our rPET fibers
from PET bottle collections
(2020-2021)

Over 5,000 jobs
created from IVL's
recycling business
(2011 – Q1/2021)

1.7 million tons
of PET bottles
diverted from
landfill and oceans
(2011- Q1/2021)

1.5% reduction
in energy intensity
(against 2025 target)

2.5 million tons
of carbon emissions
reduced by recycling
(2011- Q1/2021)

Promoting
**sustainable ecosystems
and biodiversity**
through recycling
commitments

31,900 people
in local communities
received well-being
and health services
provided by IVL
(2020-2021)

Working with
**industry partners to achieve
a circular economy for
sustainable plastics**,
staying connected with
stakeholders and
addressing the public
**regarding industry
developments**

78%
of waste diverted
from landfill
(2021 performance)

7.5%
renewable electricity consumption
(2021 performance)

Which targets are on track for 2030?



Maintain
progress to achieve target



Accelerate
progress to achieve target



Reverse
trend to achieve target

IVL'S SUSTAINABILITY JOURNEY

IVL celebrated our 11 years of sustainability in 2021. Given our vast business operations, we were in a unique position to detect key trends in advance and integrate our business model and strategy accordingly. We also anticipated important megatrends for our clients and communities. Over the last decade, IVL has built a solid foundation for sustainability through strategic actions, which we are now accelerating to achieve our recycling commitment, creating products, innovations and solutions for the new normal, continuing our engagement with stakeholders for shared value creation, and transitioning to a Net Zero Carbon business by 2050-2070.

IVL'S STRATEGY TO ACHIEVING THE SDGs

Businesses have a critical role to play in helping to achieve the SDGs. As a responsible industry leader, IVL is serious about the SDGs and combatting the urgent environmental and economic challenges facing our world. We recognize that we must be accountable to our key stakeholders – more than 25,000 employees and their families, customers, and industry partners. Moreover, we believe that aligning with the SDGs will open us up to significant market opportunities.

IVL has outlined five key focus areas to contribute to the SDGs – Recycling and the Circular Economy, Climate Change and Energy, Environmental Stewardship, Health Safety and Well-being, and CSR and Collaborations. Given the nature of our business, we believe we can have the greatest impact on these areas and grow our business while creating positive change. These activities help us align with 13 of the 17 SDGs, totaling 39 targets.

IVL is ready to make further progress across all areas of the value chain through innovative designs, efficient and greener production, streamlined logistics, promoting responsible consumption, proactive waste collection and widespread recycling. We are ready to go further by contributing to other SDGs in the long-term and making inroads on more advanced innovations to create positive value in line with our vision “to be a world-class sustainable chemical company making great products for society.”

IVL'S SDGs STRATEGY

KEY FOCUS AREAS



RELEVANT STRATEGIES



TARGETS



KEY FOCUS AREAS

We continue to create value and contribute to the SDGs by focusing on the 3Ps – People, Planet and Prosperity.



RECYCLING AND CIRCULAR ECONOMY

3 8 9 11 12
13 14 15 17

Bringing customers into the product value chain cycle and developing ways to support the circular economy



Recycling Commitment



Industry Partnerships



Recycling Education



CLIMATE CHANGE AND ENERGY

7 9 11 12
13 14 17

Being fully aligned with global initiatives that develop strong low-carbon strategies



Renewable Energy



Science-Based Targets (SBTs) and Net Zero Carbon



GHG Reduction & Energy Efficiency



ENVIRONMENTAL STEWARDSHIP

3 6 7 9 12
13 14 15 17

Improving resource efficiencies and ensuring that our production is environmentally-friendly



Water Stress Analysis



Waste Diverted from Landfill



Plastic Bottle Collection



HEALTH, SAFETY AND WELL-BEING

3 4 5 8
12 14 15

Guaranteeing that health and safety are at the forefront of our activities



Safe Workplace



Human Rights Protection



Process Safety



CSR AND COLLABORATIONS

3 4 6 8 11
12 14 15 17

Making Recycling Education a global program and collaborating to have further positive impacts on society



Knowledge



Environment



Well-being

RELEVANT STRATEGIES



Recycling Strategy

Our 2025 ambition is to recycle 50 billion PET bottles per year and 750,000 tons of post-consumer PET bale input per year. From 2011 to 2021, we recycled a total of more than 75 billion bottles. We are achieving growth in mechanical and advanced recycling by investing in more recycling facilities and focused on our long-term goals, which is to achieve a circular economy.



