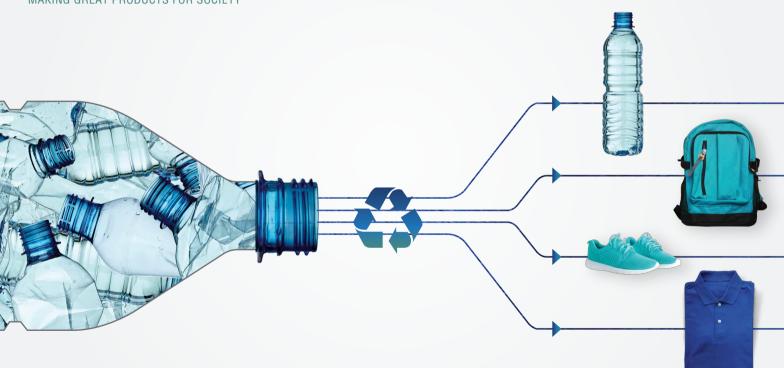


TO BE A WORLD-CLASS CHEMICAL COMPANY MAKING GREAT PRODUCTS FOR SOCIETY

Executive Summary 2018



We Source - We Make - We Recycle

Our Board



Group CEO Message



"Next economic revolution is underway, and this fundamental shift revolves around **Sustainability**."

Sustainability is not only a social or environmental issue, but an idea that will increasingly transform our economies and the companies that embrace them.

Aloke Lohia

Group Chief Executive Officer



IVL at A Glance

IVL Operating Sites

as of 31 Dec. 2018



5 Continents

31 Countries

In 2018. 19 New sites

North America Canada • The United States Mexico

South America

Europe

3 Africa

Egypt

Ghana

Nigeria

- Austria · Czech Republic
- Denmark
- France Germany Ireland
- Lithuania Luxembourg Poland
- Portugal
- Russia

Italy

- Slovakia
- Spain
- · The Netherlands
- Turkey
- United Kingdom

Asia

- China India
- Indonesia Israel
- Mvanmar
- Philippines Thailand

Our worldwide locations

For More Information



Feedstock

We integrated backwards to produce the upstream materials for the production of PET and Polyester.

Packaging

Our products comprise PET molding bottles (preform), bottle caps and bottles.

PET

We offer products in different grades, including hot-fill, high and low intrinsic viscosity, quick heat and general grade, and much more.

Brazil

Wool

Note: IVL total operating sites include the entities acquired in the second half of 2018 and JVs.

We began our first business in premium worsted wool yarns, using best-in-class machinery and the latest technology.

Fibers

Our polyester and yarns are used in the Automotive and Technical. Home and Apparel, and Hygiene and Medical segments.

Recycled Products

Our recycled products are bottle flakes, recycled PET or rPET, and recycled fibers.

Our products













Our products For More Information



IVL's Sustainable Value Creation for Stakeholders



Our Capitals

4,680 Million USD Total Equity **59.9** Million G.I. Enerav Consumption

11.8 Million Tons

Raw Materials

consumption

60.3 Million m3 Water withdrawal

30.43 Training hours

per employee

USD Training

15,221

Permanent **Employees** 173.60

expenditure per employee

2.35

Million USD CSR Contribution



Our Business Model -

Vision

TO BE A WORLD-CLASS CHEMICAL COMPANY MAKING GREAT PRODUCTS FOR SOCIETY

Mission

We commit to be a responsible industry leader leveraging on the excellence of our people. processes, and technologies to create value for our stakeholders.

INDORAMA

Values

- » The customer is why we exist.
- » Our people make the difference.
- We see change as an opportunity.
- » Diversity is our strength.
- We are responsible.

