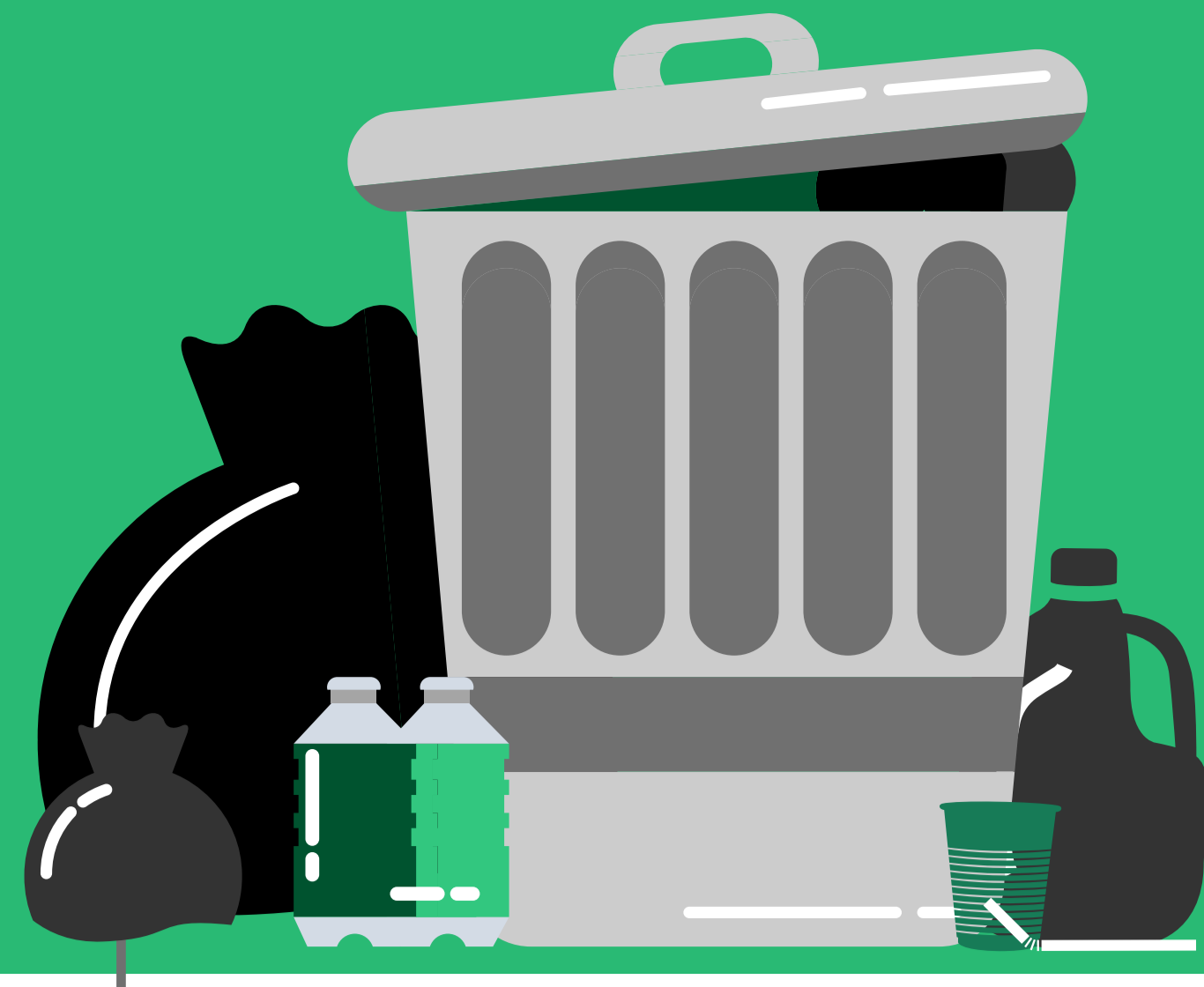
