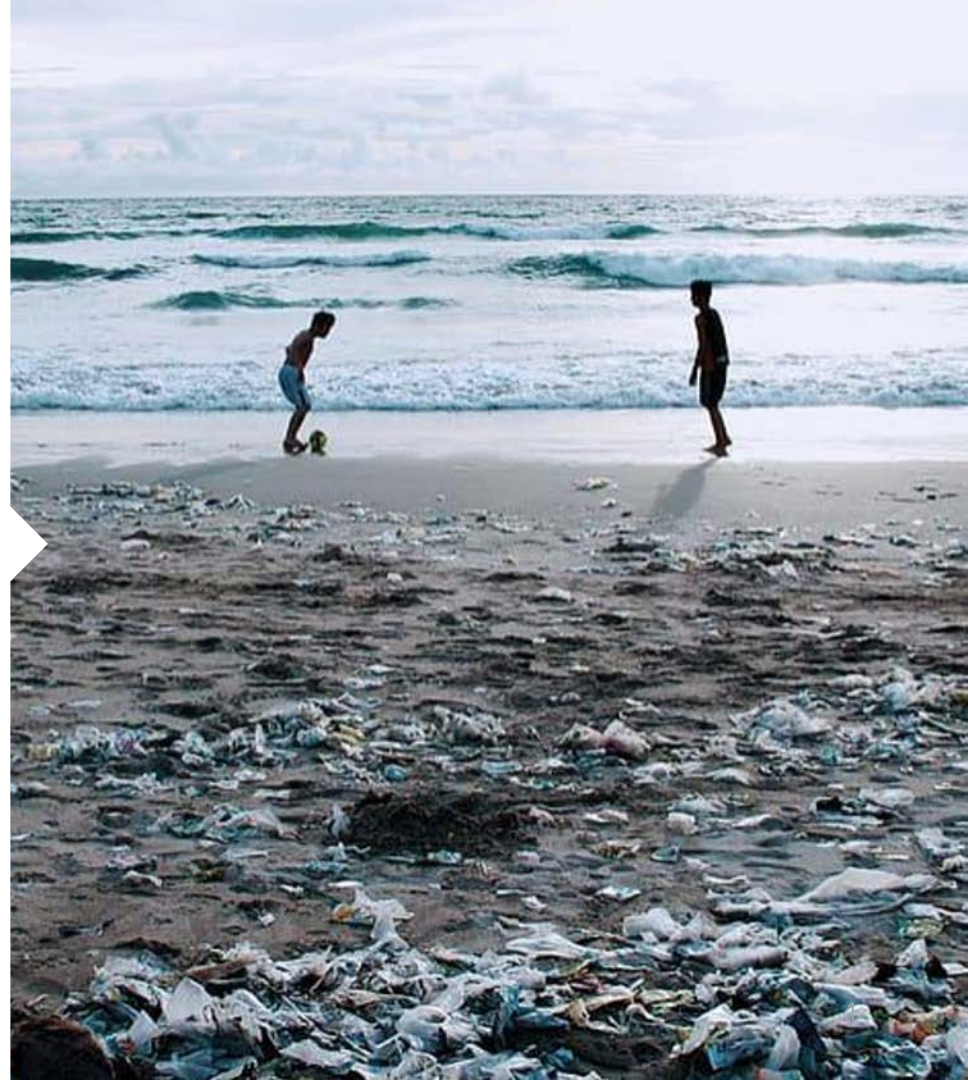


Waste no more

Ilham Kadri
CEO Solvay



Progress beyond



We bond people,
ideas and elements
to **reinvent progress.**



Progress beyond



Solvay One Planet



ENVIRONMENTAL & SOCIAL
Performance

EMPLOYEES Engagement



CLIMATE



RESOURCES



BETTER LIFE



PROFITABLE BUSINESS
Solutions

An approach based on ROBUST TOOLS and PROCESSES



HARVARD
BUSINESS SCHOOL



Integrated
reporting



2030 Solvay One Planet Goals

Solvay
One Planet



CLIMATE

Align **greenhouse gas emissions** with Paris Agreement
Phase out **coal**
Reduce negative pressure on **biodiversity**

Reduce by 26% (-2%/y)
Achieve 100%
30% reduction

RESOURCES

Increase **Sustainable Solutions** revenues
Increase **Circularity**
Reduce non-recoverable **industrial waste**
Reduce intake of **freshwater**

Achieve 65% vs 50%
Achieve 15% vs 7%
30% reduction
25% reduction



BETTER LIFE

Safety is a priority
Accelerate **Inclusion & Diversity**
Extend maternity leave time and open it to **all co-parents**

Aim for zero accident
Parity in 2035 vs 24% for mid & senior management
16 weeks regardless of the gender