Climate Change Strategy

Our Climate Change Strategy 2025 details our climate-related output targets which we intend to reach by 2025 – a 5% reduction in energy intensity, 10% reduction in GHG intensity, 90% wastewater diverted from landfill, 10% reduction in water intensity, 10% renewable electricity use, 16% bio-based feedstock and 10% recycled feedstock against the whole IVL feedstock, and recycling 50 billion PET bottles per year.



Decarbonization Strategies

Our long-term ambition is to become carbon neutral. In order to reduce our carbon footprint, we are exploring a range of solutions that consist of operational eco-efficiency, renewable energy, recycling, advanced technologies, natural capital solutions, and bio-based/ recycled feedstocks.



EHS Strategy

Four organizational groups make up our EHS strategy – Corporate, Regional, Segment and Business/Site. This represents a true enabling model that supports our businesses and regions. Our 2025 goal is for our Lost Time Injury Frequency Rate (LTIFR) to be less than 0.5 cases per 200,000 man-hours, followed by our long-term goal of less than 0.1 cases per 200,000 man-hours.



HR Strategy

People are a company's ultimate competitive advantage. We strive to attract, develop and engage our employees because our people's success is IVL's success. Diversity, Equity and Inclusion are core focus areas to maintaining a sustainable workplace at IVL, and are also essential for continued innovation, achieving a growth mindset and sustained business growth. Leadership development is one of our strategic priorities. Our approach is focused on developing effective leaders who contribute to our strengths as an organization and our long-term performance. Our ambition is to expand the scope of succession planning to cover about 1,000 leadership positions by 2023.



CSR Strategy

Our CSR goal is to have a positive impact on society and deliver social, environmental, and economic value. We focus on creating value for our business and society to ensure the company remains sustainable, and we are achieving this by facilitating and engaging the global community, leveraging our strengths through collaborations, raising awareness, and developing the value chain. Our ambition for 2030 is to educate one million consumers around the world about recycling, to extend and increase awareness among communities and contribute to more responsible consumer behavior.

TARGETS

3 GOOD HEALTH AND WELL-BEING



LTIFR

per 200,000 man-hours
< 0.5 cases by 2025
< 0.1 cases by 2050

4 QUALITY EDUCATION



Recycling Education

Educating 1 million consumers around the world on recycling by 2030

5 GENDER EQUALITY



No Human Rights Violations

Strengthen Gender Diversity and Inclusion in Workplace

6 CLEAN WATER AND SANITATION



Water intensity reduction

10% by 2025
20% by 2030

7 AFFORDABLE AND CLEAN ENERGY



Renewable electricity consumption

10% by 2025
25% by 2030

8 DECENT WORK AND ECONOMIC GROWTH



LTIFR

per 200,000 man-hours
< 0.5 cases by 2025
< 0.1 cases by 2050

9 INDUSTRY, INNOVATION AND INFRASTRUCTURE



Sustainability CAPEX

US\$ 2 billion (2020-2025)
US\$ 7 billion (2020-2030)

Vitality Index in 2021

Fibers = 23%, IOD = 22%
and Speciality PET = 31%

11 SUSTAINABLE CITIES AND COMMUNITIES



Waste diverted from landfill

90% by 2025/2030

12 RESPONSIBLE CONSUMPTION AND PRODUCTION



Bottles recycled

50 billion by 2025
100 billion by 2030

Post consumer PET bale input per year

750,000 tons by 2025
1,500,000 tons by 2030

13 CLIMATE ACTION



GHG (Scope 1 & 2) intensity reduction

10% by 2025
30% by 2030

Becoming a Net Zero Carbon Company

14 LIFE BELOW WATER



Post consumer PET bottles diverted from ocean

750,000 tons by 2025
1,500,000 tons by 2030

15 LIFE ON LAND



Post consumer PET bottles diverted from landfill

750,000 tons by 2025
1,500,000 tons by 2030

Waste diverted from landfill

90% by 2025/2030

17 PARTNERSHIPS FOR THE GOALS



Following and contributing

to industry partnerships and commitments

GOOD HEALTH AND WELL-BEING 3

Guaranteeing the quality of our products, and the health and safety of our employees and contractors