31 Countries

5 Continents

15 Research Centers



10.741

Million USD Total Revenue

11_34

Million Tons Total Production (includina

intercompany sales)

23%

Vitality Index Fibers Business

0.522 tCO₂e/Ton of

production 3.85

Employee Engagement Score

350,903 Tons of PET

Recycling

789

Million USD Core Net Profit

86.01%

Customer Satisfaction Index

33%

Vitality Index PFT HVA Business

2.75

Million GJ Renewable Energy

Fatalities

LTIFR = 3.71

(cases / 1.000.000 man-hours)

2018 Financial Highlights

We achieved year-on-year EBITDA growth of 44%, and managed to increase our EBITDA by more than 250% in the last four years.

Revenue 10.7 Billion USD

+27% YoY

Operating
Cash Flow
989 Million USD

+16% YoY

Earning Per Share 4.61 Thai Baht

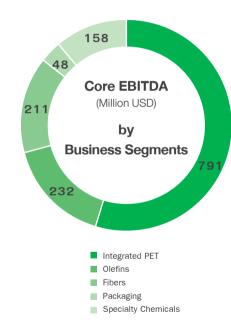
+16% YoY Core EBITDA 1.4 Billion USD

Core Net Profit after Tax and NCI 789 Million USD

+72% YoY

+44%

YoY







External Recognitions

MEMBER OF

Dow Jones Sustainability Indices

In Collaboration with RobecoSAM (

- Member of 2018 DJSI Emerging Markets Chemicals Industry
- Ranked among the top ten of all global chemical companies



 A constituent of the FTSE4Good Index Series Best ESG Score in the 100% percentile of the group in 2018



2018Climate Change Rating: B2018

Supply Chain Rating: B-



- Gold Recognition
- Top 3% of suppliers in all categories



Best ESG Disclosure Score in 2018



ESG rating: BB



2018
ESG Disclosures



The Stock Exchange of Thailand

- SET Sustainability Awards 2018 Outstanding
- Thailand Sustainability Investment 2018



For More Information

Sustainable Development Goals (SDGs) and IVL

Considering the nature of business, IVL is committed to play its role by contributing to the achievement of following Sustainable Development Goals. The fully coloured goals are directly impacted by business activities which IVL strongly supports. The faded goals are indirectly impacted by business activities which IVL keeps monitoring.

Maior

Moderate Monitor

*** Guaranteeing the health and safety of our products. employees and contractors Providing learning and development opportunities to all staff and promoting recycling education in society

Supporting gender equality and the increased participation and advancement of women

6 CLEAN WATER AND SANITATION

Increasing the use of electricity from renewable sources where possible

** Providing decent working conditions, equalities and non-discrimination in our operations

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

7 AFFORDABLE AND CLEAN ENERGY

-(0)

13 CLIMATE



14 LIFE BELOW WATER



15 LIFE ON LAND

3 GOOD HEALTH AND WELL-BEING





16 PEACE, JUSTICE AND STRONG



5 GENDER EQUALITY



*** to include recyclability

> *** Partnering with organizations to intensify our contributions to the circular economy

*** Collaborating with like-minded organizations to address waste

in oceans

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

**

Managing sustainable water use and analysing global water risk with mitigation action plans

Reducing the impacts of our products in the use phase and promoting ways

For More

Information

Corporate Governance



We are committed to operating ethically, transparently, without bribery and corruption, throughout our global operations.



No penalties were imposed on IVL in 2018 for material non-compliance with respect to corporate governance regulations.



We do not take any particular political positions. No direct political donation or contribution was made by IVL or its subsidiaries in 2018.

Whistleblower

IVL has a Whistleblower Policy which provides information about whistleblower practices and provides channels to lodge any anonymous complaints. The website of the Company provides various communications channels for external parties who may contact the Whistleblower Committee or independent directors, including sending to: ethics@indorama.net and independentdirectors@indorama.net without revealing their identity.

Anti-corruption

The Company successfully renewed its certification for **Thailand's Private Sector Collective Action Coalition Against Corruption (CAC)** in May 2018.



(IVL received its first certification in October 2014.)



Corporate Governance Evaluation

Corporate Governance and Board Evaluation was carried out for the first time by external professional body (IOD) and the findings found that IVL has a strong sustainability mindset and governance structure.



