

Appendix A. Supplementary data

This supplementary data contains look-up tables for all country pairs and shows the respective well-to-wheel emission rates from road, rail and intermodal rail/road transportation in $\text{gCO}_2\text{e}/\text{ton-km}$. In addition, it also shows the *IM-share* (in %) which is the share of shipments where the intermodal routing is more eco-friendly than the road-only routing.

We provide one table for each country $c_1 \in \mathcal{C}$. This table shows the results for all shipments of each country pair (c_1, c_2) with $c_2 \in \mathcal{C}$. The third column of each table states the number of shipments $|S|$ that were considered for the calculation of the respective values. We only show results where $|S| \geq 100$.

For more information we refer to the corresponding paper:

Heinold, A., Meisel, F. 2018. Emission Rates of Intermodal Rail/Road and Road-only Transportation in Europe: A Comprehensive Simulation Study. *Transportation Research Part D: Transport and Environment*. *Accepted for Publication (4 Sep 2018)*.

	c_i	S	heavy goods shipments								voluminous goods shipments							
			[·]								[·]							
			I	II	III	IV	V	VI	VII	VIII	I	II	III	IV	V	VI	VII	VIII
emission rates from the road-only routing (RO) [$\text{gCO}_2\text{e}/\text{ton-km}$]	Austria	500	76.1	[74.7-80.7]	84.1	[49.3-103.0]	76.1	119.5	76.1	76.1	112.3	[109.7-120.6]	121.2	[76.6-148.0]	112.3	191.9	112.3	112.3
	Belgium	500	55.7	[54.5-59.4]	63.7	[46.1-65.4]	55.7	91.1	55.7	55.7	85.2	[83.0-91.9]	94.2	[72.3-98.1]	85.2	150.1	85.2	85.2
	Bulgaria	500	63.5	[62.1-67.4]	71.5	[47.5-79.5]	63.5	102.1	63.5	63.5	95.7	[93.0-102.7]	104.6	[74.3-117.0]	95.7	166.3	95.7	95.7
	Croatia	500	63.6	[62.1-67.4]	71.6	[43.7-83.5]	63.6	102.1	63.6	63.6	95.7	[93.0-102.7]	104.6	[69.2-122.0]	95.7	166.4	95.7	95.7
	Czech Republic	500	58.9	[57.7-62.7]	66.9	[46.1-71.8]	58.9	95.6	58.9	58.9	89.5	[87.1-96.4]	98.4	[72.4-106.6]	89.5	156.7	89.5	89.5
	Denmark	500	52.6	[51.5-56.2]	60.5	[46.1-59.1]	52.6	86.6	52.6	52.6	80.9	[79.0-87.7]	89.9	[72.3-89.6]	80.9	143.3	80.9	80.9
	Estonia	500	51.8	[50.7-55.3]	59.8	[47.1-56.6]	51.8	85.7	51.8	51.8	80.0	[77.9-86.4]	89.0	[73.7-86.4]	80.0	142.1	80.0	80.0
	Finland	500	51.8	[50.5-55.9]	59.8	[47.7-55.9]	51.8	85.4	51.8	51.8	79.8	[77.6-86.8]	88.8	[74.4-85.3]	79.8	141.5	79.8	79.8
	France	500	69.7	[68.3-73.9]	77.7	[46.9-92.4]	69.7	110.6	69.7	69.7	103.8	[101.2-111.5]	112.7	[73.5-134.1]	103.8	178.8	103.8	103.8
	Germany	500	57.0	[55.7-60.0]	65.0	[45.4-68.7]	57.0	93.0	57.0	57.0	87.0	[84.6-93.7]	95.9	[71.4-102.5]	87.0	152.8	87.0	87.0
	Greece	500	61.6	[60.3-65.5]	69.6	[47.5-75.8]	61.6	99.3	61.6	61.6	93.0	[90.7-100.2]	102.0	[74.2-111.9]	93.0	162.2	93.0	93.0
	Hungary	500	61.6	[60.2-65.4]	69.6	[43.4-79.8]	61.6	99.4	61.6	61.6	93.1	[90.5-100.0]	102.0	[68.9-117.3]	93.1	162.3	93.1	93.1
	Italy	500	68.7	[66.8-73.6]	76.7	[46.9-90.5]	68.7	109.0	68.7	68.7	102.3	[99.2-110.6]	111.2	[73.2-131.3]	102.3	176.1	102.3	102.3
	Latvia	500	52.3	[51.0-55.7]	60.3	[47.1-57.5]	52.3	86.4	52.3	52.3	80.7	[78.3-86.9]	89.7	[73.7-87.7]	80.7	143.2	80.7	80.7
	Lithuania	500	52.9	[51.6-56.3]	60.9	[46.8-59.1]	52.9	87.3	52.9	52.9	81.5	[79.1-87.8]	90.5	[73.3-89.7]	81.5	144.5	81.5	81.5
	Luxembourg	500	56.2	[54.9-59.8]	64.2	[45.9-66.5]	56.2	91.8	56.2	56.2	85.9	[83.5-92.5]	94.8	[72.2-99.5]	85.9	151.1	85.9	85.9
	Netherlands	500	54.7	[53.6-58.4]	62.7	[45.4-64.0]	54.7	89.7	54.7	54.7	83.9	[81.7-90.6]	92.8	[71.5-96.3]	83.9	148.0	83.9	83.9
	Norway	500	52.8	[51.5-56.7]	60.7	[47.5-58.1]	52.8	86.8	52.8	52.8	81.1	[78.9-88.0]	90.1	[74.1-88.2]	81.1	143.6	81.1	81.1
	Poland	500	54.8	[53.5-58.4]	62.8	[45.9-63.7]	54.8	89.8	54.8	54.8	84.0	[81.7-90.5]	92.9	[72.1-95.8]	84.0	148.2	84.0	84.0
	Portugal	500	67.2	[65.9-71.4]	75.2	[47.8-86.7]	67.2	107.2	67.2	67.2	100.5	[98.0-108.1]	109.5	[74.7-126.4]	100.5	173.7	100.5	100.5
Romania	500	58.8	[57.7-62.7]	66.8	[46.9-70.6]	58.8	95.3	58.8	58.8	89.2	[87.2-96.4]	98.1	[73.5-105.0]	89.2	156.1	89.2	89.2	
Slovakia	500	58.4	[57.2-62.2]	66.4	[46.1-70.7]	58.4	94.9	58.4	58.4	88.8	[86.5-95.7]	97.8	[72.4-105.2]	88.8	155.7	88.8	88.8	
Slovenia	500	70.9	[69.0-74.7]	78.5	[42.5-98.5]	70.5	111.9	70.5	70.5	105.0	[102.2-112.6]	113.9	[67.7-142.3]	105.0	180.7	105.0	105.0	
Spain	500	70.1	[68.6-74.2]	78.1	[48.4-91.9]	70.1	113.3	70.1	70.1	104.4	[101.6-112.0]	113.4	[75.4-133.4]	104.4	179.9	104.4	104.4	
Sweden	500	52.1	[51.0-55.7]	60.1	[47.0-57.3]	52.1	86.1	52.1	52.1	80.4	[78.3-86.9]	89.3	[73.5-87.3]	80.4	142.6	80.4	80.4	
Switzerland	500	86.3	[84.8-91.3]	94.3	[50.0-122.7]	86.3	133.8	86.3	86.3	125.9	[123.0-135.1]	134.8	[77.5-174.3]	125.9	213.0	125.9	125.9	
United Kingdom	500	54.0	[52.7-57.9]	61.9	[47.2-60.7]	54.0	85.8	54.0	54.0	82.7	[80.6-89.7]	91.7	[73.7-91.7]	82.7	146.0	82.7	82.7	
emission rates from the intermodal routing (IM) [$\text{gCO}_2\text{e}/\text{ton-km}$]	Austria	417	35.2	[34.4-37.1]	38.6	[24.1-46.4]	[35.1-35.5]	52.4	26.8	[35.2-44.1]	48.5	[47.6-51.4]	52.3	[34.7-62.3]	[48.3-49.0]	80.0	39.5	[48.5-64.8]
	Belgium	500	22.9	[22.3-23.9]	24.6	[14.4-31.5]	[22.7-23.5]	30.7	8.5	[22.9-26.5]	27.7	[27.4-28.6]	29.5	[18.1-37.3]	[27.3-28.6]	42.0	12.3	[27.7-34.3]
	Bulgaria	500	26.0	[25.3-27.1]	27.7	[16.0-36.1]	[25.8-26.6]	34.4	8.7	[26.0-28.5]	30.9	[30.6-31.7]	32.6	[19.8-41.9]	[30.4-31.8]	46.1	12.4	[30.9-35.6]
	Croatia	500	31.8	[30.9-33.4]	35.1	[20.8-42.7]	[31.8-32.1]	47.4	23.2	[31.8-37.4]	43.7	[42.8-46.2]	47.3	[30.4-56.9]	[43.4-44.2]	72.2	34.5	[43.7-54.0]
	Czech Republic	489	28.6	[27.9-30.1]	31.3	[20.2-37.1]	[28.4-29.1]	41.0	16.6	[28.6-35.3]	37.5	[36.9-39.4]	40.5	[27.5-47.6]	[37.2-38.3]	60.2	24.6	[37.5-49.8]
	Denmark	500	23.5	[22.8-24.6]	25.4	[17.7-29.3]	[23.2-24.0]	31.6	9.6	[23.5-26.3]	28.7	[28.4-29.7]	30.8	[22.1-35.3]	[28.3-29.6]	43.6	13.7	[28.7-33.9]
	Estonia	500	23.5	[22.7-24.5]	25.4	[18.6-28.5]	[23.2-24.2]	31.0	6.7	[23.5-25.5]	27.8	[27.6-28.5]	29.8	[22.3-33.4]	[27.3-28.9]	41.5	9.7	[27.8-31.4]
	Finland	500	22.0	[21.4-23.1]	23.8	[17.5-26.5]	[21.8-22.6]	29.2	6.7	[22.0-23.7]	26.3	[26.1-27.0]	28.2	[21.3-31.3]	[25.8-27.3]	39.4	9.7	[26.3-29.4]
	France	500	20.4	[19.8-21.4]	22.1	[13.5-27.3]	[20.2-21.2]	28.6	11.0	[20.2-23.2]	26.1	[25.7-27.2]	27.9	[18.2-34.0]	[25.8-26.6]	41.1	16.0	[26.1-31.1]
	Germany	493	26.2	[25.5-27.5]	28.5	[17.8-34.6]	[23.0-24.7]	36.3	11.9	[26.2-30.9]	32.9	[32.5-34.2]	35.4	[23.3-42.6]	[33.3-33.8]	51.4	17.6	[32.9-41.5]
	Greece	500	33.7	[32.8-35.0]	35.5	[17.2-50.1]	[33.3-36.4]	44.1	10.8	[33.2-35.6]	39.5	[39.2-40.5]	41.4	[21.6-57.5]	[39.0-40.7]	58.6	15.2	[39.5-44.0]
	Hungary	496	25.6	[24.9-27.0]	28.6	[19.1-32.1]	[25.5-25.9]	38.5	18.1	[25.6-31.8]	35.4	[34.7-37.5]	38.8	[27.5-43.4]	[35.2-36.0]	59.0	27.3	[35.4-46.8]
	Italy	499	28.9	[28.1-30.3]	30.9	[15.1-42.8]	[28.7-29.5]	39.2	13.0	[28.9-32.7]	35.5	[35.0-36.8]	37.6	[20.0-50.9]	[35.1-36.4]	54.4	18.6	[35.5-42.5]
	Latvia	500	25.1	[24.2-26.2]	27.1	[19.5-30.6]	[24.8-25.7]	33.3	7.7	[25.1-27.4]	30.0	[29.7-30.8]	32.1	[23.7-36.2]	[29.5-31.1]	45.0	11.3	[30.0-34.2]
	Lithuania	500	25.4	[24.6-26.6]	27.4	[19.4-31.5]	[25.1-26.1]	33.6	7.4	[25.4-28.0]	30.2	[30.0-31.0]	32.3	[23.4-37.0]	[29.7-31.4]	45.1	10.8	[30.2-35.0]
	Luxembourg	500	21.3	[20.7-22.2]	22.9	[12.4-30.2]	[21.1-21.7]	28.8	8.6	[23.1-25.4]	26.0	[25.7-26.8]	27.7	[15.9-36.0]	[25.6-26.7]	39.7	12.4	[26.0-33.5]
	Netherlands	500	23.8	[23.1-24.9]	25.6	[15.6-32.0]	[23.6-24.4]	31.9	8.4	[23.8-27.4]	28.7	[28.5-29.6]	30.7	[19.6-37.0]	[28.3-29.7]	43.6	12.1	[28.7-35.5]
	Norway	500	23.3	[22.8-24.3]	25.2	[18.0-28.6]	[23.1-23.6]	31.9	15.5	[23.3-25.2]	29.6	[29.2-30.9]	31.7	[23.3-35.8]	[29.3-30.1]	45.4	21.2	[29.6-33.2]
	Poland	500	29.1	[28.3-30.6]	31.8	[21.6-36.7]	[28.9-29.7]	40.3	12.4	[29.1-33.4]	36.6	[36.1-37.9]	39.4	[28.0-45.2]	[36.1-37.6]	57.0	18.6	[36.6-44.3]
	Portugal	500	15.5	[15.1-16.2]	16.5	[9.8-21.2]	[15.4-15.9]	20.5	5.8	[15.5-16.8]	18.4	[18.3-18.9]	19.5	[18.1-19.0]	[18.1-19.0]	27.5	8.0	[18.4-20.8]
Romania	500	23.9	[23.3-25.1]	26.0	[16.7-31.1]	[23.7-24.3]	33.6	12.6	[23.9-27.3]	30.6	[30.3-32.0]	32.9	[22.2-39.6]	[30.3-31.3]	48.4	18.5	[30.6-36.8]	
Slovakia	499	30.4	[29.6-32.0]	32.5	[21.3-39.4]	[30.2-30.7]	45.0	21.5	[30.4-37.3]	41.5	[40.7-43.9]	44.9	[30.4-52.7]	[41.3-42.1]	68.3	32.0	[41.5-54.2]	
Slovenia	453	28.8	[28.1-30.2]	31.5	[17.9-39.6]	[28.6-29.1]	41.9	18.3	[28.8-36.9]	38.3	[37.8-40.5]	41.5	[25.6-61.3]	[38.2-39.1]	62.6	27.8	[38.5-53.3]	
Spain	500	16.7	[16.3-17.5]	17.9	[10.7-22.7]	[16.6-17.1]	22.5	7.2	[16.7-18.4]	20.3	[20.1-20.9]	21.5	[13.6-27.0]	[20.0-20.9]	30.8	10.1	[20.0-23.3]	
Sweden	500	22.6	[22.0-23.5]	24.3	[17.8-27.4]	[22.2-22.9]	29.8	13.0	[22.6-24.9]	27.5	[27.2-28.4]	29.3	[22.1-32.9]	[27.2-28.1]	40.7	17.2	[27.5-31.4]	
Switzerland	496	36.3	[35.5-38.0]	38.9	[22.1-50.6]	[36.1-36.8]	50.8	21.1	[36.3-40.7]	46.5	[45.9-48.6]	49.3	[30.0-60.9]	[46.1-47.4]	73.0	30.2	[46.5-54.8]	
United Kingdom	500	21.4	[20.8-22.4]	23.1	[14.7-28.1]	[21.2-21.9]	28.9	8.5	[21.4-23.4]	26.1	[25.9-27.0]	27.9	[18.6-33.6]	[25.7-26.9]	39.9	12.3	[26.1-29.8]	
emission rates from the rail section (part of the IM routing) [$\text{gCO}_2\text{e}/\text{ton-km}$]	Austria	417	15.3	[14.8-15.8]	15.9	[9.5-21.1]	[15.1-15.8]	18.6	1.9	15.3	16.3	[16.3-16.4]	17.0	[10.3-22.4]	[16.0-17.2]	22.3	2.1	16.3
	Belgium	500	18.1	[17.5-18.7]	18.9	[10.9-25.3]	[17.8-18.7]	22.0	1.8	18.1	19.4	[21.9-19.4]	20.2	[11.9-26.8]	[18.9-20.4]	26.5	1.9	19.4
	Bulgaria	500	21.6	[20.9-22.3]	22.4	[12.4-30.7]	[21.3-22.2]	26.2	2.0	21.6	23.0	[22.9-23.0]	23.8	[13.5-32.5]	[22.5-24.1]	31.4	2.2	23.0
	Croatia	500	15.5	[15.0-16.0]	16.1	[8.0-23.0]	[15.2-15.9]	18.7	2.0	15.5	16.5	[16.4-16.5]	17.2	[8.7-24.3]	[16.1-17.3]	22.5	2.1	16.5
	Czech Republic	489	17.8	[17.3-18.5]	18.7	[12.0-23.7]	[17.6-18.4]	21.7	1.7	17.8	19.2	[19.0-19.2]	20.0	[13.1-25.2]	[18.7-20.2]	26.2	1.8	19.2
	Denmark	500	18.6	[18.0-19.3]	19.6	[14.0-23.3]	[18.4-19.2]	22.5	2.5	18.6	20.0	[19.9-20.1]	21.0	[15.1-24.9]	[19.5-21.1]	27.1	2.6	20.0
	Estonia	500	20.2	[19.5-21.0]	21.4	[16.0-24.4]	[19.9-20.9]	24.6	1.5	20.2	21.8	[21.6-21.8]</						

