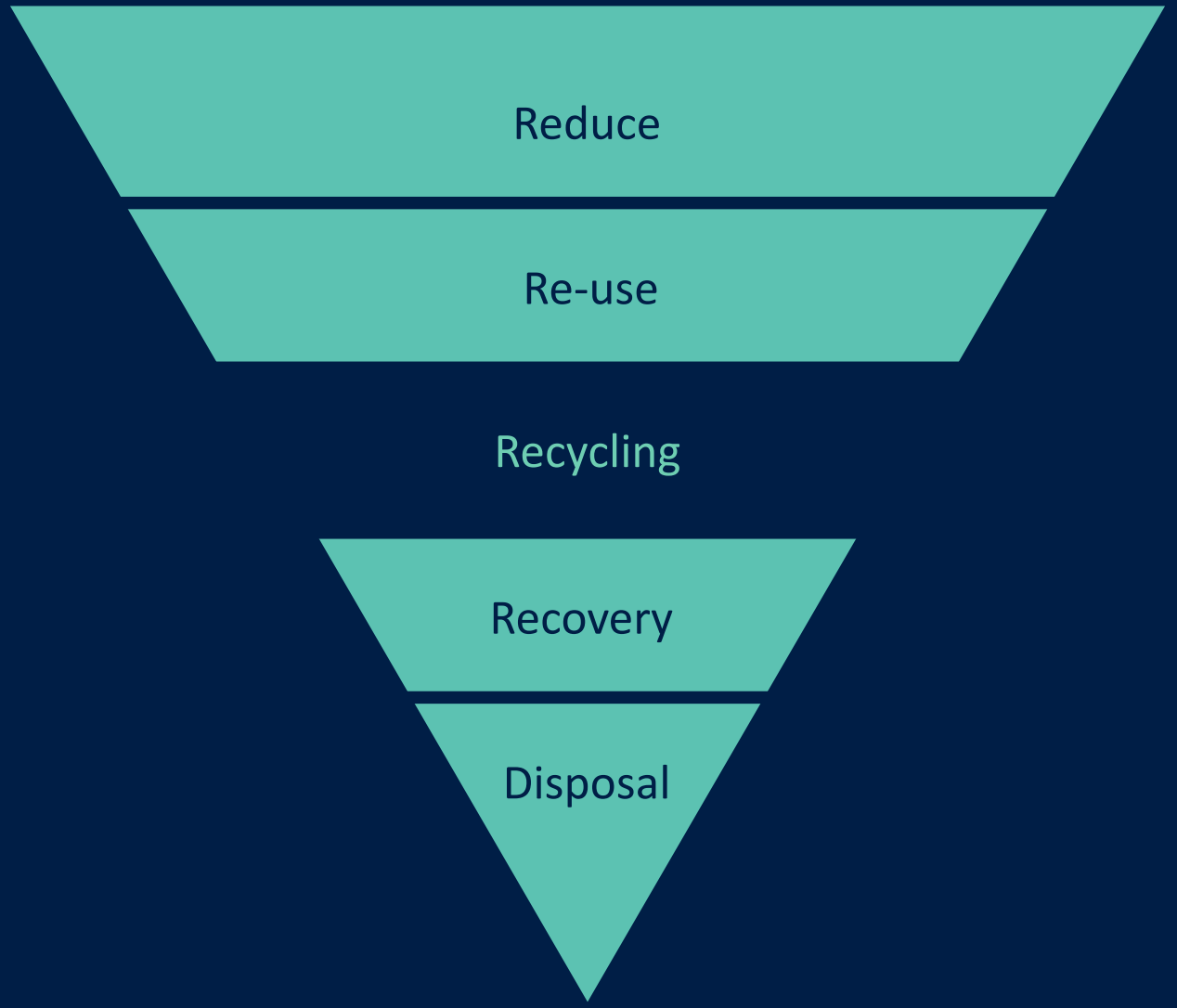

TOMRA
Welcome to Rethinking the Waste Problem.
We will begin shortly.

tomra.com

resociety.net

Waste Hierarchy



We commit to…

- striving for a world where, **by 2030**: 40% of post-consumer plastic packaging is collected for recycling.

- closed loop recycling of 30% of post-consumer plastic packaging is achieved.


re
society

Global Impact of Holistic System Solutions

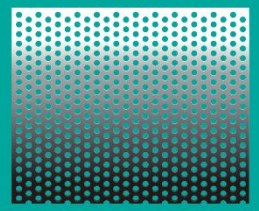
11 November 2020

Dr Dominic Hogg, Chairman
Eunomia Research & Consulting Ltd.

