program For tackling climate crisis

Municipal Solid Waste - from Problem to Solution

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## **Finding future potential**

World's plastics waste problem requires new solutions Partly substituting crude oil as feedstock for a variety of products

Chemicals







Jet fuel

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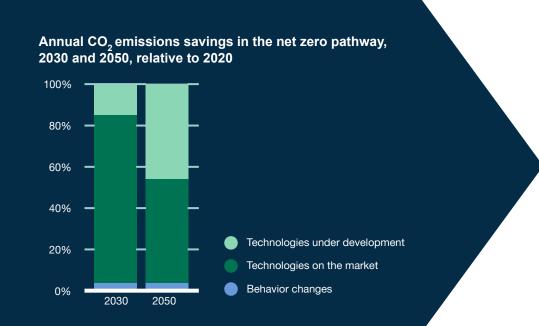


Transport fuels

Marine fuels



## Accelerating the use of existing solutions while developing new ones is key for reaching net-zero emissions



It is crucial that regulators ensure a level playing field, allowing companies and consumers to drive the transition to net zero forward.

Technologies present in the market today have a key role in contributing to  $CO_2$  emission reductions.

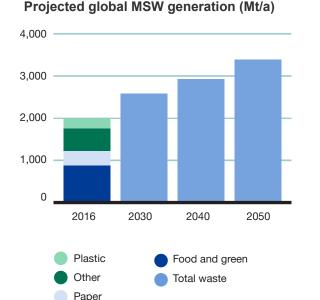
Source: International Energy Agency (2021), Net Zero by 2050, IEA, Paris CO-FUNDED BY BUSINESS FINLAND



## Tackling growing waste volumes through Increased recycling and energy recovery

Currently, 70% of the global waste volume is either discarded in landfills or leaking into ecosystems. Only 14% are recycled.

Global waste generation is forecasted to increase by 50% by 2050.



Source: World Bank: What a waste 2.0





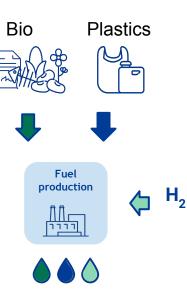
## Our common goal is to find ways to utilize the carbon in hard to recycle waste

Presorted waste for fuel and chemicals production includes biocomponents like **food, paper &** hard to recycle **plastics** 

These fractions can be collected with existing infrastructure

By utilizing carbon in mixed waste fractions in the production of fuels is a way to recycle the unexploited carbon

Non-recyclable waste should, instead of incineration, be converted into fuels and chemicals



Hydrogen production is picking up in Europe. Adding **green hydrogen into waste-to-fuel** process helps achieving GHG reduction targets of novel sustainable fuels and chemicals





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