	c_i	S	heavy goods shipments								voluminous goods shipments								
			I	II	III	IV	V	VI	VII	VIII	I	II	III	IV	V	VI	VII	VIII	
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emission rates from the road-only routing (RO) [gCO ₂ e/ton-km]	Austria	500	56.9	[55.6-60.6]	64.8	[51.2-62.5]	56.9	92.7	56.9	56.9	86.7	[84.4-93.5]	95.6	[79.2-94.2]	86.7	152.4	86.7	86.7	
	Belgium	500	52.2	[51.0-55.7]	60.2	[48.6-55.8]	52.2	86.2	52.2	80.5	[78.3-86.9]	89.4	[75.7-105.6]	80.5	142.8	80.5	80.5		
	Bulgaria	500	61.6	[60.3-65.5]	69.6	[48.9-74.3]	61.6	99.3	61.6	61.6	93.0	[90.7-100.2]	101.9	[76.1-109.9]	93.0	162.1	93.0	93.0	
	Croatia	500	63.7	[62.4-67.7]	71.7	[48.7-78.6]	63.7	102.2	63.7	63.7	95.8	[93.4-103.1]	104.7	[75.9-115.6]	95.8	166.4	95.8	95.8	
	Czech Republic	500	54.4	[53.2-58.0]	62.3	[49.9-58.9]	54.4	89.2	54.4	54.4	83.4	[81.2-90.0]	92.3	[77.4-89.4]	83.4	147.3	83.4	83.4	
	Denmark	500	48.9	[47.8-52.4]	56.9	[48.0-49.8]	48.9	81.5	48.9	48.9	76.1	[74.1-82.4]	85.0	[74.9-77.3]	76.1	135.9	76.1	76.1	
	Estonia	500	50.2	[49.0-53.6]	58.2	[48.4-52.0]	50.2	83.4	50.2	50.2	77.8	[75.7-84.1]	86.8	[75.5-80.2]	77.8	138.7	77.8	77.8	
	Finland	500	51.7	[50.3-55.6]	59.7	[49.0-54.5]	51.7	85.4	51.7	51.7	79.8	[77.3-86.5]	88.7	[76.1-83.4]	79.8	141.5	79.8	79.8	
	France	500	54.3	[53.0-57.8]	62.3	[49.3-59.3]	54.3	89.1	54.3	54.3	83.3	[81.0-89.8]	92.3	[76.7-90.0]	83.3	147.2	83.3	83.3	
	Germany	500	53.0	[51.7-56.4]	60.9	[49.2-56.7]	53.0	87.3	53.0	53.0	81.6	[79.3-87.9]	90.5	[76.5-86.6]	81.6	144.5	81.6	81.6	
	Greece	500	63.8	[62.4-67.7]	71.8	[48.9-78.7]	63.8	102.4	63.8	63.8	96.0	[93.4-103.2]	104.9	[76.2-115.8]	96.0	166.8	96.0	96.0	
	Hungary	500	57.7	[56.3-61.3]	65.7	[48.6-66.7]	57.7	93.9	57.7	57.7	87.9	[85.4-94.5]	96.8	[75.8-99.9]	87.9	154.2	87.9	87.9	
	Italy	500	64.7	[63.0-69.4]	72.6	[49.9-79.5]	64.7	103.4	64.7	64.7	96.9	[94.2-105.0]	105.8	[77.2-116.6]	96.9	167.9	96.9	96.9	
	Latvia	500	50.1	[48.9-53.4]	58.0	[48.5-51.6]	50.1	83.2	50.1	50.1	77.7	[75.5-83.9]	86.6	[75.6-79.8]	77.7	138.5	77.7	77.7	
	Lithuania	500	50.3	[49.0-53.6]	58.3	[48.6-52.0]	50.3	83.6	50.3	50.3	78.0	[75.7-84.1]	87.0	[75.7-80.3]	78.0	139.0	78.0	78.0	
	Luxembourg	500	54.5	[53.2-58.0]	62.5	[49.6-59.3]	54.5	89.4	54.5	54.5	83.6	[81.3-90.1]	92.5	[77.1-90.1]	83.6	147.6	83.6	83.6	
	Netherlands	500	48.0	[47.0-51.5]	56.0	[45.8-50.2]	48.0	80.2	48.0	48.0	74.8	[73.0-81.2]	83.8	[71.9-77.7]	74.8	133.9	74.8	74.8	
	Norway	500	51.2	[49.8-55.2]	59.2	[48.9-53.5]	51.2	84.6	51.2	51.2	79.1	[76.7-85.9]	88.0	[76.0-82.1]	79.1	140.3	79.1	79.1	
	Poland	500	52.2	[51.0-55.7]	60.2	[48.6-55.9]	52.2	86.2	52.2	52.2	80.5	[78.4-87.0]	89.5	[75.7-85.4]	80.5	142.8	80.5	80.5	
	Portugal	500	56.7	[55.4-60.3]	64.7	[48.9-64.4]	56.7	92.5	56.7	56.7	86.5	[84.1-93.2]	95.4	[76.2-96.8]	86.5	152.1	86.5	86.5	
	Romania	500	59.8	[58.6-63.7]	67.8	[48.9-70.7]	59.8	96.8	59.8	59.8	90.7	[88.3-97.7]	99.6	[76.2-105.2]	90.7	158.5	90.7	90.7	
	Slovakia	500	53.8	[52.6-57.4]	61.8	[49.3-58.4]	53.8	88.5	53.8	53.8	82.7	[80.5-89.2]	91.6	[76.7-88.8]	82.7	146.2	82.7	82.7	
Slovenia	500	64.0	[62.7-68.0]	72.0	[49.4-78.6]	64.0	102.7	64.0	64.0	96.2	[93.8-103.6]	105.2	[76.8-115.6]	96.2	167.1	96.2	96.2		
Spain	500	55.8	[54.6-59.5]	63.8	[49.7-61.9]	55.8	91.2	55.8	55.8	85.3	[83.1-92.0]	94.2	[77.2-93.4]	85.3	150.2	85.3	85.3		
Sweden	500	50.9	[49.7-54.5]	58.9	[48.5-53.3]	50.9	84.3	50.9	50.9	78.7	[76.6-85.3]	87.7	[75.5-82.0]	78.7	140.0	78.7	78.7		
Switzerland	500	59.9	[58.7-63.6]	67.9	[49.3-66.1]	59.9	96.9	59.9	59.9	90.7	[88.5-97.9]	99.7	[75.8-99.0]	90.7	158.6	90.7	90.7		
United Kingdom	500	50.9	[49.2-54.9]	58.9	[49.1-52.7]	50.9	84.2	50.9	50.9	78.7	[75.9-85.4]	87.6	[76.3-81.0]	78.7	139.7	78.7	78.7		
emission rates from the intermodal routing (IM) [gCO ₂ e/ton-km]	Austria	500	26.0	[25.3-27.1]	27.7	[18.2-33.8]	26.0	25.5	34.7	10.3	[26.0-29.5]	31.4	[31.1-32.4]	33.2	[22.8-40.0]	[31.0-32.3]	47.4	14.6	[31.4-37.9]
	Belgium	434	24.1	[23.5-25.5]	27.2	[21.5-26.7]	24.1	24.3	37.3	19.6	[24.1-43.8]	34.6	[33.8-36.8]	38.0	[31.4-37.7]	[34.4-34.9]	58.9	29.7	[34.6-70.7]
	Bulgaria	500	23.6	[22.9-24.5]	24.9	[15.2-32.1]	23.6	23.3	30.0	5.1	[23.6-25.3]	26.7	[26.6-27.1]	28.0	[17.7-35.6]	[26.2-27.7]	38.3	6.8	[26.7-29.7]
	Croatia	500	21.8	[21.2-22.7]	23.3	[13.5-30.0]	21.8	22.2	29.6	10.1	[21.8-24.2]	26.8	[26.5-27.7]	28.5	[17.8-35.8]	[26.5-27.5]	41.2	14.4	[26.8-31.2]
	Czech Republic	500	25.0	[24.2-26.0]	26.7	[18.7-31.3]	25.0	25.6	32.7	7.2	[25.0-28.5]	29.3	[29.1-30.0]	31.1	[22.6-36.0]	[28.0-30.4]	43.4	10.2	[29.3-35.8]
	Denmark	500	20.4	[19.8-21.4]	22.3	[17.7-23.1]	20.4	20.9	27.8	7.6	[20.4-24.0]	25.1	[24.8-25.9]	27.1	[22.2-28.0]	[24.7-26.0]	38.6	11.3	[25.1-31.7]
	Estonia	500	21.7	[21.0-22.7]	23.3	[18.7-24.7]	21.7	22.4	27.8	4.4	[21.7-23.3]	24.9	[24.8-25.3]	26.6	[21.7-28.1]	[24.4-26.1]	36.1	6.2	[24.9-27.9]
	Finland	500	20.7	[20.0-21.6]	22.3	[17.9-23.5]	20.7	21.3	26.8	4.6	[20.7-22.2]	24.0	[23.8-24.4]	25.6	[21.0-26.9]	[23.5-25.0]	35.0	6.6	[24.0-26.6]
	France	499	17.3	[16.8-18.3]	19.3	[15.0-19.6]	17.3	17.4	26.4	14.2	[17.3-23.0]	24.5	[23.9-26.0]	26.7	[21.7-27.2]	[24.3-24.7]	41.3	21.2	[24.5-34.9]
	Germany	499	23.3	[22.6-24.3]	25.2	[18.3-28.2]	23.3	23.8	31.8	9.7	[23.3-29.3]	28.8	[28.5-29.8]	30.9	[23.4-34.2]	[28.4-29.7]	44.5	14.3	[28.8-39.8]
	Greece	500	28.9	[28.1-30.0]	30.3	[16.0-41.9]	28.9	29.6	36.9	6.9	[28.9-30.3]	32.8	[32.7-33.4]	34.3	[19.0-46.6]	[32.3-34.0]	47.4	9.4	[32.8-35.4]
	Hungary	500	21.2	[20.6-22.1]	22.8	[15.5-26.9]	21.2	21.7	28.1	6.7	[21.2-23.9]	25.2	[25.0-25.8]	26.8	[19.1-31.2]	[24.8-26.1]	37.7	9.7	[25.2-30.1]
	Italy	500	19.8	[19.2-20.7]	20.9	[11.0-28.6]	19.8	20.2	25.9	7.6	[19.8-22.4]	23.3	[23.0-24.1]	24.5	[13.9-32.7]	[23.0-24.0]	34.5	10.3	[23.3-28.1]
	Latvia	500	22.6	[21.9-23.6]	24.3	[19.5-25.8]	22.6	23.3	29.1	4.8	[22.6-24.5]	26.0	[25.9-26.5]	27.8	[22.7-29.4]	[25.5-27.2]	37.9	6.8	[26.0-29.5]
	Lithuania	500	22.9	[22.1-23.8]	24.5	[19.6-26.2]	22.9	23.6	29.2	4.4	[22.9-24.9]	26.1	[26.0-26.5]	27.8	[22.6-29.6]	[25.5-27.3]	37.7	6.2	[26.1-29.9]
	Luxembourg	452	19.6	[19.1-20.6]	21.7	[15.9-23.4]	19.6	20.0	28.3	11.3	[19.6-32.6]	25.7	[25.3-27.0]	27.9	[21.4-30.0]	[25.5-26.3]	41.6	16.8	[25.7-49.6]
	Netherlands	492	21.3	[20.7-22.6]	24.0	[19.3-23.3]	21.3	21.6	31.8	13.7	[21.3-33.8]	29.2	[28.7-30.9]	32.1	[26.9-31.5]	[28.9-29.7]	48.4	21.0	[25.2-52.1]
	Norway	500	17.8	[17.2-18.7]	19.5	[14.8-20.7]	17.8	18.1	25.3	10.3	[17.8-19.8]	23.2	[22.8-24.2]	25.1	[19.7-26.7]	[22.9-23.7]	37.0	15.1	[23.2-27.0]
	Poland	500	24.7	[23.9-25.8]	26.6	[20.8-28.6]	24.7	25.4	32.4	6.7	[24.7-27.6]	29.2	[29.0-29.9]	31.2	[25.0-33.3]	[24.6-30.3]	43.4	9.8	[29.2-34.4]
	Portugal	500	12.0	[11.7-12.5]	12.9	[8.9-15.1]	12.0	12.3	16.2	5.5	[12.0-13.9]	14.6	[14.5-15.1]	15.6	[11.3-18.0]	[14.4-15.1]	22.3	7.7	[14.6-18.0]
	Romania	500	21.6	[21.0-22.5]	23.1	[15.4-27.9]	21.6	22.2	28.3	6.5	[21.6-23.6]	25.4	[25.2-26.0]	26.9	[18.6-32.1]	[24.9-26.3]	37.5	9.2	[25.4-28.9]
	Slovakia	500	23.8	[23.1-24.8]	25.4	[17.0-30.5]	23.8	24.3	31.5	8.1	[23.8-26.5]	28.3	[28.1-29.1]	30.1	[20.9-35.8]	[27.9-29.3]	42.5	11.6	[28.3-33.4]
Slovenia	500	18.9	[18.3-19.6]	20.0	[11.4-26.4]	18.9	19.3	24.5	6.4	[18.9-21.7]	22.0	[21.8-22.5]	23.1	[14.0-29.9]	[21.6-22.7]	32.3	8.6	[22.0-27.2]	
Spain	500	12.5	[12.2-13.1]	13.5	[9.7-15.4]	12.5	12.8	17.4	7.0	[12.5-14.8]	15.8	[15.6-16.4]	16.9	[12.6-18.9]	[15.6-16.2]	24.6	9.8	[15.8-19.9]	
Sweden	500	16.4	[15.9-17.3]	18.0	[14.3-18.6]	16.4	16.8	22.7	7.3	[16.4-19.0]	20.6	[20.3-21.4]	22.3	[18.2-22.9]	[20.3-21.2]	32.0	10.7	[20.6-25.2]	
Switzerland	500	24.2	[23.7-25.5]	26.2	[17.8-30.6]	24.2	24.4	35.3	18.8	[24.2-29.5]	32.7	[32.1-34.6]	34.9	[25.0-40.4]	[32.5-33.1]	53.1	27.0	[32.7-42.3]	
United Kingdom	500	21.2	[20.6-22.3]	23.4	[17.7-24.7]	21.2	21.6	30.3	11.8	[21.2-26.0]	27.7	[27.2-28.9]	30.0	[27.2-48.9]	[27.4-28.4]	44.4	17.6	[27.7-36.4]	
emission rates from the rail section (part of the IM routing) [gCO ₂ e/ton-km]	Austria	500	19.8	[19.2-20.4]	20.6	[12.8-26.8]	[19.5-20.4]	24.0	2.0	19.8	21.1	[21.0-21.2]	22.0	[13.8-28.5]	[20.7-22.2]	28.9	2.1	21.1	
	Belgium	434	8.5	[8.2-8.8]	9.0	[6.7-10.3]	[8.4-8.8]	10.4	1.5	8.5	9.2	[9.1-9.2]	9.6	[7.3-11.1]	[9.0-9.7]	12.6	1.6	9.2	
	Bulgaria	500	21.6	[20.9-22.3]	22.5	[13.2-30.0]	[21.3-22.3]	26.2	2.0	21.6	23.1	[22.9-23.1]	23.9	[14.3-31.8]	[22.6-24.2]	31.5	2.1	23.1	
	Croatia	500	15.9	[15.4-16.4]	16.5	[8.0-23.7]	[15.6-16.3]	19.2	2.5	15.9	16.9	[16.8-17.0]	17.5	[8.7-25.2]	[16.6-17.8]	23.1	2.6	16.9	
	Czech Republic	500	21.5	[20.8-22.2]	22.5	[15.1-27.8]	[21.2-22.2]	26.1	1.8	21.5	23.0	[22.9-23.1]	24.0	[16.4-29.7]	[22.5-24.2]	31.5	1.9	23.0	
	Denmark	500	16.2	[15.6-16.8]	17.1	[13.5-18.8]	[15.9-16.7]	19.7	1.4	16.2	17.5	[17.3-17.5]	18.4	[14.6-20.3]	[17.0-18.4]	23.9	1.5	17.5	

c_i	S	heavy goods shipments								voluminous goods shipments								
		I	II	III	IV	V	VI	VII	VIII	I	II	III	IV	V	VI	VII	VIII	
emission rates from the road-only routing (RO) [$\text{gCO}_2\text{/ton-km}$]	Austria	500	57.8	[56.5-61.5]	65.8	[49.9-65.8]	57.8	94.1	57.8	57.8	88.1	[85.6-94.8]	97.0	[77.5-98.6]	88.1	154.6	88.1	88.1
	Belgium	500	57.1	[55.8-60.7]	65.1	[48.3-65.9]	57.1	93.1	57.1	57.1	87.1	[84.7-93.7]	96.0	[75.4-98.7]	87.1	153.0	87.1	87.1
	Bulgaria	500	60.6	[59.3-64.4]	68.6	[48.4-73.0]	60.6	98.0	60.6	60.6	91.7	[89.2-98.7]	100.7	[75.4-108.2]	91.7	160.2	91.7	91.7
	Croatia	500	58.1	[56.8-61.8]	66.1	[47.9-68.4]	58.1	94.5	58.1	58.1	88.5	[86.0-95.2]	97.4	[74.8-102.1]	88.5	155.2	88.5	88.5
	Czech Republic	500	57.5	[56.3-61.3]	65.5	[49.0-66.0]	57.5	93.5	57.5	57.5	87.5	[85.3-94.5]	96.5	[76.2-98.8]	87.5	153.6	87.5	87.5
	Denmark	500	54.4	[53.2-58.0]	62.4	[48.1-60.7]	54.4	89.3	54.4	54.4	83.5	[81.2-90.0]	92.4	[75.0-91.9]	83.5	147.4	83.5	83.5
	Estonia	500	53.8	[52.5-57.3]	61.7	[48.2-59.3]	53.8	88.4	53.8	53.8	82.6	[80.3-89.0]	91.6	[75.2-90.1]	82.6	146.1	82.6	82.6
	Finland	500	53.4	[52.1-57.4]	61.4	[48.5-58.3]	53.4	87.7	53.4	53.4	82.0	[79.7-89.0]	90.9	[75.5-88.5]	82.0	144.8	82.0	82.0
	France	500	61.4	[60.1-65.3]	69.4	[48.6-74.2]	61.4	99.0	61.4	61.4	92.7	[90.4-99.9]	101.6	[75.7-109.7]	92.7	161.6	92.7	92.7
	Germany	500	56.5	[55.1-60.0]	64.5	[48.6-64.5]	56.5	92.3	56.5	56.5	86.4	[83.8-92.8]	95.3	[75.8-97.0]	86.4	152.0	86.4	86.4
	Greece	500	66.3	[64.9-70.4]	74.3	[48.2-84.4]	66.3	105.9	66.3	66.3	99.3	[96.8-106.8]	108.3	[75.2-123.4]	99.3	171.9	99.3	99.3
	Hungary	500	57.0	[55.8-60.7]	65.0	[47.6-66.4]	57.0	92.9	57.0	57.0	86.9	[84.7-93.7]	95.8	[74.4-99.4]	86.9	152.7	86.9	86.9
	Italy	500	64.5	[62.8-69.7]	72.5	[49.4-79.7]	64.5	103.0	64.5	64.5	96.6	[93.8-105.1]	105.6	[76.5-116.8]	96.6	167.2	96.6	96.6
	Latvia	500	54.2	[53.1-59.1]	62.2	[48.0-60.4]	54.2	88.9	54.2	54.2	83.2	[81.1-89.9]	92.1	[74.9-91.4]	83.2	146.8	83.2	83.2
	Lithuania	500	55.2	[54.0-58.8]	63.2	[48.1-62.3]	55.2	90.4	55.2	55.2	84.5	[82.3-91.2]	93.4	[75.0-94.0]	84.5	149.0	84.5	84.5
	Luxembourg	500	56.9	[55.5-60.5]	64.9	[48.7-65.2]	56.9	92.9	56.9	56.9	86.9	[84.3-93.4]	95.9	[75.9-98.0]	86.9	152.9	86.9	86.9
	Netherlands	500	56.0	[54.8-59.7]	64.0	[48.0-64.1]	56.0	91.5	56.0	56.0	85.6	[83.4-92.4]	94.5	[74.8-96.3]	85.6	150.6	85.6	85.6
	Norway	500	54.1	[52.8-57.9]	62.0	[48.4-59.7]	54.1	88.7	54.1	54.1	82.9	[80.7-89.8]	91.8	[75.3-90.5]	82.9	146.3	82.9	82.9
	Poland	500	57.6	[56.4-61.4]	65.6	[48.1-67.0]	57.6	93.6	57.6	57.6	87.6	[85.5-94.6]	96.6	[75.0-100.2]	87.6	153.8	87.6	87.6
	Portugal	500	58.8	[57.5-62.5]	66.8	[48.7-69.0]	58.8	95.5	58.8	58.8	89.4	[86.9-96.1]	98.3	[75.9-102.9]	89.4	156.6	89.4	89.4
Romania	500	58.2	[57.0-62.0]	66.2	[48.3-68.0]	58.2	94.5	58.2	58.2	88.4	[86.2-95.5]	97.4	[75.3-101.6]	88.4	155.0	88.4	88.4	
Slovakia	500	60.0	[58.7-63.8]	68.0	[48.9-71.0]	60.0	97.1	60.0	60.0	90.9	[88.5-97.9]	99.8	[76.2-105.6]	90.9	158.9	90.9	90.9	
Slovenia	500	59.1	[58.0-63.1]	67.1	[48.5-69.7]	59.1	95.8	59.1	59.1	89.7	[87.6-96.9]	98.6	[75.6-103.7]	89.7	156.8	89.7	89.7	
Spain	500	59.5	[58.2-63.3]	67.5	[48.9-70.0]	59.5	96.4	59.5	59.5	90.2	[87.9-97.2]	99.1	[76.2-104.2]	90.2	157.8	90.2	90.2	
Sweden	500	54.3	[53.0-57.8]	62.3	[48.2-60.5]	54.3	89.2	54.3	54.3	83.4	[81.0-89.8]	92.4	[75.3-91.6]	83.4	147.4	83.4	83.4	
Switzerland	500	67.7	[66.3-71.9]	75.6	[50.2-85.1]	67.7	107.8	67.7	67.7	101.1	[98.6-108.8]	110.0	[77.8-124.3]	101.1	174.6	101.1	101.1	
United Kingdom	500	55.4	[54.1-59.2]	63.4	[48.5-62.4]	55.4	90.7	55.4	55.4	84.8	[82.4-91.5]	93.7	[75.5-94.1]	84.8	149.4	84.8	84.8	
emission rates from the intermodal routing (IM) [$\text{gCO}_2\text{/ton-km}$]	Austria	500	26.5	[25.7-27.5]	28.1	[16.4-36.5]	[26.2-27.0]	35.0	9.6	[26.5-28.9]	31.5	[31.2-32.4]	33.3	[20.6-42.4]	[31.1-32.5]	47.2	13.5	[31.5-36.1]
	Belgium	500	22.5	[21.8-23.4]	23.8	[13.7-31.3]	[22.2-23.1]	28.6	4.9	[22.5-24.1]	25.5	[25.4-25.9]	26.8	[16.2-34.9]	[25.0-26.5]	36.7	6.7	[25.5-28.5]
	Bulgaria	408	40.4	[39.4-42.3]	43.7	[25.5-55.3]	[40.1-41.0]	56.8	20.9	[40.4-47.6]	51.7	[50.9-53.9]	55.2	[35.0-68.3]	[51.2-52.7]	81.6	30.9	[51.7-64.8]
	Croatia	500	29.2	[28.4-30.4]	31.2	[17.3-41.1]	[28.9-29.8]	39.4	11.8	[29.2-31.8]	35.6	[35.2-36.8]	37.8	[22.6-48.6]	[35.2-36.6]	54.4	17.1	[35.6-43.0]
	Czech Republic	500	25.0	[24.3-26.0]	26.5	[15.8-34.1]	[24.7-25.5]	32.7	7.6	[25.0-27.3]	29.3	[29.1-30.0]	31.0	[19.5-39.1]	[28.9-30.3]	43.4	10.7	[29.3-33.6]
	Denmark	500	23.4	[22.7-24.3]	24.9	[15.9-30.9]	[23.1-24.0]	30.1	6.1	[23.4-25.0]	26.9	[26.8-27.5]	28.5	[19.0-34.9]	[26.5-28.0]	39.2	8.4	[26.9-29.8]
	Estonia	500	23.6	[22.8-24.5]	25.1	[16.0-31.1]	[23.3-24.2]	30.3	5.4	[23.6-24.9]	27.1	[26.9-27.5]	28.7	[19.0-35.1]	[26.6-28.2]	39.4	7.5	[27.1-29.5]
	Finland	500	22.3	[21.6-23.2]	23.8	[15.4-29.2]	[22.0-22.9]	28.7	5.2	[22.3-23.5]	25.7	[25.6-26.2]	27.3	[18.4-33.0]	[25.2-26.8]	37.5	7.4	[25.7-27.9]
	France	500	21.3	[20.7-22.1]	22.6	[11.1-21.8]	[21.1-21.8]	27.9	6.9	[21.3-22.7]	25.0	[24.8-25.6]	26.4	[16.4-33.6]	[24.6-25.8]	37.1	9.6	[25.0-27.5]
	Germany	500	24.0	[23.3-25.0]	25.5	[15.1-33.0]	[23.8-24.7]	31.0	6.1	[24.0-25.9]	27.7	[27.5-28.2]	29.2	[18.2-37.2]	[27.2-28.8]	40.5	8.5	[27.7-31.1]
	Greece	486	49.4	[48.3-51.5]	52.3	[24.0-74.9]	[49.1-50.2]	66.6	20.6	[49.5-62.4]	60.3	[59.6-62.4]	63.4	[32.5-58.8]	[59.6-61.7]	92.0	29.7	[60.3-68.1]
	Hungary	500	29.6	[28.8-30.9]	31.8	[18.0-41.2]	[29.3-30.1]	40.2	11.8	[29.6-33.1]	36.3	[35.9-37.5]	38.7	[23.8-48.8]	[35.8-37.3]	55.8	17.4	[36.3-42.7]
	Italy	500	24.9	[24.2-26.0]	26.2	[14.0-35.8]	[24.6-25.5]	32.1	7.1	[24.9-26.6]	28.7	[28.5-29.4]	30.1	[17.0-40.4]	[28.2-29.7]	41.9	9.7	[28.7-31.8]
	Latvia	500	24.3	[23.6-25.3]	25.9	[16.1-32.5]	[24.0-25.0]	31.3	5.8	[24.3-25.8]	28.0	[27.9-28.6]	29.7	[19.3-36.7]	[27.5-29.2]	40.9	8.1	[28.0-30.7]
	Lithuania	500	24.7	[23.9-25.7]	26.2	[15.9-33.4]	[24.3-25.3]	31.5	5.4	[24.7-26.2]	28.2	[28.0-28.6]	29.8	[18.8-37.7]	[27.6-29.3]	40.8	7.5	[28.2-31.0]
	Luxembourg	500	21.3	[20.6-22.1]	22.5	[12.6-30.0]	[21.0-21.8]	27.1	4.7	[21.3-23.0]	24.1	[24.0-24.5]	25.3	[14.9-33.3]	[23.7-25.1]	34.7	6.3	[24.1-27.2]
	Netherlands	500	23.0	[22.3-23.9]	24.5	[14.4-31.6]	[22.7-23.6]	29.3	5.0	[23.0-24.6]	26.1	[26.0-26.6]	27.5	[17.0-35.6]	[25.7-27.2]	37.8	6.8	[26.1-29.1]
	Norway	500	23.4	[22.8-24.3]	25.0	[16.4-30.4]	[23.2-23.9]	30.7	10.6	[23.4-24.6]	28.0	[27.7-28.8]	29.6	[20.3-45.6]	[27.6-28.7]	41.4	14.2	[28.0-32.4]
	Poland	500	26.3	[25.5-27.4]	28.0	[16.5-36.1]	[26.0-26.9]	34.3	7.4	[26.3-31.5]	30.8	[30.6-31.5]	32.6	[20.4-31.2]	[30.3-31.9]	45.5	10.5	[30.8-34.4]
	Portugal	500	18.2	[17.7-18.9]	19.2	[11.0-25.4]	[18.0-18.7]	23.3	4.8	[18.2-19.1]	20.7	[20.6-21.1]	21.8	[13.1-28.4]	[20.4-21.5]	30.0	6.4	[20.7-22.4]
Romania	490	35.9	[34.9-37.5]	38.8	[22.3-49.4]	[35.6-36.4]	50.3	18.4	[35.9-40.9]	45.7	[45.1-47.7]	48.9	[30.7-60.7]	[45.3-46.7]	72.2	27.1	[45.7-55.0]	
Slovakia	500	27.9	[27.1-29.0]	29.8	[16.9-38.9]	[27.6-28.5]	37.3	10.5	[27.9-30.6]	33.6	[33.3-34.6]	35.6	[21.6-45.6]	[33.2-34.6]	50.9	15.0	[33.6-38.6]	
Slovenia	500	25.8	[25.1-26.9]	27.3	[14.9-36.7]	[25.5-26.4]	33.6	7.6	[25.8-28.3]	30.1	[29.9-30.8]	31.7	[18.5-41.8]	[29.7-31.2]	44.5	10.7	[30.1-34.8]	
Spain	500	19.4	[18.8-20.1]	20.4	[11.6-27.1]	[19.1-19.8]	24.9	5.4	[19.4-20.4]	22.2	[22.1-22.6]	23.3	[13.9-30.5]	[21.8-23.0]	32.2	7.3	[22.2-24.1]	
Sweden	500	23.0	[22.4-23.9]	24.4	[16.2-29.8]	[22.8-23.5]	29.5	8.8	[23.0-24.4]	26.7	[26.5-27.3]	28.2	[19.5-33.9]	[26.3-27.6]	38.6	11.5	[26.7-29.2]	
Switzerland	500	27.3	[26.6-28.4]	28.8	[16.8-37.8]	[27.0-27.9]	35.9	9.8	[27.3-29.0]	32.3	[32.1-33.2]	34.0	[20.9-43.8]	[31.9-33.4]	48.1	13.6	[32.3-35.6]	
United Kingdom	500	21.9	[21.2-22.8]	23.3	[14.3-29.5]	[21.6-22.5]	28.3	5.8	[21.9-23.1]	25.3	[25.2-25.9]	26.8	[17.2-33.5]	[24.9-26.3]	37.1	8.1	[25.3-27.6]	
emission rates from the rail section (part of the IM routing) [$\text{gCO}_2\text{/ton-km}$]	Austria	500	21.1	[20.4-21.7]	21.9	[11.5-30.6]	[20.8-21.7]	25.5	2.0	[21.1-22.5]	21.1	[22.3-22.5]	23.3	[12.5-32.4]	[22.0-23.6]	30.7	2.2	22.5
	Belgium	500	20.5	[19.9-21.2]	21.4	[11.8-29.2]	[20.2-21.1]	24.9	1.9	[21.8-22.0]	20.5	[21.8-22.0]	22.8	[12.4-23.0]	[21.4-23.0]	30.0	2.0	21.9
	Bulgaria	408	31.9	[31.0-32.9]	32.													

