

Star Cool 1.1

Leading cold chain logistics towards net zero



DECARBONIZING THE COLD CHAIN

Navigating a complex landscape of challenges: Key factors for determining the right technology fit



Compliance without clarity?



REGULATIONS



Safety

Simplicity
Availability



Qualified workforce



SERVICE



92%

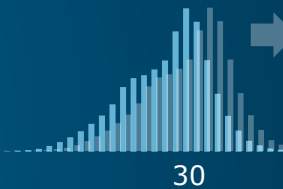
Refrigerant GWP is important,
but carbon emissions from
power generation are key



EFFICIENCY



Cooling operation
above 25°C



Climate Change
will increase hot
ambient
operation



CLIMATE



Equipment lifetime



Carbon taxation
of fuels and fluids



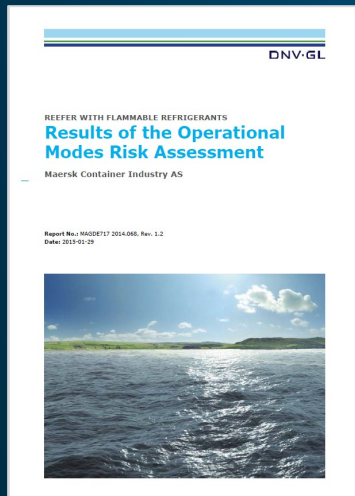
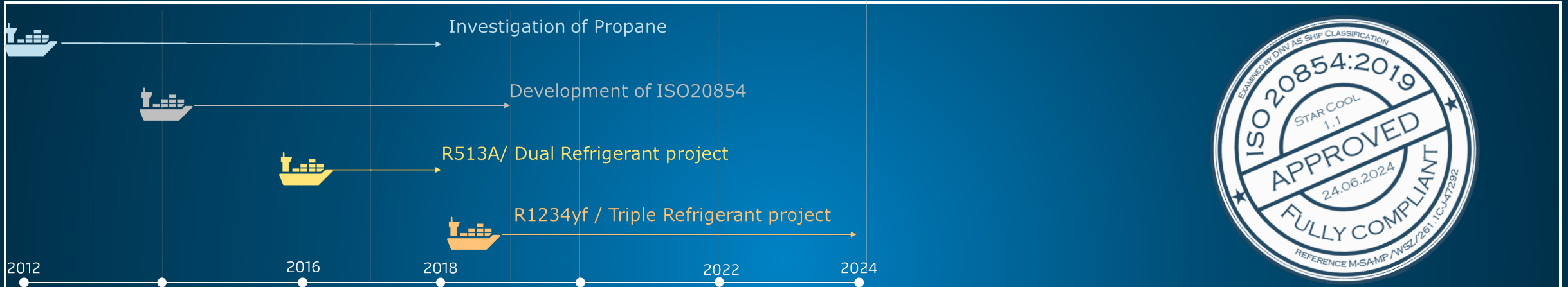
Residual value



FINANCIALS

MCI's journey with sustainable refrigeration

Promoting safe use of flammable fluids



Quantifying risk and ensuring safe operation

Introducing Star Cool 1.1

- **Industry first Triple Refrigerant solution** – flexible transition to ultra-low GWP solution:
- **Verified by DNV and full compliant to ISO 20854** (International reefer safety standard) ensures safety is uncompromised
- Next generation compressor: Improved robustness & delivering **8% energy saving**



MAERSK
CONTAINER INDUSTRY

The flexible refrigerant solution



TRIPLE REFRIGERANT

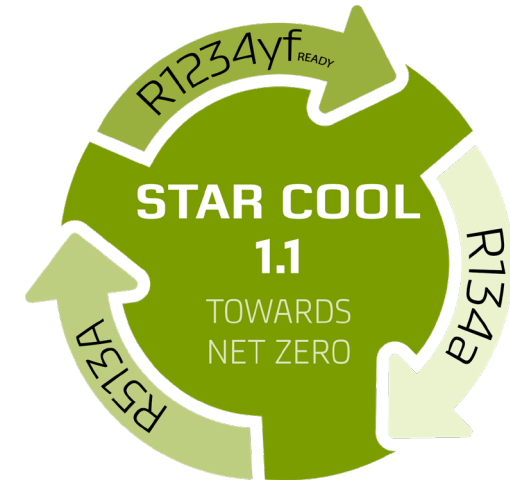
Full refrigerant flexibility, no change of hardware or software