Source: Silpa Kaza, Lisa Yao, Perinaz Bhada-Tata, and Frank Van Woerden (2018) What a Waste 2.0: A Global Snapshot of Solid Waste Management to 2050. Urban Development Series. Washington, DC: World Bank

Sources of Global Emissions

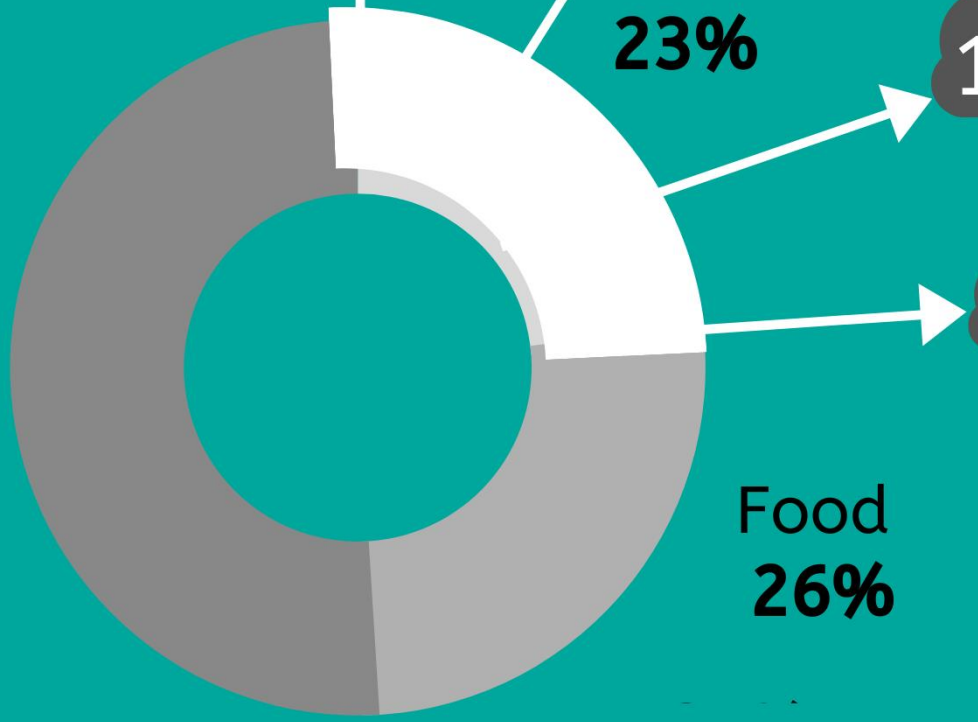
Iron & steel, aluminium, and other metals