	c_i	S	heavy goods shipments								voluminous goods shipments							
			I	II	III	IV	V	VI	VII	VIII	I	II	III	IV	V	VI	VII	VIII
emission rates from the road-only routing (RO) [gCO ₂ e/ton-km]	Austria	500	68.3	[66.9-72.5]	76.3	[54.1-82.6]	68.3	108.7	68.3	68.3	102.0	[99.4-109.7]	110.9	[83.0-121.0]	102.0	176.1	102.0	102.0
	Belgium	500	63.1	[61.8-67.1]	71.1	[48.4-77.7]	63.1	104.7	63.1	63.1	95.0	[92.6-102.3]	103.9	[75.5-114.5]	95.0	165.1	95.0	95.0
	Bulgaria	500	62.5	[60.1-65.3]	69.5	[49.4-73.6]	61.5	99.2	61.5	61.5	92.9	[90.4-99.9]	101.9	[76.9-109.0]	92.9	162.1	92.9	92.9
	Croatia	500	61.0	[60.7-66.0]	70.0	[48.8-75.4]	62.0	99.9	62.0	62.0	93.6	[91.2-100.8]	102.5	[75.9-111.4]	93.6	163.0	93.6	93.6
	Czech Republic	500	60.8	[59.4-64.5]	68.8	[50.1-71.5]	60.8	98.3	60.8	60.8	92.0	[89.4-98.8]	101.0	[77.8-106.2]	92.0	160.7	92.0	92.0
	Denmark	500	55.7	[54.5-59.4]	63.7	[48.2-63.3]	55.7	91.1	55.7	55.7	85.2	[82.9-91.9]	94.1	[75.1-95.3]	85.2	150.1	85.2	85.2
	Estonia	500	53.2	[52.0-56.7]	61.2	[48.3-58.1]	53.2	87.6	53.2	53.2	81.9	[79.6-88.3]	90.8	[75.4-88.4]	81.9	144.9	81.9	81.9
	Finland	500	53.0	[51.6-56.9]	61.0	[48.8-57.2]	53.0	87.2	53.0	53.0	81.5	[79.1-88.3]	90.4	[75.9-87.1]	81.5	144.2	81.5	81.5
	France	500	66.5	[64.9-70.4]	74.5	[49.2-83.7]	66.5	106.2	66.5	66.5	99.6	[96.8-106.8]	108.5	[76.6-122.5]	99.6	172.4	99.6	99.6
	Germany	500	61.4	[60.0-65.2]	69.4	[48.8-74.1]	61.4	99.1	61.4	61.4	92.8	[90.3-99.8]	101.8	[76.0-109.7]	92.8	161.9	92.8	92.8
	Greece	500	61.6	[60.1-65.4]	69.6	[49.4-73.8]	61.6	99.3	61.6	61.6	93.0	[90.4-100.0]	101.9	[76.8-109.2]	93.0	162.2	93.0	93.0
	Hungary	500	54.6	[53.5-58.3]	62.6	[48.1-61.1]	54.6	89.5	54.6	54.6	83.7	[81.6-90.4]	92.6	[75.0-92.3]	83.7	147.6	83.7	83.7
	Italy	500	60.6	[58.9-65.5]	68.6	[50.3-70.8]	60.6	97.5	60.6	60.6	91.4	[88.7-99.5]	100.3	[77.7-105.0]	91.4	159.1	91.4	91.4
	Latvia	500	53.4	[52.2-57.0]	61.4	[48.3-58.5]	53.4	87.8	53.4	53.4	82.1	[79.9-88.6]	91.0	[75.4-88.6]	82.1	145.3	82.1	82.1
	Lithuania	500	54.3	[53.0-57.8]	62.3	[48.4-60.3]	54.3	89.2	54.3	54.3	83.4	[81.0-89.8]	92.3	[75.5-91.3]	83.4	147.3	83.4	83.4
	Luxembourg	500	64.7	[63.3-68.7]	72.7	[48.9-80.5]	64.7	103.6	64.7	64.7	97.1	[94.6-104.5]	106.1	[76.1-118.2]	97.1	168.6	97.1	97.1
	Netherlands	500	59.6	[58.2-63.3]	67.6	[48.1-71.1]	59.6	96.5	59.6	59.6	90.4	[87.9-97.3]	99.3	[75.0-105.7]	90.4	158.1	90.4	90.4
	Norway	500	54.7	[53.5-58.7]	62.7	[48.6-60.9]	54.7	89.6	54.7	54.7	83.8	[81.6-90.8]	92.7	[75.6-92.0]	83.8	147.7	83.8	83.8
	Poland	500	56.5	[55.3-60.2]	64.4	[48.5-64.4]	56.5	92.1	56.5	56.5	86.2	[84.0-93.0]	95.1	[75.5-96.8]	86.2	151.5	86.2	86.2
	Portugal	500	56.0	[54.7-59.6]	64.0	[48.8-63.2]	56.0	91.6	56.0	56.0	85.6	[83.2-92.2]	94.6	[76.0-95.2]	85.6	150.8	85.6	85.6
	Romania	500	58.8	[57.5-62.5]	66.8	[49.5-68.2]	58.8	95.5	58.8	58.8	89.4	[86.9-96.2]	98.4	[76.9-101.9]	89.4	156.7	89.4	89.4
	Slovakia	500	57.6	[56.3-61.2]	65.5	[49.9-65.2]	57.6	93.7	57.6	57.6	87.7	[85.3-94.4]	96.6	[77.4-97.9]	87.7	153.9	87.7	87.7
	Slovenia	500	65.2	[63.7-69.1]	73.2	[51.6-78.9]	65.2	104.5	65.2	65.2	97.9	[95.1-105.0]	106.9	[79.7-116.2]	97.9	169.9	97.9	97.9
	Spain	500	57.2	[56.0-60.9]	65.1	[49.3-65.0]	57.2	93.1	57.2	57.2	87.1	[84.9-94.0]	96.0	[76.6-97.6]	87.1	152.9	87.1	87.1
Sweden	500	54.1	[52.9-57.7]	62.1	[48.3-59.9]	54.1	88.9	54.1	54.1	83.1	[80.8-89.6]	92.0	[75.4-90.7]	83.1	146.8	83.1	83.1	
Switzerland	500	79.4	[78.1-84.3]	87.4	[52.6-106.3]	79.4	124.1	79.4	79.4	116.7	[114.2-125.5]	125.6	[81.0-152.4]	116.7	198.6	116.7	116.7	
United Kingdom	500	58.5	[57.1-62.4]	66.5	[48.6-68.3]	58.5	94.9	58.5	58.5	88.8	[86.4-95.9]	97.7	[75.7-101.9]	88.8	155.6	88.8	88.8	
emission rates from the intermodal routing (IM) [gCO ₂ e/ton-km]	Austria	500	35.3	[34.4-37.1]	38.5	[26.0-44.5]	[35.1-35.6]	51.7	25.3	[35.3-41.0]	47.7	[46.9-50.4]	51.3	[36.6-58.9]	[47.5-48.2]	77.9	37.2	[47.7-58.2]
	Belgium	500	22.8	[22.1-23.7]	24.3	[14.6-30.9]	[22.6-23.2]	30.6	9.6	[22.8-25.2]	27.6	[27.3-28.5]	29.3	[18.7-36.5]	[27.3-28.4]	42.1	13.6	[27.6-32.0]
	Bulgaria	500	30.8	[30.0-32.1]	32.8	[19.3-42.3]	[30.8-31.4]	41.4	12.0	[30.8-33.3]	37.3	[30.9-38.5]	39.5	[24.8-49.9]	[36.9-38.4]	56.8	17.3	[37.3-41.9]
	Croatia	269	38.8	[37.9-40.9]	42.7	[27.3-50.4]	[38.9-39.2]	57.6	27.5	[38.8-45.1]	53.0	[52.0-56.1]	57.3	[39.5-66.6]	[52.7-53.7]	87.4	41.0	[53.0-64.5]
	Czech Republic	500	28.1	[27.3-29.4]	30.5	[20.8-35.4]	[27.9-28.5]	39.9	16.0	[28.1-32.0]	36.5	[35.8-38.1]	39.2	[28.1-44.9]	[36.1-37.2]	58.2	23.5	[36.5-43.7]
	Denmark	500	24.5	[23.8-25.6]	26.4	[18.7-30.3]	[24.2-25.0]	33.1	10.2	[24.5-26.9]	30.0	[29.6-30.9]	32.1	[23.5-36.4]	[29.6-30.9]	45.7	14.6	[30.0-33.9]
	Estonia	500	24.3	[23.5-25.3]	26.2	[19.2-29.3]	[24.0-24.8]	32.3	8.1	[24.3-25.9]	29.2	[28.9-30.0]	31.2	[23.5-34.8]	[28.7-30.2]	44.0	11.8	[29.2-32.9]
	Finland	500	22.9	[22.2-23.9]	24.7	[18.2-27.5]	[22.6-23.4]	30.6	7.8	[22.9-23.4]	27.6	[27.3-28.4]	29.5	[22.5-32.7]	[27.1-28.5]	41.7	11.4	[27.6-30.3]
	France	500	23.1	[22.5-24.1]	24.8	[15.5-30.7]	[22.9-23.4]	32.1	12.5	[23.1-25.3]	29.2	[28.7-30.3]	31.1	[20.7-37.8]	[28.9-29.8]	45.7	17.9	[29.2-33.3]
	Germany	500	26.0	[25.3-27.2]	28.0	[18.4-33.6]	[25.8-26.5]	35.6	11.5	[26.0-28.8]	32.2	[31.8-33.4]	34.4	[23.7-40.7]	[31.8-33.1]	49.8	16.7	[32.2-37.4]
	Greece	500	37.1	[36.1-38.5]	39.2	[19.8-54.4]	[36.8-37.8]	49.2	13.3	[37.1-39.1]	44.2	[43.8-45.4]	46.4	[25.4-65.0]	[43.6-45.4]	66.3	18.9	[44.2-47.4]
	Hungary	472	33.3	[32.5-35.1]	36.9	[25.1-41.5]	[32.3-33.7]	49.6	23.0	[33.3-39.2]	45.6	[44.7-48.2]	49.5	[36.0-55.1]	[45.3-46.2]	75.4	34.5	[45.6-56.3]
	Italy	499	29.6	[28.8-31.2]	31.9	[19.6-39.7]	[29.4-30.1]	41.4	16.1	[29.6-33.3]	37.7	[37.1-39.6]	40.2	[26.5-49.0]	[37.4-38.5]	59.3	23.3	[37.7-44.4]
	Latvia	500	25.4	[24.6-26.5]	27.4	[19.8-30.9]	[25.1-26.0]	33.9	8.8	[25.4-27.3]	30.6	[30.3-31.5]	32.7	[24.5-36.7]	[30.1-31.7]	46.3	12.8	[30.6-34.2]
	Lithuania	500	26.1	[25.4-27.3]	28.2	[20.1-32.2]	[25.9-26.7]	35.0	9.2	[26.1-28.3]	31.6	[31.3-32.6]	33.8	[24.9-38.4]	[31.2-32.7]	47.9	13.4	[31.6-35.5]
	Luxembourg	500	22.9	[22.3-23.8]	24.4	[14.1-31.7]	[22.7-23.3]	31.0	10.4	[22.9-25.7]	28.0	[27.6-28.9]	29.6	[18.3-37.7]	[27.7-28.7]	42.9	14.7	[28.0-33.0]
	Netherlands	500	23.3	[22.6-24.3]	25.1	[16.5-30.2]	[23.1-23.8]	31.3	8.9	[23.3-25.6]	28.3	[28.0-29.2]	30.1	[20.7-35.8]	[27.9-29.2]	43.0	12.8	[28.3-32.5]
	Norway	500	24.1	[23.6-25.2]	26.0	[18.6-29.6]	[24.0-24.5]	32.9	14.7	[24.1-25.7]	30.3	[29.9-31.6]	32.4	[24.0-36.6]	[30.0-30.9]	46.5	20.2	[30.3-33.2]
	Poland	500	28.9	[28.1-30.2]	31.4	[21.8-36.0]	[28.9-29.4]	40.0	13.1	[28.9-31.9]	36.3	[35.8-37.7]	39.0	[28.4-44.2]	[35.8-37.3]	56.6	19.3	[36.3-41.8]
	Portugal	500	19.0	[18.5-19.8]	20.2	[12.4-25.6]	[18.9-19.4]	25.2	7.3	[19.0-20.3]	22.6	[22.4-23.2]	23.9	[15.4-29.8]	[22.5-23.3]	33.9	10.1	[22.6-24.9]
	Romania	495	29.9	[29.1-31.3]	32.5	[21.2-38.6]	[29.7-30.3]	45.5	17.0	[29.9-33.3]	38.9	[38.4-40.6]	41.7	[28.9-49.8]	[38.5-39.6]	62.0	25.1	[38.9-45.1]
	Slovakia	497	31.5	[30.7-33.1]	34.6	[23.1-40.0]	[31.4-31.9]	46.1	21.1	[31.5-36.2]	42.4	[41.6-44.7]	45.7	[32.3-52.5]	[42.1-43.0]	69.2	31.2	[42.4-50.6]
	Slovenia	437	41.3	[40.2-43.4]	45.4	[29.9-52.7]	[41.1-41.6]	61.7	30.8	[41.3-50.4]	56.9	[55.7-60.2]	61.5	[43.3-70.6]	[56.7-57.5]	94.4	45.9	[56.9-73.7]
	Spain	500	20.2	[19.6-21.0]	21.5	[13.2-27.2]	[20.0-20.5]	27.0	8.6	[20.2-21.7]	24.4	[24.1-25.1]	26.7	[16.7-32.0]	[24.0-25.0]	36.9	12.0	[24.4-27.2]
Sweden	500	23.6	[23.0-24.6]	25.4	[18.5-28.8]	[24.3-24.0]	31.3	12.6	[23.6-25.5]	28.7	[28.4-29.7]	30.6	[23.0-34.4]	[28.4-29.4]	42.8	16.9	[28.7-32.1]	
Switzerland	500	34.8	[34.1-36.5]	37.3	[23.0-46.6]	[34.6-35.3]	49.1	21.5	[34.8-38.4]	45.0	[44.4-47.1]	47.7	[31.4-58.6]	[44.6-45.7]	71.1	30.7	[45.0-51.4]	
United Kingdom	500	20.5	[20.0-21.4]	22.0	[13.9-27.1]	[20.3-20.9]	27.7	8.9	[20.5-22.1]	25.0	[24.8-25.9]	26.6	[17.7-32.3]	[24.7-25.7]	38.2	12.6	[25.0-28.0]	
emission rates from the rail section (part of the IM routing) [gCO ₂ e/ton-km]	Austria	500	17.5	[17.0-18.1]	18.2	[11.0-24.0]	[17.3-18.0]	21.3	2.2	17.5	18.7	[18.6-18.7]	19.3	[11.9-25.5]	[18.3-19.6]	25.5	2.4	18.7
	Belgium	500	17.5	[17.0-18.1]	18.1	[9.9-25.1]	[17.3-18.0]	21.2	2.4	17.5	18.6	[18.5-18.7]	19.3	[10.7-26.6]	[18.2-19.5]	25.4	2.6	18.6
	Bulgaria	500	24.8	[24.1-25.6]	25.6	[13.5-36.0]	[24.4-25.5]	30.0	2.3	24.8	26.4	[26.2-26.4]	27.3	[14.6-38.2]	[25.8-27.6]	36.0	2.4	26.4
	Croatia	269	22.9	[22.2-23.5]	23.6	[11.3-34.4]	[22.6-23.5]	27.7	2.5	22.9	24.3	[24.2-24.3]	25.1	[12.2-26.4]	[23.8-25.4]	33.1	2.6	24.3
	Czech Republic	500	17.6	[17.1-18.2]	18.4	[11.7-23.6]	[17.4-18.2]	21.4	1.9	17.6	18.9	[18.8-18.9]	19.7	[12.7-25.1]	[18.5-19.8]	25.8	2.1	18.9
	Denmark	500	19.1	[18.5-19.8]	20.0	[13.9-24.3]	[18.4-19.7]	23.1	2.4	19.1	20.5	[20.4-20.5]	21.4	[15.1-25.9]	[20.0-21.5]	27.8	2.5	20.5
	Estonia	500	19.9	[19.2-20.6]	21.0	[15.3-24.4]	[18.6-20											