Health, safety and well-being represent our core values. IVL continuously implements improvements to programs and places the health and safety of our workforce at the forefront of our activities. We guarantee the health and safety of our products, employees and contractors and manage health risks by improving local living standards and extending health provisions to the families of employees and their surrounding communities.

SDG Targets 3.8 3.9

Our contribution : Major



TRIR

Total Recordable Injury Rate

0.98

cases per 200,000 man-hours



LTIFR

Lost Time Injury Frequency Rate

0.66

cases per 200,000 man-hours

US\$

1,000,000

(61% of total social contribution)

Donated to Social & Well-being and Health & Sports initiatives

OUR COMMITMENTS

- Reaching at least 100,000 beneficiaries/people in communities with direct or indirect benefits from our well-being initiatives by 2030
- Reduction in the Lost Time Injury Frequency Rate (LTIFR) to less than 0.5 cases per 200,000 man-hours by 2025, and less than 0.1 cases per 200,000 man-hours by 2050

4 QUALITY EDUCATION

Providing learning and development opportunities to all staff and promoting recycling education in society

The value of education lies in its ability to provide relevant and effective learning outcomes. We provide learning and development opportunities to all staff, and implement STEM training programs that focus on universities, vocational education for women, youth, and marginalized persons in our communities. For recycling education, we want to increase awareness about the benefits of separating waste, the importance of recycling and convincing people to join this effort and reduce waste in the environment.

SDG Targets 4.3 4.4 4.5 4.7

Our contribution : Major

STEM education and training



2

Schools



500

Students

Alabama, USA – Indorama Ventures Xylenes & PTA has supported programs that develop and enhance skills in the areas of Science, Technology, Engineering, and Mathematics (STEM) by providing funds to the Decatur City Schools Foundation and Calhoun College Foundation to engage with local students in the community (approximately 500 students in grades 6-8 at two local middle schools).

This improves their education, skills and interest in STEM leading to improved opportunities as potential employees after they graduate.

Recycling Education

IVL has been increasing awareness about recycling with our partner institutions through our Recycling Education project in Thailand since 2018. We continue to educate people on the circular and recyclable qualities of PET, and their important role in recycling and preventing the mismanagement of PET waste.

The project is strongly aligned with IVL's 2025 sustainability target of recycling 50 billion PET bottles per year by 2025 and 100 billion by 2030.



2,751

People



2,006

Students



29

Teachers



716

Community Residents

OUR COMMITMENTS

- Educating 1,000,000 consumers around the world about recycling by 2030
- Increasing STEM education and student and teacher training

GENDER EQUALITY 5

Supporting gender equality and the increased participation and advancement of women

Gender equality is very important in creating an empowering culture and a necessary foundation for a more peaceful world. We are committed to ensuring that social protections are in place at all of our operating sites and in our supply chain and that no human rights violations take place in any form, from health to security. We encourage women's participation and advancement, especially in managerial and leadership positions in our company and provide education and career opportunities to young women so they can work in the formal economy.

SDG Targets 5.1 5.2 5.3 5.5 5.c

Our contribution : Monitor



Provide vulnerable women with empowerment training

IVL's Inspirational Talk on Gender Diversity in celebration of International Women's Day 2022. Indorama Ventures celebrated International Women's Day 2022 in Thailand under the **#BreakTheBias** theme by hosting an inspirational gender diversity talk with IVL's female leaders: Mrs. Suchitra Lohia, IVL Deputy Group CEO, and Mrs. Aradhana Lohia Sharma, Vice President, who spoke on the topic of "Gender Equality for a Sustainable Tomorrow."

Indorama Ventures is proud to continue supporting International Women's Day annually which encourages individuals and institutions to be mindful of the biases which may be preventing a more diverse, equitable, and inclusive world.



