



CHEMISTRY INDUSTRY
ASSOCIATION OF CANADA

GREAT LAKES PLASTICS FORUM: SOLUTIONS FOR A SUSTAINABLE FUTURE

SETTING THE SCENE – INDUSTRY PERSPECTIVES

POLLUTION PROBE / COUNCIL OF THE GREAT
LAKES REGION

OCTOBER 11, 2018



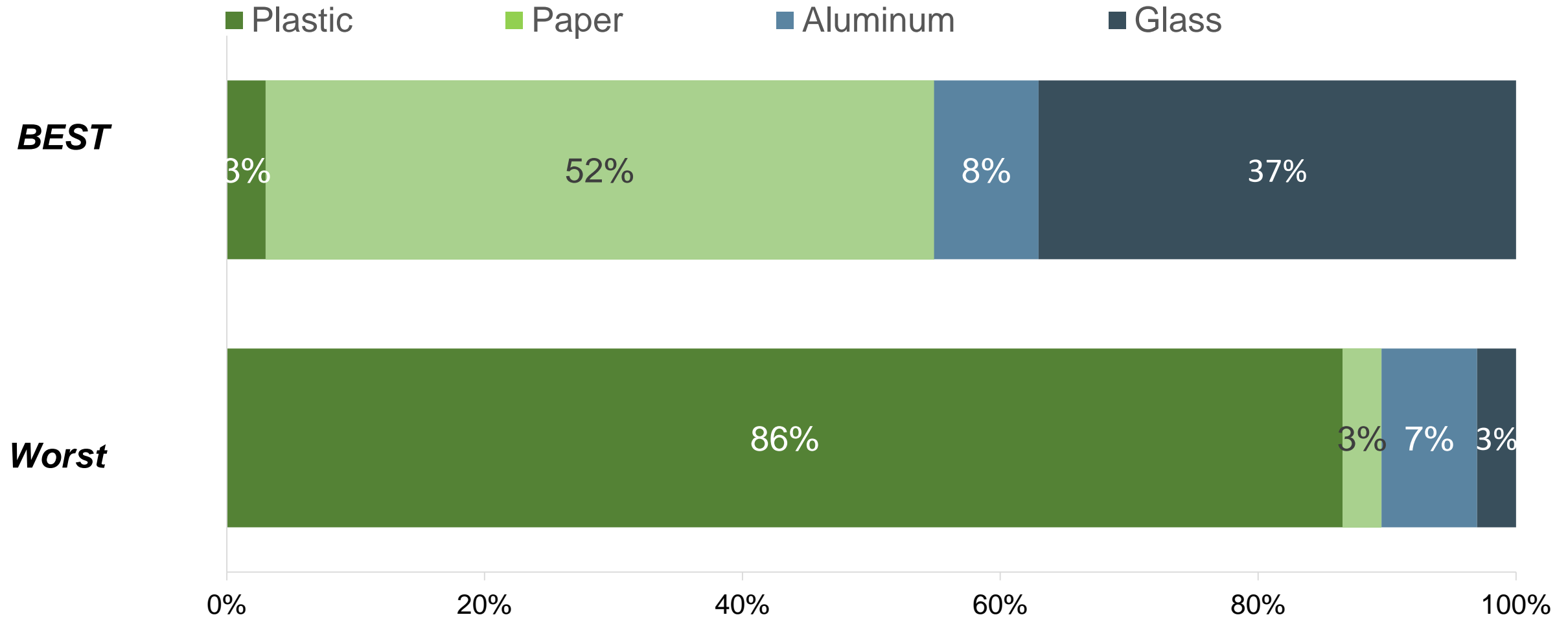
Responsible Care®
Our commitment to sustainability.