c_i		S		heavy goods shipments								voluminous goods shipments							
		[-]	[-]	I	II	III	IV	V	VI	VII	VIII	I	II	III	IV	V	VI	VII	VIII
emission rates from the road-only routing (RO) [gCO ₂ e/ton-km]	Austria	500	62.2	[60.8-66.1]	70.1	[51.3-73.0]	62.2	100.1	62.2	62.2	93.8	[91.3-100.9]	102.7	[79.3-108.3]		93.8	163.3	93.8	93.8
	Belgium	500	53.8	[52.6-57.3]	61.8	[47.5-60.1]	53.8	88.5	53.8	53.8	82.7	[80.4-89.1]	91.6	[74.3-91.1]		82.7	146.2	82.7	82.7
	Bulgaria	500	60.9	[59.6-64.7]	68.9	[48.3-73.4]	60.9	98.3	60.9	60.9	92.1	[89.7-99.1]	101.0	[75.4-108.8]		92.1	160.7	92.1	92.1
	Croatia	500	60.1	[58.8-63.9]	68.0	[47.2-73.0]	60.1	97.2	60.1	60.1	91.0	[88.6-98.0]	99.9	[73.8-108.2]		91.0	159.0	91.0	91.0
	Czech Republic	500	55.1	[53.9-58.7]	63.0	[48.5-61.7]	55.1	90.2	55.1	55.1	84.3	[82.1-91.0]	93.2	[75.5-93.2]		84.3	148.6	84.3	84.3
	Denmark	500	50.2	[49.1-53.6]	58.2	[46.7-53.7]	50.2	83.4	50.2	50.2	77.8	[75.7-84.2]	86.8	[73.2-82.5]		77.8	138.7	77.8	77.8
	Estonia	500	50.1	[49.0-53.5]	58.1	[47.5-52.7]	50.1	83.2	50.1	50.1	77.7	[75.6-84.0]	86.7	[74.3-81.2]		77.7	138.5	77.7	77.7
	Finland	500	50.6	[49.1-54.5]	58.6	[48.4-52.8]	50.6	83.8	50.6	50.6	78.3	[75.7-84.9]	87.2	[75.4-81.2]		78.3	139.2	78.3	78.3
	France	500	62.1	[60.7-65.9]	70.1	[48.3-75.8]	62.1	100.0	62.1	62.1	93.7	[91.2-100.8]	102.7	[75.4-112.0]		93.7	163.3	93.7	93.7
	Germany	500	53.2	[52.1-56.9]	61.2	[46.9-59.5]	53.2	87.5	53.2	53.2	81.8	[79.8-88.5]	90.7	[73.4-90.2]		81.8	144.8	81.8	81.8
	Greece	500	61.0	[59.7-64.9]	69.0	[48.4-73.6]	61.0	98.5	61.0	61.0	92.3	[89.8-99.3]	101.2	[75.5-109.1]		92.3	161.0	92.3	92.3
	Hungary	500	54.7	[53.5-58.3]	62.7	[46.2-63.3]	54.7	89.8	54.7	54.7	83.9	[81.6-90.4]	92.9	[72.5-95.3]		83.9	148.2	83.9	83.9
	Italy	500	66.0	[64.3-70.8]	74.0	[48.8-83.3]	66.0	105.3	66.0	66.0	98.8	[95.9-106.8]	107.7	[75.8-121.7]		98.8	170.8	98.8	98.8
	Latvia	500	50.2	[49.0-53.6]	58.1	[47.5-52.9]	50.2	83.3	50.2	50.2	77.8	[75.7-84.0]	86.7	[74.2-81.4]		77.8	138.6	77.8	77.8
	Lithuania	500	50.4	[49.3-53.9]	58.4	[47.2-53.7]	50.4	83.7	50.4	50.4	78.1	[76.1-84.6]	87.1	[73.8-82.5]		78.1	139.1	78.1	78.1
	Luxembourg	500	52.8	[51.5-56.2]	60.8	[47.8-57.8]	52.8	87.1	52.8	52.8	81.4	[79.0-87.7]	90.3	[74.7-88.0]		81.4	144.2	81.4	81.4
	Netherlands	500	52.7	[51.5-56.2]	60.7	[46.6-58.7]	52.7	86.8	52.7	52.7	81.2	[79.0-87.6]	90.1	[73.1-89.2]		81.2	143.8	81.2	81.2
	Norway	500	51.2	[49.9-55.1]	59.2	[48.0-54.5]	51.2	84.7	51.2	51.2	79.1	[76.9-85.8]	88.1	[74.8-83.4]		79.1	140.5	79.1	79.1
	Poland	500	51.7	[50.6-55.3]	59.7	[46.0-57.4]	51.7	85.5	51.7	51.7	79.9	[77.8-86.4]	88.8	[72.3-87.5]		79.9	141.8	79.9	79.9
	Portugal	500	63.1	[61.8-67.1]	71.1	[48.4-77.9]	63.1	101.4	63.1	63.1	95.1	[92.6-102.3]	104.0	[75.4-114.7]		95.1	165.3	95.1	95.1
	Romania	500	55.9	[54.7-59.6]	63.9	[48.1-63.7]	55.9	91.3	55.9	55.9	85.4	[83.2-92.2]	94.3	[75.0-95.8]		85.4	150.4	85.4	85.4
	Slovakia	500	54.3	[53.1-57.9]	62.3	[48.1-60.5]	54.3	89.1	54.3	54.3	83.3	[81.1-89.9]	92.3	[75.1-91.6]		83.3	147.2	83.3	83.3
	Slovenia	500	64.0	[62.4-67.7]	72.0	[48.4-79.6]	64.0	102.8	64.0	64.0	96.3	[93.4-103.2]	105.3	[75.5-111.1]		96.3	167.5	96.3	96.3
	Spain	500	66.2	[64.7-70.2]	74.2	[49.0-83.4]	66.2	105.8	66.2	66.2	99.2	[96.5-106.5]	108.1	[76.3-122.0]		99.2	171.8	99.2	99.2
Sweden	500	50.6	[49.4-54.0]	58.6	[47.5-53.8]	50.6	84.1	50.6	50.6	78.5	[76.2-84.6]	87.5	[74.3-82.7]		78.5	139.8	78.5	78.5	
Switzerland	500	70.4	[69.0-74.7]	78.3	[51.9-88.8]	70.4	111.5	70.4	70.4	104.7	[102.2-112.6]	113.6	[80.1-129.2]		104.7	180.1	104.7	104.7	
United Kingdom	500	52.2	[50.9-56.0]	60.2	[48.0-56.5]	52.2	86.6	52.2	52.2	80.5	[78.1-87.1]	89.4	[74.8-86.1]		80.5	142.7	80.5	80.5	
emission rates from the intermodal routing (IM) [gCO ₂ e/ton-km]	Austria	495	31.4	[30.6-33.0]	34.2	[23.7-39.2]	[31.2-31.9]	44.9	19.0	[31.4-38.3]	41.2	[40.5-43.2]	44.1	[32.1-50.2]	[40.8-41.9]	65.8	27.9	[41.2-53.7]	
	Belgium	500	23.8	[23.0-24.7]	25.4	[17.1-30.4]	[23.5-24.4]	31.1	6.6	[23.8-27.3]	27.9	[27.7-28.5]	29.6	[20.7-35.0]	[27.4-28.9]	41.3	9.5	[27.9-34.4]	
	Bulgaria	500	25.6	[24.9-26.7]	27.2	[16.5-34.8]	[25.4-26.2]	33.4	7.3	[25.6-28.0]	29.9	[29.7-30.5]	31.5	[20.0-39.7]	[29.4-30.9]	44.0	10.3	[29.4-34.1]	
	Croatia	500	27.4	[26.7-28.8]	30.0	[19.7-35.1]	[27.2-27.8]	39.3	16.2	[27.4-31.4]	36.0	[35.4-37.8]	38.8	[27.1-44.9]	[35.7-36.7]	57.8	24.0	[36.0-43.3]	
	Czech Republic	426	33.4	[32.5-35.0]	36.6	[25.9-40.8]	[33.1-33.9]	47.7	18.4	[33.4-42.4]	43.6	[42.9-45.7]	47.1	[35.2-52.0]	[43.2-44.5]	69.9	27.5	[43.6-60.2]	
	Denmark	500	24.4	[23.7-25.6]	26.6	[20.0-28.8]	[24.2-25.0]	33.1	10.0	[24.2-28.1]	30.0	[29.7-31.0]	32.3	[25.2-34.8]	[29.6-31.0]	45.8	14.5	[30.0-36.8]	
	Estonia	500	24.0	[23.2-25.1]	26.0	[20.2-27.9]	[23.7-24.7]	31.6	6.4	[24.0-28.1]	28.4	[28.2-29.1]	30.4	[24.3-32.5]	[27.9-29.5]	42.2	9.4	[24.4-32.4]	
	Finland	500	22.3	[21.5-23.2]	24.1	[18.8-25.7]	[22.0-22.9]	29.3	6.2	[22.3-24.1]	26.4	[26.1-27.0]	28.3	[22.6-30.1]	[25.9-27.4]	39.3	9.0	[26.4-29.8]	
	France	500	20.5	[19.9-21.4]	22.1	[15.2-25.8]	[20.3-20.9]	27.9	8.6	[20.3-20.9]	25.2	[24.9-26.1]	27.0	[19.4-31.0]	[24.9-26.0]	38.8	12.4	[25.2-29.8]	
	Germany	500	27.3	[26.5-28.6]	29.7	[20.4-34.2]	[27.1-27.9]	37.5	11.1	[27.3-32.9]	33.9	[33.6-35.2]	36.5	[26.4-41.5]	[33.5-34.9]	52.5	16.5	[33.9-44.1]	
	Greece	500	32.7	[31.8-33.9]	34.4	[17.5-47.8]	[32.4-33.4]	42.5	9.6	[32.7-34.5]	38.0	[37.7-38.8]	39.8	[21.7-54.3]	[37.4-39.2]	55.9	13.4	[38.0-41.3]	
	Hungary	500	24.1	[23.4-25.4]	26.7	[19.6-28.7]	[24.0-24.5]	34.9	13.5	[24.1-29.5]	31.9	[31.3-33.4]	34.7	[26.7-37.0]	[31.3-32.5]	51.5	20.4	[31.9-41.7]	
	Italy	500	24.8	[24.0-25.9]	26.3	[14.5-35.1]	[24.6-25.4]	32.6	8.5	[24.8-27.5]	29.2	[28.9-30.1]	30.8	[18.2-40.3]	[28.8-30.2]	43.4	11.8	[29.2-34.2]	
	Latvia	500	25.8	[24.9-26.9]	27.9	[21.5-30.1]	[25.4-26.5]	34.1	7.3	[25.8-28.4]	30.6	[30.4-31.4]	32.8	[26.0-35.3]	[30.1-31.8]	45.8	10.7	[30.6-35.5]	
	Lithuania	500	26.4	[25.5-27.6]	28.5	[21.7-31.1]	[26.0-27.1]	34.6	6.9	[26.4-29.4]	31.1	[30.9-31.9]	33.3	[26.1-36.2]	[30.6-32.4]	46.3	10.1	[31.1-36.8]	
	Luxembourg	500	21.7	[21.0-22.6]	23.2	[15.2-28.1]	[21.4-22.2]	28.2	5.8	[21.7-25.2]	25.3	[25.1-25.8]	26.9	[18.3-32.2]	[24.8-26.3]	37.3	8.2	[25.3-31.8]	
	Netherlands	500	24.4	[23.6-25.4]	26.3	[18.1-30.6]	[24.1-25.0]	32.3	7.3	[24.8-28.3]	29.1	[28.8-29.8]	31.1	[22.4-35.8]	[28.6-30.1]	43.7	10.7	[29.1-36.3]	
	Norway	500	23.7	[23.2-24.7]	25.7	[19.4-28.0]	[23.6-24.0]	32.6	16.6	[23.7-26.0]	30.3	[29.8-31.6]	32.5	[25.2-35.3]	[30.0-30.8]	46.6	22.6	[30.3-34.5]	
	Poland	495	31.6	[30.7-33.2]	34.6	[25.5-37.8]	[31.3-32.3]	43.8	13.0	[33.6-37.2]	39.7	[39.2-41.2]	42.9	[32.9-46.5]	[39.2-40.9]	61.9	19.6	[39.7-49.9]	
	Portugal	500	15.2	[14.7-15.8]	16.2	[11.8-19.5]	[15.0-15.6]	19.7	4.8	[15.2-16.4]	17.7	[17.6-18.1]	19.8	[13.1-22.3]	[17.4-18.4]	26.1	6.5	[17.7-20.0]	
	Romania	500	23.1	[22.5-24.2]	25.1	[17.3-29.0]	[22.9-23.6]	31.8	10.4	[23.1-26.3]	28.8	[28.5-29.9]	30.9	[22.3-35.4]	[28.5-29.6]	44.1	15.2	[28.8-34.7]	
	Slovakia	497	34.3	[33.5-36.1]	37.7	[26.1-42.6]	[34.1-34.8]	49.8	21.2	[34.3-41.8]	45.7	[44.9-48.1]	49.4	[35.9-55.5]	[45.4-46.5]	74.1	31.7	[45.7-59.5]	
	Slovenia	500	24.3	[23.6-25.4]	26.3	[17.4-31.2]	[24.1-24.8]	33.6	11.3	[24.3-29.6]	30.4	[30.0-31.5]	32.6	[22.8-38.0]	[30.1-31.2]	47.4	16.5	[30.4-40.1]	
	Spain	500	16.0	[15.6-16.7]	17.1	[11.5-20.5]	[15.9-16.4]	21.2	5.9	[16.0-17.5]	19.1	[18.9-19.6]	20.3	[14.2-23.9]	[18.8-19.7]	28.6	8.2	[19.1-21.8]	
Sweden	500	23.6	[23.0-24.5]	25.5	[20.0-27.2]	[23.4-23.9]	31.3	14.7	[23.6-26.5]	29.0	[28.6-30.0]	31.0	[25.0-32.9]	[28.7-29.5]	43.0	19.3	[29.0-34.3]		
Switzerland	500	32.5	[31.7-33.9]	34.7	[21.9-43.1]	[32.2-33.1]	44.3	15.4	[32.5-35.9]	40.3	[39.8-41.8]	42.6	[28.3-52.2]	[39.8-41.3]	61.8	22.0	[40.3-46.4]		
United Kingdom	500	22.1	[21.4-23.0]	23.7	[16.3-27.8]	[21.8-22.6]	29.2	7.0	[22.1-24.2]	26.3	[26.1-27.0]	28.0	[20.0-32.6]	[25.9-27.2]	39.4	10.1	[26.3-30.1]		
emission rates from the rail section (part of the IM routing) [gCO ₂ e/ton-km]	Austria	495	18.6	[18.0-19.2]	19.4	[12.8-24.3]	[18.3-19.2]	22.6	1.8	18.6	19.9	[19.8-19.9]	20.8	[13.9-25.9]	[19.4-20.9]	27.2	1.9	19.9	
	Belgium	500	20.7	[20.0-21.4]	21.7	[14.1-27.3]	[20.4-21.3]	25.1	1.7	20.7	22.1	[22.0-22.2]	23.1	[15.3-29.0]	[16.2-23.3]	30.3	1.8	22.1	
	Bulgaria	500	22.3	[21.6-23.0]	23.1	[13.3-31.2]	[22.0-22.9]	27.0	2.0	22.3	23.8	[23.6-23.8]	24.6	[14.4-33.1]	[23.3-24.9]	32.5	2.1	23.8	
	Croatia	500	16.6	[16.1-17.2]	17.3	[10.4-22.8]	[16.3-17.1]	20.2	1.8	16.6	17.8	[17.7-17.8]	18.5	[11.3-24.3]	[17.4-18.7]	24.3	2.0	17.8	
	Czech Republic	426	23.9	[23.1-24.7]	25.0	[16.1-31.6]	[23.5-24.6]	29.0	1.8	23.9	25.6	[25.4-25.6]	26.7	[17.5-33.6]	[25.0-26.9]	34.9	1.9	25.6	
	Denmark	500	19.8	[19.2-20.5]	20.8	[15.5-24.0]	[19.5-20.4]	23.8	2.6	19.8	21.3	[21.1-21.3]	22.3	[16.8-25.7]	[20.8-22.4]	28.7	2.8	21.3	
	Estonia	500	21.1	[20.3-21.9]	22.3	[17.3-24.9]	[20.7-21.8]	25.7	1.4</										

c_i	[S]	heavy goods shipments								voluminous goods shipments								
		I	II	III	IV	V	VI	VII	VIII	I	II	III	IV	V	VI	VII	VIII	
emission rates from the road-only routing (RO) [gCO ₂ e/ton-km]																		
Austria	500	55.8	[54.5-59.4]	63.8	[51.2-60.5]	55.8	91.3	55.8	55.8	85.4	[83.0-92.0]	94.3	[79.2-91.6]	85.4	150.3	85.4	85.4	
Belgium	500	50.8	[49.6-54.3]	58.8	[49.3-52.3]	50.8	84.2	50.8	50.8	78.6	[76.5-85.0]	87.6	[76.6-80.6]	87.6	139.9	78.6	78.6	
Bulgaria	500	58.2	[56.9-62.0]	66.2	[49.2-67.1]	58.2	94.5	58.2	58.2	88.4	[86.2-95.4]	97.4	[76.5-100.4]	88.4	155.1	88.4	88.4	
Croatia	500	59.4	[58.2-63.3]	67.4	[49.1-69.8]	59.4	96.3	59.4	59.4	90.1	[87.8-97.1]	99.1	[76.3-103.9]	90.1	157.7	90.1	90.1	
Czech Republic	500	53.2	[52.0-56.7]	61.2	[50.6-55.9]	53.2	87.7	53.2	53.2	81.9	[79.6-88.3]	90.9	[78.4-85.5]	81.9	145.0	81.9	81.9	
Denmark	500	49.9	[48.7-53.3]	57.9	[48.7-51.1]	49.9	82.9	49.9	49.9	77.4	[75.2-83.7]	86.4	[75.8-79.0]	77.4	138.0	77.4	77.4	
Estonia	500	50.3	[49.2-53.7]	58.2	[48.7-51.8]	50.3	83.5	50.3	50.3	77.9	[75.9-84.3]	86.8	[75.8-80.0]	77.9	138.8	77.9	77.9	
Finland	500	51.5	[50.5-55.6]	59.5	[49.4-53.6]	51.5	85.0	51.5	51.5	79.4	[77.0-86.4]	88.4	[76.6-82.2]	79.4	140.8	79.4	79.4	
France	500	55.0	[53.7-58.6]	63.0	[49.5-60.6]	55.0	90.2	55.0	55.0	84.3	[81.9-90.8]	93.3	[77.0-91.7]	84.3	148.8	84.3	84.3	
Germany	500	51.8	[50.6-55.4]	59.7	[49.7-53.8]	51.8	85.5	51.8	51.8	79.9	[77.8-86.5]	88.8	[77.1-82.6]	79.9	141.7	79.9	79.9	
Greece	500	61.8	[60.5-65.8]	69.8	[49.1-74.6]	61.8	99.6	61.8	61.8	93.3	[91.0-100.5]	102.2	[76.4-110.2]	93.3	162.6	93.3	93.3	
Hungary	500	55.2	[54.0-58.9]	63.2	[48.9-61.4]	55.2	90.3	55.2	55.2	84.5	[82.3-91.2]	93.4	[76.1-92.8]	84.5	148.9	84.5	84.5	
Italy	500	61.4	[59.8-65.8]	69.4	[49.8-73.0]	61.4	98.9	61.4	61.4	92.7	[90.0-100.2]	101.6	[77.2-108.1]	92.7	161.4	92.7	92.7	
Latvia	500	50.0	[48.9-53.4]	58.0	[48.8-51.2]	50.0	83.1	50.0	50.0	77.6	[75.5-83.9]	86.5	[76.0-79.2]	77.6	138.3	77.6	77.6	
Lithuania	500	49.6	[48.4-53.0]	57.6	[49.0-50.2]	49.6	82.5	49.6	49.6	77.0	[74.9-83.2]	86.0	[76.2-77.9]	77.0	137.5	77.0	77.0	
Luxembourg	500	52.6	[51.3-56.1]	60.6	[50.0-55.2]	52.6	86.8	52.6	52.6	81.1	[78.7-87.4]	90.0	[77.6-84.6]	81.1	143.8	81.1	81.1	
Netherlands	500	49.6	[48.4-53.1]	57.6	[48.6-50.6]	49.6	82.5	49.6	49.6	77.0	[74.9-83.3]	85.9	[75.7-78.3]	77.0	137.7	77.0	77.0	
Norway	500	55.2	[53.1-61.1]	63.2	[51.2-59.3]	55.2	89.7	55.2	55.2	83.9	[80.8-92.8]	92.9	[78.6-89.3]	83.9	147.0	83.9	83.9	
Poland	500	50.6	[49.4-54.0]	58.6	[49.2-52.0]	50.6	83.9	50.6	50.6	78.4	[76.2-84.7]	87.3	[76.5-80.2]	78.4	139.5	78.4	78.4	
Portugal	500	54.2	[52.9-57.7]	62.2	[49.1-59.3]	54.2	89.0	54.2	54.2	83.2	[80.8-89.6]	92.1	[76.5-95.0]	83.2	147.1	83.2	83.2	
Romania	500	56.5	[55.2-60.1]	64.5	[49.4-63.6]	56.5	92.2	56.5	56.5	86.2	[83.9-92.9]	95.2	[77.6-95.7]	86.2	151.7	86.2	86.2	
Slovakia	500	53.5	[52.5-57.0]	61.5	[50.0-57.0]	53.5	88.0	53.5	53.5	82.2	[79.9-88.7]	91.2	[77.6-86.9]	82.2	145.5	82.2	82.2	
Slovenia	500	59.3	[58.0-63.1]	67.3	[49.7-68.9]	59.3	96.1	59.3	59.3	89.9	[87.6-96.9]	98.9	[77.1-102.7]	89.9	157.4	89.9	89.9	
Spain	500	55.8	[54.5-59.4]	63.8	[49.6-62.0]	55.8	91.3	55.8	55.8	85.4	[83.0-92.0]	94.3	[76.1-93.6]	85.4	150.3	85.4	85.4	
Sweden	500	51.5	[50.2-55.0]	59.5	[49.3-53.7]	51.5	85.2	51.5	51.5	79.5	[77.2-85.9]	88.5	[76.6-82.5]	79.5	141.3	79.5	79.5	
Switzerland	500	58.6	[57.4-62.5]	66.6	[51.8-65.4]	58.6	95.2	58.6	58.6	89.1	[86.8-96.1]	98.0	[80.0-98.1]	89.1	156.0	89.1	89.1	
United Kingdom	500	50.2	[48.8-53.9]	58.2	[49.2-51.1]	50.2	83.2	50.2	50.2	77.7	[75.4-84.3]	86.7	[76.5-79.0]	77.7	138.4	77.7	77.7	
emission rates from the intermodal routing (IM) [gCO ₂ e/ton-km]																		
Austria	500	26.8	[26.0-28.0]	28.8	[22.3-31.4]	26.8	[26.6-27.4]	36.0	11.5	[26.8-29.7]	32.7	[32.4-33.8]	34.8	[27.6-37.8]	49.6	16.2	[32.7-37.9]	
Belgium	500	21.6	[20.9-22.6]	23.5	[19.2-24.0]	21.6	[21.4-22.1]	29.3	8.2	[21.6-25.2]	26.5	[26.2-27.4]	28.5	[24.0-29.0]	40.6	12.1	[26.5-33.1]	
Bulgaria	500	24.8	[24.1-25.8]	26.3	[17.8-31.9]	24.8	[26.2-25.5]	31.9	6.6	[24.8-26.4]	28.6	[28.4-29.1]	30.1	[21.1-36.0]	41.6	9.0	[28.6-31.4]	
Croatia	500	25.4	[24.7-26.5]	27.4	[19.7-31.0]	25.4	[25.1-25.9]	34.2	10.7	[25.4-27.5]	31.0	[30.7-32.1]	33.1	[24.8-37.5]	47.3	15.3	[31.0-34.9]	
Czech Republic	500	27.3	[26.6-28.6]	29.5	[23.8-30.9]	27.3	[27.1-27.9]	36.8	11.5	[27.3-31.0]	33.5	[33.1-34.6]	35.8	[29.7-37.3]	50.9	16.5	[33.5-40.3]	
Denmark	175	29.7	[29.0-31.4]	33.6	[28.8-30.6]	29.7	[29.6-29.9]	45.5	25.1	[29.7-40.0]	42.3	[41.4-45.1]	46.6	[41.2-43.4]	42.2-42.7]	71.3	37.4	[42.3-61.2]
Estonia	500	23.3	[22.5-24.3]	25.2	[21.2-25.3]	23.3	[23.0-23.9]	30.5	6.8	[23.3-25.1]	27.5	[27.3-28.2]	29.5	[25.3-29.7]	40.7	9.7	[27.5-30.8]	
Finland	500	21.8	[21.1-22.8]	23.6	[19.9-23.8]	21.8	[21.5-22.4]	28.7	6.6	[21.8-23.4]	25.9	[25.7-26.5]	27.8	[23.8-28.0]	38.6	9.4	[25.9-30.8]	
France	500	19.3	[18.7-20.2]	21.0	[16.5-22.1]	19.3	[19.1-19.7]	26.8	9.2	[19.3-21.5]	24.3	[24.0-25.3]	26.2	[21.2-27.4]	38.1	13.5	[24.3-28.5]	
Germany	487	26.7	[25.9-27.9]	29.2	[24.2-29.1]	26.7	[26.4-27.1]	37.2	14.2	[26.7-31.7]	34.0	[33.5-35.5]	36.7	[31.3-36.7]	53.2	20.6	[34.0-43.3]	
Greece	500	30.0	[29.1-31.1]	31.6	[18.2-41.7]	30.0	[29.7-30.7]	38.5	8.1	[30.0-31.3]	34.5	[34.3-35.2]	36.1	[21.9-47.0]	50.1	11.2	[34.5-36.9]	
Hungary	500	23.6	[22.9-24.6]	25.5	[19.8-27.3]	23.6	[23.3-24.1]	31.5	8.9	[23.6-26.0]	28.5	[28.3-29.4]	30.6	[24.6-32.5]	43.1	12.7	[28.5-33.0]	
Italy	500	26.5	[25.7-27.6]	28.0	[17.0-35.9]	26.5	[26.2-27.1]	34.0	7.9	[26.5-28.3]	30.5	[30.2-31.2]	32.0	[20.5-40.4]	44.3	10.6	[30.5-33.8]	
Latvia	500	24.5	[23.7-25.6]	26.5	[22.4-26.6]	24.5	[24.2-25.2]	32.7	7.6	[24.5-26.6]	29.2	[29.0-29.9]	31.3	[26.9-31.4]	43.5	10.9	[29.2-33.0]	
Lithuania	500	24.9	[24.1-26.0]	26.9	[22.7-27.1]	24.9	[24.6-25.6]	32.6	7.4	[24.9-27.2]	29.4	[29.2-30.1]	31.5	[27.1-31.7]	43.6	10.5	[29.4-33.7]	
Luxembourg	500	20.3	[19.7-21.2]	21.9	[17.2-23.4]	20.3	[20.1-20.9]	27.0	6.5	[20.3-23.5]	24.3	[24.1-24.9]	26.0	[21.0-27.6]	36.5	9.4	[24.3-30.0]	
Netherlands	500	22.1	[21.4-23.2]	24.3	[20.5-23.7]	22.1	[21.9-22.6]	30.7	9.5	[22.1-26.3]	27.9	[27.5-28.9]	30.2	[26.2-29.5]	43.6	14.2	[27.9-35.6]	
Norway	500	21.3	[20.9-22.7]	24.1	[18.5-24.2]	21.3	[21.3-21.4]	33.7	20.2	[21.3-24.9]	31.4	[30.7-33.7]	34.5	[27.8-35.1]	54.1	30.2	[31.4-37.9]	
Poland	500	27.7	[26.9-29.0]	30.2	[25.6-29.9]	27.7	[27.4-28.4]	37.5	11.0	[27.7-31.1]	34.1	[33.7-35.2]	36.7	[31.7-36.4]	52.0	16.0	[34.1-40.2]	
Portugal	500	14.6	[14.2-15.2]	15.7	[11.6-17.6]	14.6	[14.4-15.0]	19.4	5.3	[14.6-15.9]	17.4	[17.3-17.9]	18.6	[14.2-20.6]	26.2	7.5	[17.4-19.8]	
Romania	500	23.2	[22.5-24.2]	24.8	[18.4-27.9]	23.2	[23.0-23.7]	30.6	8.1	[23.2-25.0]	27.6	[27.4-28.3]	29.4	[22.4-32.7]	41.1	11.4	[27.6-31.0]	
Slovakia	500	28.5	[27.9-29.8]	30.8	[24.6-32.4]	28.5	[28.2-29.2]	38.4	11.3	[28.5-31.4]	34.8	[34.4-35.9]	37.2	[30.4-39.9]	52.8	16.3	[34.8-40.0]	
Slovenia	500	23.7	[23.0-24.7]	25.4	[18.8-28.7]	23.7	[23.5-24.3]	31.0	7.9	[23.7-26.2]	28.0	[27.8-28.7]	29.7	[22.7-33.2]	41.4	11.0	[28.0-32.4]	
Spain	500	15.4	[14.9-16.0]	16.5	[12.5-18.2]	15.4	[15.2-15.7]	20.6	6.3	[15.4-16.8]	18.6	[18.4-19.2]	19.9	[15.6-21.7]	28.3	8.9	[18.6-21.3]	
Sweden	500	19.9	[19.4-21.2]	22.7	[19.1-20.8]	19.9	[20.0-21.1]	21.6	18.0	[19.9-25.5]	29.3	[28.8-31.4]	32.4	[28.3-30.4]	50.7	27.3	[29.3-39.5]	
Switzerland	500	30.9	[30.1-32.2]	32.9	[22.5-39.3]	30.9	[30.6-31.5]	41.4	12.9	[30.9-33.4]	37.6	[37.2-38.8]	39.7	[28.3-46.8]	56.9	18.2	[37.6-42.2]	
United Kingdom	500	21.0	[20.4-22.0]	22.8	[17.7-24.3]	21.0	[20.8-21.5]	28.6	8.3	[21.0-23.2]	25.9	[25.6-26.7]	27.8	[22.2-29.5]	39.7	12.2	[25.9-29.8]	
emission rates from the rail section (part of the IM routing) [gCO ₂ e/ton-km]																		
Austria	500	20.4	[19.7-21.1]	21.4	[16.4-24.4]	20.4	[20.1-21.1]	24.6	2.5	20.4	21.8	[21.7-21.9]	22.8	[17.7-26.0]	29.5	2.6	21.8	
Belgium	500	16.9	[16.3-17.5]	17.8	[14.4-19.4]	16.9	[16.6-17.5]	20.5	1.4	16.9	18.2	[18.1-18.2]	19.1	[15.6-20.8]	24.9	1.5	18.2	
Bulgaria	500	22.1	[21.4-22.8]	23.0	[14.9-29.3]	22.1	[21.8-22.8]	26.7	2.3	22.1	23.6	[23.5-23.7]	24.6	[16.1-31.1]	32.1	2.4	23.6	
Croatia	500	19.7	[19.0-20.3]	20.6	[14.4-24.9]	19.7	[19.4-20.3]	23.7	2.4	19.7	21.0	[20.9-21.1]	22.0	[15.6-26.5]	28.5	2.5	21.0	
Czech Republic	500	21.7	[21.0-22.5]	22.8	[17.9-25.5]	21.7	[21.4-22.4]	26.1	2.9	21.7	23.3	[23.1-23.3]	24.3	[19.3-27.3]	31.4	3.0	23.3	
Denmark	175	13.3	[13.0-13.7]	13.9	[12.5-14.2]	13.9	[13.2-13.7]	15.4	4.9	13.3	14.1	[14.0-14.1]	14.7	[13.2-15.0]	18.0	5.0	14.1	
Estonia	500	20.3	[19.5-21.0]	21.5	[18.1-22.4]	20.3	[19.9-21.0]	24.6	1.9	20.3	21.8	[21.7-21.9]	23.0	[19.6-24.1]	29.7	2.0	21.8	
Finland	500	18.7	[18.1-19.5]	19.8	[16.7-20.7]	18.7	[18.4-19.4]	22.8	1.8	18.7	20.2	[20.1-20.2]	21.3	[18.2-22.3]	27.6	1.9	20.2	