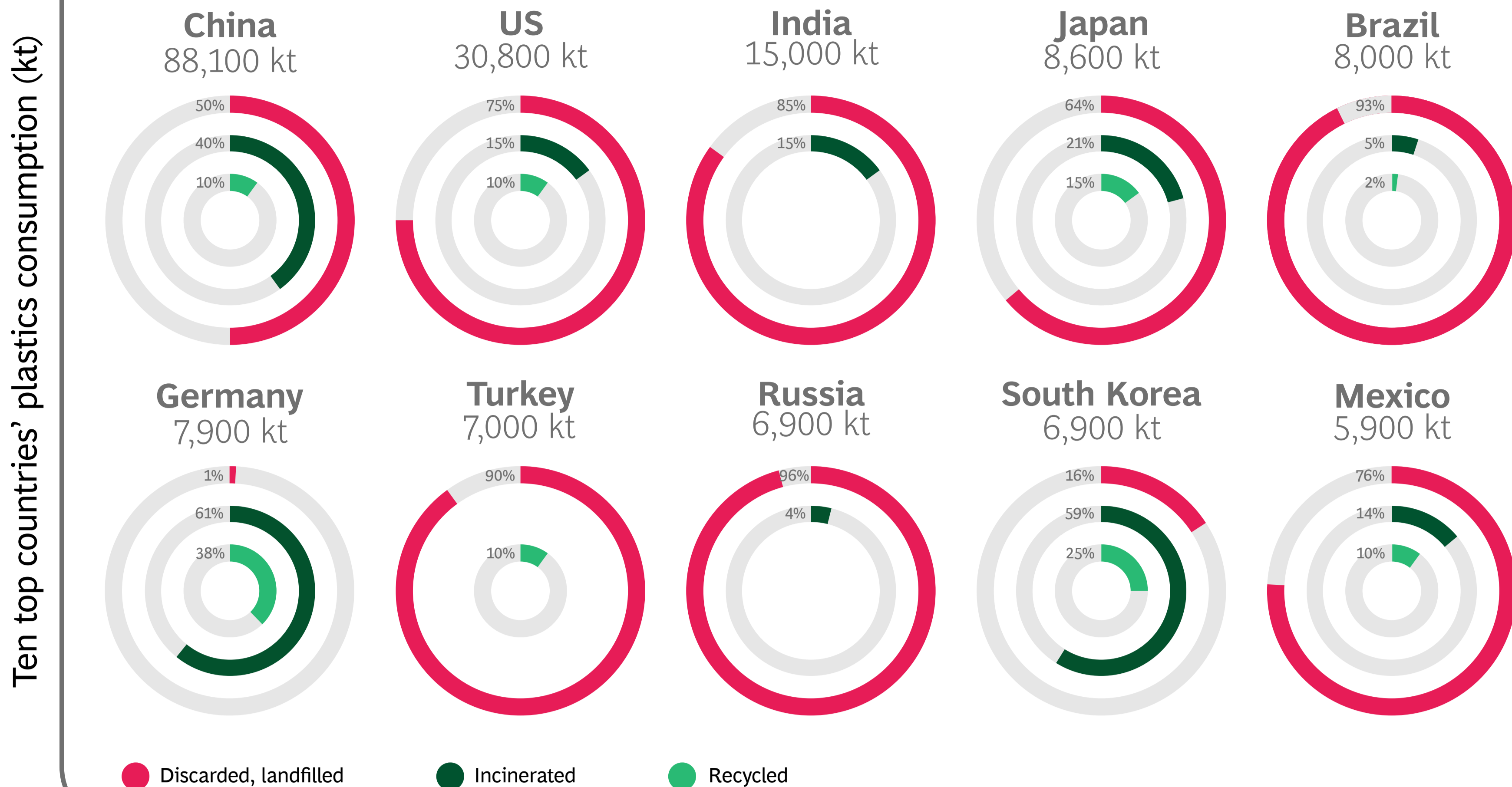


