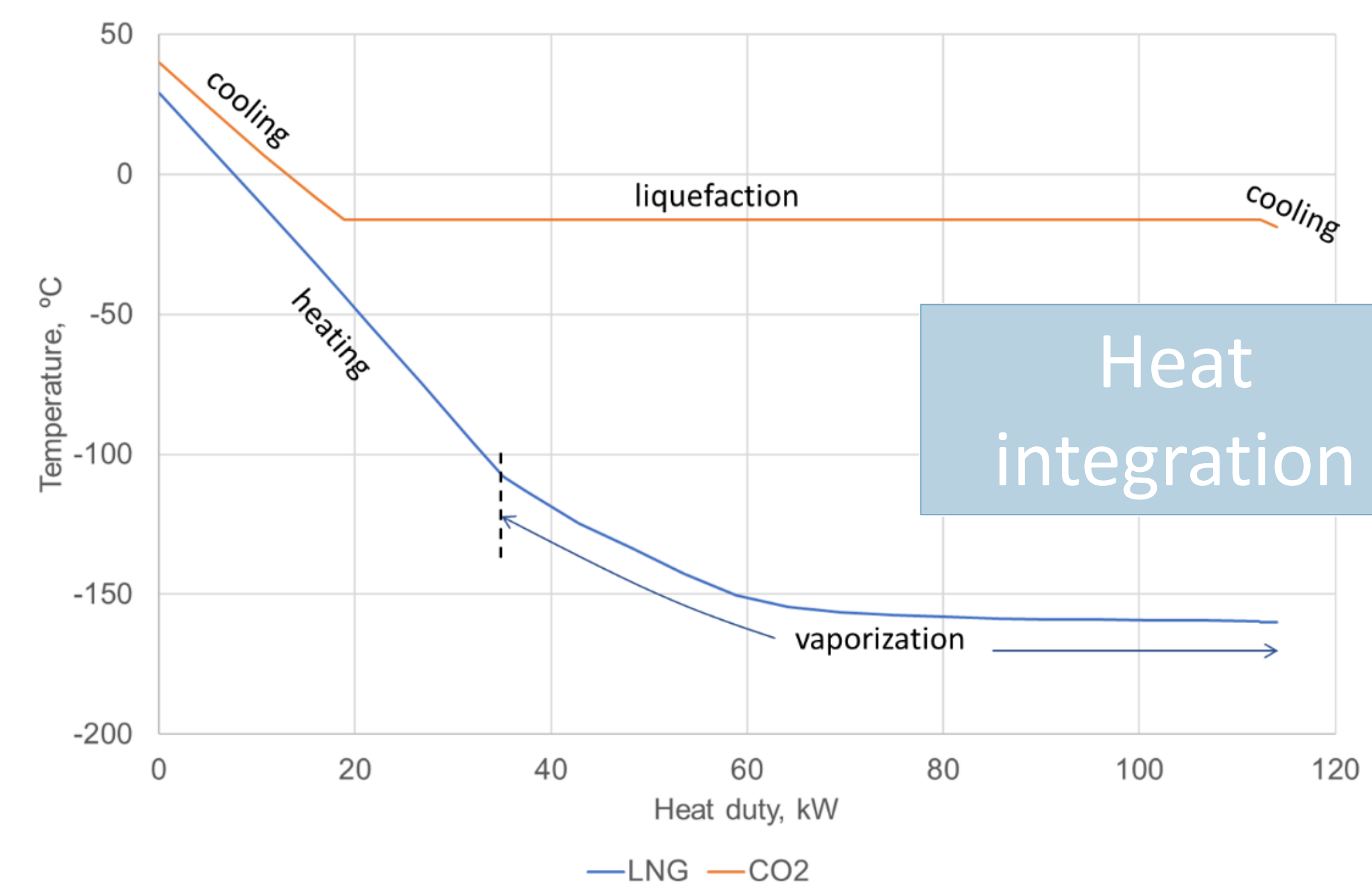
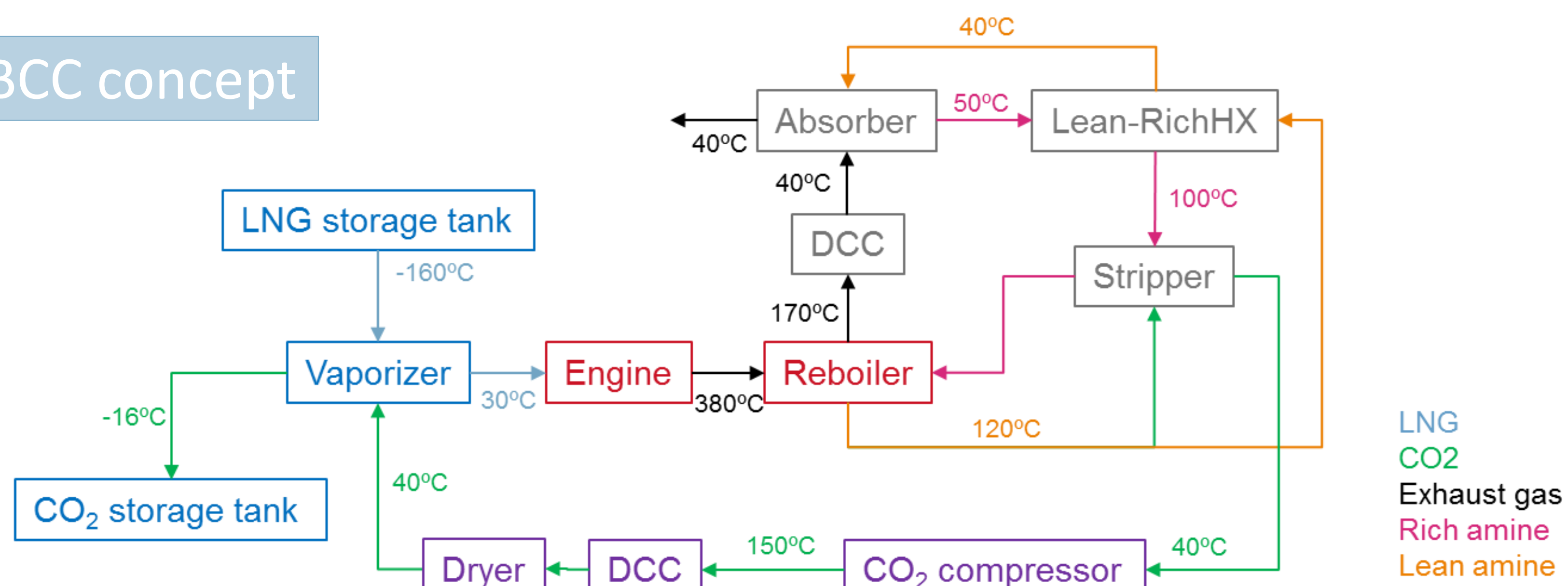


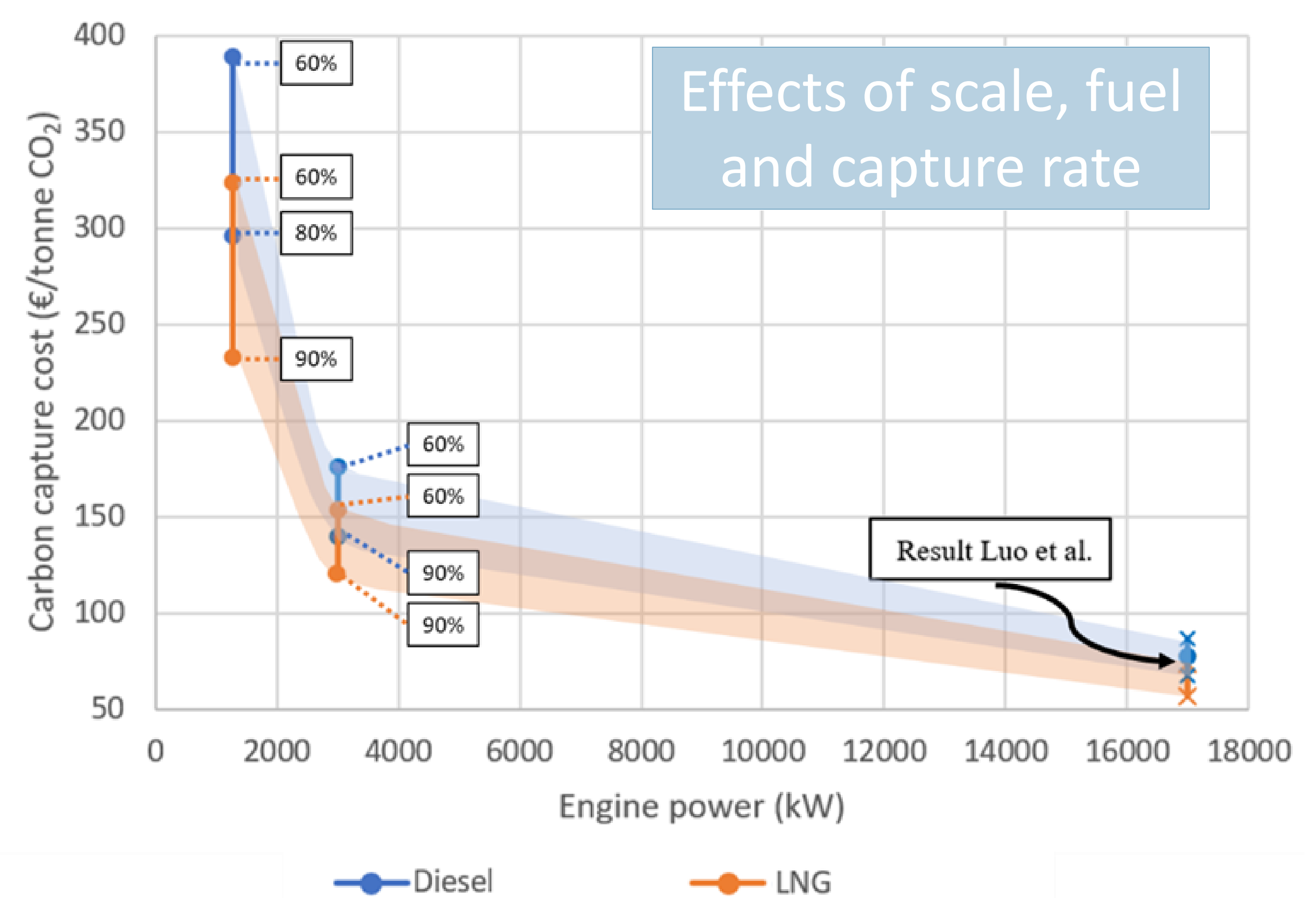
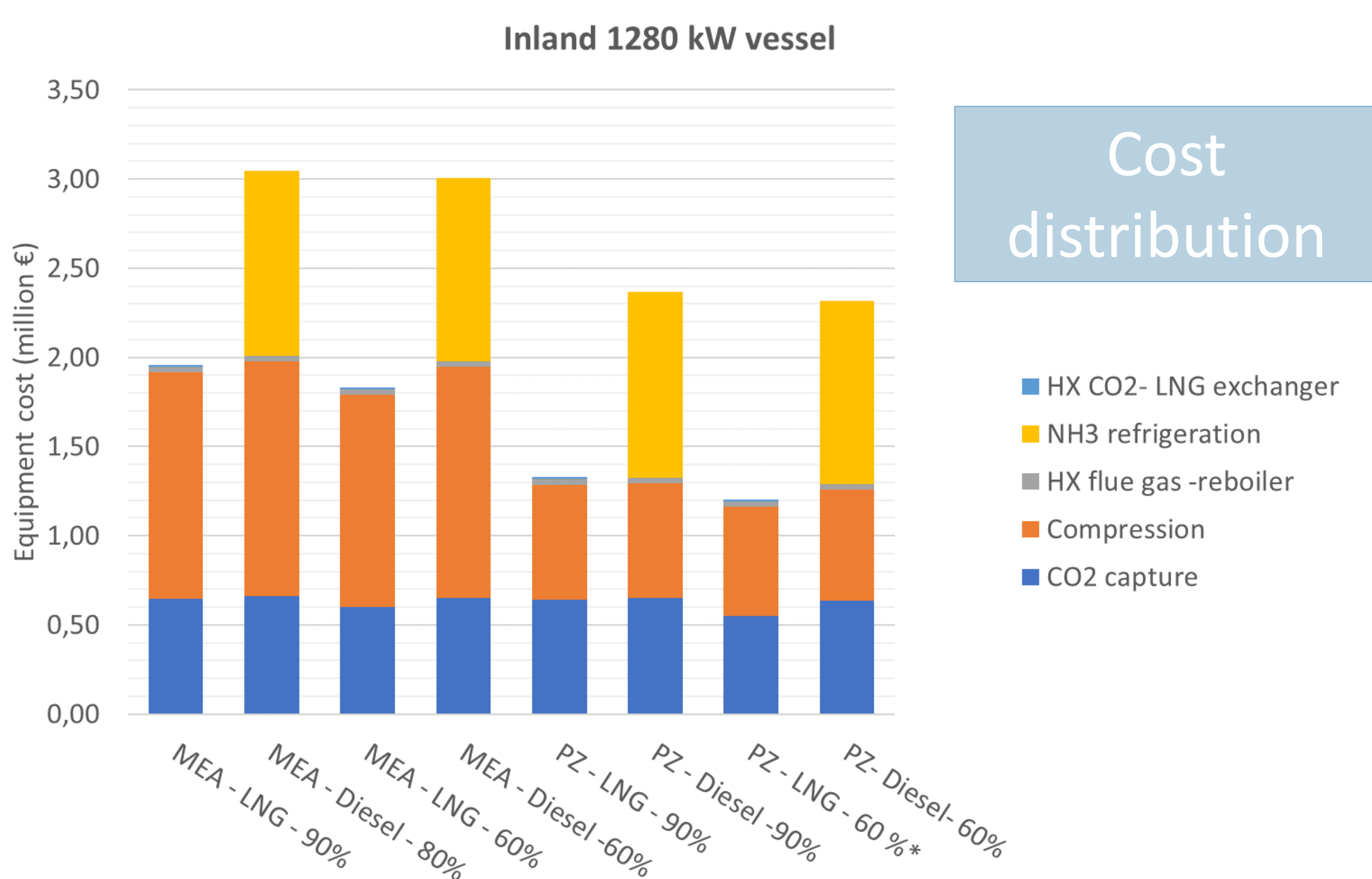
Ship-based carbon capture (SBCC) onboard of diesel or LNG-fuelled ships

SBCC concept



- Total shipping carbon emissions: 938 million tonnes CO₂-eq in 2012
- Zero emission shipping options: electricity or alternative fuels, as blue H₂ or NH₃

- Alternative: ship-based carbon capture (SBCC)
- Studied two reference ship engines: 1280 kW and 3000 kW, LNG or diesel-fuelled



- More than 90% of capture cost is CAPEX
- Compression is 30 to 65% of the equipment cost

X. Luo and M. Wang, "Study of solvent-based carbon capture for cargo ships through process modelling and simulation," Appl. Energy, vol. 195, pp. 402-413, 2017.