c_i	S	heavy goods shipments								voluminous goods shipments							
		I	II	III	IV	V	VI	VII	VIII	I	II	III	IV	V	VI	VII	VIII
emission rates from the road-only routing (RO) [gCO ₂ e/ton-km]																	
Austria	500	53.9	[52.6-57.4]	61.9	[50.3-57.5]	53.9	88.6	53.9	53.9	82.8	[80.4-89.2]	91.8	[78.0-87.7]	82.8	146.5	82.8	82.8
Belgium	500	51.1	[50.0-54.6]	59.1	[48.8-53.4]	51.1	84.7	51.1	51.1	79.1	[77.0-85.4]	88.0	[76.0-82.1]	79.1	140.6	79.1	79.1
Bulgaria	500	54.5	[53.2-58.0]	62.5	[49.3-59.8]	54.5	89.5	54.5	54.5	83.6	[81.3-90.1]	92.6	[76.6-90.7]	83.6	147.7	83.6	83.6
Croatia	500	56.4	[55.2-61.1]	64.4	[48.9-63.9]	56.4	92.1	56.4	56.4	86.1	[83.8-92.9]	95.1	[76.1-96.1]	86.1	151.5	86.1	86.1
Czech Republic	500	51.9	[50.7-55.3]	59.9	[49.8-54.0]	51.9	85.7	51.9	51.9	80.1	[77.9-86.4]	89.0	[77.3-82.9]	80.1	142.2	80.1	80.1
Denmark	500	49.7	[48.5-53.1]	57.7	[48.6-50.9]	49.7	82.7	49.7	49.7	79.7	[77.5-83.4]	86.1	[75.1-83.4]	77.2	137.7	77.2	77.2
Estonia	500	50.0	[48.8-53.4]	58.0	[48.7-51.3]	50.0	83.2	50.0	50.0	77.6	[75.5-83.8]	86.6	[75.9-79.4]	77.6	138.4	77.6	77.6
Finland	500	53.1	[50.7-59.6]	61.1	[51.5-54.7]	53.1	86.5	53.1	53.1	80.9	[77.6-90.3]	89.9	[78.8-83.1]	80.9	142.1	80.9	80.9
France	500	54.7	[53.4-58.2]	62.7	[49.1-60.3]	54.7	89.7	54.7	54.7	83.8	[81.5-90.4]	92.8	[76.4-91.3]	83.8	148.0	83.8	83.8
Germany	500	51.0	[49.9-54.5]	58.9	[49.0-53.0]	51.0	84.4	51.0	51.0	78.8	[76.9-85.3]	87.8	[76.2-81.5]	78.8	140.2	78.8	78.8
Greece	500	57.4	[56.2-61.2]	65.4	[49.1-65.8]	57.4	93.4	57.4	57.4	87.4	[85.2-94.3]	96.4	[76.3-98.5]	87.4	153.5	87.4	87.4
Hungary	500	52.8	[51.6-56.3]	60.8	[48.9-56.7]	52.8	87.0	52.8	52.8	81.3	[79.1-87.7]	90.3	[76.2-86.5]	81.3	144.1	81.3	81.3
Italy	500	59.1	[57.5-63.1]	67.1	[49.6-68.6]	59.1	95.8	59.1	59.1	89.6	[86.9-96.7]	98.6	[77.0-102.3]	89.6	156.8	89.6	89.6
Latvia	500	50.3	[49.2-53.8]	58.3	[49.1-51.6]	50.3	83.6	50.3	50.3	78.0	[75.9-84.3]	87.0	[76.4-79.7]	78.0	139.0	78.0	78.0
Lithuania	500	50.1	[49.1-53.6]	58.1	[48.9-51.4]	50.1	83.3	50.1	50.1	77.7	[75.8-84.2]	86.7	[76.1-79.4]	77.7	138.5	77.7	77.7
Luxembourg	500	52.2	[51.0-55.7]	60.2	[49.1-55.3]	52.2	86.2	52.2	52.2	80.5	[78.4-87.0]	89.4	[76.4-84.6]	80.5	142.8	80.5	80.5
Netherlands	500	50.2	[48.9-53.5]	58.2	[48.7-51.7]	50.2	83.4	50.2	50.2	77.9	[75.5-83.9]	86.8	[75.9-79.9]	77.9	138.8	77.9	77.9
Norway	500	50.9	[49.1-55.5]	58.9	[50.0-51.8]	50.9	84.0	50.9	50.9	78.4	[75.6-85.9]	87.4	[77.2-79.7]	78.4	139.1	78.4	78.4
Poland	500	50.5	[49.4-54.0]	58.5	[49.1-52.0]	50.5	83.9	50.5	50.5	78.3	[76.2-84.6]	87.3	[76.4-80.3]	78.3	139.4	78.3	78.3
Portugal	500	58.1	[56.8-61.8]	66.1	[48.9-67.3]	58.1	94.5	58.1	58.1	88.4	[86.0-95.2]	97.3	[76.2-100.6]	88.4	155.1	88.4	88.4
Romania	500	53.5	[52.3-57.0]	61.5	[49.2-57.7]	53.5	88.0	53.5	53.5	82.2	[80.0-88.8]	91.2	[76.6-87.9]	82.2	145.4	82.2	82.2
Slovakia	500	51.9	[50.8-55.4]	59.9	[49.6-54.3]	51.9	85.8	51.9	51.9	80.2	[78.0-86.6]	89.1	[77.0-83.3]	80.2	142.3	80.2	80.2
Slovenia	500	54.6	[53.4-58.2]	62.6	[49.3-59.8]	54.6	89.5	54.6	54.6	83.7	[81.4-90.3]	92.6	[76.7-90.6]	83.7	147.7	83.7	83.7
Spain	500	58.9	[57.7-62.8]	66.9	[49.2-68.6]	58.9	95.5	58.9	58.9	89.4	[87.2-96.5]	98.4	[76.5-102.4]	89.4	156.6	89.4	89.4
Sweden	500	51.1	[49.2-56.2]	59.1	[50.1-52.2]	51.1	84.1	51.1	51.1	78.6	[75.8-86.5]	87.6	[77.2-80.0]	78.6	139.2	78.6	78.6
Switzerland	500	54.4	[53.2-58.0]	62.3	[50.4-58.4]	54.4	89.2	54.4	54.4	83.4	[81.3-90.1]	92.3	[78.1-88.7]	83.4	147.2	83.4	83.4
United Kingdom	500	50.4	[49.2-54.1]	58.4	[48.8-52.0]	50.4	83.6	50.4	50.4	78.1	[76.0-84.6]	87.0	[75.9-80.2]	78.1	138.9	78.1	78.1
emission rates from the intermodal routing (IM) [gCO ₂ e/ton-km]																	
Austria	500	25.6	[24.8-26.7]	27.4	[21.4-29.8]	[25.3-26.3]	33.7	7.9	[25.6-27.6]	30.3	[30.1-31.1]	32.3	[25.7-34.9]	[29.8-31.5]	45.2	11.4	[30.3-33.9]
Belgium	500	22.1	[21.3-23.0]	23.7	[19.2-24.9]	[21.8-22.7]	28.3	4.6	[22.1-23.7]	25.3	[25.2-25.8]	27.0	[22.3-28.4]	[24.8-26.5]	36.8	6.5	[25.3-28.4]
Bulgaria	500	25.9	[25.1-26.9]	27.4	[19.1-32.6]	[25.6-26.6]	33.1	5.7	[25.9-27.2]	29.5	[29.4-30.0]	31.1	[22.4-30.7]	[29.0-31.7]	42.8	7.9	[29.5-31.9]
Croatia	500	25.0	[24.2-26.1]	26.9	[20.2-29.8]	[24.7-25.6]	33.3	8.5	[25.0-26.7]	30.1	[29.8-30.9]	32.1	[24.8-35.4]	[29.6-31.1]	45.4	12.3	[30.1-33.1]
Czech Republic	500	25.3	[24.4-26.4]	27.2	[21.9-28.6]	[24.9-25.9]	33.1	6.9	[25.3-27.4]	29.7	[29.5-30.4]	31.7	[26.2-33.3]	[29.2-30.9]	44.1	9.9	[29.1-33.4]
Denmark	500	23.0	[22.2-24.0]	24.8	[20.8-25.1]	[24.7-23.6]	30.1	6.7	[23.0-24.8]	27.1	[26.9-27.7]	29.1	[24.8-29.4]	[26.6-28.2]	40.1	9.5	[27.1-30.7]
Estonia	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Finland	500	28.9	[28.2-30.8]	33.2	[27.7-30.1]	[28.9-29.1]	46.5	25.8	[28.9-37.6]	43.2	[42.1-46.4]	47.9	[41.7-47.4]	[43.1-43.4]	75.4	39.8	[43.2-59.0]
France	500	20.8	[20.2-21.8]	22.4	[17.8-23.8]	[20.6-21.4]	27.3	6.0	[20.8-22.1]	24.6	[24.4-25.2]	26.3	[21.4-27.8]	[24.2-25.6]	36.5	8.6	[24.6-27.0]
Germany	500	23.4	[22.7-25.3]	25.2	[20.5-26.2]	[23.1-24.0]	30.5	6.0	[23.4-25.3]	27.5	[27.3-28.1]	29.4	[24.4-30.5]	[26.9-28.6]	40.6	8.6	[27.5-31.0]
Greece	500	30.0	[29.2-31.1]	31.6	[19.3-40.8]	[29.7-30.8]	38.4	7.0	[30.0-31.2]	34.2	[34.1-34.9]	35.9	[22.8-45.7]	[33.6-35.5]	49.6	9.7	[34.2-36.3]
Hungary	500	25.0	[24.2-26.1]	26.9	[21.2-28.9]	[24.7-25.7]	32.9	6.9	[25.0-26.9]	29.5	[29.3-30.3]	31.5	[25.5-33.6]	[29.0-30.7]	44.0	10.1	[29.5-33.0]
Italy	500	23.2	[22.4-24.1]	24.6	[17.1-29.2]	[22.9-23.8]	29.7	5.7	[23.2-24.5]	26.6	[26.4-27.1]	28.1	[20.2-33.0]	[26.1-27.7]	38.6	7.8	[26.6-29.1]
Latvia	467	27.1	[26.3-28.6]	30.4	[25.6-28.7]	[26.9-27.5]	40.5	17.8	[27.1-33.3]	37.2	[36.5-39.3]	40.8	[35.5-38.9]	[36.9-37.8]	61.7	27.2	[37.2-48.5]
Lithuania	490	24.1	[23.5-25.5]	26.8	[22.6-25.6]	[23.9-24.5]	35.0	13.6	[24.1-29.3]	32.0	[31.5-33.6]	35.0	[30.3-33.7]	[31.7-32.7]	51.9	20.6	[32.0-41.5]
Luxembourg	500	21.4	[20.7-22.3]	22.9	[18.2-24.6]	[21.1-22.1]	27.2	4.1	[21.4-22.9]	24.3	[24.2-24.7]	25.9	[21.0-27.7]	[23.8-25.5]	35.0	5.6	[24.3-27.1]
Netherlands	500	22.2	[21.4-23.1]	23.9	[19.6-24.8]	[21.9-22.9]	28.6	4.8	[22.2-24.0]	25.6	[25.5-26.1]	27.4	[22.9-28.3]	[25.1-26.8]	37.4	6.8	[25.6-28.8]
Norway	500	23.0	[22.3-24.0]	24.9	[20.4-25.6]	[22.8-23.4]	30.7	11.6	[23.0-24.4]	28.2	[27.8-29.1]	30.2	[25.2-31.1]	[27.8-28.9]	42.3	15.8	[28.2-30.7]
Poland	500	24.9	[24.1-26.1]	27.2	[22.8-27.1]	[24.6-25.5]	34.1	9.5	[24.9-27.8]	30.8	[30.5-31.9]	33.3	[28.5-33.2]	[30.4-31.9]	47.6	14.2	[30.8-32.6]
Portugal	500	17.0	[16.5-17.8]	18.2	[13.9-20.2]	[16.8-17.5]	22.0	4.4	[17.0-17.9]	19.7	[19.6-20.0]	20.9	[16.4-23.0]	[19.3-20.5]	28.7	6.0	[19.7-21.0]
Romania	500	24.4	[23.7-25.5]	26.1	[19.7-29.2]	[24.1-25.1]	31.9	6.6	[24.4-26.0]	28.6	[28.4-29.2]	30.4	[23.4-33.7]	[28.1-29.7]	42.2	9.4	[28.6-31.4]
Slovakia	500	28.1	[27.2-29.3]	30.2	[23.7-32.5]	[27.8-28.8]	37.3	8.9	[28.1-30.3]	33.6	[33.3-34.5]	35.8	[28.7-38.5]	[33.0-34.8]	50.4	12.9	[33.6-37.7]
Slovenia	500	23.6	[22.9-24.6]	25.3	[19.5-27.7]	[23.3-24.3]	30.6	6.0	[23.6-25.5]	27.5	[27.3-28.1]	29.2	[23.1-31.8]	[27.0-28.6]	40.4	8.6	[27.5-30.9]
Spain	500	17.8	[17.3-18.6]	19.1	[14.8-20.8]	[17.6-18.3]	23.0	4.8	[17.8-18.8]	20.7	[20.6-21.1]	22.0	[17.5-23.9]	[20.3-21.5]	30.3	6.7	[20.7-22.5]
Sweden	500	22.5	[21.8-23.4]	24.2	[20.5-24.4]	[22.2-23.0]	29.2	9.6	[22.5-24.0]	26.7	[26.5-27.4]	28.5	[24.6-27.8]	[26.3-27.6]	39.1	12.7	[26.7-29.6]
Switzerland	500	26.0	[25.3-27.1]	27.7	[20.2-31.9]	[25.7-26.7]	34.1	8.1	[26.0-27.5]	30.7	[30.5-31.4]	32.5	[24.3-37.1]	[26.2-31.8]	45.4	11.4	[30.4-33.4]
United Kingdom	500	21.8	[21.1-22.7]	23.4	[18.4-25.1]	[21.5-22.4]	28.4	5.8	[21.8-23.0]	25.5	[25.4-26.1]	27.3	[21.9-29.1]	[25.1-26.6]	37.7	8.3	[25.5-27.8]
emission rates from the rail section (part of the IM routing) [gCO ₂ e/ton-km]																	
Austria	500	21.2	[20.5-22.0]	22.4	[17.4-25.0]	[20.9-22.0]	25.8	1.5	21.2	22.8	[22.7-22.9]	24.0	[18.8-26.8]	[22.2-24.1]	31.2	1.7	22.8
Belgium	500	20.1	[19.3-20.8]	21.2	[17.1-23.0]	[19.7-20.8]	24.4	1.4	20.1	21.7	[21.5-21.7]	22.8	[18.6-24.7]	[21.1-22.9]	29.7	1.5	21.7
Bulgaria	500	23.5	[22.8-24.3]	24.6	[16.7-30.4]	[23.2-24.3]	28.6	1.8	23.5	25.2	[25.0-25.2]	26.2	[18.0-32.4]	[24.6-26.5]	34.4	1.9	25.2
Croatia	500	20.4	[19.7-21.2]	21.5	[16.1-24.8]	[20.1-21.1]	24.9	1.6	20.4	22.0	[21.8-22.0]	23.1	[17.4-26.6]	[19.4-23.2]	30.1	1.7	22.0
Czech Republic	500	21.9	[21.2-22.8]	23.2	[18.5-25.3]	[21.6-22.7]	26.7	1.5	21.9	23.6	[23.5-23.7]	24.9	[20.1-27.2]	[23.0-24.9]	32.4	1.6	23.6
Denmark	500	20.1	[19.3-20.8]	21.2	[17.8-22.3]	[19.7-20.8]	24.3	2.0	20.1	21.6	[21.5-21.6]	22.8	[19.3-23.9]	[21.1-22.8]	29.4	2.1	21.6
Estonia	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Finland	500	7.6	[7.4-7.9]	8.1	[6.9-8.4]	[7.5-7.9]	9.3	1.5	7.6	8.2	[8.2-8.3]	8.7	[7.5-9.0]	[8.0-8.7]	11.3	1.6	8.2
France	500	17.7	[17.0-18.3]	18.6</													