There's Too Much Plastic Waste—and Too Few Solutions



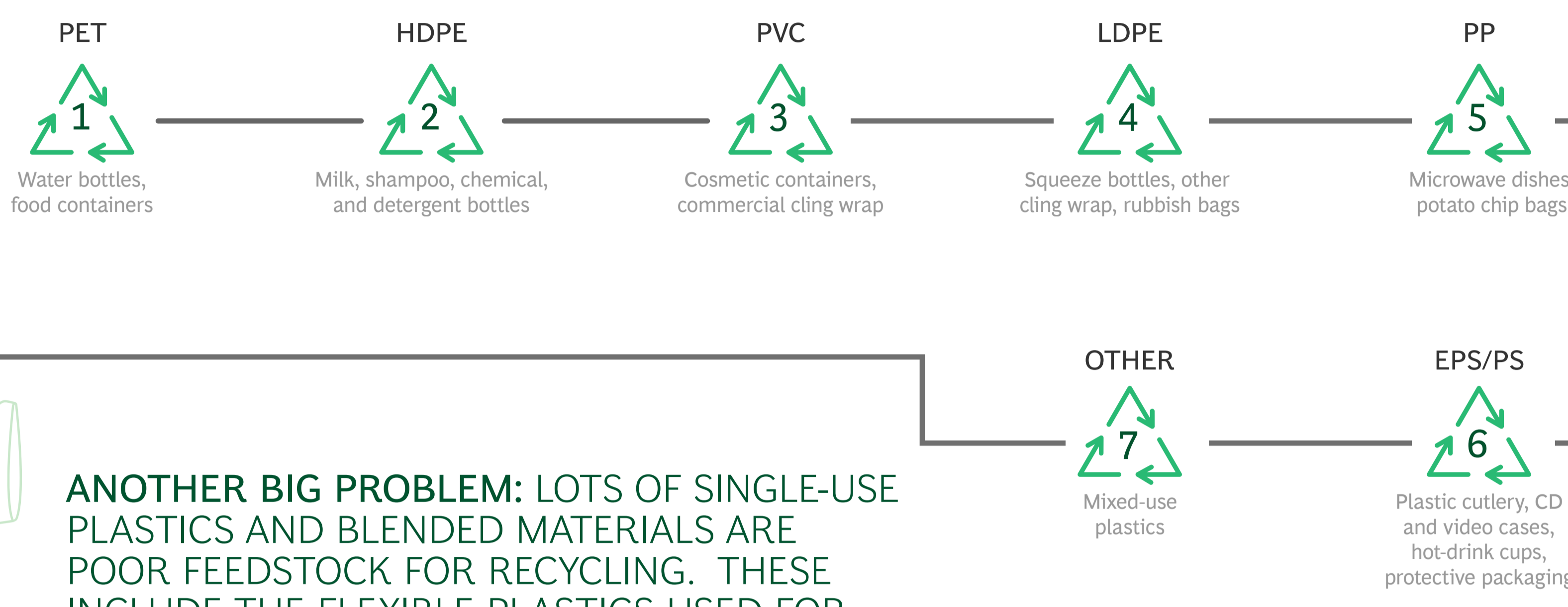
WE PRODUCE 350 MILLION TONS OF PLASTICS EVERY YEAR

About 250 million go to landfills, get thrown away, or end up in dumps, in oceans, or by the side of the road.