PUBLIC PERCEPTION OF PLASTIC

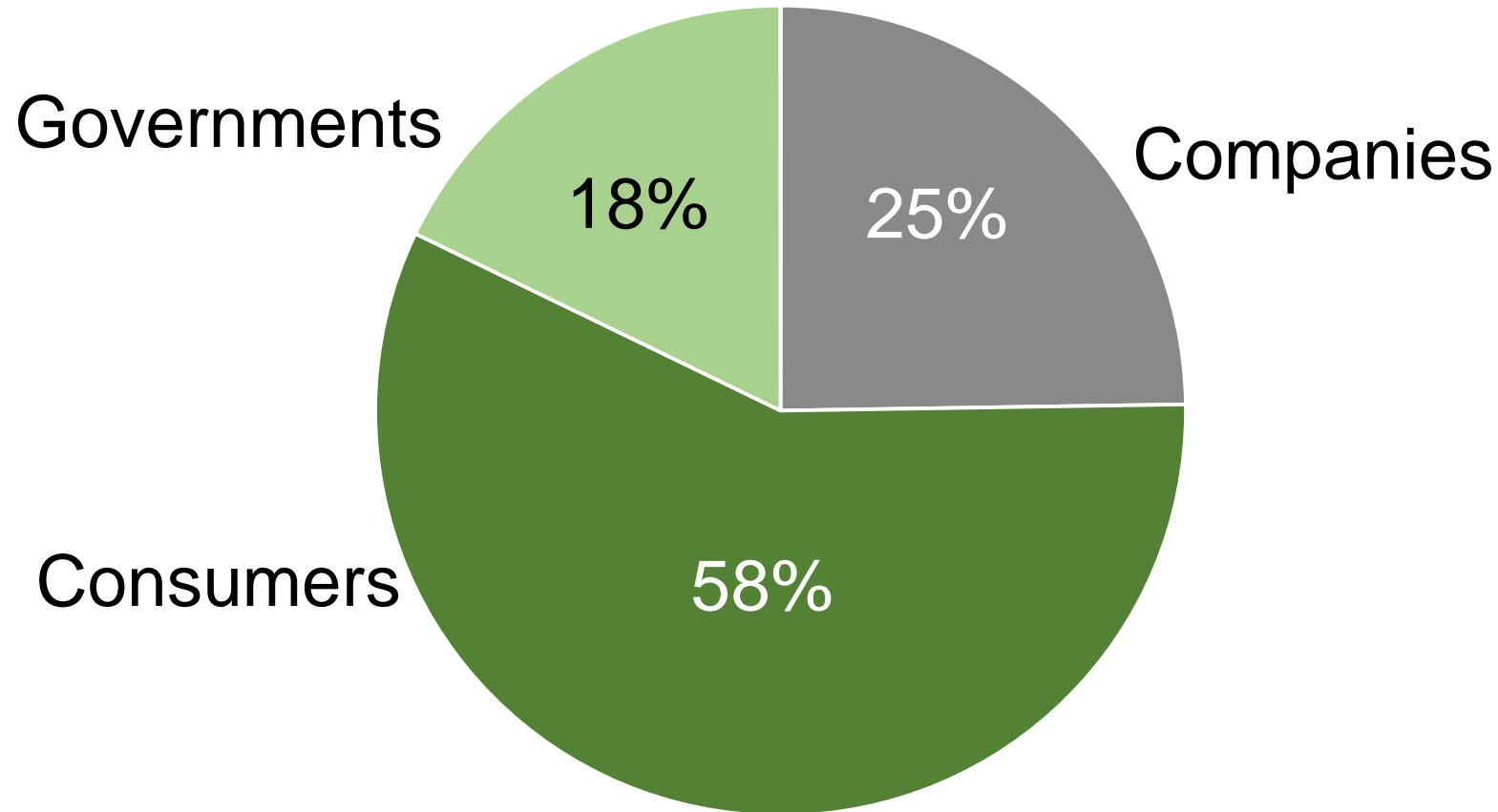


DRIVERS OF CONCERN

Which of these materials do you believe is best for the environment? Worst?