An Excellent 5-Star CG Score in the practice of Corporate Governance of Thai-Listed Companies



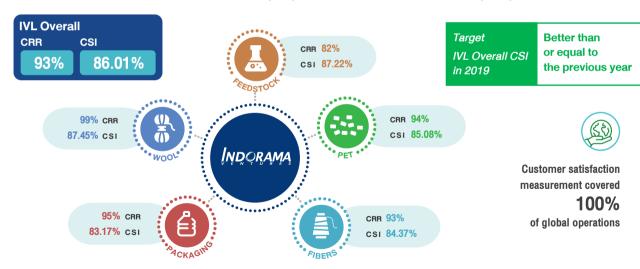
Customer Relationship Management



In order to maintain our position and drive consistent, sustainable growth, we believe that good Customer Relationship Management (CRM) is an integral part of our long-term success. Customer Engagement is our key strength and an important part of our sustainability strategy.

The Customer Satisfaction Measurement enables us to understand the current and future needs of our customers and their satisfaction with our products and services. This, in turn, helps us to foresee their customers' future plans.

Customer Satisfaction Index (CSI) and Customer Retention Rate (CRR)



Note: Overall coverage scores of the Customer Retention Rate (CRR) by percentage of total revenues



Innovation Management







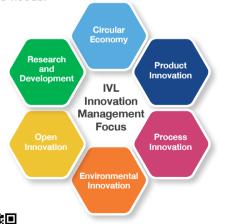






Innovation Management focuses on developing new and improving efficiency of existing products that meet social and environmental needs and in line with our guiding principles and policies for environmental stewardship and sustainability.

IVL works closely with our customers to keep pace with rapidly shifting market needs, global challenges and mega trends including the SDGs, and to fulfil their requirements and needs.



Vitality index*



Fibers 23% Business

70

PET HVA
Business

33%

2018 Target > 20%

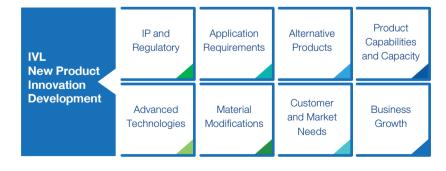
2018 Target = 33%

Target Vitality Index* in 2019 21%

Fibers Business **34%**

Business

^{*} Vitality Index: Revenue generated from the sale of products developed during the last five years.



Product Stewardship















Product Stewardship at IVL provides a framework for active engagement across the company to ensure that our products present no risk to human health and the environment when used as intended, and to generate value by identifying opportunities to reduce resource use and material consumption.

2018 alobal LCA coverage

65%

Global LCA Target coverage by 2020

95%

Sustainable Products Classification

We are in the process of classifying our products. It enables us to identify the product stages to further improve their design, manufacture, raw materials, transportation, and value chain to lower their ultimate impact on the environment and society and provide clear positioning of our sustainable product portfolio. We are targeting to complete this classification by 2020.

Life Cycle Assessment (LCA)

We completed LCAs at all our plants in Asia (excluding new acquisitions in 2018) and some plants in the United States and Europe, in accordance with ISO14040/44:2006 involving 65% of our total production. We plan to extend LCAs to the rest of our operations in other regions.





Recycling















PET - Recycling - The renaissance to reduce PET plastic waste going to nature, and preserve natural resources.

Target of Recycling
Global commitment
to incorporate
750,000 Tons
of PET post-consumer
materials as feedstock
into our polyester
production by 2025



Around 38 billion bottles are recycled from 2011-2018



 * rPET resin that contains up to 30% recycled content

We are the leading PET Recycler

in Asia, Europe and North America.

We are

the leading producer of high quality polyester fiber products from recycled post-consumer PET bottles.

We are

the leading producer offering PET resin with recycled content (in-melt technology) globally.