c_i	S	heavy goods shipments								voluminous goods shipments											
		[-]	I	II	III	IV	V	VI	VII	VIII	I	II	III	IV	V	VI	VII	VIII			
			[-]																		
emission rates from the road-only routing (RO) [gCO ₂ e/ton-km]		Austria	500	53.6	[52.2-57.6]	61.6	[50.3-56.9]	53.6	88.0	53.6	82.3	[79.9-89.3]	91.2	[77.8-86.7]	82.3	145.3	82.3	82.3			
		Belgium	500	51.7	[50.3-55.6]	59.7	[49.2-54.3]	51.7	85.4	51.7	79.8	[77.3-86.5]	88.7	[76.4-83.2]	79.8	141.5	79.8	79.8			
		Bulgaria	500	54.2	[52.8-58.2]	62.2	[49.3-59.1]	54.2	88.8	54.2	83.0	[80.7-90.0]	92.0	[76.5-89.5]	83.0	146.5	83.0	83.0			
		Croatia	500	55.2	[53.7-59.1]	63.2	[49.2-61.2]	55.2	90.3	55.2	84.4	[81.8-91.3]	93.4	[76.5-92.4]	84.4	148.8	84.4	84.4			
		Czech Republic	500	52.1	[50.7-56.2]	60.1	[49.9-54.3]	52.1	85.9	52.1	80.3	[77.9-87.2]	89.2	[77.3-83.2]	80.3	142.1	80.3	80.3			
		Denmark	500	51.1	[49.5-55.3]	59.1	[49.1-53.1]	51.1	84.4	51.1	78.9	[76.3-85.9]	87.8	[76.2-81.5]	78.9	139.9	78.9	78.9			
		Estonia	500	52.4	[49.8-58.7]	60.4	[50.6-54.2]	52.4	85.5	52.4	80.0	[76.4-89.1]	88.9	[77.6-82.4]	80.0	140.7	80.0	80.0			
		Finland	500	50.2	[48.9-53.6]	58.1	[48.7-51.6]	50.2	83.4	50.2	77.8	[75.6-84.0]	86.8	[75.9-79.7]	77.8	138.7	77.8	77.8			
		France	500	55.0	[53.4-58.8]	62.9	[49.4-60.5]	55.0	90.0	55.0	84.1	[81.5-90.9]	93.1	[76.7-91.5]	84.1	148.4	84.1	84.1			
		Germany	500	51.8	[50.3-55.8]	59.8	[49.4-54.2]	51.8	85.5	51.8	79.8	[77.4-86.7]	88.8	[76.6-83.1]	79.8	141.5	79.8	79.8			
		Greece	500	57.0	[55.6-60.9]	64.9	[49.2-64.7]	57.0	92.7	57.0	87.0	[84.3-93.8]	95.7	[76.5-97.1]	86.8	152.4	86.8	86.8			
		Hungary	500	52.5	[50.9-56.3]	60.4	[49.3-55.7]	52.5	86.5	52.5	80.8	[78.1-87.4]	89.7	[76.5-85.0]	80.8	143.1	80.8	80.8			
		Italy	500	57.9	[56.2-62.2]	65.9	[49.6-66.2]	57.9	94.0	57.9	87.9	[85.2-95.3]	96.9	[76.9-98.9]	87.9	150.0	87.9	87.9			
		Latvia	500	51.5	[49.6-56.5]	59.5	[49.8-53.2]	51.5	84.7	51.5	75.9	[76.3-87.0]	88.1	[76.9-81.4]	79.1	140.0	79.1	79.1			
		Lithuania	500	51.1	[49.3-55.8]	59.1	[49.6-52.5]	51.1	84.2	51.1	78.7	[76.0-86.3]	87.6	[76.8-80.6]	78.7	139.4	78.7	78.7			
		Luxembourg	500	52.6	[51.2-56.5]	60.6	[49.4-55.8]	52.6	86.6	52.6	80.9	[78.5-87.8]	89.9	[76.7-85.2]	80.9	143.2	80.9	80.9			
		Netherlands	500	50.9	[49.5-54.8]	58.8	[48.9-52.9]	50.9	84.2	50.9	80.9	[76.2-85.4]	87.5	[75.9-81.3]	78.6	139.7	78.6	78.6			
		Norway	500	50.5	[48.9-54.8]	58.5	[49.4-51.6]	50.5	83.5	50.5	80.5	[75.5-85.1]	86.9	[76.5-79.5]	78.0	138.5	78.0	78.0			
		Poland	500	51.0	[49.5-55.2]	58.9	[49.4-52.5]	51.0	84.2	51.0	80.5	[76.3-85.8]	87.6	[76.5-80.7]	78.6	139.5	78.6	78.6			
		Portugal	500	57.7	[56.2-61.6]	65.6	[49.1-66.2]	57.7	93.8	57.7	87.7	[85.2-94.7]	96.7	[76.7-82.1]	87.7	153.9	87.7	87.7			
		Romania	500	53.2	[51.8-57.2]	61.2	[49.4-57.0]	53.2	87.4	53.2	81.7	[79.3-88.7]	90.6	[76.7-86.8]	81.7	144.4	81.7	81.7			
		Slovakia	500	52.1	[50.6-56.1]	60.1	[49.8-54.4]	52.1	85.8	52.1	80.2	[77.8-87.1]	89.1	[77.2-83.1]	80.2	142.1	80.2	80.2			
		Slovenia	500	53.9	[52.5-57.9]	61.9	[49.5-58.3]	53.9	88.4	53.9	82.7	[80.3-89.6]	91.6	[76.9-88.5]	82.7	146.0	82.7	82.7			
		Spain	500	58.2	[56.9-62.3]	66.1	[49.3-67.0]	58.2	94.4	58.2	88.3	[86.0-95.6]	97.3	[76.6-100.1]	88.3	150.7	88.3	88.3			
		Sweden	500	51.0	[49.2-55.5]	59.0	[49.5-52.5]	51.0	84.1	51.0	78.6	[75.9-85.9]	87.5	[76.6-80.6]	78.6	139.4	78.6	78.6			
		Switzerland	500	55.1	[53.7-59.1]	63.1	[50.6-59.6]	55.1	90.1	55.1	84.3	[81.8-91.3]	93.2	[78.2-90.3]	84.3	148.4	84.3	84.3			
		United Kingdom	500	51.1	[49.7-55.1]	59.0	[49.0-53.2]	51.1	84.4	51.1	78.8	[76.6-85.8]	87.8	[76.0-81.6]	78.8	139.9	78.8	78.8			
emission rates from the intermodal routing (IM) [gCO ₂ e/ton-km]		Austria	500	24.0	[23.3-25.1]	25.8	[20.1-27.9]	23.7	7.9	24.0	[24.0-25.7]	28.7	[28.4-29.5]	30.5	[24.4-32.9]	[28.2-29.7]	42.9	11.3	[28.7-31.8]		
		Belgium	500	21.0	[20.3-21.9]	22.5	[18.3-23.6]	21.0	4.8	21.0	[21.0-22.4]	24.2	[24.1-24.7]	25.8	[21.4-27.0]	[23.7-25.3]	35.4	6.8	[24.2-26.9]		
		Bulgaria	500	24.6	[23.9-25.6]	26.1	[18.4-30.8]	24.6	5.7	24.6	[24.6-25.3]	31.6	5.7	28.3	[28.1-28.8]	29.8	[21.7-34.8]	[27.7-29.4]	41.1	8.0	[28.3-30.4]
		Croatia	500	23.6	[22.9-24.7]	25.5	[19.3-28.0]	23.6	8.3	23.6	[23.6-25.1]	28.5	[28.2-29.3]	30.5	[23.7-33.3]	[28.1-29.5]	43.1	12.0	[28.5-31.2]		
		Czech Republic	500	23.7	[22.9-24.7]	25.5	[20.6-26.7]	23.7	6.0	23.7	[23.7-25.4]	28.1	[27.9-28.8]	30.0	[24.9-31.3]	[27.6-29.2]	41.9	10.1	[28.1-31.5]		
		Denmark	500	21.8	[21.1-22.8]	23.6	[19.8-23.8]	21.8	7.8	21.8	[21.8-23.4]	25.9	[25.7-26.6]	27.8	[23.8-28.0]	[25.3-26.9]	38.7	9.7	[29.7-29.8]		
		Estonia	500	29.4	[28.7-31.3]	33.7	[28.3-30.5]	29.4	26.8	29.4	[29.4-30.5]	47.3	26.8	[29.4-38.0]	44.0	[42.9-47.3]	[43.9-44.2]	76.9	41.1	[44.0-59.8]	
		Finland	335	30.6	[29.8-32.6]	35.2	[29.4-31.7]	30.6	28.4	30.6	[30.5-30.7]	49.6	28.4	[44.9-49.5]	46.1	[44.6-47.6]	[46.0-46.3]	80.9	43.7	[46.1-62.5]	
		France	500	20.3	[19.6-21.1]	21.8	[17.4-23.1]	20.3	6.2	20.3	[20.3-21.4]	24.0	[23.8-24.6]	25.7	[20.9-27.1]	[23.6-25.0]	35.9	8.9	[24.0-26.2]		
		Germany	500	22.0	[21.2-22.9]	23.7	[19.3-24.6]	22.0	5.9	22.0	[22.0-23.6]	25.8	[25.6-26.4]	27.6	[23.2-26.9]	[25.3-26.9]	38.2	8.5	[25.8-28.2]		
		Greece	500	28.8	[28.0-29.9]	30.4	[18.8-38.9]	28.8	7.2	28.8	[28.8-29.9]	33.1	[32.9-33.8]	34.8	[22.4-43.8]	[32.6-34.4]	48.3	10.0	[33.1-35.1]		
		Hungary	500	23.6	[22.8-24.6]	25.4	[20.1-27.1]	23.6	7.1	23.6	[23.6-24.2]	31.2	7.1	28.0	[27.8-28.7]	29.9	[24.3-31.7]	[27.5-29.1]	42.0	10.3	[28.0-31.1]
		Italy	500	22.3	[21.5-23.2]	23.7	[16.7-27.8]	22.3	5.9	22.3	[22.3-23.5]	25.7	[25.5-26.3]	27.2	[19.8-31.6]	[25.3-26.7]	37.6	8.1	[25.7-28.0]		
		Latvia	500	22.7	[22.1-24.0]	25.4	[21.4-24.1]	22.7	14.8	22.7	[22.7-27.2]	31.0	[30.4-32.7]	33.9	[29.5-32.5]	[30.7-31.5]	51.2	22.4	[31.0-39.1]		
		Lithuania	500	21.2	[20.6-22.4]	23.5	[19.8-22.6]	21.2	12.1	21.2	[21.2-25.0]	28.1	[27.6-29.5]	30.6	[26.6-29.6]	[27.8-28.7]	45.5	18.3	[28.1-35.1]		
		Luxembourg	500	20.5	[19.8-21.3]	21.9	[17.5-23.4]	20.5	4.3	20.5	[20.5-21.9]	23.5	[23.4-23.9]	25.0	[20.3-26.6]	[23.0-24.5]	34.0	6.1	[23.5-26.0]		
		Netherlands	500	21.1	[20.4-22.0]	22.7	[18.7-23.5]	21.1	5.0	21.1	[21.1-22.6]	24.5	[24.4-25.0]	26.2	[22.0-27.0]	[24.0-25.6]	36.0	7.2	[24.5-27.4]		
		Norway	500	22.0	[21.3-22.9]	23.8	[19.5-24.4]	22.0	11.1	22.0	[22.0-23.2]	26.9	[26.6-27.9]	28.9	[24.1-29.7]	[26.6-27.7]	40.6	15.2	[26.9-29.3]		
		Poland	500	22.7	[22.0-23.8]	24.8	[20.7-24.7]	22.7	8.9	22.7	[22.7-25.0]	28.2	[27.9-29.2]	30.4	[26.0-30.3]	[27.7-29.1]	43.5	13.3	[28.2-32.4]		
		Portugal	500	16.7	[16.2-17.4]	17.9	[13.7-19.7]	16.7	4.5	16.7	[16.7-17.6]	19.4	[19.3-19.7]	20.6	[16.2-22.5]	[19.0-20.2]	28.3	6.2	[19.4-20.9]		
		Romania	500	23.3	[22.5-24.3]	24.9	[18.9-27.6]	23.3	6.7	23.3	[23.3-24.6]	27.4	[27.2-28.1]	29.1	[22.7-32.0]	[26.9-28.4]	40.6	9.6	[27.4-29.9]		
		Slovakia	500	26.0	[25.2-27.2]	28.0	[22.1-30.0]	26.0	8.8	26.0	[26.0-28.0]	31.3	[31.1-32.3]	33.5	[27.0-35.7]	[30.9-32.4]	47.3	12.8	[31.3-34.9]		
		Slovenia	500	22.2	[21.5-23.2]	23.8	[18.5-26.0]	22.2	6.1	22.2	[22.2-23.9]	26.1	[25.9-26.7]	27.8	[22.1-30.1]	[25.6-27.1]	38.5	8.7	[26.1-29.1]		
		Spain	500	17.5	[17.0-18.3]	18.7	[14.6-20.4]	17.5	18.0	17.5	[17.5-18.4]	20.4	[20.3-20.9]	21.7	[17.4-23.5]	[20.1-21.3]	30.1	7.0	[20.4-22.1]		
		Sweden	500	21.5	[20.9-22.4]	23.2	[19.7-23.3]	21.5	9.3	21.5	[21.5-22.9]	25.6	[25.4-26.3]	27.4	[23.7-27.6]	[25.3-26.5]	37.7	12.4	[25.6-28.2]		
		Switzerland	500	24.8	[24.0-25.8]	26.4	[19.4-30.2]	24.8	32.1	24.8	[24.8-26.1]	29.3	[29.1-30.1]	31.1	[23.4-35.3]	[28.9-30.4]	43.6	11.4	[29.3-31.8]		
		United Kingdom	500	20.8	[20.2-21.8]	22.4	[17.8-23.9]	20.8	5.7	20.8	[20.8-22.0]	24.5	[24.4-25.1]	26.2	[21.2-27.9]	[24.1-25.5]	36.3	8.2	[24.5-26.6]		
emission rates from the rail section (part of the IM routing) [gCO ₂ e/ton-km]		Austria	500	19.4	[18.8-20.2]	20.5	[15.9-23.0]	19.4	1.5	19.4	[19.4-										

	c_i	S	heavy goods shipments								voluminous goods shipments							
			I	II	III	IV	V	VI	VII	VIII	I	II	III	IV	V	VI	VII	VIII
emission rates from the road-only routing (RO) [gCO ₂ e/ton-km]	Austria	500	64.5	[63.0-68.4]	72.4	[50.6-78.3]	64.5	103.4	64.5	64.5	96.9	[94.2-104.1]	105.8	[78.5-115.3]	96.9	168.2	96.9	96.9
	Belgium	500	52.6	[51.5-56.2]	60.6	[47.9-57.4]	52.6	86.8	52.6	52.6	81.1	[78.9-87.6]	90.0	[74.7-87.4]	81.1	143.7	81.1	81.1
	Bulgaria	500	61.1	[59.9-65.1]	69.1	[48.6-73.6]	61.1	98.6	61.1	61.1	92.3	[90.1-99.6]	101.2	[75.7-109.0]	92.3	161.0	92.3	92.3
	Croatia	500	65.3	[63.8-69.2]	73.2	[48.4-82.1]	65.3	104.5	65.3	65.3	97.9	[95.3-105.2]	106.9	[75.5-120.4]	97.9	169.8	97.9	97.9
	Czech Republic	500	56.6	[55.4-60.3]	64.6	[49.1-64.1]	56.6	92.4	56.6	56.6	86.4	[84.1-93.1]	95.4	[76.4-96.4]	86.4	152.0	86.4	86.4
	Denmark	500	51.3	[50.1-54.8]	59.3	[48.0-54.6]	51.3	84.9	51.3	51.3	79.3	[77.1-85.7]	88.2	[74.9-83.7]	79.3	140.9	79.3	79.3
	Estonia	500	51.9	[50.7-55.3]	59.9	[48.3-55.5]	51.9	85.8	51.9	51.9	80.2	[77.9-86.4]	89.1	[75.3-85.0]	80.2	142.3	80.2	80.2
	Finland	500	52.9	[51.4-56.7]	60.8	[48.7-57.0]	52.9	87.0	52.9	52.9	81.3	[78.8-88.0]	90.3	[75.8-86.8]	81.3	143.9	81.3	81.3
	France	500	56.0	[54.7-59.6]	64.0	[48.1-63.9]	56.0	91.5	56.0	56.0	85.6	[83.2-92.2]	94.5	[75.1-96.0]	85.6	150.6	85.6	85.6
	Germany	500	55.1	[53.9-58.8]	63.1	[48.5-61.8]	55.1	90.3	55.1	55.1	84.4	[82.2-91.1]	93.3	[75.5-93.3]	84.4	148.8	84.4	84.4
	Hungary	500	61.0	[59.7-65.0]	69.0	[48.8-73.2]	61.0	98.4	61.0	61.0	92.1	[89.8-99.5]	101.1	[75.9-108.4]	92.1	160.7	92.1	92.1
	Hungary	500	63.9	[62.5-67.8]	71.9	[48.2-79.6]	63.9	102.6	63.9	63.9	96.2	[93.6-103.3]	105.1	[75.2-117.1]	96.2	167.1	96.2	96.2
	Italy	500	64.7	[63.1-69.4]	72.6	[49.1-80.2]	64.7	103.3	64.7	64.7	96.9	[94.2-105.1]	105.8	[76.1-117.6]	96.9	167.8	96.9	96.9
	Latvia	500	52.1	[50.9-55.5]	60.1	[48.4-55.9]	52.1	86.1	52.1	52.1	80.5	[78.1-86.7]	89.4	[75.4-85.5]	80.5	142.8	80.5	80.5
	Lithuania	500	52.6	[51.3-56.0]	60.6	[48.4-56.9]	52.6	86.9	52.6	52.6	81.2	[78.7-87.4]	90.1	[75.5-86.8]	81.2	143.9	81.2	81.2
	Luxembourg	500	53.9	[52.8-57.6]	61.9	[48.8-59.1]	53.9	88.6	53.9	53.9	82.8	[80.7-89.5]	91.7	[75.9-89.7]	82.8	146.3	82.8	82.8
	Netherlands	500	51.4	[50.3-54.9]	59.4	[47.1-55.8]	51.4	85.1	51.4	51.4	79.5	[77.4-85.9]	88.4	[73.7-85.3]	79.5	141.2	79.5	79.5
	Norway	500	51.7	[50.4-55.5]	59.7	[48.5-55.0]	51.7	85.4	51.7	51.7	79.8	[77.5-86.5]	88.7	[75.5-84.1]	79.8	141.6	79.8	79.8
	Poland	500	55.6	[54.3-59.2]	63.6	[48.3-62.9]	55.6	91.0	55.6	55.6	85.1	[82.7-91.6]	94.0	[75.4-94.8]	85.1	150.0	85.1	85.1
	Portugal	500	57.8	[56.5-61.5]	65.8	[48.7-67.0]	57.8	94.1	57.8	57.8	88.0	[85.7-94.8]	97.0	[75.9-100.2]	88.0	154.5	88.0	88.0
	Romania	500	62.3	[61.0-66.2]	70.3	[48.7-76.0]	62.3	100.4	62.3	62.3	94.1	[91.5-101.1]	103.0	[75.8-112.3]	94.1	163.8	94.1	94.1
	Slovakia	500	58.0	[56.7-61.7]	66.0	[48.9-67.1]	58.0	94.3	58.0	58.0	88.3	[85.9-95.1]	97.2	[76.2-100.4]	88.3	154.8	88.3	88.3
	Slovenia	500	67.9	[66.5-72.1]	75.9	[48.7-87.0]	67.9	108.1	67.9	67.9	101.4	[98.9-109.0]	110.3	[75.9-126.9]	101.4	175.1	101.4	101.4
	Spain	500	58.9	[57.6-62.7]	66.9	[49.9-67.9]	58.9	95.5	58.9	58.9	89.4	[87.1-96.4]	98.3	[77.4-101.3]	89.4	156.5	89.4	89.4
	Sweden	500	52.2	[50.9-55.8]	60.2	[48.2-56.1]	52.2	86.1	52.2	52.2	80.4	[78.2-87.0]	89.4	[75.2-85.7]	80.4	142.6	80.4	80.4
	Switzerland	500	68.4	[67.0-72.5]	76.4	[53.6-83.2]	68.4	108.8	68.4	68.4	102.1	[99.4-109.7]	111.0	[82.3-121.8]	102.1	176.2	102.1	102.1
	United Kingdom	500	52.2	[50.7-56.1]	60.2	[48.4-56.0]	52.2	86.1	52.2	52.2	80.4	[77.9-87.2]	89.4	[75.4-85.5]	80.4	142.5	80.4	80.4
emission rates from the intermodal routing (IM) [gCO ₂ e/ton-km]	Austria	500	22.4	[21.8-23.4]	24.1	[15.7-29.0]	[22.2-22.7]	31.2	12.3	[22.4-25.1]	28.4	[28.0-29.6]	30.3	[20.9-36.0]	[28.2-29.1]	44.7	17.6	[28.4-33.5]
	Belgium	499	15.9	[15.5-16.9]	17.9	[13.4-18.4]	[15.8-16.0]	24.6	13.3	[15.9-21.2]	22.7	[22.3-24.2]	25.0	[19.7-25.8]	[22.6-23.0]	38.6	19.9	[22.7-32.5]
	Bulgaria	500	21.8	[21.2-22.7]	23.2	[13.9-29.8]	[21.6-22.3]	28.5	6.7	[21.8-23.2]	25.5	[25.3-26.1]	26.9	[17.0-34.0]	[25.1-26.4]	37.7	9.3	[25.5-28.1]
	Croatia	500	21.0	[20.4-22.0]	22.7	[12.7-29.3]	[20.8-21.3]	29.5	12.0	[21.0-23.2]	26.9	[26.5-28.0]	28.8	[17.6-36.1]	[26.6-27.4]	42.5	17.3	[26.9-31.0]
	Czech Republic	500	20.8	[20.2-21.8]	22.5	[15.7-25.9]	[20.6-21.2]	28.3	8.6	[20.8-23.2]	25.6	[25.3-26.4]	27.4	[20.0-31.1]	[25.2-26.3]	39.3	12.5	[25.6-30.0]
	Denmark	500	17.9	[17.4-18.8]	19.7	[14.8-21.1]	[17.8-18.3]	25.1	8.6	[17.9-20.2]	22.8	[22.5-23.7]	24.7	[19.3-26.2]	[22.5-23.4]	35.8	12.7	[22.8-26.9]
	Estonia	500	20.2	[19.6-21.1]	21.8	[17.0-23.4]	[20.0-20.8]	26.6	5.7	[20.2-21.5]	23.9	[23.7-24.5]	25.6	[20.5-27.4]	[23.5-24.9]	35.8	8.3	[23.0-31.2]
	Finland	500	19.5	[18.8-20.3]	21.0	[16.4-22.5]	[19.2-20.0]	25.6	5.6	[19.5-20.6]	23.0	[22.8-23.6]	24.6	[19.7-23.3]	[22.6-23.9]	34.2	8.1	[23.0-28.2]
	France	443	20.1	[19.6-21.3]	22.6	[16.8-23.3]	[20.0-20.2]	31.5	18.1	[20.1-19.9]	29.3	[28.6-31.3]	32.2	[25.2-32.4]	[29.2-29.4]	50.3	27.2	[29.3-35.1]
	Germany	499	18.3	[17.8-19.2]	20.1	[14.4-22.2]	[18.1-18.6]	26.1	10.3	[18.3-21.5]	23.8	[23.4-24.9]	25.8	[19.4-28.2]	[23.6-24.3]	38.1	15.2	[23.8-29.8]
	Greece	500	26.5	[25.8-27.5]	27.9	[14.7-38.3]	[26.2-27.1]	34.4	7.9	[26.5-27.7]	30.7	[30.5-31.5]	32.2	[18.1-43.2]	[30.3-31.8]	45.2	11.0	[30.7-33.0]
	Hungary	500	19.2	[18.6-20.1]	20.8	[13.5-24.9]	[19.0-19.6]	26.4	8.8	[19.2-21.4]	23.9	[23.6-24.8]	25.7	[17.7-30.1]	[23.6-24.6]	37.2	12.8	[23.9-27.9]
	Italy	500	19.0	[18.5-20.0]	20.5	[11.2-26.9]	[18.9-19.3]	26.3	10.4	[19.0-21.6]	23.9	[23.5-25.0]	25.5	[15.3-32.6]	[23.6-24.4]	37.3	14.6	[23.9-29.6]
	Latvia	500	20.8	[20.1-21.7]	22.5	[17.5-24.2]	[20.6-21.4]	27.5	6.2	[20.8-23.2]	24.7	[24.5-25.4]	26.5	[21.1-28.4]	[24.3-25.7]	37.0	9.0	[24.7-27.4]
	Lithuania	500	20.7	[20.0-21.6]	22.3	[17.2-24.2]	[20.5-21.3]	27.2	5.8	[20.7-22.3]	24.4	[24.3-25.0]	26.1	[20.6-28.2]	[24.0-25.4]	36.3	8.4	[24.4-27.3]
	Luxembourg	495	15.9	[15.5-16.9]	18.1	[13.3-18.6]	[15.9-16.1]	24.8	13.6	[15.9-22.7]	23.0	[22.4-24.5]	25.3	[19.7-26.3]	[22.9-23.2]	39.3	20.5	[23.0-35.3]
	Netherlands	500	16.1	[15.7-17.0]	18.1	[13.6-18.6]	[16.0-16.3]	24.1	11.4	[16.1-20.6]	22.2	[21.8-23.5]	24.3	[19.2-25.2]	[22.0-22.5]	36.9	17.1	[22.2-30.4]
	Norway	500	18.0	[17.5-18.9]	19.7	[14.7-21.3]	[17.9-18.3]	25.3	11.3	[18.0-19.6]	23.3	[22.9-24.3]	25.1	[19.4-27.1]	[23.0-23.7]	36.7	16.0	[23.3-26.1]
	Poland	500	21.3	[20.7-22.3]	23.1	[17.2-25.5]	[21.1-21.8]	28.8	7.9	[21.3-23.3]	26.0	[25.8-26.9]	28.0	[21.5-30.6]	[25.6-26.9]	39.8	11.6	[26.0-29.7]
	Portugal	500	16.8	[16.4-17.6]	18.3	[12.7-21.0]	[16.7-17.1]	23.6	9.1	[16.8-18.9]	21.5	[21.2-22.4]	23.1	[16.8-26.1]	[21.3-22.0]	33.9	13.2	[21.5-25.4]
	Romania	500	20.0	[19.4-20.8]	21.5	[13.8-26.1]	[19.8-20.4]	26.9	8.2	[20.0-21.6]	24.3	[24.1-25.1]	25.9	[17.5-31.1]	[24.0-25.0]	37.1	11.7	[24.3-27.3]
	Slovakia	500	20.2	[19.6-21.1]	21.8	[14.8-25.6]	[20.0-20.6]	27.7	9.4	[20.2-22.3]	25.2	[24.8-26.1]	26.9	[19.1-31.2]	[24.9-25.8]	39.0	13.7	[25.2-29.1]
	Slovenia	500	18.5	[18.0-19.3]	19.9	[11.0-26.0]	[18.3-18.8]	25.3	9.2	[18.5-21.1]	22.9	[22.6-23.8]	24.4	[14.7-31.1]	[22.6-23.5]	35.5	13.0	[22.9-27.7]
	Spain	500	19.0	[18.6-20.0]	20.9	[14.8-23.2]	[18.9-19.3]	27.6	12.4	[19.0-21.9]	25.3	[24.9-26.6]	27.3	[20.5-30.1]	[25.1-25.7]	41.0	18.2	[25.3-30.6]
	Sweden	500	17.2	[16.7-18.0]	18.7	[14.3-20.0]	[17.0-17.5]	23.6	9.5	[17.2-18.9]	21.6	[21.3-22.5]	23.3	[18.4-24.7]	[21.4-22.1]	33.4	13.3	[21.6-24.8]
	Switzerland	494	24.6	[24.1-26.0]	27.1	[18.6-30.7]	[24.6-24.8]	37.5	22.0	[24.6-29.2]	34.9	[34.1-37.1]	37.6	[27.4-42.4]	[34.8-35.1]	58.4	32.1	[34.9-43.0]
	United Kingdom	500	18.5	[18.0-19.5]	20.5	[15.1-21.9]	[18.4-18.8]	26.9	11.6	[18.5-21.4]	24.7	[24.2-25.9]	26.8	[20.7-28.7]	[24.2-25.2]	40.1	17.2	[24.7-30.2]
emission rates from the rail section (part of the IM routing) [gCO ₂ e/ton-km]	Austria	500	14.1	[13.7-14.6]	14.7	[8.6-19.6]	[13.9-14.5]	17.1	2.0	14.1	15.1	[15.0-15.1]	15.6	[9.3-20.8]	[14.7-15.8]	20.6	2.2	15.1
	Belgium	499	5.0	[4.8-5.1]	5.2	[3.6-6.3]	[4.9-5.1]	6.0	1.6	5.0	5.3	[5.3-5.3]	5.6	[3.9-6.7]	[5.2-5.6]	7.3	1.7	

