

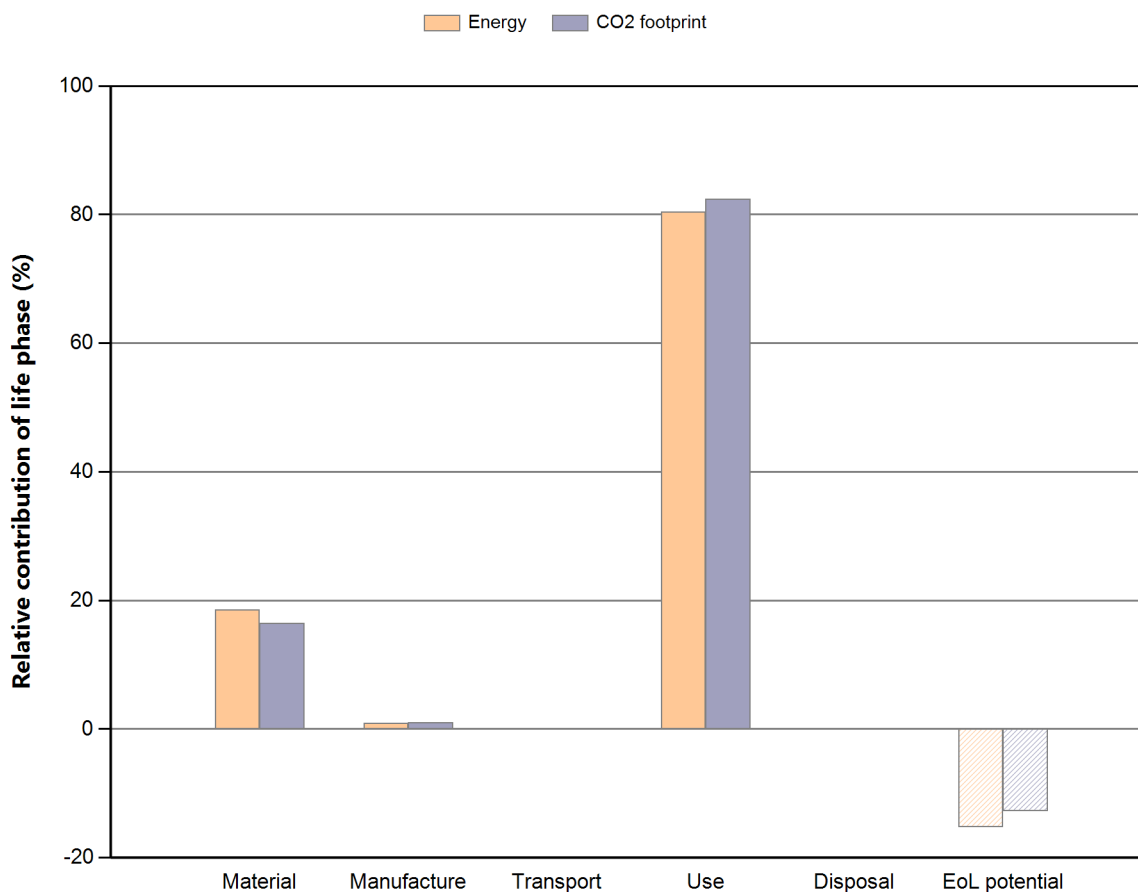
Eco Audit Report

Product name Coast Guard Vessel

Country of use Sweden

Product life (years) 20

Summary:



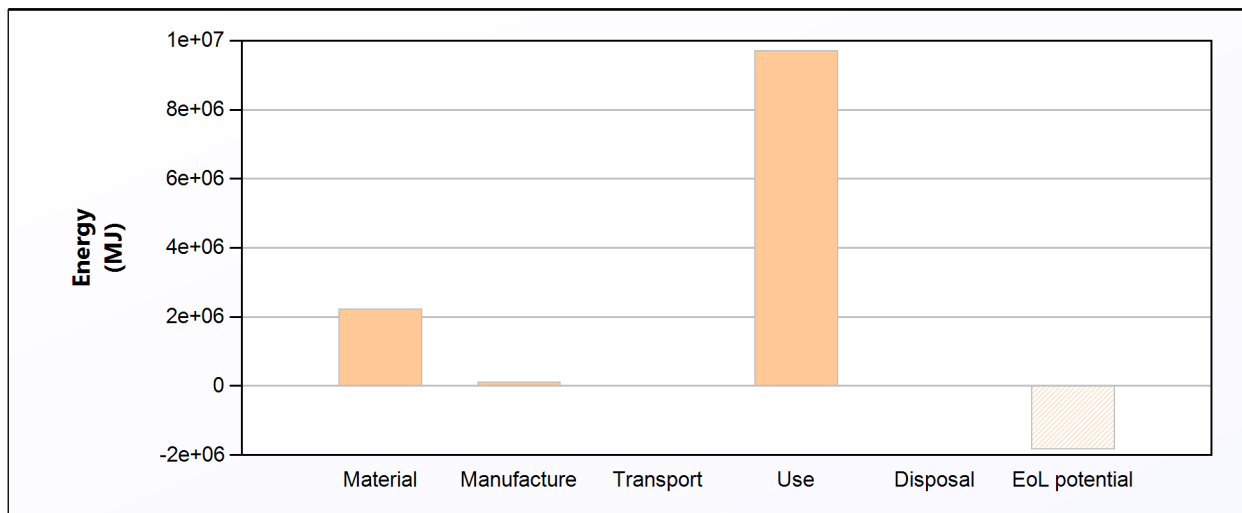
[Energy details](#)

[CO2 footprint details](#)

Phase	Energy (MJ)	Energy (%)	CO2 footprint (kg)	CO2 footprint (%)
Material	2,24e+06	18,5	1,38e+05	16,5
Manufacture	1,14e+05	0,9	8,51e+03	1,0
Transport	2,36e+03	0,0	167	0,0
Use	9,71e+06	80,4	6,9e+05	82,4
Disposal	8,02e+03	0,1	561	0,1
Total (for first life)	1,21e+07	100	8,37e+05	100
End of life potential	-1,83e+06		-1,06e+05	

Energy Analysis

[Summary](#)



	Energy (MJ/year)
Equivalent annual environmental burden (averaged over 20 year product life):	6,04e+05

Detailed breakdown of individual life phases

Material:

[Summary](#)

Component	Material	Recycled content* (%)	Part mass (kg)	Qty.	Total mass (kg)	Energy (MJ)	%
Hull	Age-hardening wrought Al-alloys	Virgin (0%)	1,1e+04	1	1,1e+04	2,2e+06	98,6
Glass wool	Soda-lime glass	Virgin (0%)	3e+03	1	3e+03	3,2e+04	1,4
Total				2	1,4e+04	2,2e+06	100

*Typical: Includes 'recycle fraction in current supply'

Manufacture:

[Summary](#)

Component	Process	Amount processed	Energy (MJ)	%
Hull	Extrusion, foil rolling	1,1e+04 kg	1,1e+05	100,0
Total			1,1e+05	100

Transport:

[Summary](#)

Breakdown by transport stage

Stage name	Transport type	Distance (km)	Energy (MJ)	%
AI transport	32 tonne truck	3,8e+02	2,4e+03	100,0
Total		3,8e+02	2,4e+03	100

Breakdown by components

Component	Mass (kg)	Energy (MJ)	%
Hull	1,1e+04	1,8e+03	77,9
Glass wool	3e+03	5,2e+02	22,1
Total	1,4e+04	2,4e+03	100

Use:

[Summary](#)

Mobile mode

Fuel and mobility type	Diesel - coastal shipping
Country of use	Sweden
Product mass (kg)	1,4e+04
Distance (km per day)	1,1e+03
Usage (days per year)	1,3e+02
Product life (years)	20

Relative contribution of static and mobile modes

Mode	Energy (MJ)	%
Static	0	
Mobile	9,7e+06	100,0
Total	9,7e+06	100

Breakdown of mobile mode by components

Component	Energy (MJ)	%
Hull	7,6e+06	77,9
Glass wool	2,1e+06	22,1
Total	9,7e+06	100

Disposal:[Summary](#)

Component	End of life option	Energy (MJ)	%
Hull	Recycle	7,4e+03	92,5
Glass wool	Landfill	6e+02	7,5
Total		8e+03	100