Mechanical recycling

Continued expansion – Sorepla acquisition in 2018

Chemical recycling

- A collaboration with Unilever and Ioniqa
- A collaboration with Loop Industries



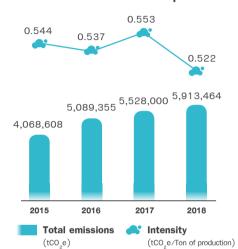
Green House Gas Emissions



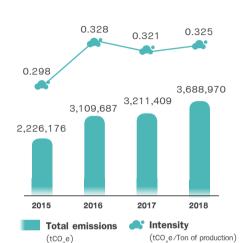




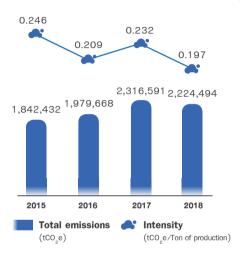
Total GHG Emissions - Scope 1 & 2



Direct GHG Emissions - Scope 1



Indirect GHG Emissions - Scope 2



We are committed to proactively managing our environmental footprint and investing in initiatives that have a positive impact. 2020 Target

combined

Scope 1 and 2
intensity reduction
from 2013 levels

IVL's GHG Scope 1 and 2 emissions have been verified by an external auditor (in accordance with ISO 14064-1 and ISO 14064-3).

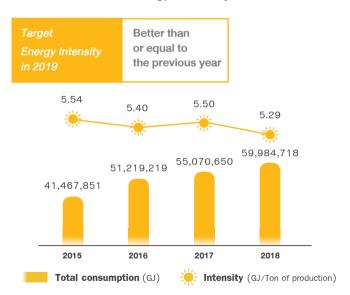


Energy



Our focus on energy efficiency has continuously increased as this further helps us become more competitive by reducing energy costs while also dealing with climate change. We have been undertaking several energy saving initiatives concurrently.

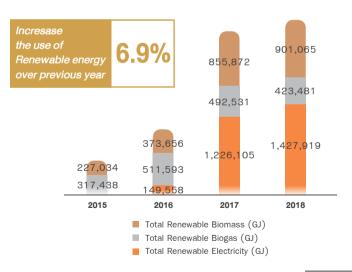
Total Energy Consumption



For More Information

Three of our plants, Orion Global Pet in Lithuania, Indorama Ventures Quimica in Spain and Wellman International in Ireland, are using 100% renewable electricity. Indorama Holdings in Lopburi, Thailand, has installed a 5MW solar power plant to generate green renewable energy. IVL continues to explore further possibilities to increase our use of renewable energy.

Total Renewable Energy Consumption



Water Management

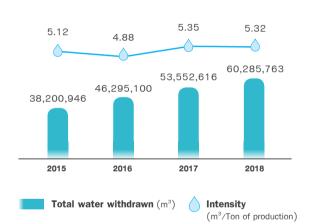




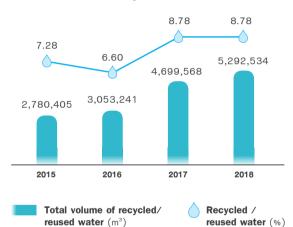


IVL is committed to sustainable water management (including water withdrawal and discharge) by complying with and going beyond all applicable environmental laws, international standards, and regulations in countries where we have operations, and will be proactive in demonstrating leadership and responsibility in line with our values.

Total Water Withdrawal



Water Recycled & Reused



Target Water Intensity in 2019

Better than or equal to the previous year



Waste Management









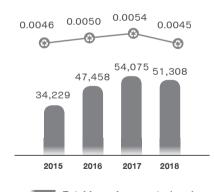


We manage our waste in a responsible manner and exceed regulatory requirements where possible. We are committed to reducing our waste and increasing disposal through sustainable vendors that can reuse, recover or recycle and also ensure that our hazardous waste is disposed of and handled by qualified vendors.