THE CURRENT SOLUTIONS ARE INSUFFICIENT AND INCOMPLETE

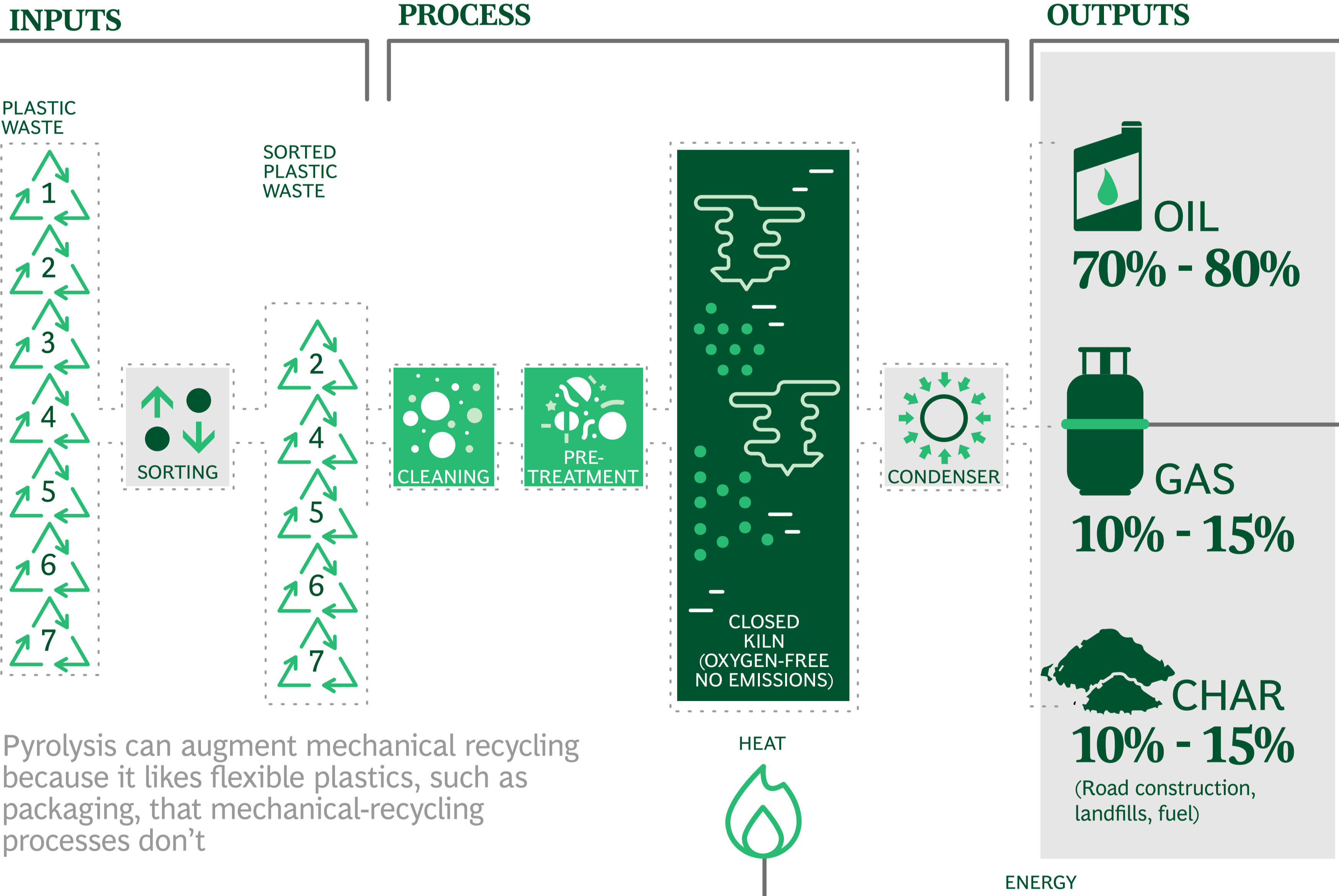
Reduction, reuse, and recycling all help. But current recycling technologies require well-developed waste-sorting and collection systems, which are present in only more-mature markets.



ANOTHER BIG PROBLEM: LOTS OF SINGLE-USE PLASTICS AND BLENDED MATERIALS ARE POOR FEEDSTOCK FOR RECYCLING. THESE INCLUDE THE FLEXIBLE PLASTICS USED FOR PACKAGING, FOOD WRAPPING, AND MANY CONSUMER PURPOSES.