	c_i	S	heavy goods shipments														voluminous goods shipments							
			I	II	III	IV	V	VI	VII	VIII	I	II	III	IV	V	VI	VII	VIII						
																			[]					
emission rates from the road-only routing (RO) [$gCO_2e/ton-km$]	Austria	500	61.4	[60.0-65.2]	69.3	[51.9-70.8]	61.4	99.0	61.4	61.4	92.7	[90.2-99.7]	101.7	[80.2-105.3]	92.7	161.8	92.7	92.7						
	Belgium	500	52.7	[51.5-56.2]	60.7	[48.3-57.0]	52.7	86.8	52.7	52.7	81.1	[79.0-87.6]	90.1	[75.3-86.9]	81.1	143.8	81.1	81.1						
	Bulgaria	500	62.1	[60.9-66.1]	70.1	[48.9-75.4]	62.1	100.0	62.1	62.1	93.7	[91.4-101.0]	102.6	[76.1-111.3]	93.7	163.2	93.7	93.7						
	Croatia	500	65.0	[63.7-69.0]	73.0	[48.4-81.6]	65.0	104.0	65.0	65.0	97.5	[95.1-105.0]	106.4	[75.4-119.6]	97.5	162.1	97.5	97.5						
	Czech Republic	500	55.2	[54.0-58.9]	63.1	[50.1-60.2]	55.2	90.3	55.2	55.2	84.4	[82.3-91.2]	93.4	[77.7-91.2]	84.4	148.8	84.4	84.4						
	Denmark	500	50.2	[48.9-53.6]	58.1	[47.8-52.5]	50.2	83.3	50.2	50.2	77.8	[75.6-84.1]	86.7	[74.7-81.0]	77.8	138.6	77.8	77.8						
	Estonia	500	50.5	[49.3-53.9]	58.5	[48.3-52.7]	50.5	83.8	50.5	50.5	78.3	[76.0-84.4]	87.2	[75.3-81.2]	78.3	139.4	78.3	78.3						
	Finland	500	51.1	[49.7-55.1]	59.0	[48.8-53.3]	51.1	84.4	51.1	51.1	78.8	[76.5-85.8]	87.8	[75.8-81.8]	78.8	139.9	78.8	78.8						
	France	500	57.9	[56.7-61.7]	65.9	[48.7-67.1]	57.9	94.1	57.9	57.9	88.1	[85.8-95.0]	97.0	[75.9-100.3]	88.1	154.5	88.1	88.1						
	Germany	500	53.1	[51.9-56.6]	61.1	[48.5-57.7]	53.1	87.5	53.1	53.1	81.8	[79.5-88.2]	90.7	[75.6-87.9]	81.8	144.8	81.8	81.8						
	Greece	500	64.5	[63.2-68.6]	72.4	[48.8-80.2]	64.5	103.2	64.5	64.5	96.8	[94.5-104.4]	105.7	[75.9-117.7]	96.8	167.9	96.8	96.8						
	Hungary	500	58.7	[57.3-62.3]	66.7	[48.3-69.1]	58.7	95.3	58.7	58.7	89.2	[86.7-95.9]	98.2	[75.3-103.1]	89.2	156.4	89.2	89.2						
	Italy	500	67.0	[65.2-71.8]	75.0	[49.4-84.5]	67.0	106.6	67.0	67.0	100.0	[97.1-108.2]	108.9	[76.6-123.3]	100.0	172.6	100.0	100.0						
	Latvia	500	50.2	[49.0-53.7]	58.2	[48.2-52.1]	50.2	83.4	50.2	50.2	77.9	[75.7-84.1]	86.8	[75.3-80.5]	77.9	138.7	77.9	77.9						
	Lithuania	500	50.2	[49.1-53.7]	58.2	[48.2-52.1]	50.2	83.3	50.2	50.2	77.8	[75.8-84.2]	86.7	[75.2-80.6]	77.8	138.6	77.8	77.8						
	Luxembourg	500	54.3	[53.1-57.9]	62.3	[49.0-59.7]	54.3	89.2	54.3	54.3	83.4	[81.1-89.9]	92.3	[76.2-90.6]	83.4	147.3	83.4	83.4						
	Netherlands	500	50.3	[49.1-53.7]	58.3	[46.8-53.8]	50.3	83.6	50.3	50.3	78.1	[75.9-84.3]	87.0	[73.4-82.7]	78.1	139.1	78.1	78.1						
Norway	500	52.1	[50.7-56.3]	60.0	[48.7-55.4]	52.1	85.7	52.1	52.1	80.1	[77.9-87.4]	89.0	[75.7-84.6]	80.1	141.8	80.1	80.1							
Poland	500	51.8	[50.6-55.3]	59.8	[48.3-55.3]	51.8	85.6	51.8	51.8	80.0	[77.8-86.4]	88.9	[75.4-84.6]	80.0	142.0	80.0	80.0							
Portugal	500	56.8	[55.4-60.3]	64.8	[49.0-64.7]	56.8	92.8	56.8	56.8	86.8	[84.1-93.1]	95.7	[76.3-97.3]	86.8	152.7	86.8	86.8							
Romania	500	58.8	[57.4-62.5]	66.8	[49.0-68.6]	58.8	95.4	58.8	58.8	89.3	[86.9-96.1]	98.2	[76.2-102.3]	89.3	156.5	89.3	89.3							
Slovakia	500	54.2	[53.0-57.8]	62.2	[49.4-59.0]	54.2	89.0	54.2	54.2	83.2	[81.0-89.8]	92.1	[76.8-89.6]	83.2	147.0	83.2	83.2							
Slovenia	500	67.6	[66.2-71.6]	75.6	[49.1-86.0]	67.6	107.6	67.6	67.6	101.0	[98.4-108.6]	109.9	[76.4-125.6]	101.0	174.4	101.0	101.0							
Spain	500	59.5	[58.2-63.3]	67.5	[49.4-69.6]	59.5	96.4	59.5	59.5	90.3	[87.8-97.1]	99.2	[76.9-103.7]	90.3	157.9	90.3	90.3							
Sweden	500	51.0	[49.7-54.1]	59.0	[48.4-53.6]	51.0	84.5	51.0	51.0	78.9	[76.6-85.2]	87.8	[75.4-82.4]	78.9	140.3	78.9	78.9							
Switzerland	500	67.2	[65.8-71.3]	75.2	[53.5-80.8]	67.2	107.1	67.2	67.2	100.5	[97.9-108.0]	109.4	[82.3-118.6]	100.5	173.7	100.5	100.5							
United Kingdom	500	51.0	[49.6-54.8]	59.0	[48.6-53.4]	51.0	84.4	51.0	51.0	78.8	[76.4-85.4]	87.8	[75.6-82.1]	78.8	140.1	78.8	78.8							
emission rates from the intermodal routing (IM) [$gCO_2e/ton-km$]	Austria	495	30.3	[29.4-31.7]	32.6	[23.1-37.5]	[30.0-30.8]	41.8	14.7	[30.3-35.1]	38.0	[37.5-39.5]	40.5	[29.8-46.2]	59.0	21.4	[38.0-46.8]							
	Belgium	496	23.6	[22.9-24.7]	25.6	[18.7-28.5]	[23.3-24.1]	32.2	9.7	[23.6-29.7]	29.2	[28.8-30.2]	31.3	[23.8-34.5]	45.0	14.3	[29.2-40.4]							
	Bulgaria	500	25.4	[24.6-26.4]	26.8	[16.9-33.8]	[25.1-26.0]	32.7	6.5	[25.4-27.3]	29.2	[29.1-29.8]	30.8	[20.2-38.3]	42.7	9.0	[29.2-32.7]							
	Croatia	500	25.9	[25.2-27.2]	28.0	[18.5-33.4]	[25.7-26.4]	35.6	11.7	[25.9-28.9]	32.3	[31.9-33.5]	34.5	[24.1-40.5]	50.0	17.0	[32.3-37.7]							
	Czech Republic	498	29.7	[28.8-31.0]	32.1	[23.4-36.0]	[29.4-30.3]	40.6	12.4	[29.7-35.1]	36.8	[36.4-38.1]	39.4	[29.9-43.7]	56.9	18.3	[36.8-47.0]							
	Denmark	491	24.8	[24.1-26.0]	27.3	[22.0-27.6]	[24.6-25.3]	34.9	13.2	[24.8-30.1]	31.9	[31.4-33.2]	34.6	[28.8-35.0]	50.3	19.3	[31.9-34.5]							
	Estonia	500	23.1	[22.3-24.1]	24.9	[20.1-26.0]	[22.8-23.7]	30.1	5.7	[23.1-25.0]	27.1	[26.9-27.6]	28.9	[23.9-32.0]	39.9	8.3	[27.1-30.6]							
	Finland	500	21.7	[21.0-22.7]	23.4	[19.0-24.4]	[21.4-22.3]	28.4	5.7	[19.7-23.4]	25.5	[25.4-26.1]	27.3	[22.6-28.4]	37.8	8.3	[25.5-28.6]							
	France	500	19.3	[18.8-20.3]	21.1	[15.6-23.1]	[19.2-19.7]	27.4	10.7	[19.3-23.2]	25.0	[24.6-26.1]	27.0	[20.8-29.4]	39.8	15.7	[25.0-31.3]							
	Germany	480	28.7	[27.9-30.1]	31.5	[23.6-33.8]	[28.5-29.2]	40.5	14.3	[28.7-36.4]	36.9	[36.4-38.5]	39.9	[31.3-42.5]	58.5	21.3	[36.9-51.0]							
	Greece	500	31.3	[30.4-32.4]	32.9	[17.5-45.0]	[30.9-32.0]	40.3	8.4	[31.3-32.4]	36.0	[35.8-36.7]	37.6	[31.3-37.2]	52.5	11.6	[36.0-38.8]							
	Hungary	500	23.6	[22.9-24.7]	25.6	[18.8-28.4]	[23.4-24.1]	32.3	9.6	[23.6-27.1]	29.2	[28.9-30.2]	31.4	[24.0-34.4]	45.2	14.2	[29.2-35.6]							
	Italy	500	28.5	[27.6-29.7]	30.0	[15.7-41.2]	[28.2-29.1]	37.0	8.9	[28.5-31.2]	33.1	[32.8-34.0]	34.8	[19.5-46.7]	48.7	12.3	[33.1-37.0]							
	Latvia	500	24.5	[23.7-25.6]	26.5	[21.4-27.6]	[24.2-25.2]	32.2	6.4	[24.5-26.8]	28.9	[28.7-29.6]	31.0	[25.6-32.3]	42.9	9.4	[28.9-33.7]							
	Lithuania	500	24.8	[24.1-26.0]	26.8	[21.5-28.2]	[24.5-25.5]	32.4	6.1	[24.8-27.1]	29.1	[28.9-29.7]	31.1	[25.5-32.7]	43.0	8.8	[29.1-33.8]							
	Luxembourg	498	21.3	[20.7-22.3]	23.1	[16.5-26.1]	[21.1-21.8]	28.8	7.9	[21.3-27.1]	26.0	[25.7-26.8]	27.8	[20.7-31.2]	39.7	11.5	[26.0-36.6]							
	Netherlands	496	24.9	[24.1-26.1]	27.3	[20.5-29.3]	[24.6-25.4]	34.7	11.0	[24.9-31.6]	31.5	[31.1-32.7]	34.1	[26.7-31.3]	49.5	16.6	[31.0-43.9]							
Norway	500	21.9	[21.5-23.0]	24.0	[16.8-25.3]	[21.8-22.1]	31.3	16.9	[21.9-24.5]	29.1	[28.6-30.7]	31.4	[25.0-33.2]	46.3	23.6	[29.1-33.9]								
Poland	500	28.5	[27.6-29.9]	31.0	[24.5-32.6]	[28.2-29.2]	38.7	10.4	[28.5-32.6]	35.0	[34.7-36.2]	37.7	[30.6-39.5]	53.8	15.5	[35.0-42.5]								
Portugal	500	13.9	[13.5-14.5]	14.9	[10.4-17.5]	[13.8-14.3]	18.5	5.4	[13.9-15.4]	16.7	[16.5-17.1]	17.7	[12.9-20.5]	25.1	7.6	[16.7-19.4]								
Romania	500	23.2	[22.6-24.3]	25.0	[17.4-29.0]	[23.0-23.8]	31.1	8.4	[23.2-26.6]	28.0	[27.7-28.8]	29.9	[21.7-34.4]	42.4	12.1	[28.0-32.4]								
Slovakia	500	28.9	[28.1-30.2]	31.2	[22.2-35.5]	[28.6-29.5]	39.5	12.4	[28.9-32.9]	35.8	[35.4-37.1]	38.3	[28.3-43.4]	55.3	18.1	[35.8-43.2]								
Slovenia	500	24.5	[23.8-25.5]	26.1	[16.8-32.1]	[24.2-25.0]	32.3	8.1	[24.5-28.0]	29.0	[28.8-29.8]	30.8	[20.8-37.2]	43.4	11.5	[29.0-35.5]								
Spain	500	14.7	[14.3-15.4]	15.8	[11.3-18.2]	[14.6-15.0]	19.9	6.6	[14.7-16.5]	18.0	[17.8-18.6]	19.2	[14.2-21.8]	27.4	9.2	[18.0-21.3]								
Sweden	500	21.1	[20.6-22.0]	23.0	[19.0-23.2]	[21.0-21.4]	29.1	14.4	[21.1-24.6]	27.0	[26.6-28.1]	29.1	[24.6-29.8]	41.6	19.8	[27.0-33.4]								
Switzerland	493	37.2	[36.2-38.8]	39.7	[25.4-49.1]	[36.9-37.8]	51.2	9.7	[37.2-41.8]	46.6	[46.0-48.4]	49.3	[33.3-59.9]	46.1	26.9	[46.6-54.9]								
United Kingdom	500	21.4	[20.7-22.2]	23.4	[16.8-26.0]	[21.2-21.8]	29.2	18.0	[21.4-24.1]	26.5	[26.1-27.4]	28.4	[21.3-31.6]	40.8	13.1	[26.5-31.4]								
emission rates from the rail section (part of the IM routing) [$gCO_2e/ton-km$]	Austria	495	21.1	[20.4-21.8]	22.0	[15.1-27.1]	[20.8-21.8]	25.6	1.8	21.1	22.6	[22.4-22.6]	23.5	[16.3-28.8]	[22.1-23.7]	30.9	2.0	22.6						
	Belgium	496	18.1	[17.5-18.7]	19.0	[13.2-23.0]	[17.8-18.7]	22.0	1.6	18.1	19.4	[19.3-19.4]	20.3	[14.3-24.6]	[18.9-20.4]	26.6	1.7	19.4						
	Bulgaria	500	22.4	[21.8-23.2]	23.4	[14.0-30.9]	[21.2-23.1]	27.2	2.0	22.4	24.0	[23.9-24.0]	24.9	[15.2-32.8]	[23.5-25.2]	32.8	2.1	24.0						
	Croatia	500	19.0	[18.4-19.7]	19.9	[12.1-25.9]	[18.7-19.6]	23.1	1.9	19.0	20.4	[20.3-20.4]	21.2	[13.2										

