



**Asia-Pacific
Economic Cooperation**

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Session: 3

A Private Sector Perspective on Waste Management and Recycling - - Indorama Ventures

Submitted by: Indorama Ventures



**Webinar on Improving Waste Management
and Recycling Policies in the APEC Region
17 June 2021**



A Private Sector Perspective on WMR

APEC Webinar, 16 June 2021



Indorama Ventures' school waste management & recycling program

Last year, we released and distributed our 'Let's find out about types of plastics, recycling PET and waste separation' booklet. Our edutainment and waste separation video was prepared in Spanish, while our new animation on the PET recycling process provides a fun and easy to understand visual option. We achieved remarkable progress on recycling education in 2020 despite the pandemic.















2030 Target

Educating **one million** consumers around the world on recycling

2020 Recycling Education	27,906 People Received Trainings	2,806 Students	153 Teachers	23,562 Public and Community People
60 Schools	9 Public Sector, Organizations and Government	34 Virtual Trainings	30 Classroom Trainings	732 Teaching Hours
5 Public Events	24 Recycling Talks	279 Recycling Articles	725 Downloads of Recycling Education Materials	96 Downloads of Recycling Education VDOs
250 Recycling Bins Donated	511 rPET Shirts Donated	6 Recycling Factory Visits	424,530 Bottles Collected Globally	6,109 kg. Bottles Returned to Recycling Factories

Not all plastic is the same...

PET is fully recyclable & the most recycled plastic packaging in the world

<p>Common single-use applications</p>	 <p>Beverage bottles Food trays</p>	 <p>Rigid: Milk jugs Flexible: Grocery bags</p>	 <p>Rigid: blister packs Flexible: food films</p>	 <p>Shrink films Container Lids</p>	 <p>Yogurt containers Bottle caps</p>	 <p>Foam containers Cutlery</p>
<p>Resin Symbol</p>	 <p>PETE</p>	 <p>HDPE</p>	 <p>PVC</p>	 <p>LDPE</p>	 <p>PP</p>	 <p>PS</p>
<p>Recyclable</p>	<p>Commonly</p>	<p>Commonly (for rigid containers) Almost never (for grocery bags)</p>	<p>Almost never</p>	<p>Sometimes (mostly downcycled)</p>	<p>Almost never (downcycled for bottle caps)</p>	<p>Almost never</p>
<p>Recycling Rates (global)</p>	<p>~55% (for PET bottles)</p>	<p>~30% (for rigid HDPE containers)¹</p>	<p><3%</p>	<p>~8%²</p>	<p><2%</p>	<p>~1%</p>

Note: Pictures are for illustrative use only; Figures are as of 2020E 1. US & EU average 2. EU Source: Industry Data, IVL Analysis

What drives Waste Management and Recycling?

Regulation:
Recycled content

Behaviour:
Buying recycled material and proper disposal

Infrastructure:
Produces recyclable material and recycles the collected material, closing the loop



Regulation:
"Extended producer responsibility" and collection targets

Strong progress towards 2025 recycling target despite pandemic

2025 Global Commitment

Incorporate

>750 KTA

of post-consumer PET material as feedstock into our polyester production per year

Recycle

50 billion bottles per year

Invest

\$1.5B

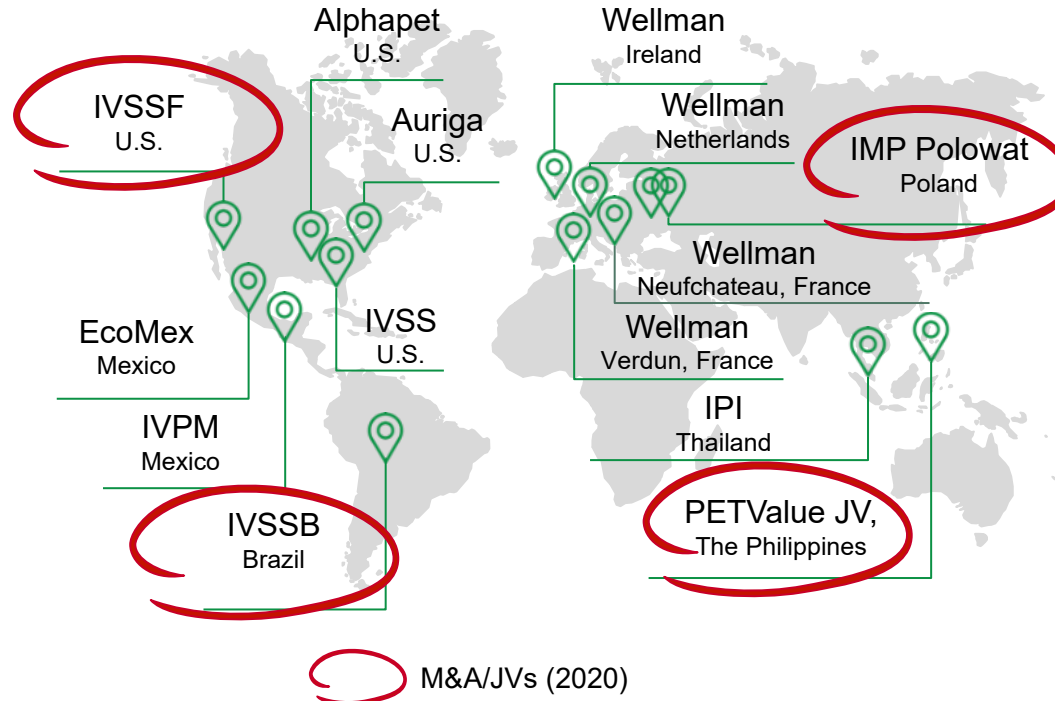
Leverage

30+ yrs of recycling experience

IVL global recycling strategy on track

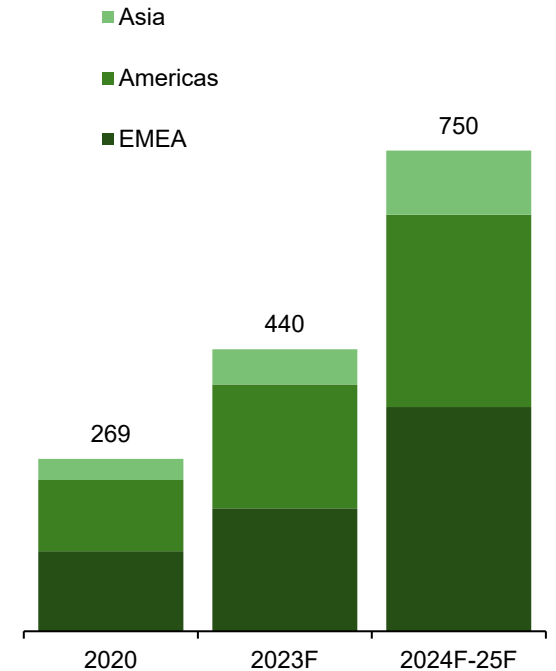
Expanding our global footprint

15 recycling plants (4 acquisitions/JVs 2020)



Growing our volumes

Recycled PET Capacity (KTA)



Indorama Ventures PCL: Committed Towards A Sustainable Future

Our Contributions to the UN SDGs



With a strong focus on creating value for the 3Ps - People, Planet and Prosperity, we continue to support and contribute to the UN SDGs.

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 Target (SBTs)



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