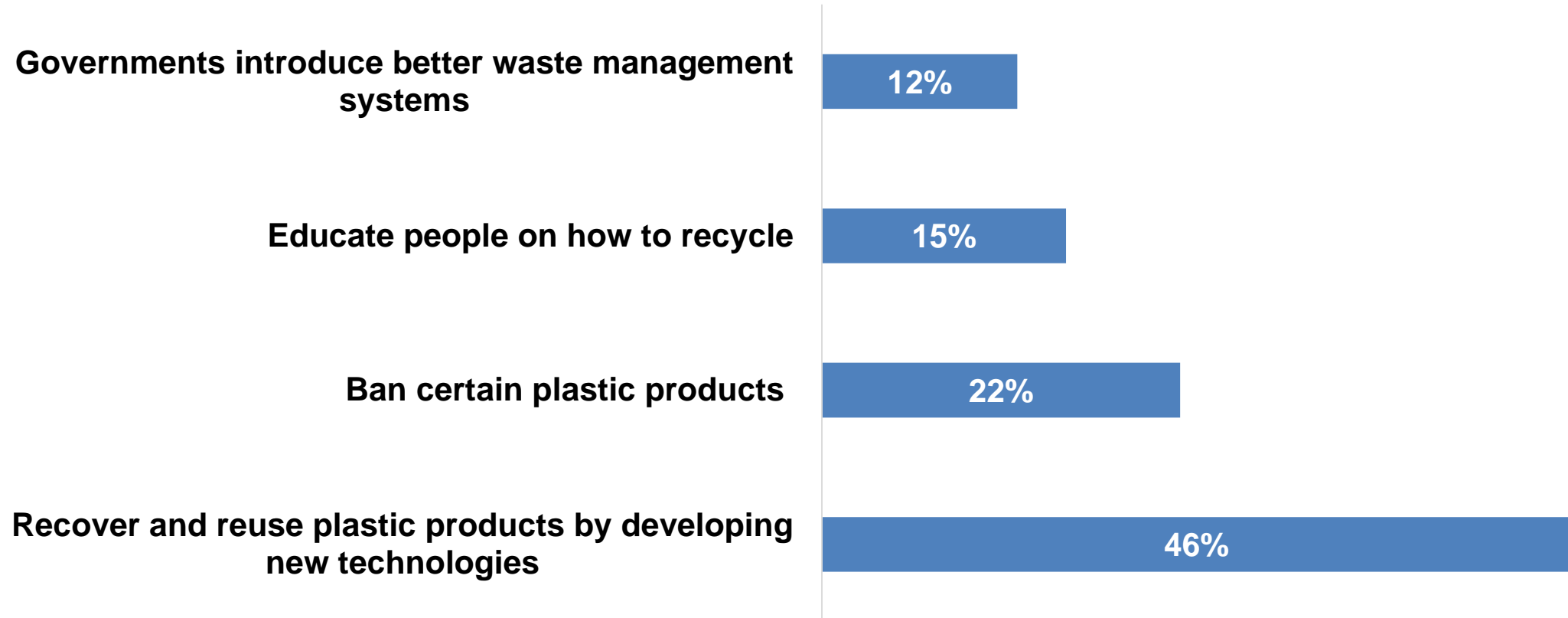
WHO IS RESPONSIBLE FOR PLASTIC WASTE?



The majority feel consumers who fail to recycle properly are to blame for plastic waste in rivers, lakes and oceans.

RECYCLING IS FAVOURED OVER BANS

However, when asked the best way to reduce plastic waste:



CANADIANS HAVE ACCESS TO RECYCLING

INCREASING SUSTAINABILITY AND RECYCLING

More Canadians are able to recycle plastics

6% increase

67%

All types of plastic containers



10% increase

65%

Plastic bags & overwrap



9% increase

44%

Foam, food & protective packaging

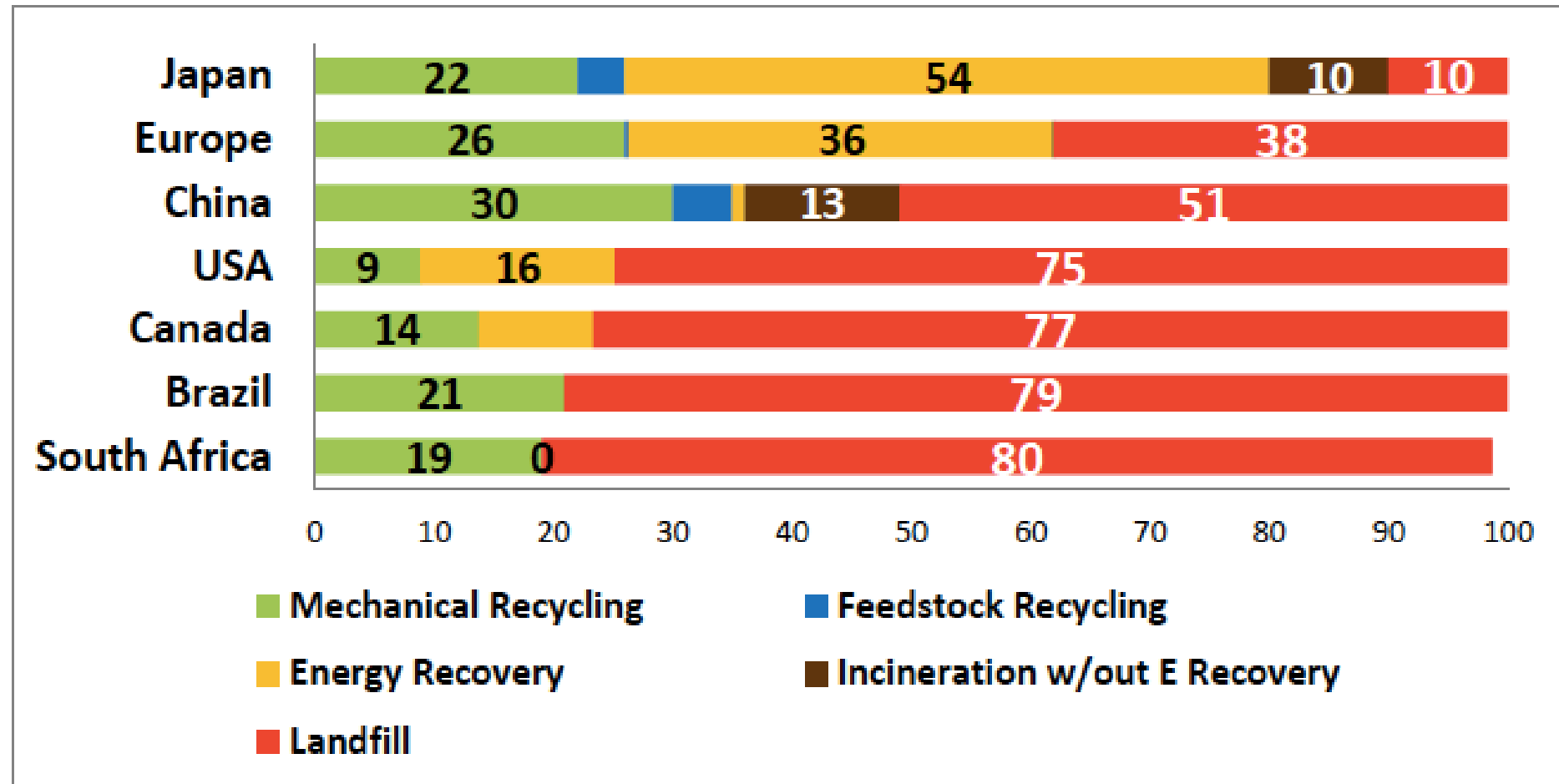


PET beverage bottles 99%

100
80
60
40
20
0

PLASTIC RECYCLING AND RECOVERY IS A CHOICE

Plastic Waste Management Practices in Key Economies (%; 2012 data):



CONFUSED AND FRUSTRATED



WHAT'S AT STAKE?

EDITORIALS OPINION

Grocery bags and takeout containers aren't enough. It's time to phase out all single-use plastic