Option I



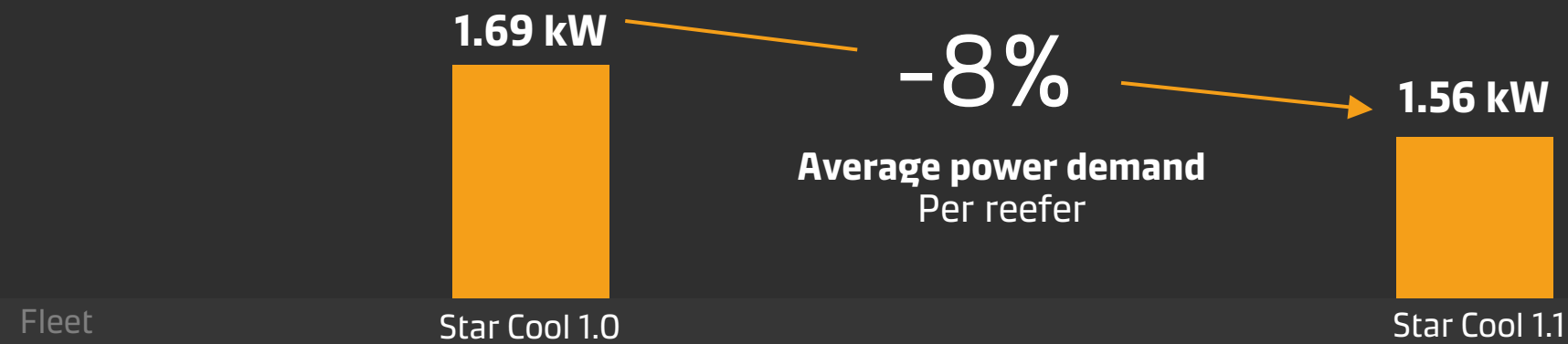
TRIPLE REFRIGERANT READY

Cost effective to enable future use of R1234yf



Change between refrigerant options as needed – back and forth

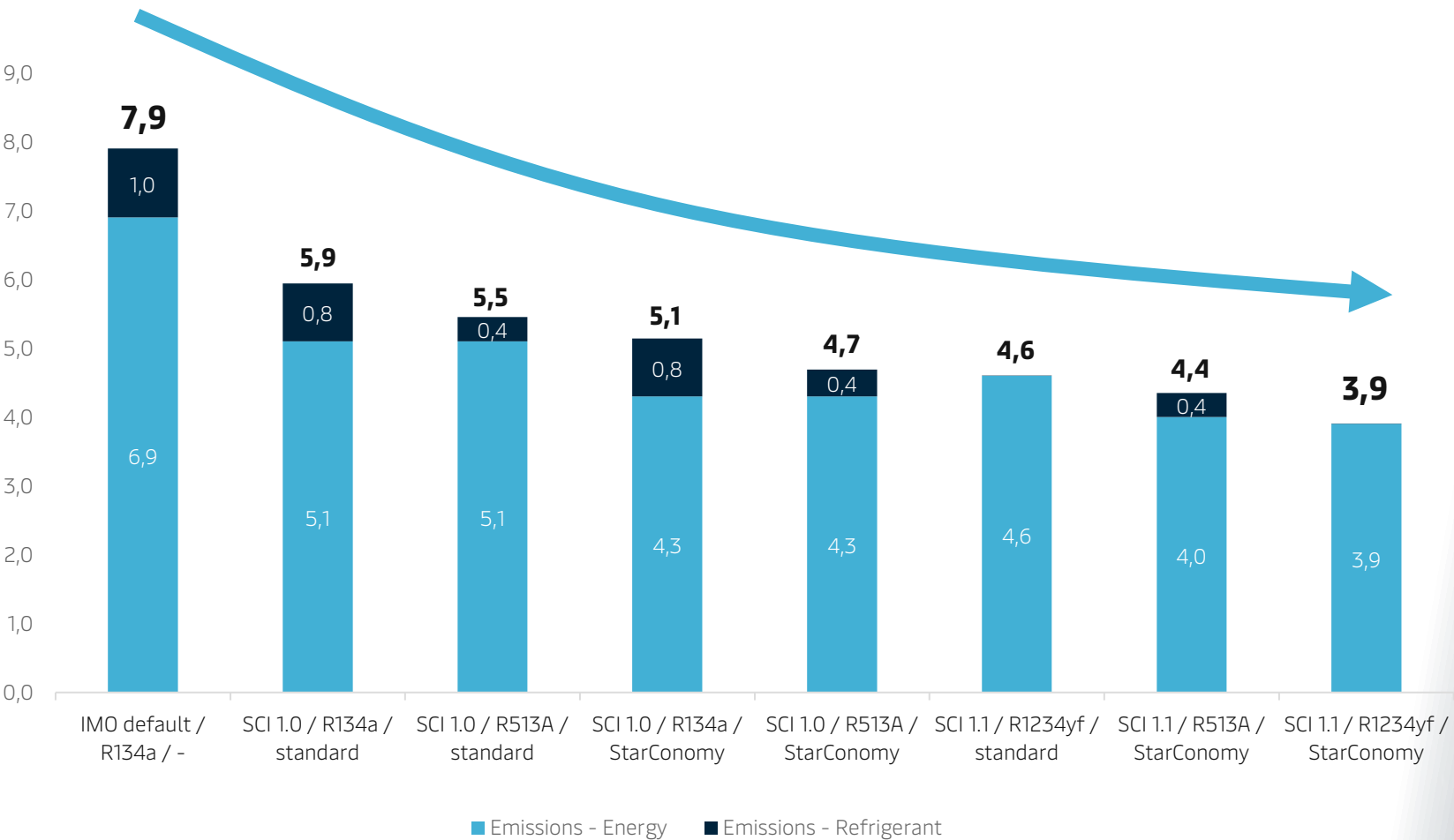
Operating performance





Equivalent annual emissions

In tonnes CO₂ per year



-50%

Triple
refrigerant

Energy
efficiency

Reliability

