MRV-formula: The sum of all consumtion divided by the sum of all transport work for each trip

1 March 2019/ OW

Cf Carbon footprint - realized consumption

Consumption =	10	ton	(realized consumption)
Distans	82,5	km	(distance Helsinki-Tallinn)
Passengers =	857	persons	(realized average for one year)
Cargo =	1191	ton	(realized average for one year)

$$\frac{\text{(Consumption x 1000 x 1000) g}}{\text{((Dist x Cargo)ton-km + (Dist x Passengers)pax-km))}} = \frac{10\,000\,000}{98\,258 + 70\,703} = \frac{10\,000\,000}{168\,960} \Rightarrow \mathbf{59,19}$$

Consumption g/tp-km * 3,15 (CO2) = 186,43

Passenger allocation 0,8 =	**149,15**	g/pax-km
Cargo allocation 0,2 =	**37,29**	g/ton-km

Cf footprint - certified

Consumption =	10	ton	(realized consumption)
Distans	82,5	km	(distance Helsinki-Tallinn)
Passengers =	2500	persons	(passenger certificate issued by Traficom)
Cargo =	6000	ton	(cargo capacity - IMO load line certificate)

$$\frac{\text{(Consumption x 1000 x 1000) g}}{\text{((Dist x Cargo)ton-km + (Dist x Passengers)pax-km))}} = \frac{10\,000\,000}{495\,000 + 206\,250} = \frac{10\,000\,000}{701\,250} \Rightarrow \mathbf{14,26}$$

Consumption g/tp-km * 3,15 (CO2) = 44,92

Passenger allocation 0,8 =	**35,94**	g/pax-km
Cargo allocation 0,2 =	**8,98**	g/ton-km