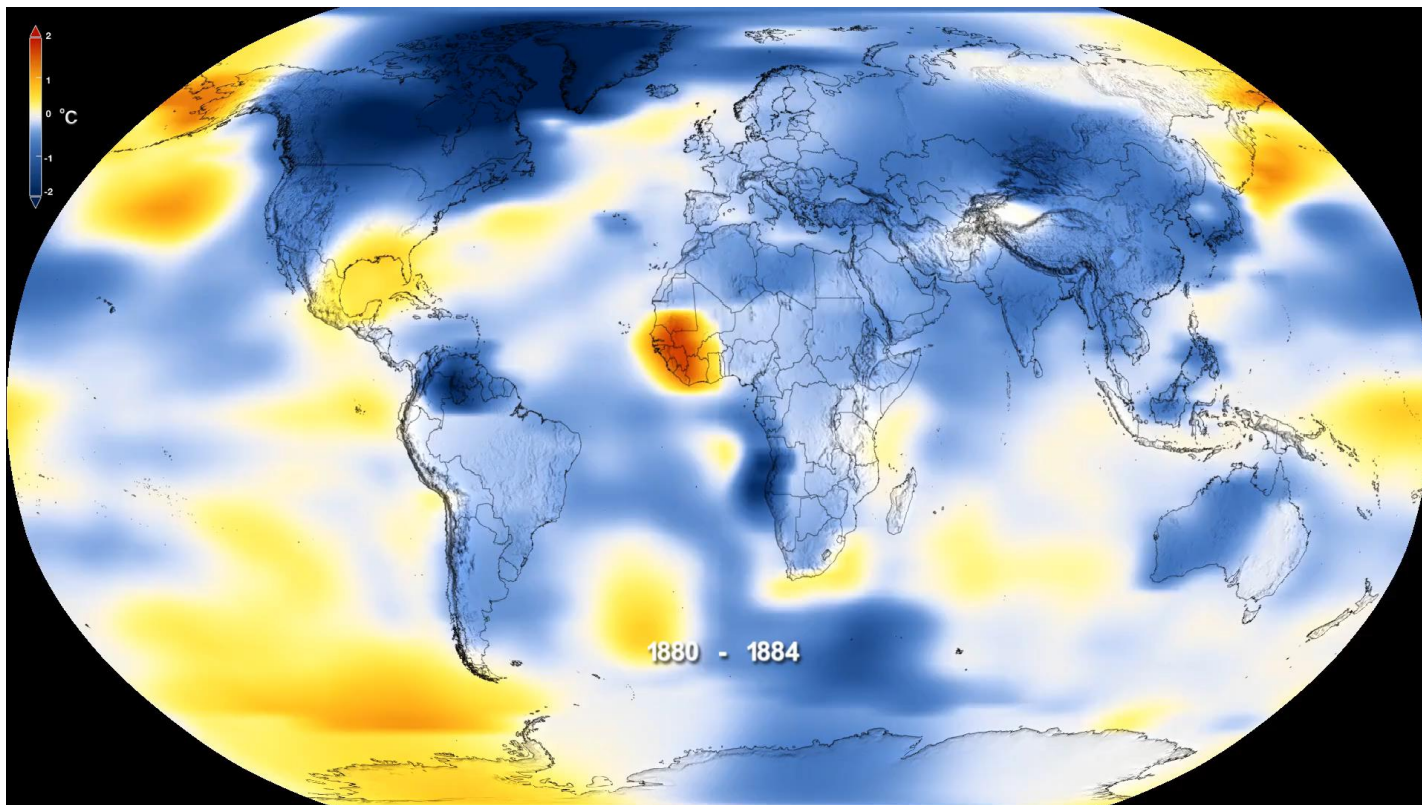


THE PATH TO ZERO CARBON SHIPPING

Quelle: Fotolia/Altin Osmanaj



- The last **nine years** have been the warmest years on record over the past 140 years. **2020 was the warmest year/Summer of 2023 was Earth's hottest**
- Earth's average temperature has risen more than 2 degrees Fahrenheit since the 1880s (**1,1 degrees Celsius**).
- The science is unequivocal: Humans have been driving global warming through the extensive **burning of fossil fuels**.