2018 baseline

Solvay One Planet is supported by great partners



“Science and research play an important role to tackle the world’s environmental and health challenges and I’m particularly happy that Solvay is leading the way”

Bertrand Piccard
Founder and Chairman



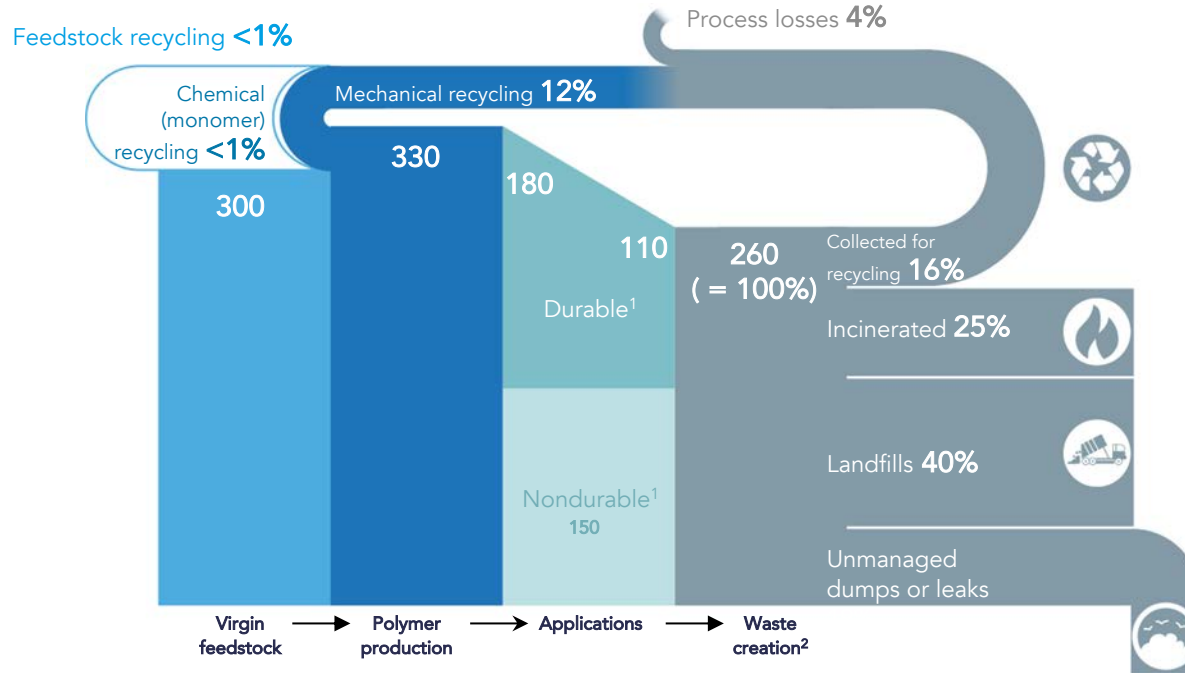
“With the launch of its Solvay One Planet plan, the company is sending a strong signal to the chemical industry and its value chain that the circular economy is happening – and that Solvay wants to lead the way”