By THE TIMES EDITORIAL BOARD FEB 20, 2018 | 4:15 AM

UNEP urges people to end toxic relationship with plastic

But plastics are essential to our sustainable development goals

2 ZERO HUNGER



3 GOOD HEALTH AND WELL-BEING



6 CLEAN WATER AND SANITATION



8 DECENT WORK AND ECONOMIC GROWTH



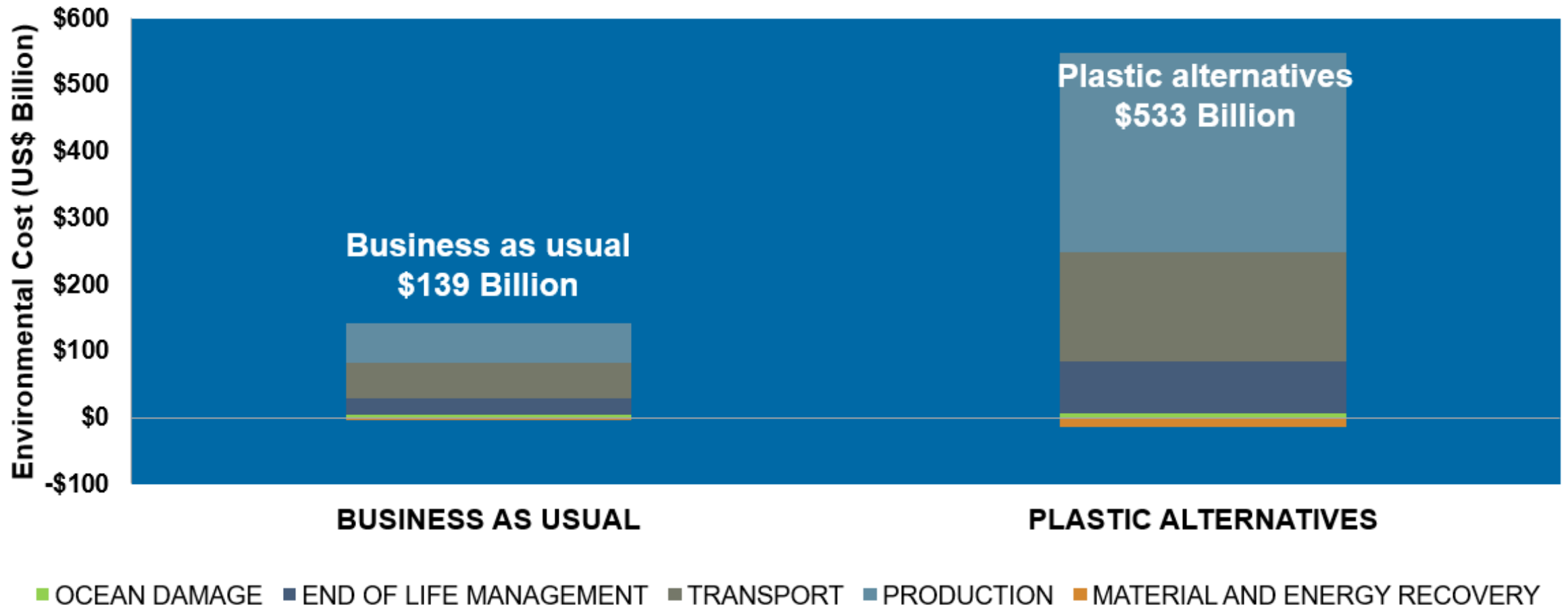
12 RESPONSIBLE CONSUMPTION AND PRODUCTION



