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Fact sheet – Emissions

Greenhouse gas emissions from Fjord FSTR compared to its predecessor Fjord CAT

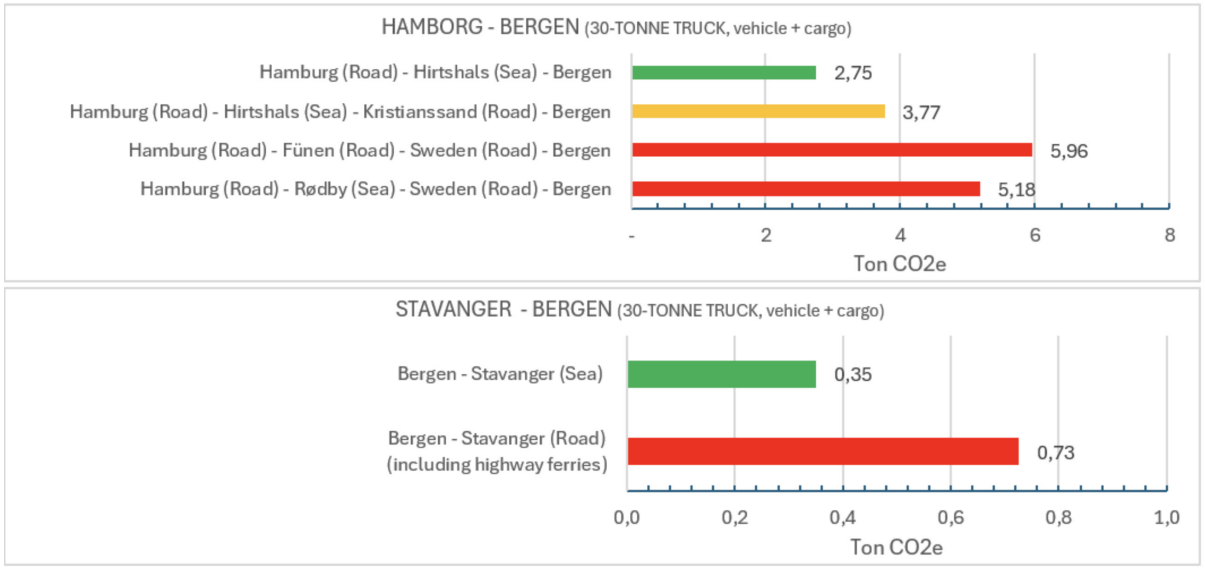
Greenhouse gas emissions from freight greatly varies, depending on the mode of transportation, speed, weight and volume, vehicle utilization, fuel efficiency and distance.

We have calculated two representative route options comparing Fjord Line's LNG fuelled ferry services with standard road freight for a 30-tonne truck (vehicle + cargo weight)

- Stavanger (Norway) – Bergen (Norway)
- Hamburg (Germany) – Bergen (Norway), 4 alternative routes, combined road/sea

For the route Stavanger – Bergen, our specific example shows that choosing the sea route compared to road transport emits 52% less CHG emissions.

For the longer Hamburg – Bergen route, the direct route with truck from Hamburg to Hirtshals and ferry from Hirtshals to Bergen, emits between 27% and 54% less GHG emissions than the alternative road-based alternatives.



On our route Stavanger Bergen route, for 2025 we have estimated a total saving of greenhouse gas emissions by moving goods on our LNG powered vessels compared to road transport of 2.463 tons.

Background data

	Total Emission (ton CO2e)	**Distance (km)**			
Route		Road (Google Maps)	Sea (Fjord Line, GPS)	Sea (Scandline, Google Maps)	Sea (Norwegian highway ferries, Google Maps)
HAMBURG – BERGEN					
Hamburg (road) - Rødby (sea) - Sweden (road) - Bergen	5,18	1367	–	22	–
Hamburg (road) - Fünen (road) - Sweden (road) - Bergen	5,96	1587	–	–	–
Hamburg (road) - Hirtshals (sea) -Kristiansand (road) - Bergen	3,77	950	133,344	–	–
Hamburg (road) - Hirtshals (sea) - Bergen	2,75	517	542,636	–	–
BERGEN – STAVANGER					
Bergen - Stavanger (road - including highway ferries)	0,73	177,5	–	–	30,5
Bergen - Stavanger (sea)	0,35	13,5	200,016	–	–

Emissions intensities	**g CO2e / ton-nm**	**g CO2e / ton-nm**	**References**
Truck (diesel)	n/a	125,2	Klimakompasset.dk (Transport_Varetransportekstern_ Lastebiler_Diesel_Danmark_ton.km)
Small ferries - Norway(est)	120,0	64,8	Estimated - no public data, ferries are not under the MRV scheme
Scandlines Rødby - Puttgarten average	134,1	72,4	2025 MRV Emission Report (M/F Deutschland, M/F Prinsesse Benedikte, M/F Prins Richard, M/F Schleswig-Holstein)
Fjord Line Hirtshals - Bergen average	92,5	49,9	2025 MRV Emission Report (MV Bergensfjord, MV Stavangerfjord)

References:

MRV Emissions Reports: https://mrv.emsa.europa.eu/#public/emission-report
Klimakompasset: https://klimakompasset.dk