Ellen MacArthur
Founder and Chair of Trustees

40% of polymeric waste to landfill - only 12%+ recycled



Global polymer flows, millions of metric tons per annum, 2016¹

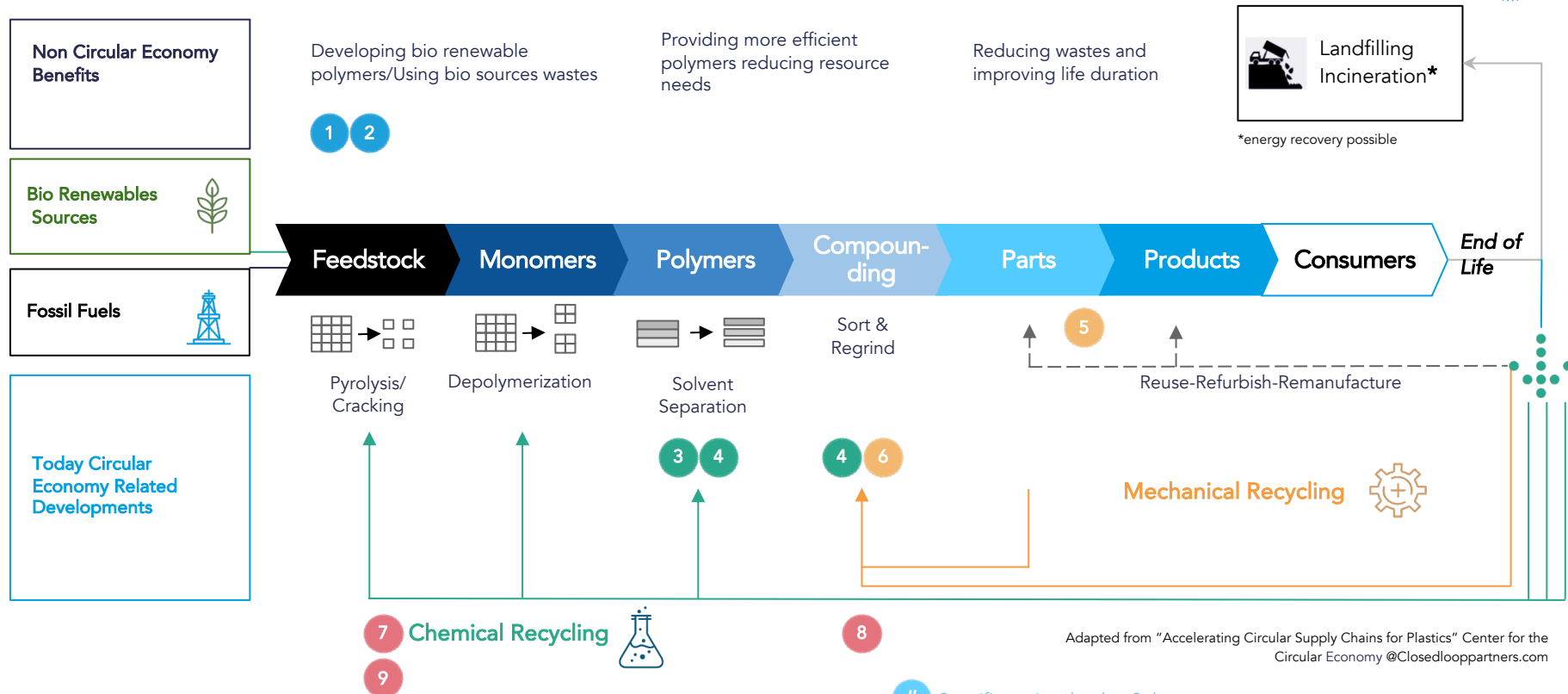


¹Durable applications with an average lifetime >1 year will end up as waste only in later years, nondurable applications go straight to waste.

²150 million metric tons of mixed plastic waste from nondurable applications that end up as waste in same year, plus 110 million metric tons of mixed plastic waste from production in previous years.

Source: McKinsey - How plastics-waste recycling could transform the chemical industry - December 2018; BCG A Circular Solution To Plastic Waste

Circularity can be built all along the polymer value chain



Adapted from "Accelerating Circular Supply Chains for Plastics" Center for the Circular Economy @Closedlooppartners.com

Solvay's Programs



KPIs
1-3

KPIs
1-3-7

Developing Bio-sourcing

- 1 Developing bio-renewable polymers for packaging
- 2 Developing bio-sourced acrylonitrile for future fibre development

Building Circular Economy in the value chain

- 3 Partnering with packaging manufacturers to design a new way to recycle all specialty polymers
- 4 Addressing downstream challenges to redirect end-use production waste into a near circular process train

KPIs
2-3-4

Enabling Circular Economy in the value chain

- 5 Designing for recycling and using less plastics by leveraging high performance plastics
- 6 Partnering with other chemical players and end-customers to recycle PEEK

KPIs
2-3-4-8-9

Creating Circular Economy through another value chain

- 7 Converting plastics into value-added products (waxes) through an innovative thermo-catalytic process
- 8 Embedding Carbon Fiber waste in specialty grades
- 9 Recycling synthetic fibers into polymers for other applications

KPIs
3-4-5-7

Circular Economy

Emerging circular Ecosystems at Solvay



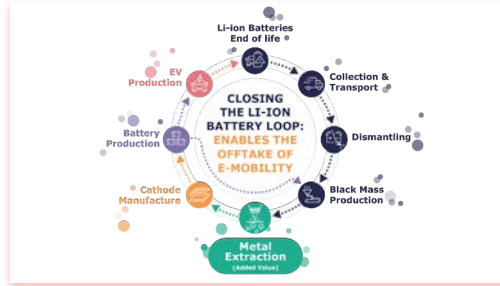
Wastes as a source of energy



Biomass boiler used to cut CO₂ emissions at Rheinberg plant

KPI 4

End of life Batteries as a source of materials



A new battery recycling value chain as a source for Ni,Co & Li

KPIs
2-3-4-7

Agro waste as a source for aroma products



Rice Husk used to produce Natural Vanillin

KPI 1

We need the right environment for success



Regulation & Incentives

in a level playing field



Partnerships

multi-player and multi-sectoral



Education & Awareness

for a better future thanks to chemistry

Thank you



WORLD
MATERIALS
FORUM



SOLVAY

Progress beyond

Waste no more!



[solvay.com](https://www.solvay.com)