

Figures from Countdown newsletter

Energy efficiency and the IMO Net-Zero Framework

Countdown to IMO NZF
2026

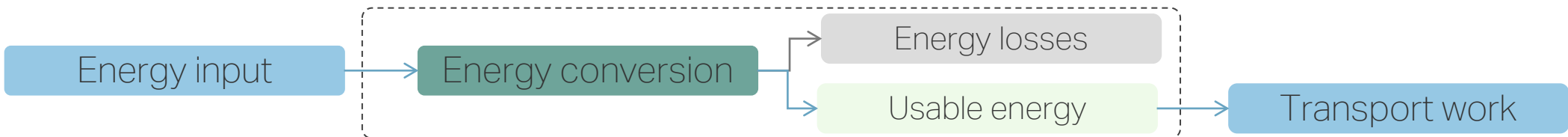
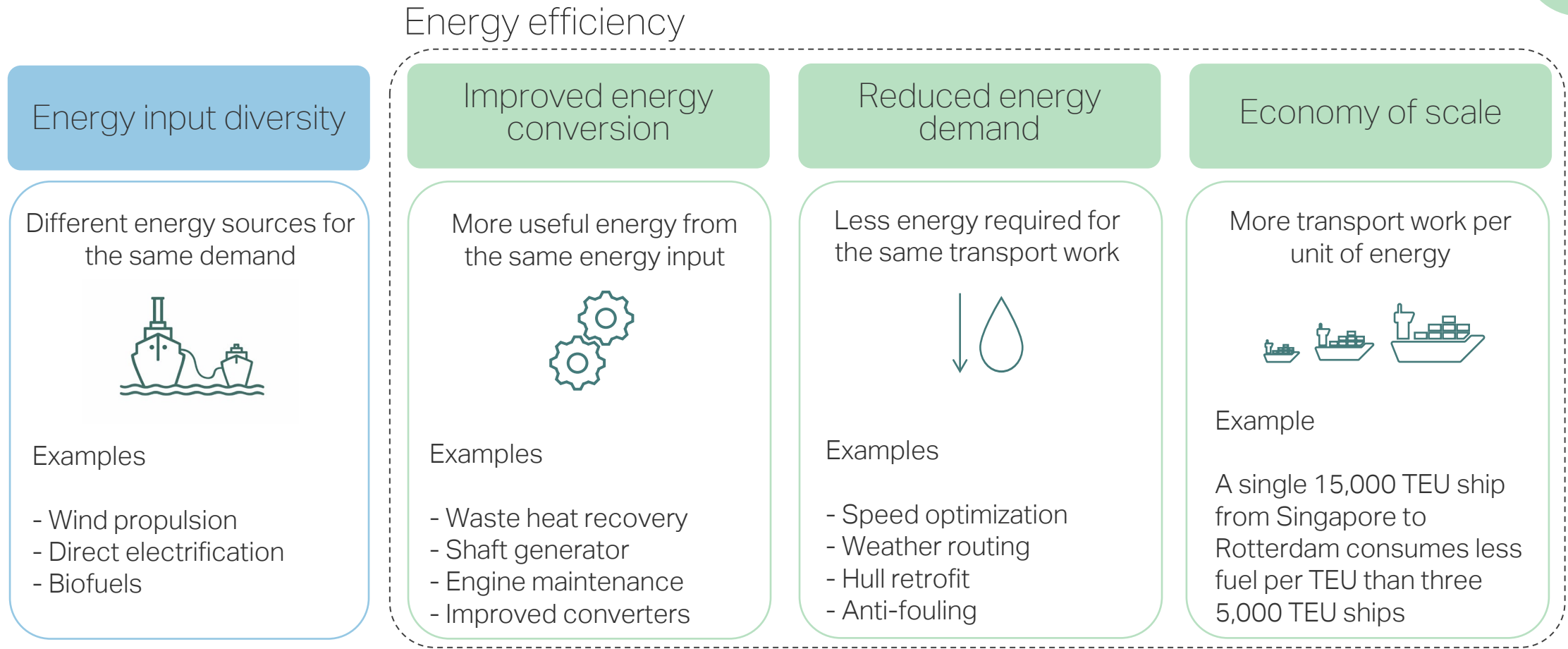


Mærsk Mc-Kinney Møller Center
for Zero Carbon Shipping

4/22/2026

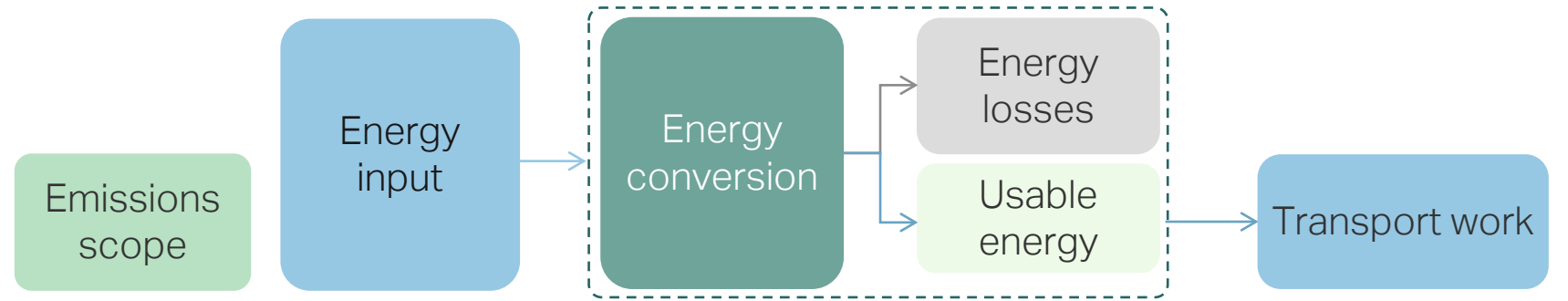
Four different drivers to reduce emissions from shipping