Target Hazardous Waste Intensity in 2019

Better than or equal to the previous year

Total Hazardous Waste



Total hazardous waste (Tons)

Intensity (Tons/Ton of production)

Total Waste Generated, Disposed, Reused, Recycled and Recovered



■ Total Waste Generated (Tons)

■ Total Waste Disposed (% of Total Waste generated)

■ Total Reused, Recycled and Recovered Waste (% of Total Waste generated)



Occupational Health & Safety

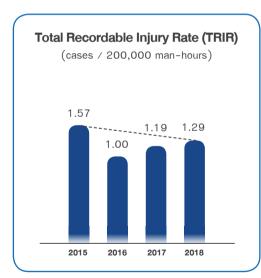


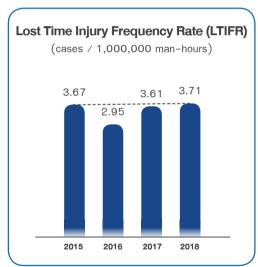




As of 31 December, 2018, 45% of total operations have OHSAS 18001/ISO 45001 occupational health and safety management system certifications in place.

Total recordable injuries and lost time injuries increased in 2018 from 2017 due to the higher number of accidents at certain sites that were acquired in 2018, and which are labor intensive. Enforcing our safety culture and practices at these sites was a key focus to reduce injuries in 2018.





Target

Reduction of
TRIR and LTIFR
the over
previous year

Fatality

TargetZero Fatalities



2018 Achievement

Zero Fatalities



Human Capital







15,221 Permanent Employees 21.53% Female



88 *Employees with disabilities*

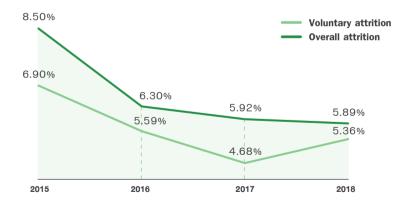
* Exdudes joint ventures with no operational control

Passionate global employees with multi-cultural backgrounds, different mindsets and languages provide us with the intellectual diversity that helps in turning challenges into opportunities. To ensure sustainability, we focus on meaningful investments in our employees to further develop their skills, knowledge and experiences.



94.01% Retention Rate







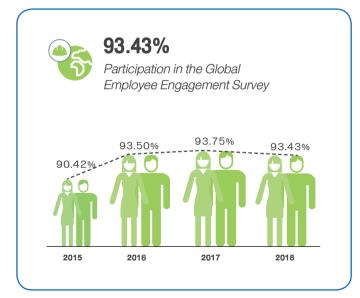
Global Employee Engagement

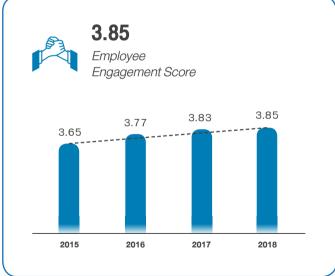


In 2018, the employee engagement score was improved to 3.85 compared to 3.83 in 2017.

Target
Employee
Engagement Score
in 2019

Better than or equal to previous year





Experiential Learning







Global Leadership Development Program

IVLDP, our global leadership development program is focused on building future leaders. A total of 130 executives were exposed to self-assessment and business assessment tools. A higher level program, i-Lead, was subsequently introduced which is designed to create a culture of experiential learning for future leaders. The program is led by the Group CEO. Another program, "v-Lead leadership development program", was led by Business Heads to develop cross-functional expertise and build young talent to become an effective leader within the respective business.

38 Participants
i-Lead leadership
development program

27 Participants v-Lead leadership development program

Global Lean Six Sigma (LSS) Program

In 2018, 1,376 employees attended LSS programs and undertook 252 projects. Over 43,920 Six Sigma training hours were completed from 2012 to 2018, yielding over USD 32 million in savings for the Company.

Other Talent Development Programs

IVL provides a "Shadow Development" program to further support our employees at the corporate office. This nine-month program, co-developed by Indorama Ventures and Sasin School of Management, one of the most well-regarded business schools in Thailand, offers a unique blend of learning through a traditional classroom setting, site visits, projects and peer learning. A total of 18 high potential managers participated in this program which effectively develops and supports local staff.

