

OSK-Group

Company Presentation



Anders Ørgård Vinding

OSK Group / Recent Projects













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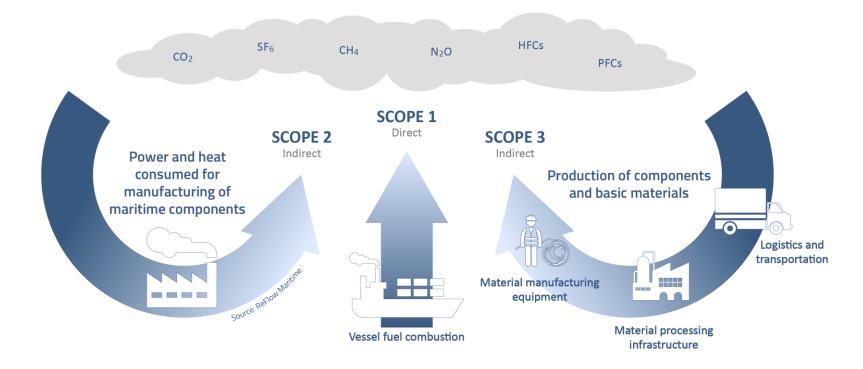
Life Cycle Screening of an Electric Ferry

Developing a strategic design philosophy



Anders Ørgård Vinding

Life cycle emissions

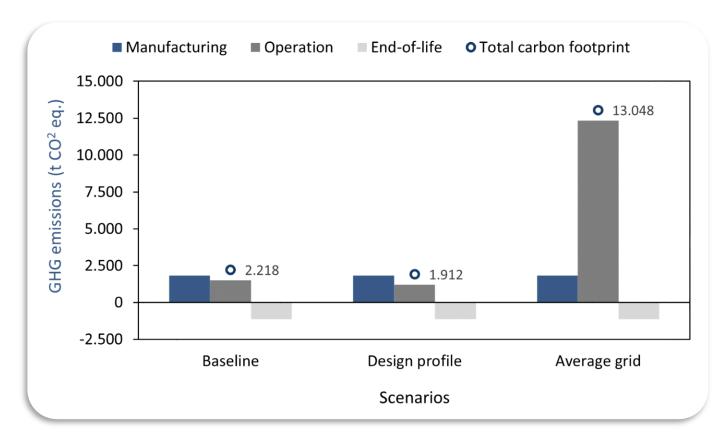




OSK-ShipTech A/S OSK-Offshore A/S Steen Friis Design A/S OSK China (HK) Limited

Parameter	Value	Unit	Scope
Total Carbon Footprint	2218.21	t CO₂ eq.	
Total production emissions	1833.64	t CO₂ eq.	3
Hull structure (steel)	723.24	t CO₂ eq.	
Hull structure (aluminium)	242.26	t CO₂ eq.	
Propulsion system	184.18	t CO₂ eq.	
Auxiliary system	212.11	t CO ₂ eq.	
Electric system	248.50	t CO₂ eq.	
Nav. & Com system	12.33	t CO₂ eq.	
Accommodation	145.67	t CO₂ eq.	
Batteries*	132.66	t CO₂ eq.	
Coating	31.89	$t CO_2 eq.$	
Vessel's assembly	33.46	t CO₂ eq.	
Total operation emissions	1509.11	t CO₂ eq.	-
Electricity consumption	808.11	t CO₂ eq.	2
HVO consumption	132.03	t CO₂ eq.	3
HVO combustion	0.00	$t CO_2 eq.$	1
Lubrication oil	0.57	t CO₂ eq.	3
Batteries replacement	530.62	t CO₂ eq.	3
Used batteries disposal	36.78	t CO₂ eq.	3
Bilge oil disposal	1.00	t CO₂ eq.	3
Vessel's end-of-life	-1124.54	t CO ₂ eq.	3
Dismantling	4.59	t CO₂ eq.	
Recycling	-1196.84	$t CO_2 eq.$	
Disposal	49.32	$t CO_2 eq.$	
Used batteries disposal	18.39	t CO₂ eq.	

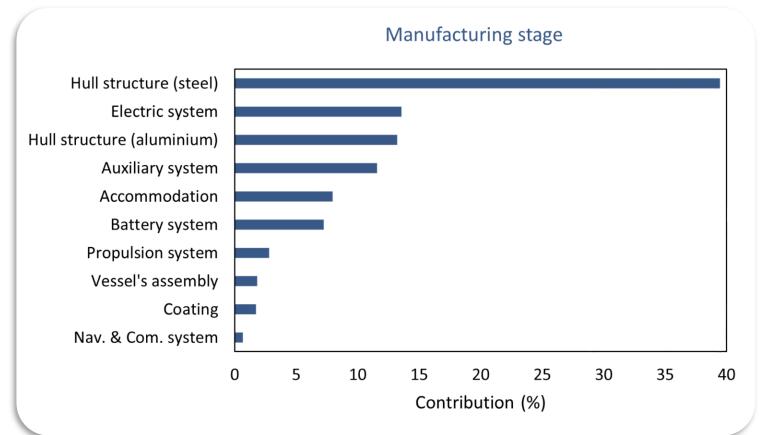
LCA results / 3 scenarios





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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



20.05.2022



Thank You!