4.8 Gt

Cement, lime, plaster, and other non-metallic minerals

4.4 Gt



23%

1.5 Gt

Plastics and rubber

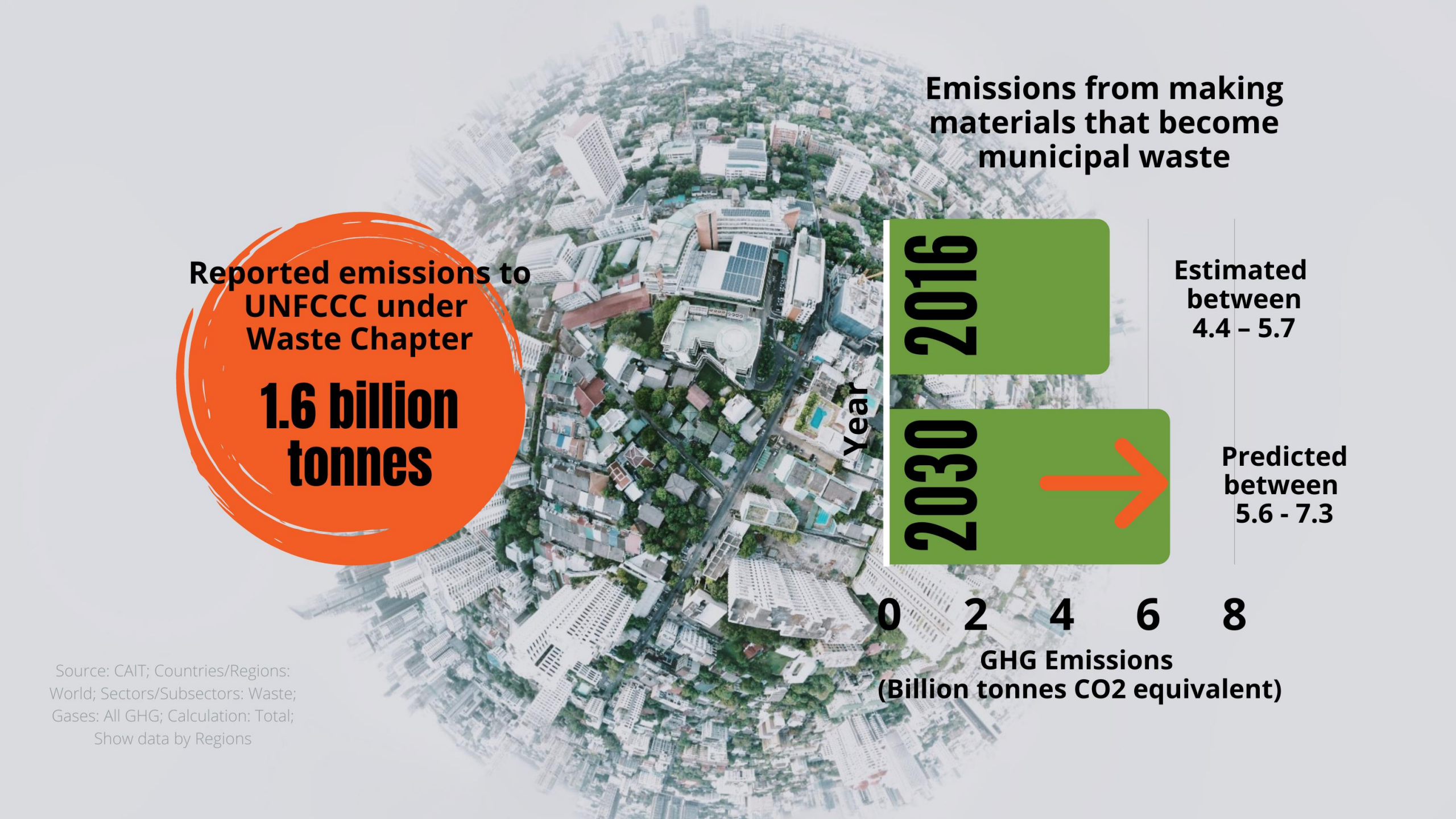
0.9 Gt

Wood production

Other
51%

Food
26%

Sources: IRP (2020). Resource Efficiency and Climate Change: Material Efficiency Strategies for a Low-Carbon Future. Summary for Policymakers, A report of the International Resource Panel. United Nations Environment Programme, Nairobi, Kenya (lead authors: Edgar Hertwich, Reid Lifset, Stefan Pauliuk, and Niko Heeren).
Poore, J., & Nemecek, T. (2018). Reducing food's environmental impacts through producers and consumers. Science, 360(6392), 987 992

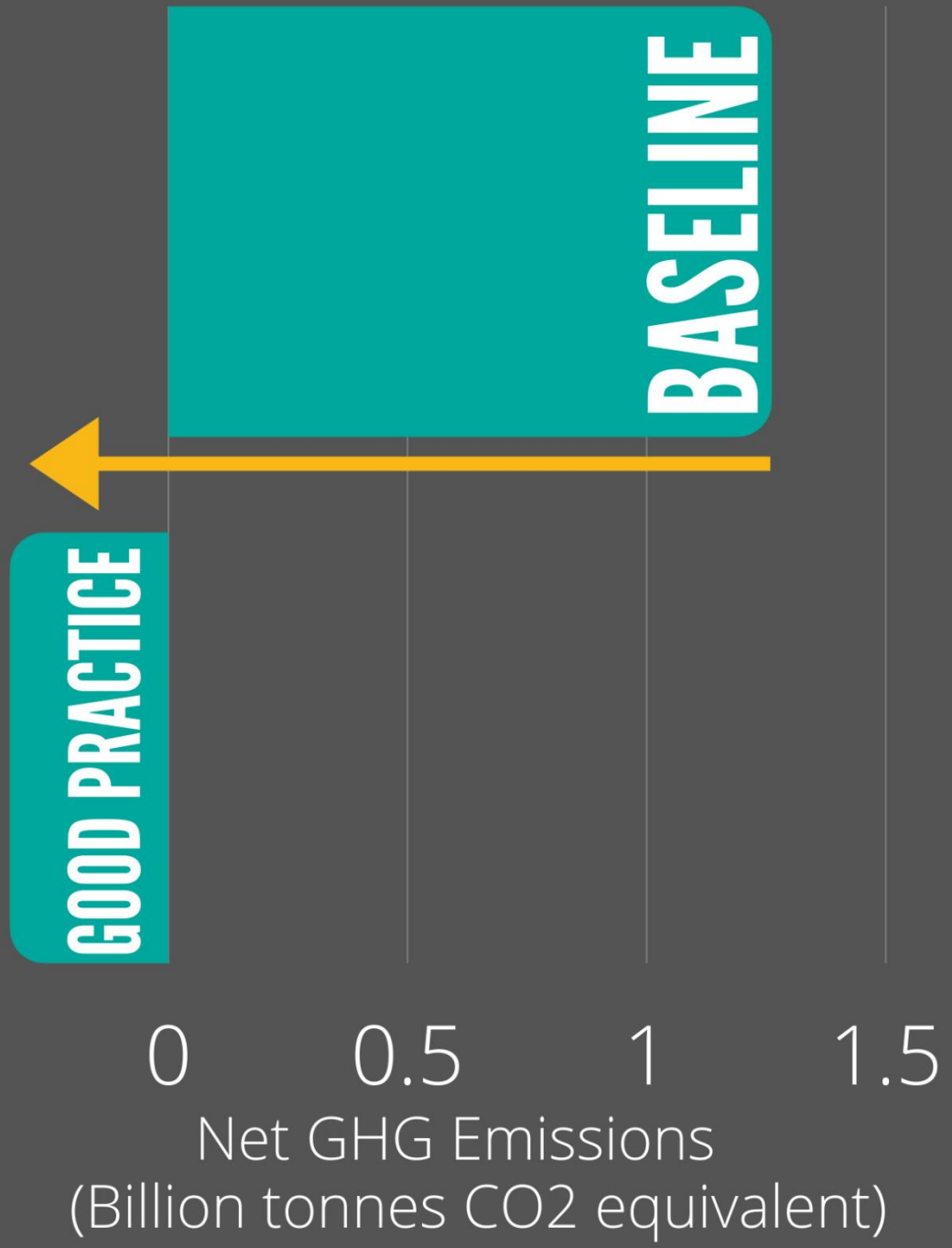


Source: CAIT; Countries/Regions: World; Sectors/Subsectors: Waste; Gases: All GHG; Calculation: Total; Show data by Regions