1,376 Participants LSS program

18 Participants
Shadow Development program



173.60 USD Training expenditure per employee



30.43 *Training hours per employee*



Operational Excellence Awards



Feedstock Business
PT Indorama Petrochemicals, Indonesia



Fibers BusinessPT Indorama Ventures Indonesia, Indonesia

PET Business
Guangdong IVL PET Polymer Company
Limited. China



Packaging Business Indorama Ventures Packaging (Philippines) Corporations, Batino, Philippines

Operational Excellence Awards were introduced in 2017 to recognize the efforts of a unit team within a business segment. The criteria for the awards focus on Sustainability, Operations and Finance. Some of the sustainability criteria include GHG emissions, Injuries, Energy Consumption, Customer Satisfaction and Employee Engagement.

The best business units of the respective four business segments were awarded and felicitated by our Board members in the presence of IVL's global leaders at the Annual Global Strategy Meet held in Bangkok.



Human Rights



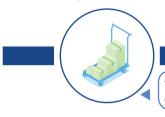




Human Rights Assessment in our business value chain

We strongly believe in respecting all human rights and in abiding by the United Nations Universal Declaration of Human Rights and the International Labor Organization (ILO)'s Declaration on Fundamental Principles and Rights at Work. Our Human Rights Policy reflects the rights of all stakeholders.

ZeroHuman Rights
violations in 2018



100% Critical Suppliers



100% Global operations (including JVs)

monitor progress.



Suppliers

The supplier evaluation process involves a systematic and harmonized approach requesting that they:



Acknowledge the Supplier Code of Conduct



Respond to a self-assessment questionnaire

Workplace Human Rights Assessment

Communicate & mitigate Action plan has been formulated on agreed interventions to

HRRP* = 0.30%.
Risk areas and country

level have been identified.

Identify

Assess

Questions on risk assessment for these indicators have been identified.

Customers, business partners and competitors

We respect the privacy of our customers and other business partners as mentioned in our Policy on Treatment of Shareholders; Policy on Treatment of Customers; Business Partners and Competitors Policy; and Trading Partners and Creditors Policy.





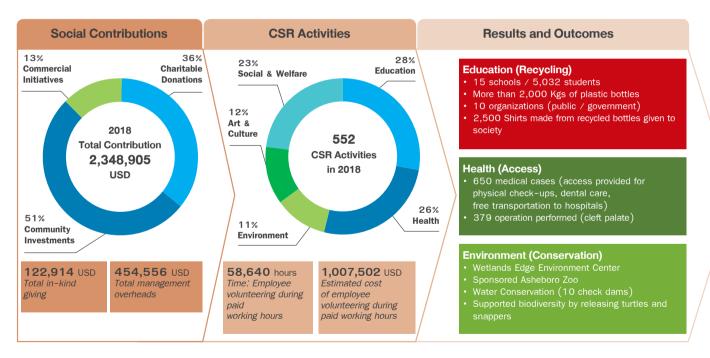
Corporate Citizenship







Corporate Social Responsibility (CSR) is a key strategy in demonstrating the integrity of our business. Our actions demonstrate the positive effect we have as a company on society and the environment, which in turn, is vital to achieving sustainability.





The Road Ahead, 2019 and Beyond



Global commitment to incorporate 750,000 Tons

of PET post-consumer materials as feedstock into our polyester production by 2025

More focus on **Zero Hazardous Waste to Landfill** in our operations globally

ISO Certification 100% of ISO 9001 **98%** of ISO 14001, ISO 50001,
ISO 45001/OHSAS 18001
of global operations **by 2020**

More focus on **Zero Liquid Discharge** in our operations globally

Sustainable Products Classification by 2020

Continue to **increase** the consumption of **Renewable Energy**



Data Reporting, Verification and Report Assurance



Reported based on the

Global Reporting Initiative (GRI) Standards Reporting Assurance

100%

in accordance with AA1000AS

GHG Verification

100%

in accordance with ISO 14064-3

Contacts and Feedback



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Sustainability Report 2018



For More Information



Annual Report 2018



For More Information PET is an incredible product that is 100% recyclable.

Together, let's use it wisely, and dispose of it responsibly

for a better tomorrow.



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