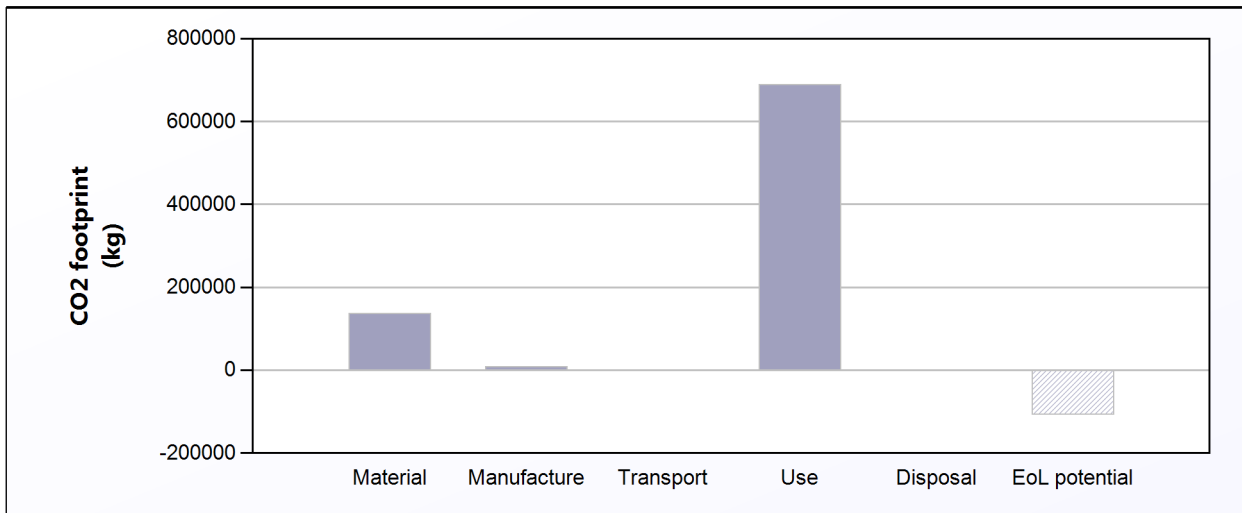
EoL potential:

Component	End of life option	Energy (MJ)	%
Hull	Recycle	-1,8e+06	100,0
Glass wool	Landfill	0	0,0
Total		-1,8e+06	100

Notes:[Summary](#)

CO2 Footprint Analysis

[Summary](#)



	CO2 (kg/year)
Equivalent annual environmental burden (averaged over 20 year product life):	4,18e+04

Detailed breakdown of individual life phases

Material:

[Summary](#)

Component	Material	Recycled content* (%)	Part mass (kg)	Qty.	Total mass (kg)	CO2 footprint (kg)	%
Hull	Age-hardening wrought Al-alloys	Virgin (0%)	1,1e+04	1	1,1e+04	1,4e+05	98,4
Glass wool	Soda-lime glass	Virgin (0%)	3e+03	1	3e+03	2,3e+03	1,6
Total				2	1,4e+04	1,4e+05	100

*Typical: Includes 'recycle fraction in current supply'

Manufacture:

[Summary](#)

Component	Process	Amount processed	CO2 footprint (kg)	%
Hull	Extrusion, foil rolling	1,1e+04 kg	8,5e+03	100,0
Total			8,5e+03	100

Transport:

[Summary](#)

Breakdown by transport stage

Stage name	Transport type	Distance (km)	CO2 footprint (kg)	%
AI transport	32 tonne truck	3,8e+02	1,7e+02	100,0
Total		3,8e+02	1,7e+02	100

Breakdown by components

Component	Mass (kg)	CO2 footprint (kg)	%
Hull	1,1e+04	1,3e+02	77,9
Glass wool	3e+03	37	22,1
Total	1,4e+04	1,7e+02	100

Use:

[Summary](#)

Mobile mode

Fuel and mobility type	Diesel - coastal shipping
Country of use	Sweden
Product mass (kg)	1,4e+04
Distance (km per day)	1,1e+03
Usage (days per year)	1,3e+02
Product life (years)	20

Relative contribution of static and mobile modes

Mode	CO2 footprint (kg)	%
Static	0	
Mobile	6,9e+05	100,0
Total	6,9e+05	100

Breakdown of mobile mode by components

Component	CO2 footprint (kg)	%
Hull	5,4e+05	77,9
Glass wool	1,5e+05	22,1
Total	6,9e+05	100

Disposal:[Summary](#)

Component	End of life option	CO2 footprint (kg)	%
Hull	Recycle	5,2e+02	92,5
Glass wool	Landfill	42	7,5
Total		5,6e+02	100

EoL potential:

Component	End of life option	CO2 footprint (kg)	%
Hull	Recycle	-1,1e+05	100,0
Glass wool	Landfill	0	0,0
Total		-1,1e+05	100

Notes:[Summary](#)