World Bank projections

REDUCTION OF

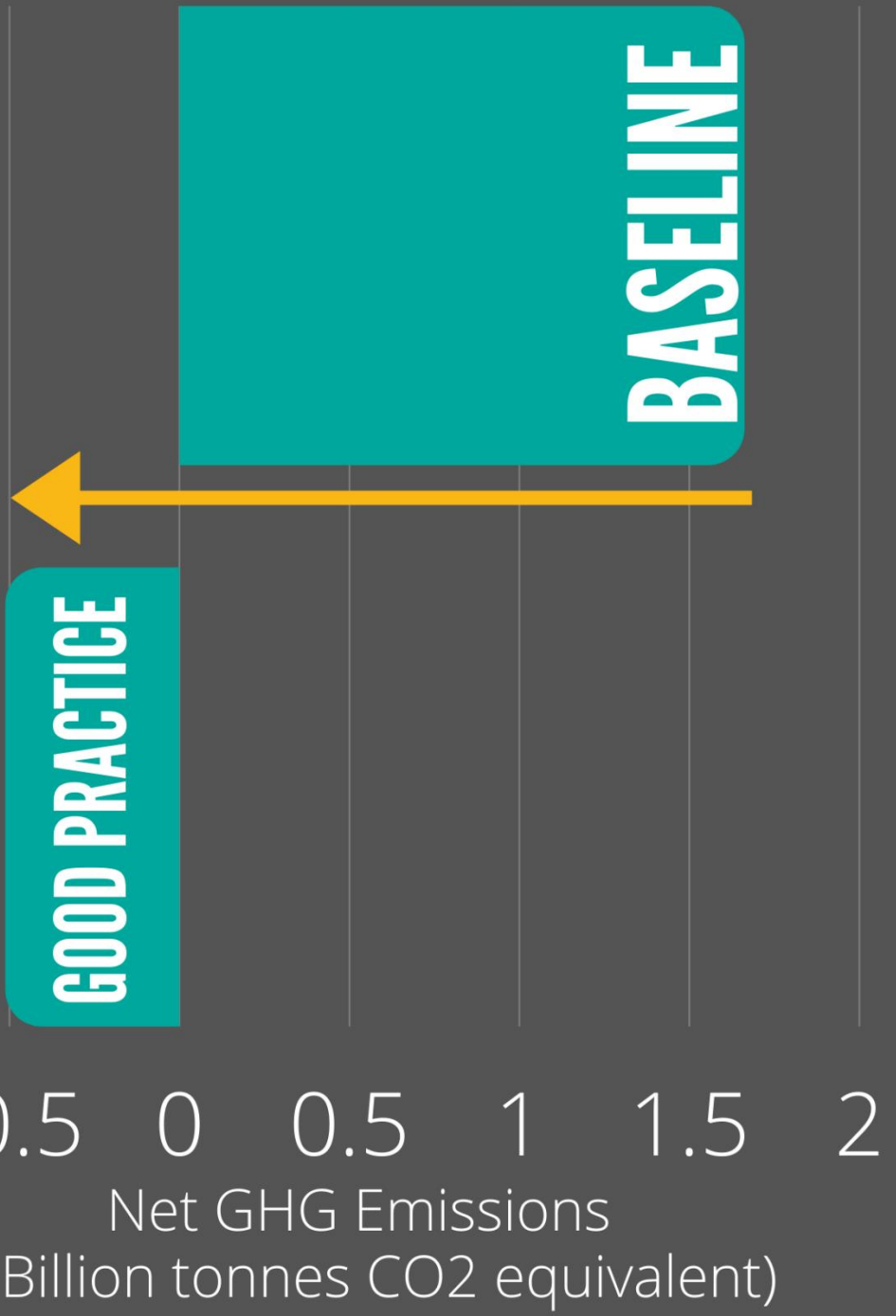
1.58 BILLION TONNES



World Bank projections
+ 30% increase in
generation

REDUCTION
OF

2.17
BILLION
TONNES



Beverage Container **Deposit Return Scheme** (excludes glass)