PYROLYSIS CAN FILL A GAP

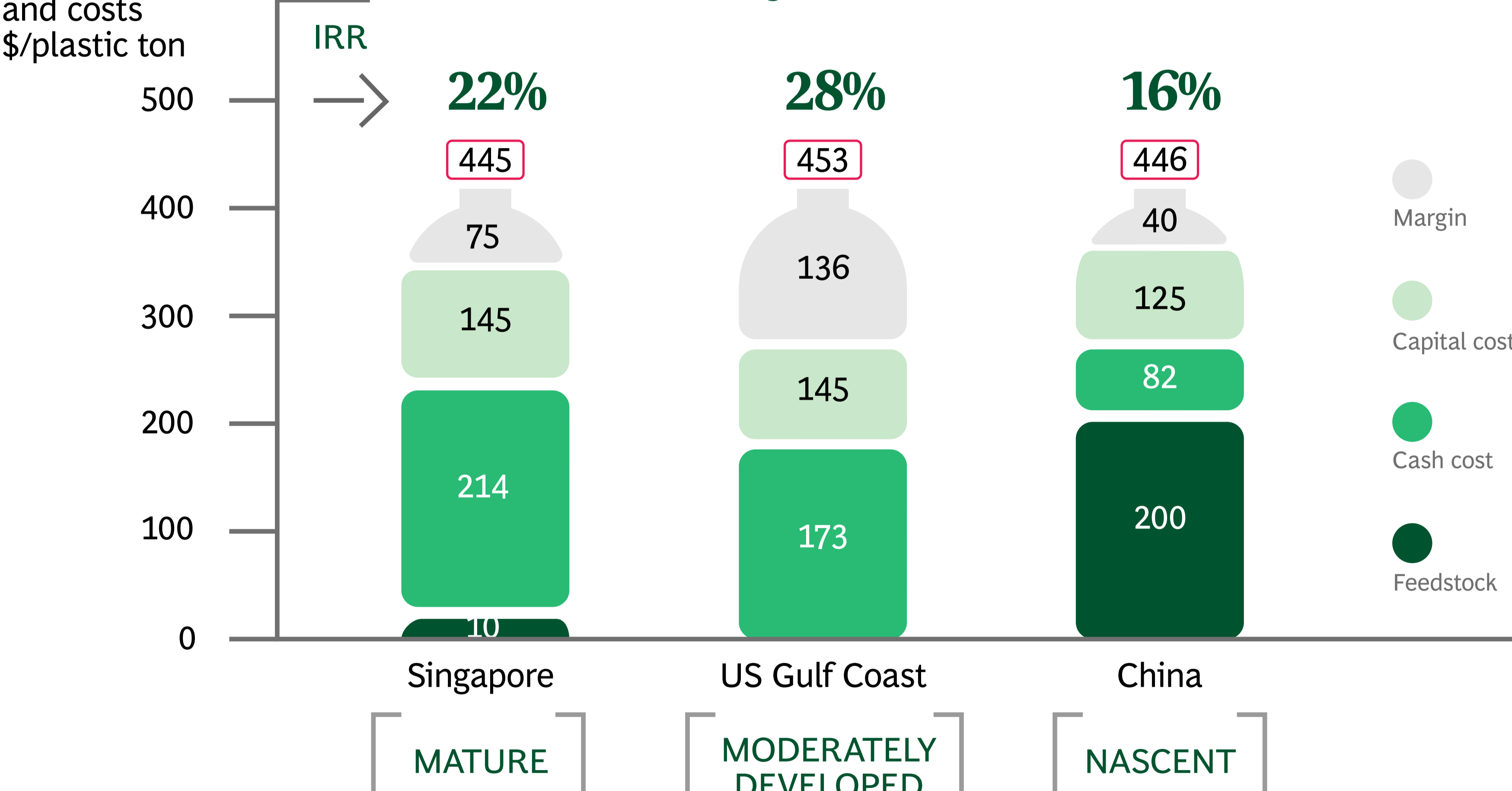
Pyrolysis converts plastics back to oil and gases with limited adverse effects by heating waste at high temperatures in oxygen-starved kilns



PYROLYSIS IS ECONOMICALLY VIABLE IN MANY KINDS OF MARKETS

Companies can profitably build and operate pyrolysis plants.

ECONOMICS FOR A 30-KT/Y CAPACITY PLANT



Pyrolysis can have an immediate and significant impact in immature markets such as Jakarta (where only 2% of plastic waste is now recycled and pyrolysis could handle up to two-thirds of all plastic waste).

WHAT INDUSTRY AND GOVERNMENTS NEED TO DO

- Pyrolysis offers energy and chemical companies profitable new business models while they improve their environmental, social, and governance performance.
- Governments can implement policies that reduce consumption and incentivize the development of better plastic waste solutions, including pushing recycling of all types.
- In all markets, the biggest single challenge is achieving the scale necessary to make a significant impact on the plastic waste problem and justify the investment.

PYROLYSIS IS ONE OF THE TECHNOLOGIES THAT HAS THE POTENTIAL TO OVERCOME THIS BARRIER AND HELP SOLVE THE PLASTIC WASTE PUZZLE.

This infographic is based on the BCG report *A Circular Solution to Plastic Waste*. Please see the report for qualifying notes and a full description of sources.