▶ **Max. + 2°C**

▶ (possibly + 1,5°C)



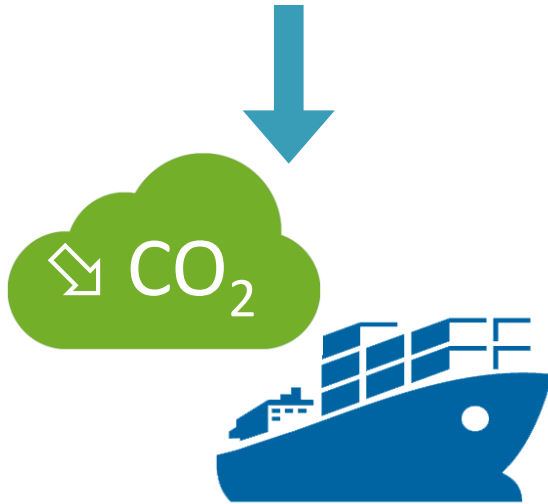
ships & planes
not included



| ICAO



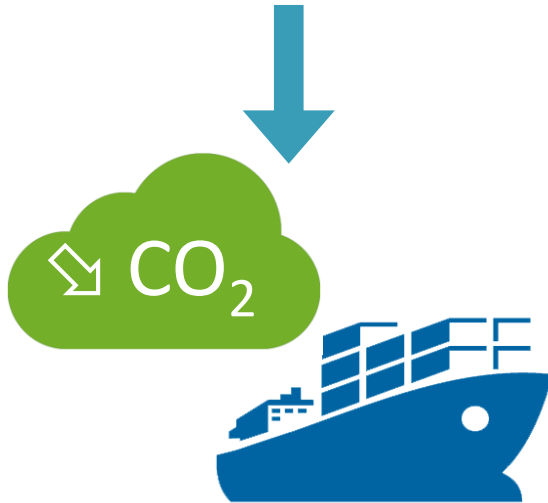
CO₂ Strategy



1. reach net-zero close to 2050
2. 40% relative reduction by 2030
3. base year 2008
4. uptake near-zero GHG emission energy sources by at least 5-10% of the energy used by 2030