Container Parks & Re-use Centre

Separate Collection

Food & garden waste

Glass/Metal Packaging

Mixed Waste

Papers

Mixed Waste Sorting

Papers

Metals

Plastics

Anaerobic Digestion - gas to grid

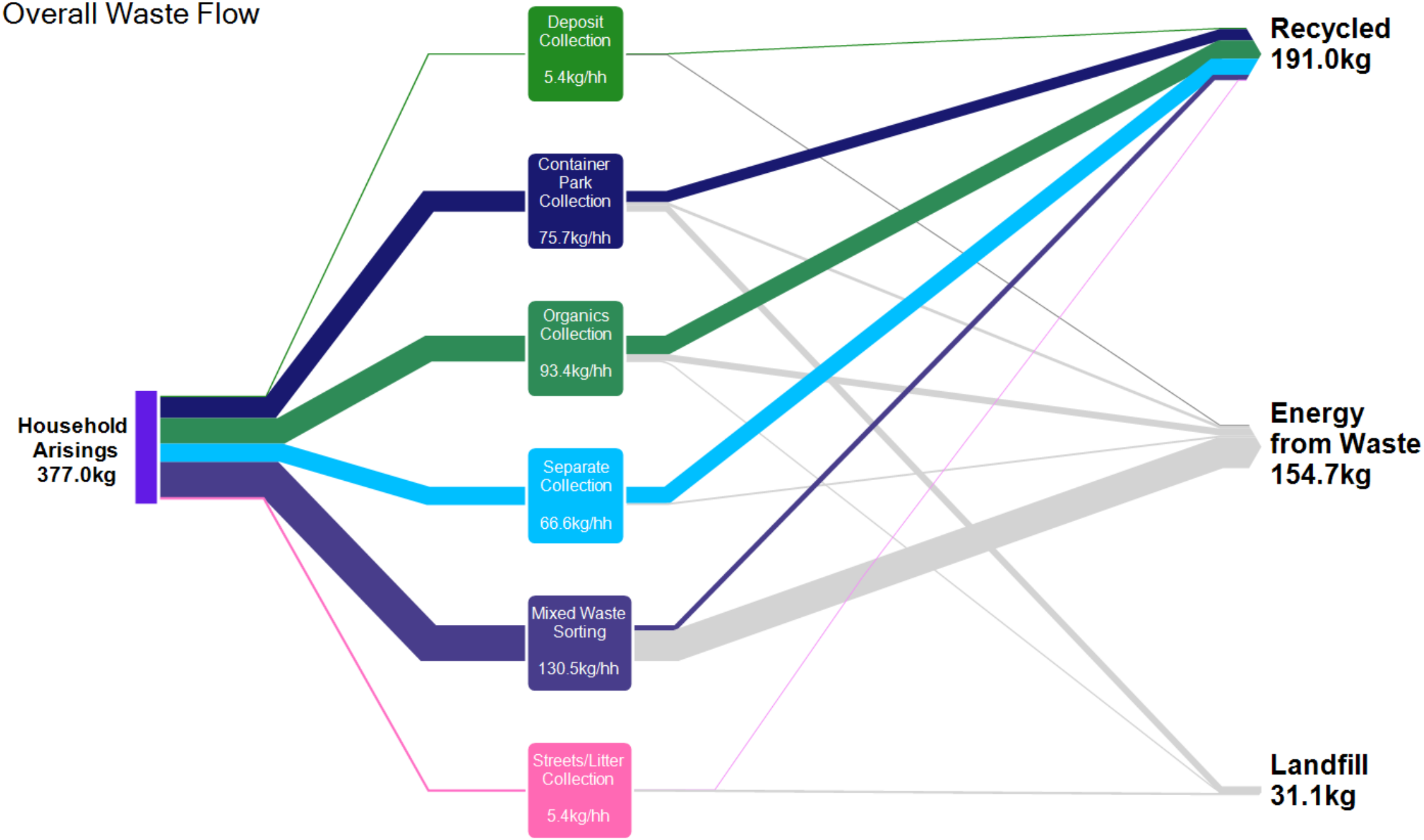
Paper sorting Facility (same as MWS facility)

Polyolefins to Reprocesssing Facility (same as MWS facility)