In 2021, we improved diversity by appointing

the Diversity, Equity, and Inclusion (DE&I) Committee, as a spinoff from the Indorama ESG Council, to focus on developing a framework and process to drive diversity, equity, and inclusion across the organization and further embed IVL's "Diversity is our Strength" corporate value among our employees worldwide.



35% of our employees are women in managerial positions

OUR COMMITMENTS

- Increasing the number of women in managerial and leadership positions
- Empowering vulnerable women to gain valuable skills positively impacting their lives
- Strengthen gender diversity and inclusion in workplace
- No human rights violations

6 CLEAN WATER AND SANITATION

Managing sustainable water consumption and discharge, analyzing global water risk to minimize the water crisis

The water crisis (water stress, droughts, floods, and a rise in sea levels) is a growing concern around the world. IVL is committed to sustainable water management and ensures the most efficient water consumption by analyzing global water risk at all our operating sites, in addition to implementing the 3Rs (Reduce, Reuse, Recycle). We also collaborate with the authorities to issue collective actions on water issues in order to improve the efficiency of water supply management and avoid potential conflicts with stakeholders. Additionally, we provide safe drinking water and systems to communities and schools in rural areas.

SDG Targets 6.1 6.3 6.4 6.5 6.6

Our contribution : Moderate



Roughly **US\$ 1.8 million** investment in water efficiency projects



Water Stress Analysis: WRI Aqueduct Tool

15% of our operations are in **extremely high stress areas**
15% of our operations are in **high stress areas**

Our operations in 2021 was 112 sites.



100% of water is treated before being discharged



0.48% water intensity increase



5.93% water reused/recycled



OUR COMMITMENTS

- Water intensity reduction : 10% by 2025 and 20% by 2030 from 2020 level
- Promoting sustainable water management
- Increasing access to safe drinking water for communities in rural areas

AFFORDABLE AND CLEAN ENERGY 7

Increasing the use of electricity from renewable sources where possible


To reduce our carbon footprint while helping to protect the environment, we are continuously increasing renewable electricity consumption where possible and exploring opportunities to replace fossil fuels with renewable energy across our business operations. We are also promoting sustainable energy efficiency, conservation and reduction in all business segments. All of IVL's sites are currently in the process of acquiring ISO 50001 certification which will further help in tighter monitoring and optimization, thus lowering the use of energy at all sites







SDG Targets 7.2 7.3 7.b

Our contribution : Moderate

 **67%**
ISO 50001
Certifications

7.5%
Renewable electricity
consumption

 **Six plants utilizing**
100%
Renewable electricity*

 **UAB Orion Global Pet Lithuania**
 **Wellman International Ireland**
 **UTT Technische Textilien Germany**
 **Indorama Ventures Portugal PTA**
 **Indorama Ventures Quimica, Spain**
 **Kordarna Slovakia**

We are actively reducing our reliance on conventional energy and increasing our use of renewable energy sources such as:


solar energy


biomass


biogas


renewable natural gas

In 2021, our combined use of
2,803,365 GJ
of renewable energy

saved over 143,175 tCO₂e

* In 2021, Indorama Ventures Quimica, Spain began using 100% renewable electricity.

OUR COMMITMENTS

- Renewable electricity consumption: 10% by 2025 and 25% by 2030
- Energy intensity reduction : 5% by 2025 and 15% by 2030 from 2020 levels
- Promoting sustainable energy efficiency projects and renewable energy consumption

8 DECENT WORK AND ECONOMIC GROWTH

Providing decent working conditions, a non-discriminatory environment and equal opportunities in our operations and supply chain

To grow sustainably, we must provide decent working conditions in a non-discriminatory environment and with equal opportunities in our operations and supply chain. We respect all human rights and are abiding by the UN Universal Declaration of Human Rights and the International Labor Organization (ILO)'s Declaration on Fundamental Principles and Rights at Work. We are making sure that our Human Rights Policy reflects the rights of all stakeholders. None of our operations or key raw material and non-raw material suppliers are at risk of incidents of child, forced and compulsory labor.

