



Hong Kong Marine Department

Mr. Derek MAK Senior Surveyor of Ships / Environmental Policy

We are One in Promoting Excellence in Marine Services



Background of the IMO Net-zero Framework

- Previously known as mid-term measures
- To be implemented by a new Chapter 5 of MARPOL Annex VI
- Applicable to all ships of 5,000 GT or above engaged in international voyages
- Approved by MEPC 83 on 11 April 2025, with a view to adoption by MEPC/ES.2.



GHG Fuel Intensity (GFI)



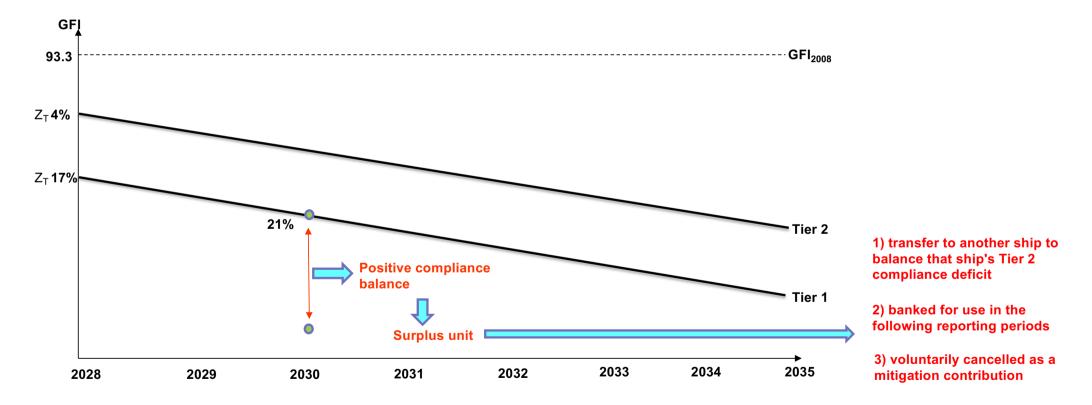
- Attained annual GFI on a well-to-wake basis, gCO₂eq/MJ
- Tiers of target annual GFI (GFI_T)
 Direct compliance target (Tier 1); and
 Base target (Tier 2)
- **Reduction factor** (Z_T)

Annual GFI reduction factors for the target annual GFI relative to the GFI reference value

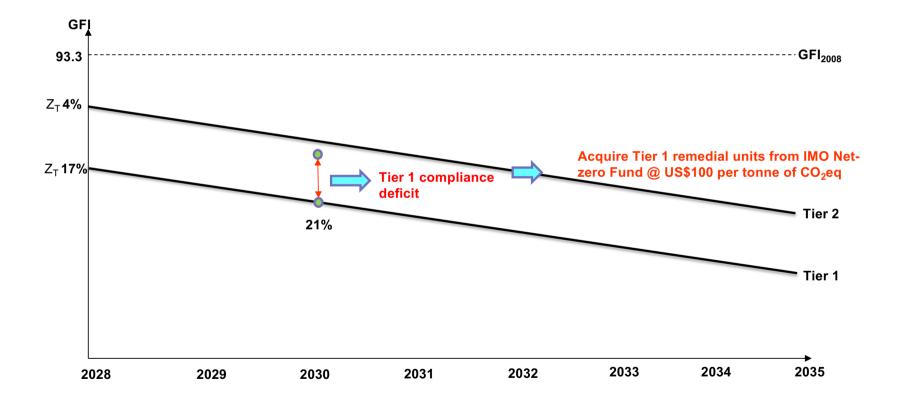
GFI reference value: 93.3 gCO₂eq/MJ (Well-to-Wake) in year 2008

| Year _⊤ | Z _T for Base target | Z _T for Direct compliance target |
|-------------------|--------------------------------|---|
| 2028 | 4.0% | 17.0% |
| 2029 | 6.0% | 19.0% |
| 2030 | 8.0% | 21.0% |
| 2031 | 12.4% | 25.4% |
| 2032 | 16.8% | 29.8% |
| 2033 | 21.2% | 34.2% |
| 2034 | 25.6% | 38.6% |
| 2035 | 30.0% | 43.0% |

Direct compliance / Positive compliance balance

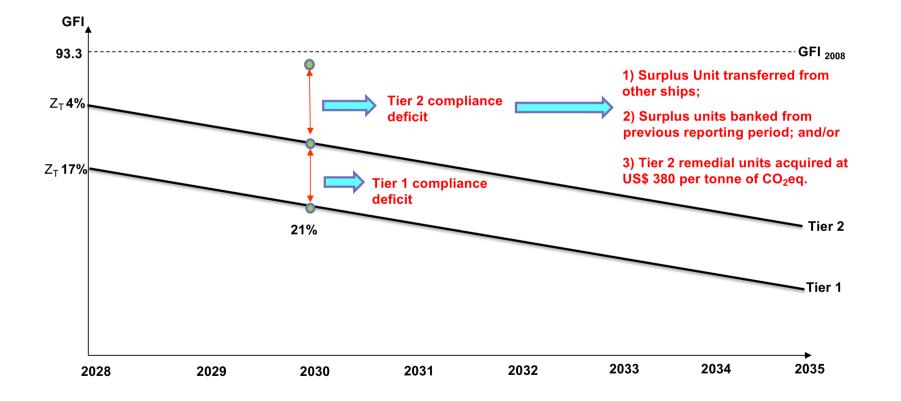


Tier 1 compliance deficit





Tier 2 compliance deficit





IMO Net-Zero Fund and ZNZs



- ZNZs zero or near-zero GHG emission technologies, fuels and/or energy sources
- Annual reward for ZNZs used
- GFI threshold for ZNZs: <19.0 gCO2eq/MJ</p>

Timeline for implementation of IMO Net-

| Target date | Milestone for mid-term measures |
|----------------------------|---|
| 14-17 Oct 2025 (MEPC/ES.2) | Adoption of measures |
| 1 Mar 2027 | Entry into force of measures |
| 1 Oct 2027 | Open an account with IMO GFI Registry |
| 1 Jan 2028 | Commencement of reporting period |
| 30 Jun 2028 | Administration fee paid to the IMO GFI Registry |
| 31 Mar 2029 | Reporting to Administration or RO |
| 30 Sep 2029 | Issue of Statement of Compliance |



"The IMO Net-zero Framework will drive an energy transition towards ZNZs for a green and sustainable international shipping."

-The End-