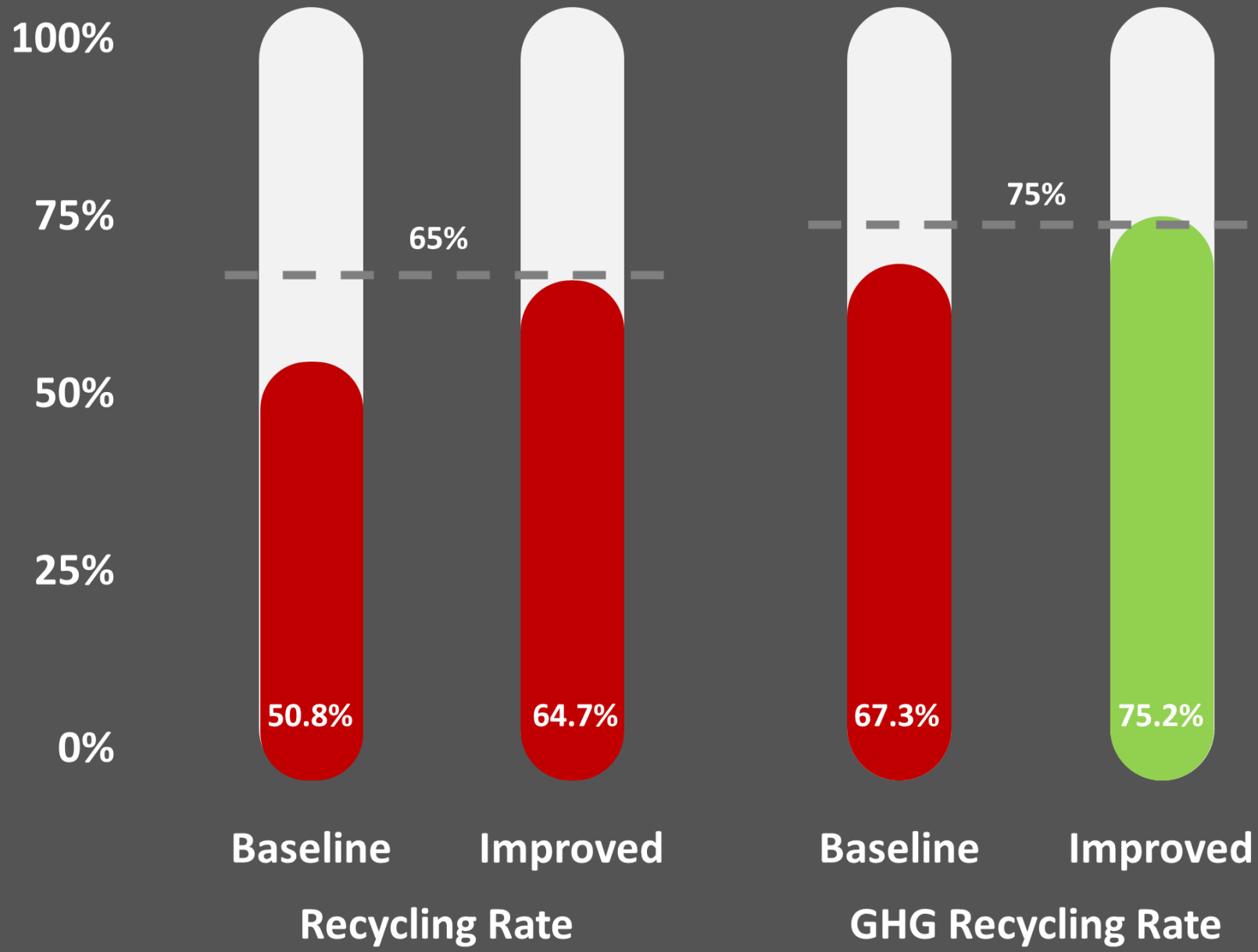
EfW - Combined Heat & Power - district heat