SDG Targets 8.4 8.5 8.6 8.7 8.8

Our contribution : Moderate



25,760 Total Employees



281 Employees with disabilities



89.52% Global retention rate



708,106 Total training hours



Employee engagement



73.90%

(an actively engaged employee)



Survey participation



82.87%



Employee net promoter score



76.20%

Indorama Ventures celebrates being accident free for 10 years in Germany

Trevira, an Indorama Ventures company, is celebrating the first time in ten years that a production team at its operating site in Guben, Germany, has worked without an accident. Everyone in the IVL family can play their part, starting by applying our Golden Safety Rules.

Union Pacific honors Indorama Ventures for Dedication to Safety with the Pinnacle Award

This annual award honors companies that implement release prevention protocols, corrective action plans and have zero Non-Accident Releases (NARs) of regulated hazardous material shipments.



14% of our employees are below 30 years old



In 2021, Indorama Ventures achieved the Platinum Recognition Level with a score of 75 and was placed in the top 1% of companies (99th percentile) by EcoVadis in the manufacture of basic chemicals.

OUR COMMITMENTS

- Protecting labor rights and promoting a safe and secure working environment
- Reducing the Lost Time Injury Frequency Rate (LTIFR) to less than 0.5 cases per 200,000 man-hours in 2025 and less than 0.1 cases per 200,000 man-hours in 2050

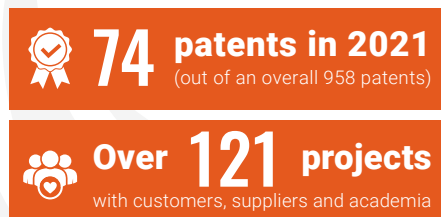
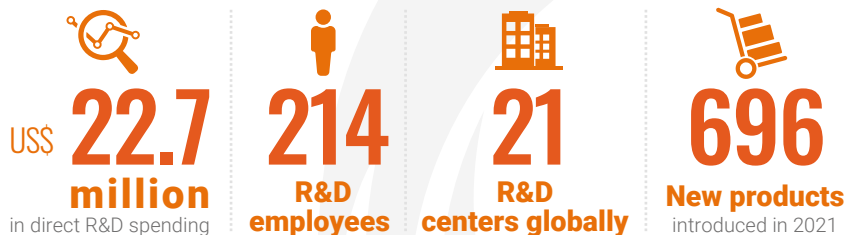
INDUSTRY, INNOVATION AND INFRASTRUCTURE 9

Empowering sustainable development through investments in manufacturing, innovation and technology

Our innovative approach drives us to find better, safer, and more cost-effective ways to solve the day-to-day problems and challenges of our customers. We have further invested in research and development centers to empower sustainable development in manufacturing and innovations & technology, to offer better value and great products to our customers by rapidly responding to their ongoing requirements and anticipating their future needs. Increasing innovation and production of low-carbon products will ensure that IVL becomes a preferred company by our customers as well as consumers, also contributing financially through lower overall production costs.

SDG Targets 9.2 9.4 9.5

Our contribution : Moderate



OUR COMMITMENTS

- Sustainability CAPEX US\$ 2 billion (cumulative 2020-2025) and US\$ 7 billion (cumulative 2020-2030) by 2025 and by 2030, respectively
- GHG (Scope 1 & 2) intensity reduction : 10% by 2025 and 30% by 2030 from 2020 levels
- 2022 Vitality Index*: Fibers = 23%, Specialty PET = 31% and IOD = 22%
- Promoting investments in R&D and technology to serve social needs



11 SUSTAINABLE CITIES AND COMMUNITIES

Strengthening efforts to protect natural heritage and reduce the adverse environmental impact, in making sustainable cities and communities

Cities and communities are important for our license to operate and have enabled people to advance socially and economically, in line with our focus on creating shared values with stakeholders and ensure sustainable growth for our business. We aim to provide opportunity to local communities and cities in terms of creating jobs and prosperity in areas we operate. We strengthen efforts to protect natural heritage and reduce the adverse environmental impact of cities, particularly to air quality, municipal and other waste management.

