

OSK-Group

Company Presentation



Anders Ørgård Vinding

OSK Group / Recent Projects











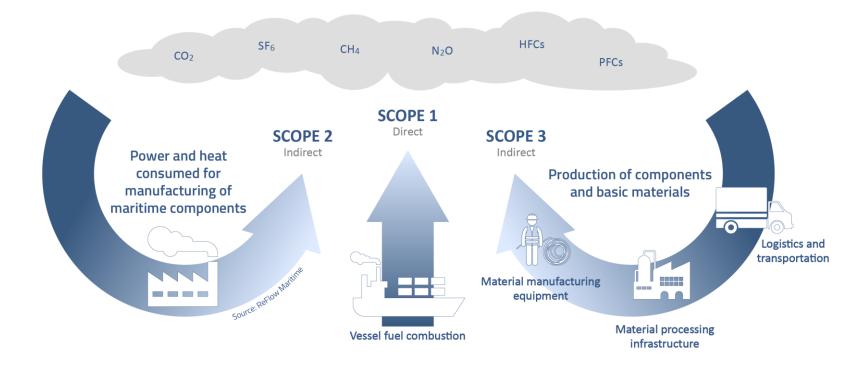


Life Cycle Screening of an Electric Ferry

Developing a strategic design philosophy



Life cycle emissions

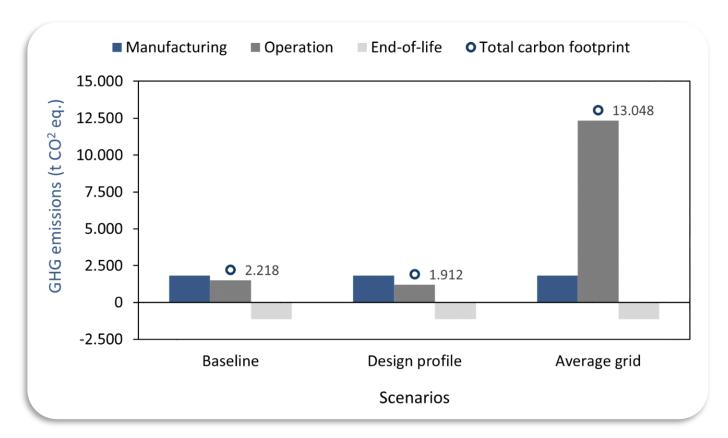




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Parameter	Value	Unit	Scope
Total Carbon Footprint	2218.21	t CO₂ eq.	
Total production emissions	1833.64	t CO₂ eq.	3
Hull structure (stee	el) 723.24	t CO₂ eq.	
Hull structure (aluminium	n) 242.26	t CO₂ eq.	
Propulsion system	m 184.18	t CO₂ eq.	
Auxiliary syster	m 212.11	t CO ₂ eq.	
Electric system	m 248.50	t CO₂ eq.	
Nav. & Com syster	m 12.33	t CO₂ eq.	
Accommodatio	on 145.67	t CO₂ eq.	
Batteries	s* 132.66	t CO₂ eq.	
Coatin	ng 31.89	t CO₂ eq.	
Vessel's assemb	ly 33.46	t CO₂ eq.	
Total operation emissions	1509.11	t CO₂ eq.	-
Electricity consumptio	on 808.11	t CO₂ eq.	2
HVO consumptio	on 132.03	t CO₂ eq.	3
HVO combustio	on 0.00	t CO₂ eq.	1
Lubrication o	oil 0.57	t CO₂ eq.	3
Batteries replacemer	nt 530.62	$t CO_2 eq.$	3
Used batteries dispose	al 36.78	$t CO_2 eq.$	3
Bilge oil disposi	al 1.00	t CO₂ eq.	3
Vessel's end-of-life	-1124.54	t CO₂ eq.	3
Dismantlin	ng 4.59	t CO₂ eq.	
Recyclin	ng -1196.84	t CO ₂ eq.	
Dispose	al 49.32	$t CO_2 eq.$	
Used batteries disposa	al 18.39	t CO₂ eq.	

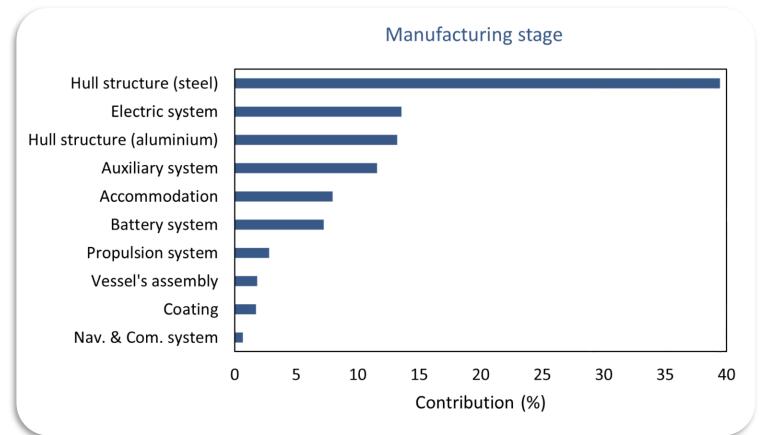
LCA results / 3 scenarios





OSK-ShipTech A/S OSK-Offshore A/S Steen Friis Design A/S OSK China (HK) Limited

LCA results / Contributors





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LCA results / key takeaways

Zero emission ferry doesn't exist We need to start focussing on scope 2 and 3 Build strategy to include LCA knowledge Rebuild vs Newbuild 4 projects which includes LCA Benchmark against infrastructure Greenwashing can be avoided



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Thank You!