Stavanger

Overall Waste Flow

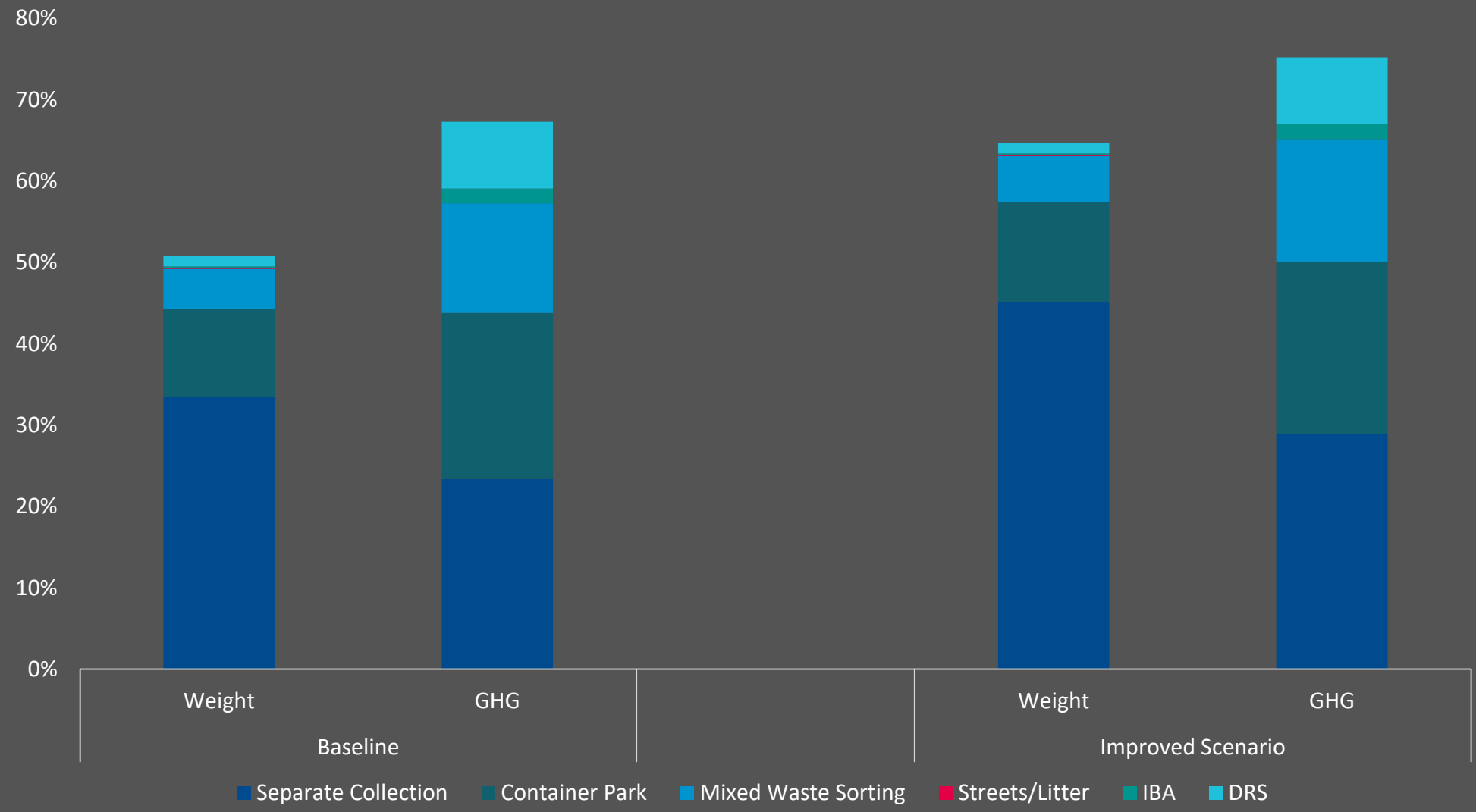


Municipalities using IVAR are able to meet the targets with practical system changes.



- **Recycling Rate:** the amount recycled as a proportion of total waste, for all municipal waste. This is based on the amount *actually* recycled, rather than the amount collected for recycling.
- **GHG Recycling Rate:** the greenhouse gas reductions associated with recycling relative to the situation where 100% recycling is achieved through the most beneficial routes.