SDG Targets 11.4 11.6

Our contribution : Moderate

317,064 tons
equivalent to 14.3 billion bottles
of post-consumer PET bottles
diverted from landfill and oceans in 2021

78% of waste diverted
from landfill
in our operations
(+8% YoY)



18
initiatives

**Support
vulnerable groups
and groups with
disabilities**



24
organizations

**Promoted
environmental
developments
and recycling**



Community Investments

more than

US\$ 750,000



**Wetlands Edge
Environmental Center
(WEEC)**, is a partnership
between Indorama Ventures
Xylenes and PTA (IVXP), and
Decatur City Schools in
Decatur, Alabama.

- Located on IVXP's property with more than 400 acres of wildlife habitat.
- Offers a brand new opportunity to explore the natural world in a setting that combines native species and natural beauty.

Such remarkable biodiversity in habitat and species places Alabama in the top five on the biodiversity index for the contiguous 48 states. We also teach students about the care and husbandry of the live animals in residence at the center.

OUR COMMITMENTS

- Recycling PET bales input per year : 750,000 tons by 2025 and 1,500,000 tons by 2030
- Improving our operational eco-efficiency through sustainability initiatives and green projects
- 90% waste diverted from landfill by 2025/2030


RESPONSIBLE CONSUMPTION & PRODUCTION 12

Reducing the impacts of our products in the use phase and promoting ways to include recyclability and circularity

We are a responsible supplier and producer. IVL is committed to operating in compliance with all applicable regulatory, reputational and/or market risks related to climate change and lowering GHG emissions. We provide a framework for active engagements across the company to ensure that our products present no health or environmental risks. We identify risks and opportunities to reduce resource and material consumption through Life Cycle Assessments (LCAs) of our products to "quantify the various environmental impacts of the products to be used in IVL's product stewardship program which is communicated to stakeholders" and to reduce the impacts of our products by recycling and contributing to the circular economy.

SDG Targets 12.1 12.2 12.4 12.5 12.6 12.7 12.8

Our contribution : Major

 **14.3 billion bottles**
equivalent to **317,064 tons**

of post-consumer PET bottles
diverted from landfill and oceans in 2021

 **78%** waste diverted from landfill
 **5.93%** water reused and recycled



The Easy Mask

- Constructed with our Deja™ performance yarn, which is 100% rPET;
- DyeCoo's CO₂ dyeing technology does not use any water;



- Stoll's seamless knitting technology lowers manufacturing waste to less than 1%. The mask can be readily dismantled, allowing pieces to be changed and reused rather than discarded.

Bottle Collection from CSR Program


846,045 bottles
collected globally


18,801 kgs
of bottles returned to recycling factories



In 2021, we distributed over

8,000 coverall PPE suits

1,000 bedding sets

to 32 hospitals in 3 countries (Thailand, India, Brazil), using 420,000 post-consumer PET plastic bottles.

OUR COMMITMENTS

- Recycling PET bales input per year : 750,000 tons by 2025 and 1,500,000 tons by 2030
- Recycling PET bottles : 50 billion bottles per year by 2025 and 100 billion bottles per year by 2030
- Water intensity reduction : 10% by 2025 and 20% by 2030 from 2020 levels
- 90% waste diverted from landfill by 2025/2030
- Educating 1,000,000 consumers around the world about recycling by 2030

13 CLIMATE ACTION

Improving resource use, energy efficiency, and developing strong low-carbon strategies

Climate change is one of the most compelling risks with potentially serious implications for businesses. Post-COP 21, IVL anticipates more environmental, social, political, and economic repercussions. We have carried out TCFD Climate Change Risk and Opportunity analysis to regularly update our regulations. This is driving our increased use of renewable energy, production of low-carbon products, and more efficient use of our resources. In addition to our Climate Change Strategy 2025, we developed a Decarbonization Strategies and SOPs that guides our global operations in terms of best practices for the climate, including GHG management, with key actions and KPIs in each business segment.

SDG Targets 13.2 13.3

Our contribution : Major

2.4 million tons

of carbon footprint reduced by recycling post-consumer PET bottles (since 2011)



The Deja™ Carbon Neutral PET

pellet is our latest innovation. It has been sustainably produced throughout its supply chain and helps environmentally conscious companies achieve their sustainability targets by lowering their Scope 3 GHG emissions.