Fig 1



Comparing the GFS and CII: goals, emissions scope, and energy flow

Fig 2



GFS
(IMO NZF)

Primary goal:
Reduce the annual
GHG intensity

WTW $\frac{MJ \text{ of energy}}{gCO_2e}$

Assesses emissions per unit of
energy input, irrespective of
transport output

IMO CII

Primary goal:
Reduce the annual
carbon intensity

*WTW** $\frac{Tonnes \text{ of fuel}}{Tonne CO_2}$

Assesses emissions per unit
of **both energy input and
transport output**

DWT.nm
GT.nm

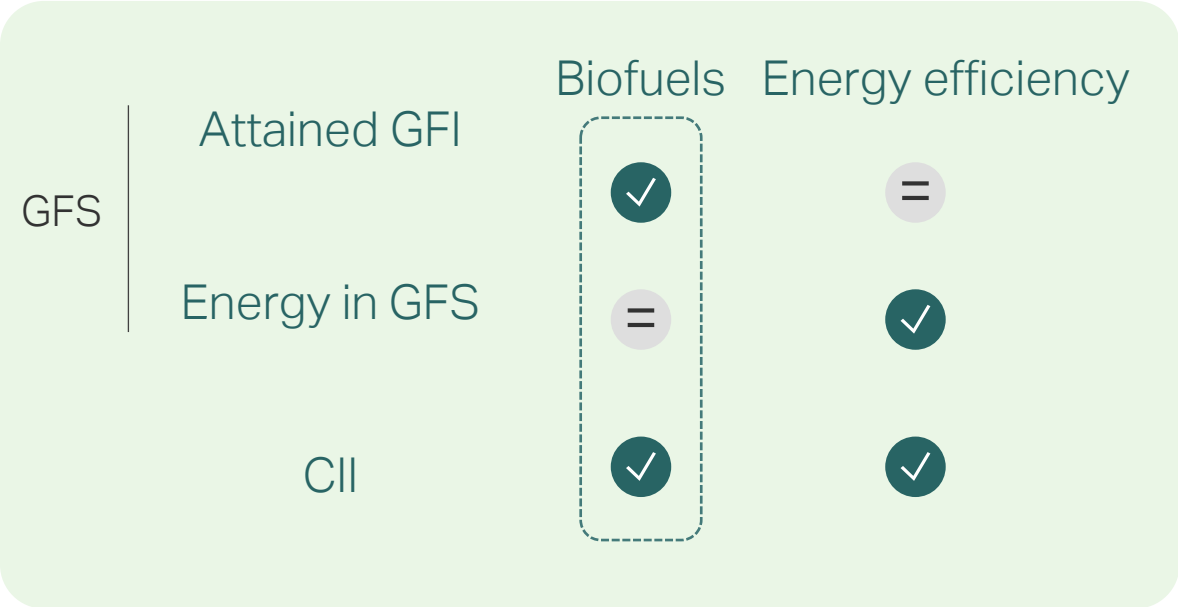


*Only for biofuels. Since introduction of MEPC.1/Circ. 905

A change of metric can shift the CII and GFS from overlap to synergies

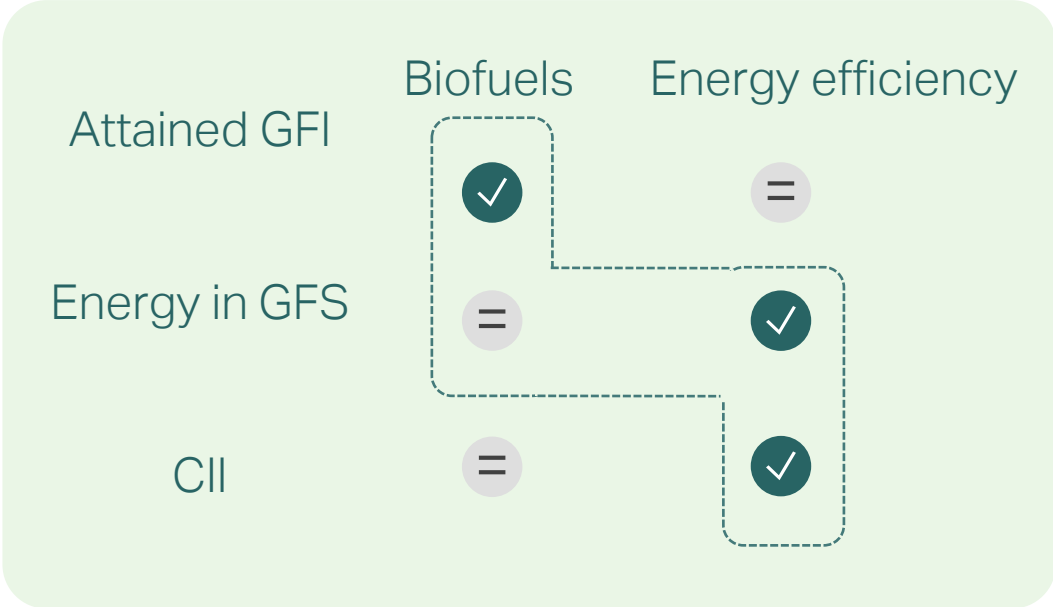
Fig 3

CII as-is *or* Option 3
WTW scope



One action (switch to biofuels) achieves dual compliance

CII with Options 1 or 2
Energy or TTW scope



Actions (fuel switch + energy efficiency) are complementary



✓ Improves compliance
 = Unchanged