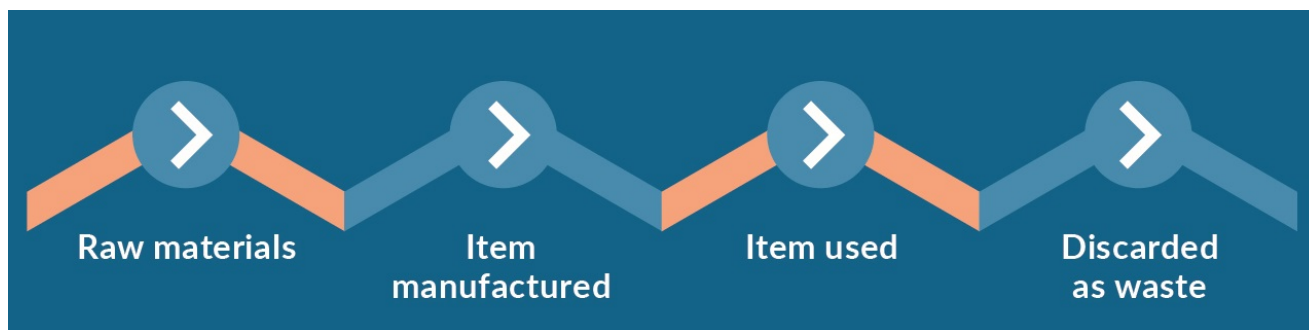
13 CLIMATE ACTION



ALTERNATIVES HAVE MUCH HIGHER COSTS

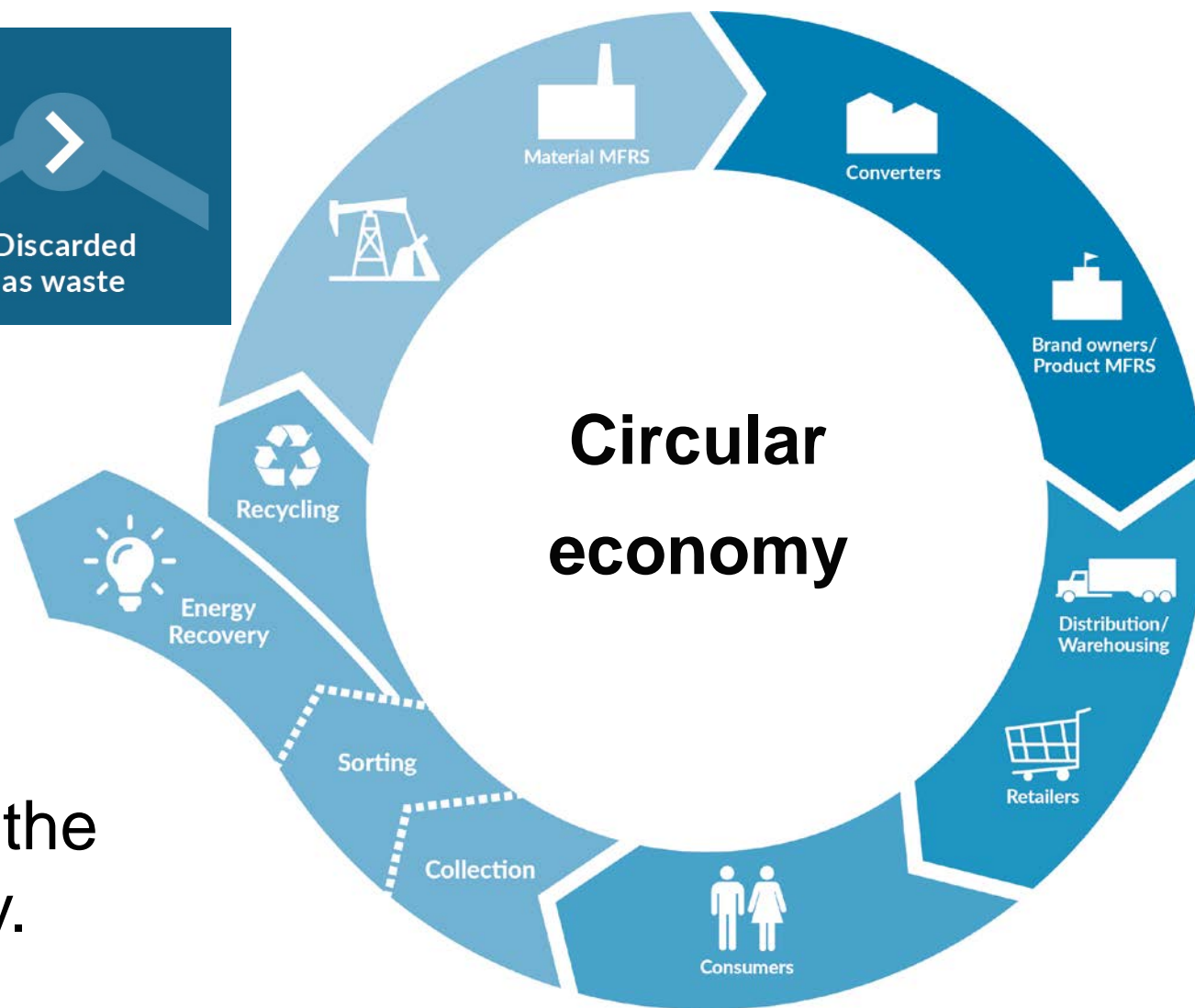


LINEAR VS CIRCULAR ECONOMY



Traditional linear economy

The chemistry sector supports the transition to a circular economy.