Comparison Between Recycling and GHG Recycling Performance



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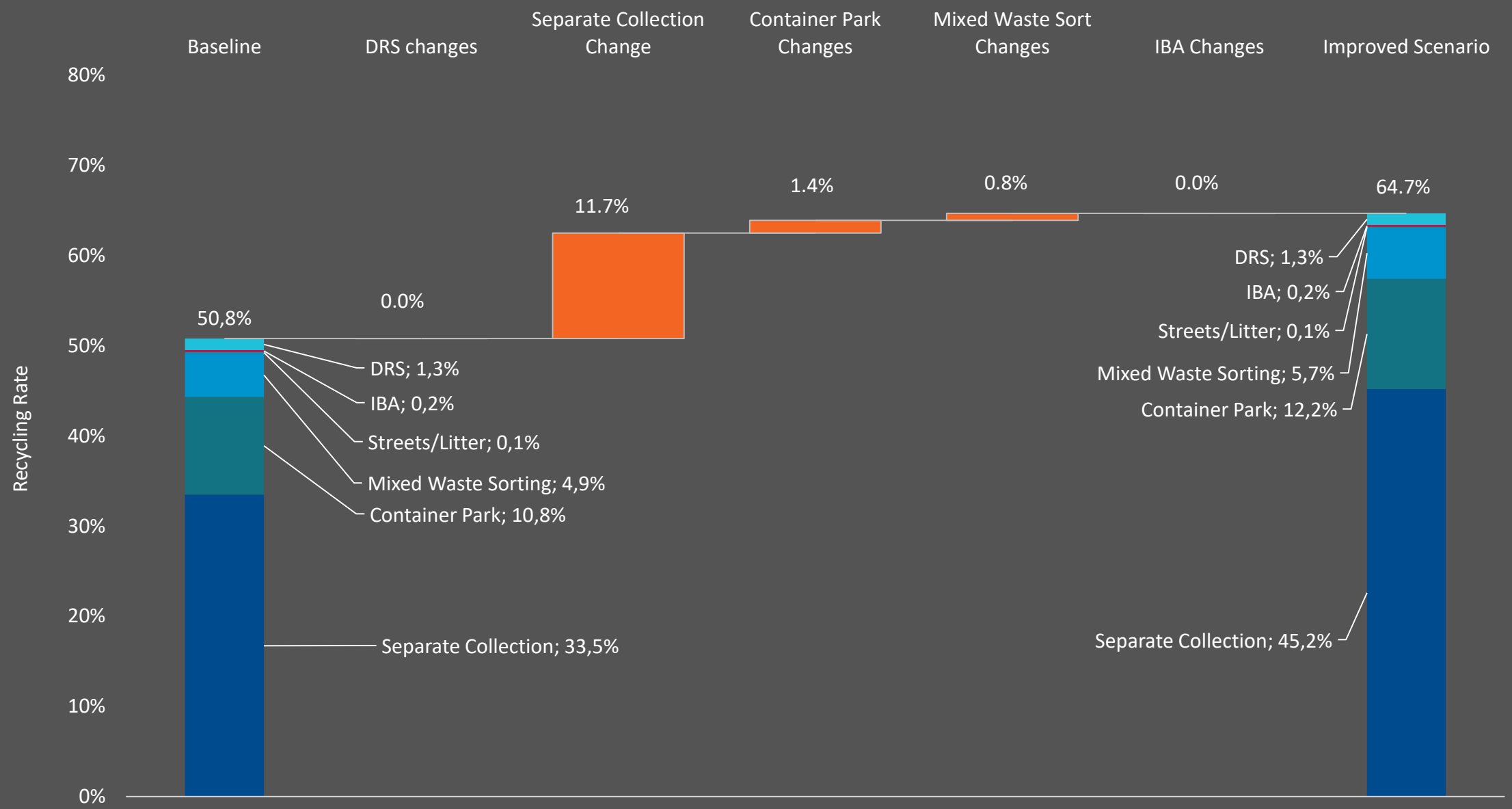
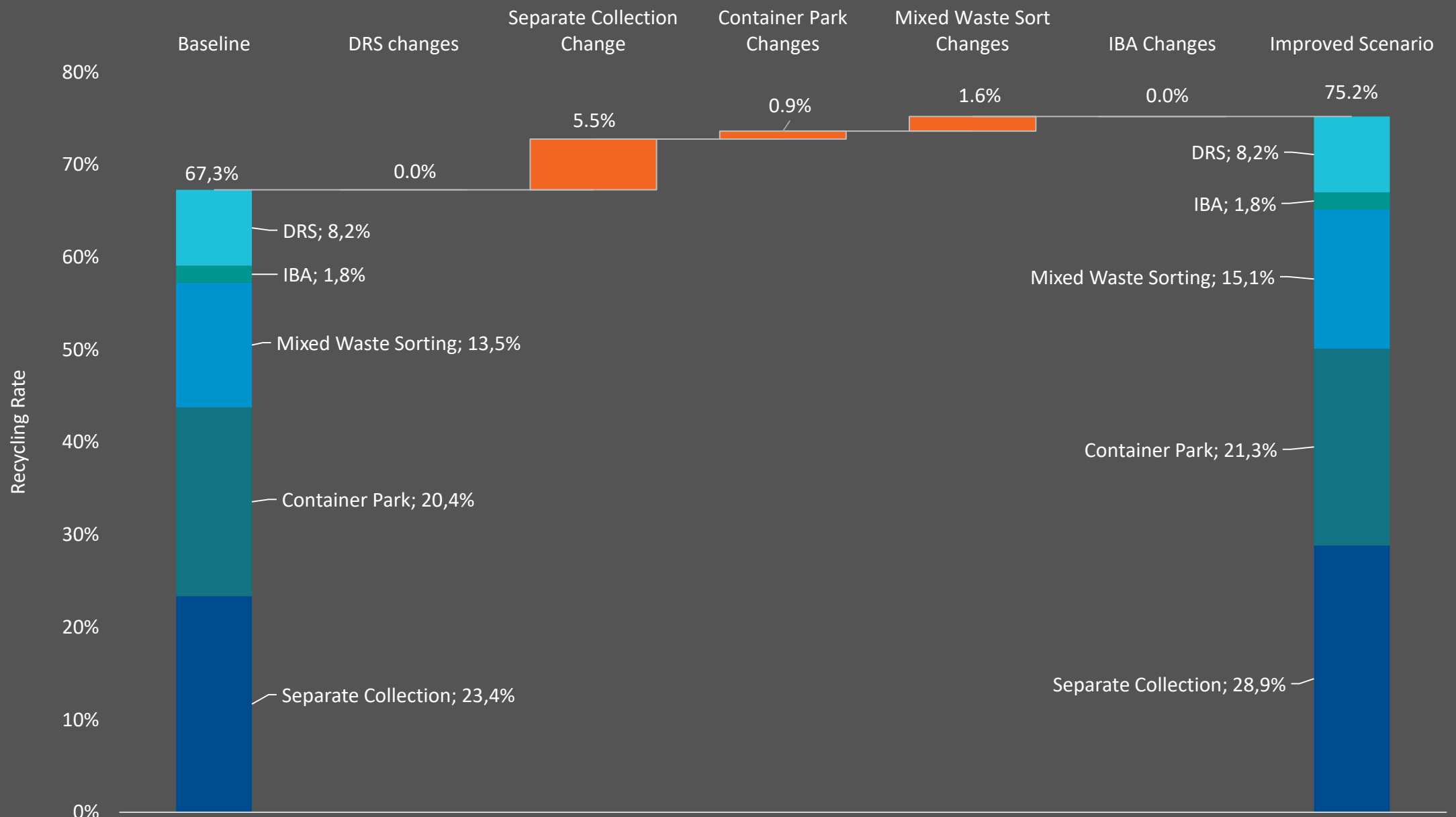
Recycling Rate Changes by System



GHG Recycling Rate Changes by System



Thank you for joining us.

Together we can make a difference.