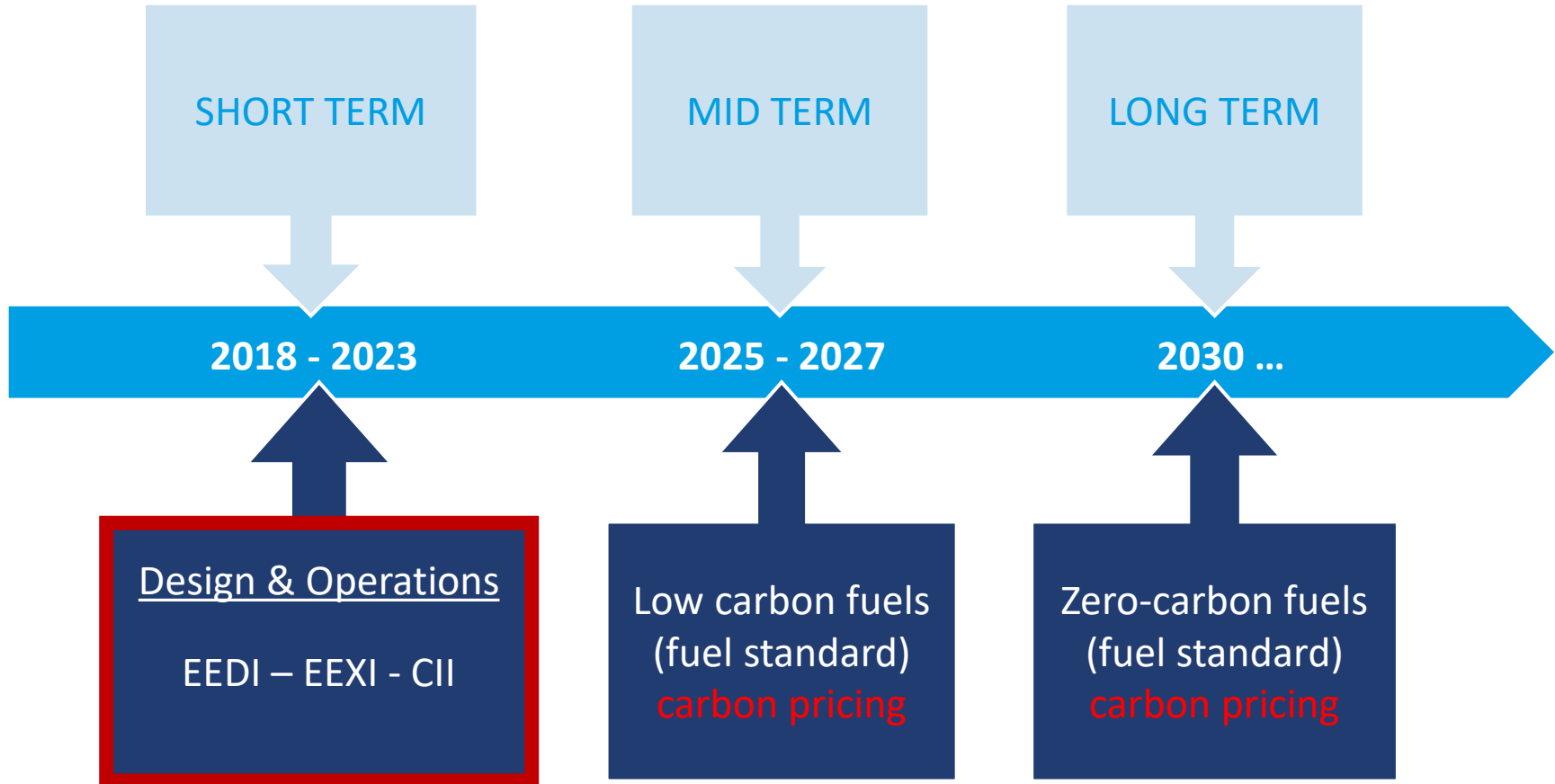


CO₂ Strategy



INDICATIVE CHECKPOINTS
total annual GHG emission reduction

1. 20% striving for 30% by 2030
2. 70% striving for 80% by 2040
3. base year 2008



Short Term Measures – Potential?

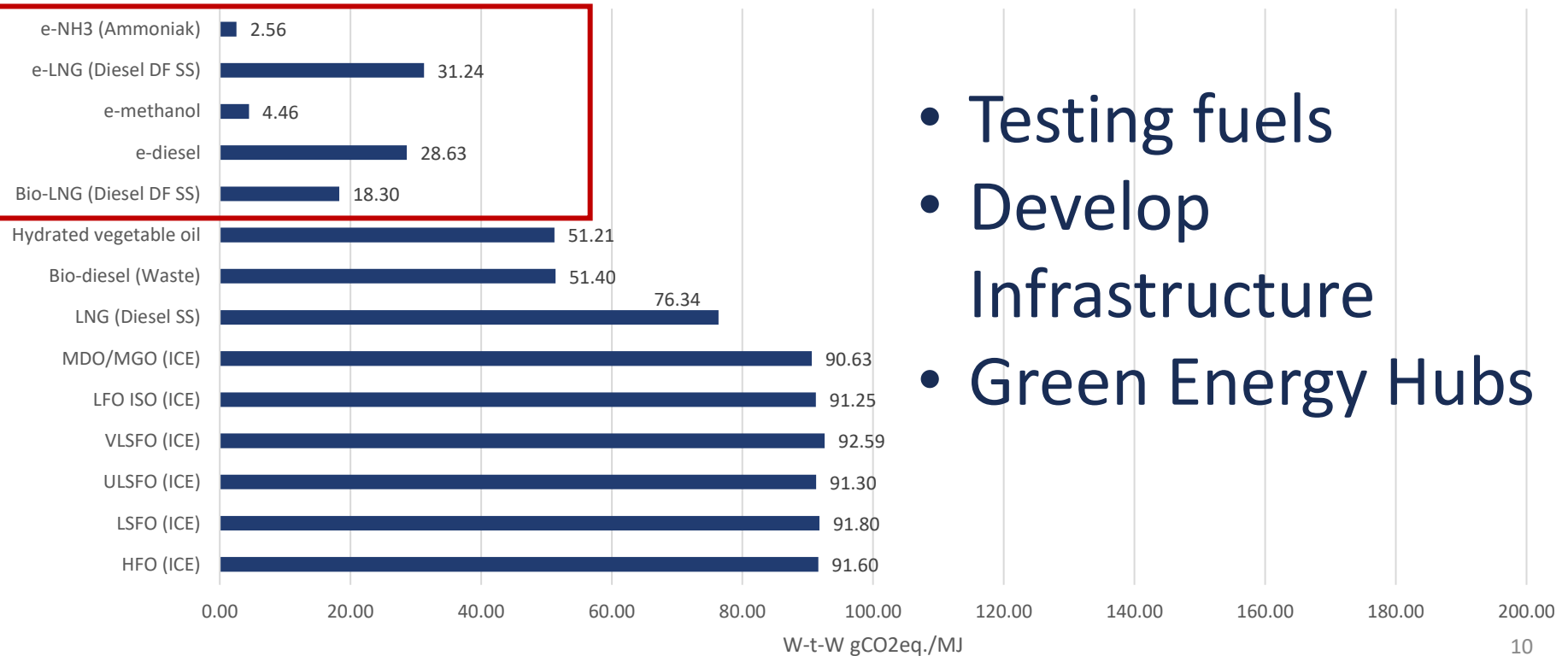
Fuel reduction = GHG reduction



What's next? Future Fuels in Shipping



Well-to-Wake CO₂eq Intensity



- Testing fuels
- Develop Infrastructure
- Green Energy Hubs



**WHAT
COMES
NEXT**

*Climate Change,
the Future and You.*



**CARBON
TAX**

Carbon pricing schemes



SOURCE: IMF



Economic Element: GHG Pricing Mechanism
Technical Element: Global Fuel Standard

THE PATH TO ZERO CARBON SHIPPING