WASTE REDUCTION TARGETS

Representing the broad plastics value chain in Canada, CPIA and CIAC and their members announced the following waste reduction targets:

MAY 2018

CIAC members set ambitious circular economy targets

2030

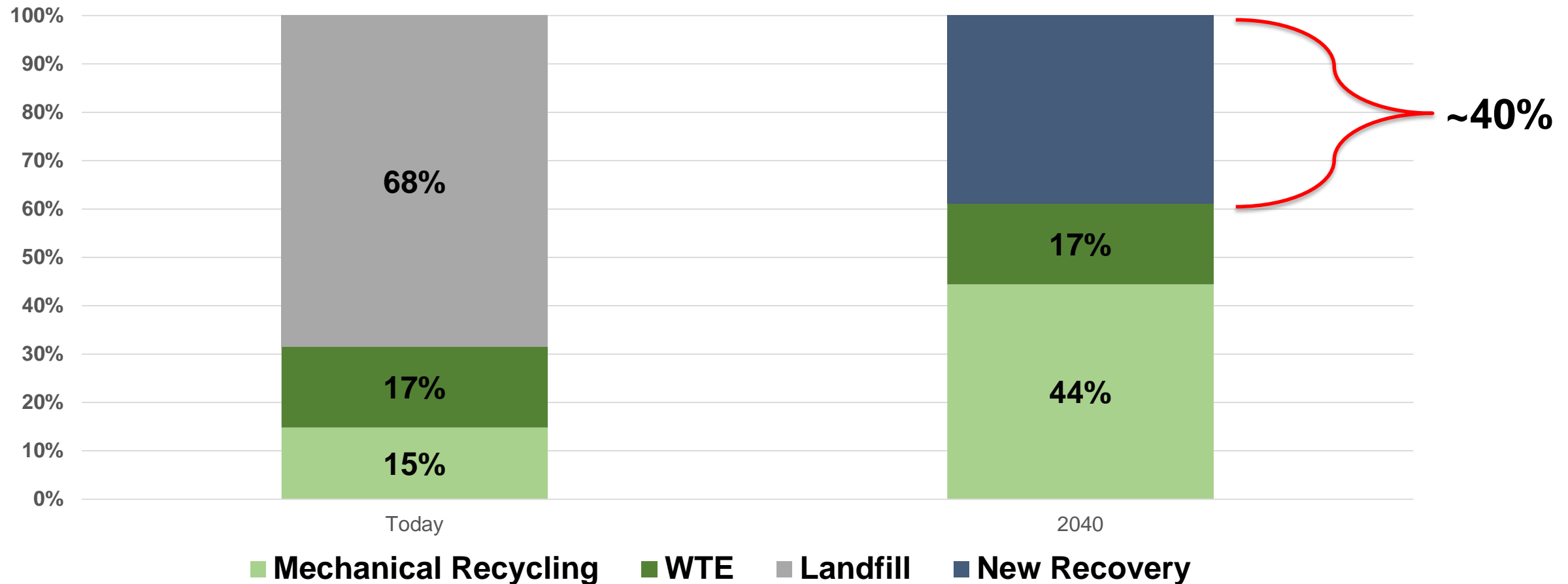
100 per cent of plastics packaging recyclable or recoverable

2040

100 per cent of plastics packaging reused, recycled, or recovered

HOW DO WE GET THERE?

40% new recovery required, even with 3X existing plastics packaging recycling rate



CHEMICAL RECYCLING – PLASTICS TO FEEDSTOCK AND FUEL

By converting non-recycled plastics into ultra-low-sulfur diesel, we reduce:^{2,3}



Argonne National Laboratory analysis of plastics-to-ultra-low-sulfur diesel.
Now in its Greenhouse gases, Regulated Emissions and Energy use in
Transportation (GREET) model.

INDUSTRY PRINCIPLES

1. Plastics litter is unacceptable.
2. Landfill means waste of precious resources.
3. Everyone has a role to play.
4. Science and life-cycle analysis, not emotion.
5. We will do our part and help others do theirs.

PLASTICS – TRULY REVOLUTIONARY