US\$ 28.5 million

investment in GHG Reduction projects

143,175 tons CO₂e

GHG reduction from renewable energy consumption (biomass, biogas and renewable electricity)



3%

GHG (scope 1&2) intensity reduction against the 2025 target



Science-Based Targets (SBTs)

We officially committed to science-based targets (below 1.5 °C) and will continue to refine our targets and have them validated by the Science Based Targets Initiative within the 24-month deadline.

Indorama Ventures issues THB **10 billion Sustainability-Linked Bond** with three Sustainability Performance Targets

 **Reducing GHG emissions intensity**
by 10% by 2025 (from a 2020 base)

 **Increasing recycling of PET bale input**
to 750,000 tons per year by 2025

 **Achieving 25% renewable electricity consumption**
in 2030



OUR COMMITMENTS

- Energy intensity reduction : 5% by 2025 and 15% by 2030 from 2020 levels
- GHG (Scope 1 & 2) intensity reduction : 10% by 2025 and 30% by 2030 from 2020 levels
- Circular feedstocks which include 1) Bio-based feedstock : 16% against IVL's whole feedstock, and 2) Recycled feedstock (rPET)(B) : 10% against IVL's whole feedstock by 2030
- Committed to becoming a Net Zero Carbon company by 2050-2070

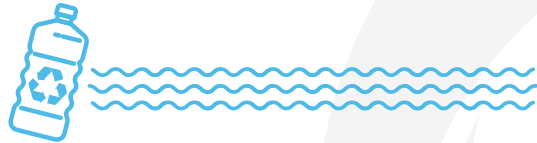
LIFE BELOW WATER 14

Preventing, reducing and collaborating with like-minded organizations to address waste in the oceans

Water is a vital resource for both our operations and the planet. However, the quality of the world's water is increasingly being degraded, threatening the health of people and ecosystems. IVL has been focusing on responsible water use through our Sustainability Strategy and our Water Management Strategy. We are working to achieve zero liquid discharge at more of our sites, as well as building wastewater treatment plants to increase water reuse and recycling, and reducing freshwater withdrawal in most of our operations to improve water quality and reduce the likelihood of damage to the ecosystem and life below water.

SDG Targets 14.1 14.2 14.4

Our contribution : Monitor

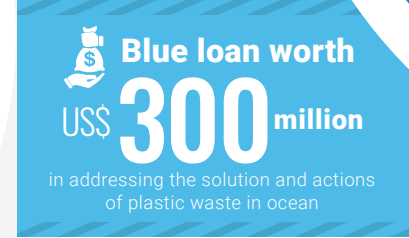


317,064 tons
equivalent to **14.3 billion bottles**

of post-consumer PET bottles diverted from oceans in 2021



The Circular Innovation Challenge program, developed by international organizations in collaboration with IVL, is raising public awareness about the need to reduce waste in Thailand.



Operation Clean Sweep (OCS)

our responsible initiatives are a key element in preventing plastic waste from entering the environment. One example is Operation Clean Sweep (OCS), an initiative that focuses on preventing plastic pellets, flakes and powder loss from entering waterways and oceans.

In 2021, one of our subsidiaries, FiberVisions Varde (Denmark) was certified by OCS. We have introduced additional global measures to our operations and are further reviewing how to make the OCS initiative part of the business strategy under sustainability.

OUR COMMITMENTS

- Recycling PET bales input per year : 750,000 tons by 2025 and 1,500,000 tons by 2030
- Recycling PET bottles : 50 billion bottles per year by 2025 and 100 billion bottles per year by 2030

15 LIFE ON LAND

Reducing the risk of potentially adverse environmental impacts and monitoring the new areas near our operations

We are expanding the scope of our environmental stewardship to reduce potential risks with adverse environmental impacts. We are committed to effectively managing our environmental footprint as resources are scarce. We have also implemented other non-energy related projects such as water savings, reducing our use of raw materials, chemicals, and feedstock consumption, reducing wastewater sludge disposal, and a reduction in other waste in our processes which help in cutting emissions.

SDG Targets 15.1 15.5

Our contribution : Moderate

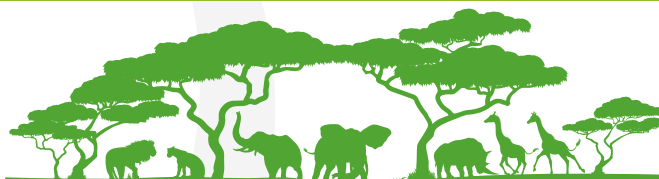


317,064
tons
equivalent to
14.3 billion bottles

of post-consumer PET bottles diverted from landfill in 2021

Nature Conservation Initiatives

Thailand	Indorama Polyester Industries (Nakhon Pathom) partnered with 30 households to plant and establish an eco-forest area.
Indonesia	PT Indorama Polychem Indonesia (PTIPCI) distributed and planted 1,250 tree seedlings in local communities in Purwakata.
India	Avgol India Private Limited planted 220 Neem saplings in the Mandideep Green Belt area.
Czech Republic	Schoeller Křešice s.r.o. engage with employees to build green areas by establishing a new lawn area and planting trees around the company premises.



Supported wildlife conservation
(saving species and adopting animals)
in the Asheboro Zoo in North Carolina



78%
of waste diverted from landfill in our operations

OUR COMMITMENTS

- Protecting and restoring degraded forests and promoting sustainable ecosystems and biodiversity
- Recycling PET bottles: 50 billion bottles per year by 2025 and 100 billion bottles per year by 2030
- 90% waste diverted from landfill by 2025/2030

PARTNERSHIPS FOR THE GOALS 17

Partnering with organizations to intensify our contributions to achieve the goals and a circular economy

We are working to achieve a sustainable, Net-Zero and circular economy by collaborating with several industry partners and organizations such as the UN Global Compact, NAPCOR, Ellen MacArthur Foundation, New Plastics Economy, Minderoo Foundation, The Recycling Partnership, Plastics Recyclers Europe, Association of Plastic Recyclers, and Positively PET, to play a leading role by bringing customers of recycled products into the value chain and developing ways to include recyclability and circularity in all of our products.

SDG Targets 17.6 17.16 17.17

Our contribution : Major



We are proud to endorse the Ellen MacArthur Foundation's call for the implementation of Extended Producer Responsibility (EPR) for packaging, together with more than 150 leading businesses and organizations.



IVL is proud to be part of the New Plastics Economy Global Commitment, reporting from mid-year to mid-year. Led by the Ellen MacArthur Foundation, in collaboration with the UN Environment Programme, the third Global Commitment report notes our "significant progress" on recycling.



United Nations
Global Compact

We were accepted as a participant member of the United Nations Global Compact and are committed to implementing the Ten Principles.



ELLEN MACARTHUR
FOUNDATION



Global
Commitment



GLOBAL
PLASTIC ACTION
PARTNERSHIP

We joined the World Economic Forum's Global Plastic Action Partnership (GPAP), an initiative to minimize plastic leakage into the environment and a key step in enabling us to meet our target of ending PET plastic waste.

We actively communicate with political actors and consumers about the recyclability and sustainability of PET through strategic partners, including PET Container Recycling Europe (PETCORE), the National Association for PET Container Resources (NAPCOR), and The Recycling Partnership.

To further catalyze our actions, we increased our presence at various global events and with important organizations throughout the year to improve public perceptions of PET, including the World Economic Forum, UNGC Leadership Summit, Thailand Business Leadership for SDGs, Climate 50 Leaders, interviews with Bloomberg News, and by joining PET recycling and rPET roundtables with Morgan Stanley and JP Morgan.

OUR COMMITMENTS

- Partnering with organizations to intensify our contributions to achieve the SDGs and sustainability in the Chemical sector
- Partnering with organizations to intensify our contributions for a PET recycling and circular economy



www.indoramaventures.com

INDORAMA VENTURES PUBLIC COMPANY LIMITED

75/102 Ocean Tower 2, 37th Floor, Sukhumvit Soi 19 (Wattana), Bangkok 10110 Thailand | Tel. +662 661 6661 | Fax +662 661 6664-5