c_i	S	heavy goods shipments								voluminous goods shipments								
		I	II	III	IV	V	VI	VII	VIII	I	II	III	IV	V	VI	VII	VIII	
emission rates from the road-only routing (RO) [$\text{gCO}_2\text{e}/\text{ton-km}$]	Austria	500	67.5	[66.1-71.6]	75.5	[49.7-85.2]	67.5	107.5	67.5	67.5	100.8	[98.3-108.4]	109.8	[77.2-124.5]	100.8	174.3	100.8	100.8
	Belgium	500	65.6	[64.3-69.7]	73.6	[48.4-82.9]	65.6	104.9	65.6	65.6	98.4	[95.9-105.8]	107.3	[75.4-121.3]	107.3	170.5	98.4	98.4
	Bulgaria	500	69.4	[68.0-73.6]	77.4	[49.1-89.7]	69.4	110.3	69.4	69.4	103.5	[100.8-111.1]	112.4	[76.5-130.5]	103.5	178.4	103.5	103.5
	Croatia	500	69.0	[67.5-72.2]	77.0	[48.3-89.6]	69.0	109.6	69.0	69.0	102.9	[100.1-110.5]	111.8	[75.3-130.4]	102.9	177.4	102.9	102.9
	Czech Republic	500	62.8	[61.5-66.8]	70.8	[48.9-76.8]	62.8	101.0	62.8	62.8	94.6	[92.3-101.9]	103.6	[76.1-113.2]	94.6	164.6	94.6	94.6
	Denmark	500	58.5	[57.2-62.2]	66.4	[48.1-68.8]	58.5	94.9	58.5	58.5	88.9	[86.5-95.7]	97.8	[75.1-102.6]	88.9	155.7	88.9	88.9
	Estonia	500	58.0	[56.7-61.7]	66.0	[48.3-67.7]	58.0	94.4	58.0	58.0	88.3	[85.8-95.0]	97.3	[75.4-101.3]	88.3	155.0	88.3	88.3
	Finland	500	57.1	[55.6-61.0]	65.1	[48.7-65.5]	57.1	93.0	57.1	57.1	87.1	[84.4-93.9]	96.0	[75.9-98.2]	87.1	152.9	87.1	87.1
	France	500	66.3	[64.8-70.3]	74.3	[48.7-83.9]	66.3	105.9	66.3	66.3	99.3	[96.6-106.7]	108.2	[75.9-122.7]	99.3	171.9	99.3	99.3
	Germany	500	63.3	[61.9-67.2]	71.2	[48.4-78.1]	63.3	101.6	63.3	63.3	95.2	[92.8-102.5]	104.2	[75.5-115.0]	95.2	165.6	95.2	95.2
	Greece	500	68.5	[67.0-72.7]	76.5	[49.2-88.0]	68.5	109.0	68.5	68.5	102.2	[99.5-109.8]	111.2	[76.5-128.2]	102.2	176.4	102.2	102.2
	Hungary	500	63.3	[62.0-67.3]	71.3	[47.9-78.7]	63.3	101.7	63.3	63.3	95.3	[92.9-102.6]	104.2	[74.8-115.8]	95.3	165.6	95.3	95.3
	Italy	500	64.6	[62.0-71.4]	72.6	[51.0-78.2]	64.6	102.5	64.6	64.6	96.2	[92.5-106.3]	105.1	[78.2-114.2]	96.2	165.7	96.2	96.2
	Latvia	500	58.6	[57.5-62.6]	66.6	[48.1-69.1]	58.6	95.1	58.6	58.6	89.0	[86.9-96.1]	97.9	[75.0-103.0]	89.0	155.8	89.0	89.0
	Lithuania	500	59.5	[58.2-63.3]	67.5	[48.3-70.8]	59.5	96.5	59.5	59.5	90.3	[87.9-97.2]	99.3	[75.3-105.3]	90.3	158.0	90.3	90.3
	Luxembourg	500	66.6	[65.1-70.6]	74.6	[48.6-84.7]	66.6	106.5	66.6	66.6	99.8	[97.0-107.1]	108.8	[75.8-123.8]	99.8	172.8	99.8	99.8
	Netherlands	500	63.3	[62.0-67.3]	71.3	[48.1-78.6]	63.3	101.7	63.3	63.3	95.3	[92.9-102.6]	104.3	[75.0-115.6]	95.3	165.7	95.3	95.3
	Norway	500	56.9	[55.5-60.7]	64.9	[48.6-65.3]	56.9	92.8	56.9	56.9	86.8	[84.2-93.6]	95.8	[75.7-98.0]	86.8	152.6	86.8	86.8
	Poland	500	60.8	[59.5-64.7]	68.8	[48.3-73.3]	60.8	98.3	60.8	60.8	92.0	[89.6-99.0]	101.0	[75.4-108.0]	92.0	160.6	92.0	92.0
	Portugal	500	54.8	[53.7-58.6]	62.8	[48.6-61.1]	54.8	89.8	54.8	54.8	84.0	[81.9-90.8]	92.9	[75.6-92.4]	84.0	148.1	84.0	84.0
Romania	500	65.6	[64.3-69.7]	73.6	[48.4-82.8]	65.6	104.9	65.6	65.6	98.4	[95.9-105.9]	107.3	[75.5-121.3]	98.4	170.4	98.4	98.4	
Slovakia	500	62.5	[61.1-66.4]	70.5	[48.9-76.1]	62.5	100.6	62.5	62.5	94.3	[91.7-101.4]	103.2	[76.1-112.4]	94.3	164.1	94.3	94.3	
Slovenia	500	68.5	[67.2-72.8]	76.4	[48.6-88.3]	68.5	108.8	68.5	68.5	102.1	[99.8-110.1]	111.0	[76.5-128.5]	102.1	176.0	102.1	102.1	
Spain	500	55.9	[54.7-59.7]	63.9	[49.1-62.7]	55.9	91.3	55.9	55.9	85.4	[83.2-92.3]	94.4	[76.4-94.5]	85.4	150.3	85.4	85.4	
Sweden	500	56.4	[55.3-60.2]	64.9	[48.2-64.7]	56.4	92.0	56.4	56.4	86.1	[84.0-93.0]	95.0	[75.1-97.1]	86.1	151.4	86.1	86.1	
Switzerland	500	74.8	[73.3-79.3]	82.8	[50.4-99.3]	74.8	117.8	74.8	74.8	110.7	[107.8-118.8]	119.6	[78.1-143.2]	110.7	189.5	110.7	110.7	
United Kingdom	500	62.8	[61.4-66.9]	70.7	[48.3-77.2]	62.8	100.8	62.8	62.8	94.5	[92.1-102.0]	103.4	[75.3-113.7]	94.5	164.3	94.5	94.5	
emission rates from the intermodal routing (IM) [$\text{gCO}_2\text{e}/\text{ton-km}$]	Austria	500	33.7	[32.8-35.0]	35.4	[17.3-50.0]	[33.4-34.4]	44.0	10.9	[33.7-35.6]	39.5	[39.2-40.5]	41.4	[21.7-57.3]	[39.0-40.7]	58.5	15.3	[39.5-43.0]
	Belgium	500	28.3	[27.5-29.3]	29.7	[14.9-41.6]	[27.9-28.9]	36.0	6.6	[28.3-29.6]	32.1	[32.0-32.7]	33.6	[17.8-46.4]	[31.6-33.3]	46.4	9.0	[32.1-34.6]
	Bulgaria	493	49.5	[48.2-51.4]	52.3	[24.4-74.5]	[49.1-50.3]	66.4	19.3	[49.5-53.8]	59.8	[59.2-61.8]	62.9	[32.4-61.8]	[59.1-61.3]	90.9	27.9	[59.8-67.7]
	Croatia	500	36.1	[35.1-37.4]	38.1	[18.3-53.8]	[35.7-36.8]	47.8	12.6	[36.1-38.0]	42.9	[42.5-44.1]	45.1	[23.6-62.2]	[42.4-44.1]	64.4	18.0	[42.9-46.5]
	Czech Republic	500	32.0	[31.2-33.2]	33.7	[16.7-47.4]	[31.7-32.7]	41.5	8.8	[30.3-31.7]	37.1	[36.8-37.8]	38.8	[20.5-53.6]	[36.5-38.3]	54.4	12.4	[37.1-40.4]
	Denmark	500	28.8	[27.9-29.8]	30.4	[16.6-40.9]	[28.4-29.4]	37.0	7.5	[28.8-30.1]	33.0	[32.8-33.7]	34.7	[20.0-46.0]	[32.5-34.2]	48.0	10.3	[33.0-35.4]
	Estonia	500	28.1	[27.3-29.2]	29.7	[16.6-39.6]	[27.8-28.8]	36.1	6.6	[28.1-29.3]	32.1	[32.0-32.7]	33.8	[19.8-45.0]	[31.6-33.4]	46.7	9.2	[32.1-34.2]
	Finland	500	26.8	[26.0-27.8]	28.4	[16.2-37.4]	[26.5-27.5]	34.5	6.6	[26.8-27.7]	30.8	[30.6-31.4]	32.5	[19.5-42.2]	[30.3-32.0]	45.0	9.2	[30.8-32.8]
	France	500	26.4	[25.7-27.4]	27.8	[14.3-38.5]	[26.1-27.0]	34.3	7.9	[26.4-27.6]	30.7	[30.5-31.4]	32.2	[17.7-43.7]	[30.2-31.7]	45.2	11.0	[30.7-32.9]
	Germany	500	30.0	[29.2-31.1]	31.6	[16.0-43.9]	[29.7-30.7]	38.5	7.5	[30.0-31.5]	34.4	[32.4-35.0]	36.0	[19.4-49.3]	[33.8-35.6]	50.1	10.5	[34.4-37.2]
	Greece	265	51.2	[50.0-53.6]	55.1	[29.7-72.7]	[50.9-51.8]	72.7	29.8	[50.1-56.1]	66.5	[65.4-69.6]	70.8	[41.8-91.1]	[66.0-67.6]	105.8	43.7	[66.5-75.3]
	Hungary	500	37.8	[36.9-39.3]	40.0	[18.6-57.0]	[37.5-38.5]	50.0	12.6	[37.8-40.3]	44.9	[44.5-46.1]	47.2	[24.1-65.6]	[44.3-46.2]	67.3	18.1	[44.9-49.4]
	Italy	500	30.3	[29.4-31.5]	31.7	[15.2-45.4]	[30.0-31.0]	38.9	8.3	[30.3-31.7]	34.7	[34.4-35.5]	36.2	[18.5-50.9]	[34.1-35.9]	50.4	11.3	[34.7-37.2]
	Latvia	500	29.3	[28.4-30.4]	30.9	[16.8-41.8]	[28.9-30.0]	37.6	7.0	[29.3-30.5]	33.6	[33.4-34.2]	35.3	[20.2-46.9]	[33.0-34.8]	48.8	9.7	[33.6-35.9]
	Lithuania	500	29.7	[28.8-30.8]	31.3	[16.7-42.7]	[29.3-30.4]	38.0	6.8	[29.7-31.0]	33.9	[33.7-34.5]	35.6	[19.9-47.8]	[33.3-35.2]	49.1	9.5	[33.9-36.3]
	Luxembourg	500	27.4	[26.6-28.4]	28.8	[13.9-40.9]	[27.1-28.1]	34.9	6.3	[27.4-28.8]	31.1	[30.9-31.6]	32.5	[16.6-45.5]	[30.3-32.2]	44.8	8.6	[31.1-33.7]
	Netherlands	500	28.6	[27.8-29.7]	30.1	[15.4-41.8]	[28.3-29.3]	36.5	6.6	[28.6-30.0]	32.1	[32.4-33.1]	34.1	[18.4-46.7]	[32.0-33.8]	47.1	9.1	[32.5-35.1]
	Norway	500	27.9	[27.2-29.0]	29.6	[17.0-38.8]	[27.7-28.5]	36.4	11.1	[27.9-29.0]	33.0	[32.7-33.8]	34.7	[21.1-44.9]	[32.5-33.9]	48.6	15.1	[33.0-34.9]
	Poland	500	32.4	[31.5-33.6]	34.2	[17.3-47.5]	[32.0-33.1]	42.0	8.8	[32.4-34.0]	37.5	[37.3-38.3]	39.4	[21.3-53.8]	[36.9-38.8]	55.2	12.4	[37.5-40.5]
	Portugal	500	22.2	[21.6-23.0]	23.2	[12.0-32.3]	[21.9-22.7]	28.3	5.7	[22.2-23.0]	25.2	[25.0-25.6]	26.3	[14.3-36.1]	[24.8-26.1]	36.4	7.7	[25.2-26.7]
Romania	500	41.9	[40.8-45.6]	44.4	[20.7-63.0]	[41.5-42.6]	56.0	15.5	[41.9-48.0]	50.4	[49.9-50.9]	53.1	[27.3-73.4]	[49.8-51.7]	76.3	22.4	[50.4-55.8]	
Slovakia	500	34.9	[34.0-36.3]	36.9	[17.7-52.2]	[34.6-35.6]	45.9	11.4	[34.9-37.0]	41.2	[40.8-42.2]	43.2	[22.4-59.9]	[40.6-42.4]	61.3	16.1	[41.2-45.0]	
Slovenia	500	33.2	[32.4-34.5]	34.9	[16.3-50.2]	[32.9-34.0]	43.0	9.3	[33.2-35.2]	38.4	[38.2-39.3]	40.2	[20.2-56.7]	[37.9-39.7]	56.4	13.0	[38.4-42.0]	
Spain	500	23.8	[23.2-24.7]	25.0	[12.8-34.9]	[23.2-24.3]	30.6	6.6	[23.8-24.8]	27.3	[27.1-27.8]	28.5	[15.4-39.1]	[26.8-28.2]	39.7	9.0	[27.3-29.0]	
Sweden	500	27.8	[27.1-28.8]	29.3	[16.8-38.8]	[27.5-28.4]	35.6	9.6	[27.8-29.0]	32.1	[31.9-32.8]	33.7	[20.3-43.9]	[31.6-33.1]	46.3	12.7	[32.1-34.2]	
Switzerland	500	32.7	[31.8-33.9]	34.3	[17.5-47.8]	[32.3-33.3]	42.6	10.7	[32.7-34.1]	38.3	[37.9-39.2]	40.0	[21.8-54.7]	[37.7-39.4]	56.5	14.9	[38.3-40.9]	
United Kingdom	500	26.3	[25.6-27.3]	27.7	[15.0-37.6]	[26.0-26.9]	33.9	6.8	[26.3-27.4]	30.2	[30.1-30.9]	31.8	[18.1-42.4]	[29.7-31.3]	44.1	9.4	[30.2-32.2]	
emission rates from the rail section (part of the IM routing) [$\text{gCO}_2\text{e}/\text{ton-km}$]	Austria	500	28.5	[27.7-29.4]	29.4	[12.7-44.4]	[28.2-29.3]	34.5	2.5	28.5	30.3	[30.1-30.3]	31.2	[13.8-46.9]	[29.7-31.7]	41.4	2.7	30.3
	Belgium	500	25.6	[24.9-26.5]	26.5	[12.6-38.7]	[25.3-26.4]	31.1	2.2	25.6	27.3	[27.2-27.4]	28.2	[13.7-41.0]	[26.8-28.6			

	c_i	S	heavy goods shipments								voluminous goods shipments									
			I		II		III		IV		V		VI		VII		VIII			
			[-]	[-]	[-]	[-]	[-]	[-]	[-]	[-]	[-]	[-]	[-]	[-]	[-]	[-]	[-]	[-]		
emission rates from the road-only routing (RO) [gCO ₂ e/(ton-km)]	Austria	500	57.0	[55.7-60.7]	65.0	[53.8-60.1]	57.0	92.9	57.0	57.0	86.9	[84.6-93.6]	95.8	[82.7-91.7]	86.9	152.7	86.9	86.9		
	Belgium	500	55.8	[54.5-59.4]	63.8	[48.8-62.9]	55.8	91.3	55.8	55.8	85.3	[83.0-91.9]	94.3	[76.0-94.1]	85.3	150.3	85.3	85.3		
	Bulgaria	500	61.5	[60.2-65.4]	69.5	[49.5-73.5]	61.5	99.2	61.5	61.5	92.9	[90.5-100.0]	101.8	[76.9-108.9]	92.9	162.0	92.9	92.9		
	Croatia	500	56.7	[55.4-60.3]	64.7	[49.4-64.0]	56.7	92.4	56.7	56.7	86.5	[84.2-93.2]	95.4	[76.8-96.2]	86.5	152.1	86.5	86.5		
	Czech Republic	500	59.4	[58.1-63.1]	67.4	[51.1-67.7]	59.4	96.3	59.4	59.4	90.1	[87.7-97.0]	99.1	[79.1-101.2]	90.1	157.8	90.1	90.1		
	Denmark	500	52.9	[51.8-56.5]	60.9	[48.3-57.6]	52.9	87.2	52.9	52.9	81.5	[79.3-88.0]	90.4	[75.3-87.7]	81.5	144.3	81.5	81.5		
	Estonia	500	52.2	[51.0-55.7]	60.2	[48.4-55.9]	52.2	86.1	52.2	52.2	80.5	[78.3-86.9]	89.4	[75.5-85.5]	80.5	142.8	80.5	80.5		
	Finland	500	52.0	[50.7-56.0]	60.0	[48.9-55.1]	52.0	85.7	52.0	52.0	80.1	[77.8-87.1]	89.0	[76.0-84.2]	80.1	141.9	80.1	80.1		
	France	500	64.0	[62.6-67.9]	72.0	[49.2-78.7]	64.0	102.7	64.0	64.0	96.2	[93.6-103.4]	105.2	[76.6-115.9]	96.2	167.2	96.2	96.2		
	Germany	500	55.7	[54.4-59.3]	63.6	[49.1-62.2]	55.7	91.0	55.7	55.7	85.1	[82.9-91.8]	94.0	[76.4-93.8]	85.1	149.9	85.1	85.1		
	Greece	500	64.6	[63.2-68.6]	72.5	[49.4-79.7]	64.6	103.5	64.6	64.6	97.0	[94.5-104.3]	105.9	[76.8-117.2]	97.0	168.3	97.0	97.0		
	Hungary	500	52.0	[50.8-55.5]	59.9	[49.1-54.8]	52.0	85.8	52.0	52.0	80.2	[78.1-86.6]	89.1	[76.4-83.9]	80.2	142.3	80.2	80.2		
	Italy	500	63.3	[61.8-68.3]	71.3	[50.1-76.6]	63.3	101.4	63.3	63.3	95.1	[92.6-103.4]	104.0	[77.4-112.7]	95.1	164.9	95.1	95.1		
	Latvia	500	52.5	[51.2-55.9]	60.5	[48.6-56.4]	52.5	86.7	52.5	52.5	81.0	[78.6-87.2]	89.9	[75.8-86.2]	81.0	143.7	81.0	81.0		
	Lithuania	500	53.2	[52.0-56.7]	61.2	[48.5-57.9]	53.2	87.6	53.2	53.2	81.9	[79.6-88.3]	90.8	[75.6-88.2]	81.9	145.0	81.9	81.9		
	Luxembourg	500	55.2	[53.9-58.8]	63.2	[49.2-61.3]	55.2	90.5	55.2	55.2	84.6	[82.2-91.1]	93.6	[76.5-92.7]	84.6	149.3	84.6	84.6		
	Netherlands	500	55.4	[54.1-59.0]	63.4	[48.3-62.5]	55.4	90.7	55.4	55.4	84.8	[82.5-91.4]	93.7	[75.3-94.3]	84.8	149.4	84.8	84.8		
	Norway	500	52.6	[51.3-56.5]	60.6	[48.7-56.5]	52.6	86.6	52.6	52.6	80.9	[78.8-87.8]	89.8	[75.7-86.2]	80.9	143.3	80.9	80.9		
	Poland	500	55.9	[54.8-59.7]	63.9	[48.9-62.8]	55.9	91.3	55.9	55.9	85.4	[83.3-92.3]	94.3	[76.1-94.6]	85.4	150.2	85.4	85.4		
	Portugal	500	64.2	[62.7-68.0]	72.2	[48.9-79.4]	64.2	103.0	64.2	64.2	96.5	[93.8-103.6]	105.5	[76.2-116.8]	96.5	167.7	96.5	96.5		
Romania	500	56.9	[55.7-60.6]	64.9	[50.2-63.6]	56.9	92.8	56.9	56.9	86.8	[84.5-93.6]	95.7	[77.9-95.7]	86.8	152.5	86.8	86.8			
Slovakia	500	59.0	[57.8-62.9]	67.0	[52.8-65.3]	59.0	95.7	59.0	59.0	89.6	[87.3-96.6]	98.5	[81.3-97.9]	89.6	156.8	89.6	89.6			
Slovenia	500	57.6	[56.3-61.3]	65.6	[51.3-63.9]	57.6	93.7	57.6	57.6	87.7	[85.4-94.5]	96.6	[79.3-96.0]	87.7	153.9	87.7	87.7			
Spain	500	63.2	[61.9-67.2]	71.1	[49.3-77.0]	63.2	101.5	63.2	63.2	95.1	[92.7-102.4]	104.0	[76.7-113.5]	95.1	165.3	95.1	95.1			
Sweden	500	52.2	[51.0-55.7]	60.1	[48.4-55.9]	52.2	86.1	52.2	52.2	80.4	[78.4-87.0]	89.4	[75.4-85.4]	80.4	142.6	80.4	80.4			
Switzerland	500	66.7	[65.3-70.8]	74.7	[52.3-81.0]	66.7	106.4	66.7	66.7	99.8	[97.2-107.3]	108.8	[80.7-118.9]	99.8	172.7	99.8	99.8			
United Kingdom	500	54.2	[52.9-58.0]	62.1	[48.7-59.6]	54.2	88.8	54.2	54.2	83.0	[80.8-89.9]	92.0	[75.8-90.3]	83.0	146.6	83.0	83.0			
emission rates from the intermodal routing (IM) [gCO ₂ e/(ton-km)]	Austria	494	30.5	[29.7-32.1]	33.5	[25.5-35.4]	30.5	21.9	30.5	34.9	[30.5-36.9]	41.5	[40.8-43.9]	44.8	[35.6-47.5]	41.3	42.1]	68.2	32.3	[41.5-53.3]
	Belgium	500	21.5	[20.8-22.4]	23.0	[15.9-27.1]	21.5	22.0]	28.5	7.1	[21.5-24.1]	25.6	[25.4-26.3]	27.2	[19.6-31.5]	[25.2-26.5]	38.4	10.2	[25.6-30.4]	
	Bulgaria	500	31.7	[30.9-33.1]	33.9	[20.9-42.5]	31.7	32.3]	42.8	12.4	[31.7-35.1]	38.6	[38.2-39.9]	41.0	[27.0-50.3]	[38.2-39.7]	59.1	18.1	[38.6-44.9]	
	Croatia	482	35.0	[34.1-36.8]	38.7	[26.8-43.2]	35.0	35.3]	52.2	25.2	[35.0-40.8]	48.1	[47.2-51.0]	52.2	[38.6-57.7]	[47.9-48.7]	79.8	37.7	[48.1-58.9]	
	Czech Republic	500	26.4	[25.7-27.8]	29.0	[22.7-30.1]	26.4	26.8]	37.9	15.0	[26.4-31.8]	34.7	[34.1-36.3]	37.5	[30.5-38.8]	[34.3-35.4]	55.7	22.4	[34.7-44.5]	
	Denmark	500	23.2	[22.6-24.3]	25.1	[19.3-27.2]	23.2	23.8]	31.1	9.0	[23.2-25.7]	28.2	[27.9-29.1]	30.2	[24.0-32.4]	[27.8-29.1]	42.6	12.8	[28.2-32.7]	
	Estonia	500	23.2	[22.4-24.1]	25.0	[18.6-27.6]	23.2	23.7]	30.6	7.0	[23.1-25.0]	27.5	[27.3-28.3]	29.5	[22.8-32.3]	[27.1-28.6]	41.3	10.2	[27.5-31.0]	
	Finland	500	21.9	[21.2-22.9]	23.7	[17.7-26.0]	21.9	22.4]	29.1	7.0	[21.9-23.5]	26.2	[26.0-27.0]	28.2	[21.9-30.6]	[25.8-27.2]	39.6	10.3	[26.2-29.3]	
	France	500	19.9	[19.4-20.8]	21.5	[14.7-25.1]	19.9	20.3]	27.4	9.4	[19.9-22.0]	24.8	[24.5-25.7]	26.6	[19.2-30.5]	[24.5-25.5]	38.6	13.6	[24.8-28.7]	
	Germany	500	23.8	[23.1-24.9]	25.8	[19.1-28.6]	23.8	23.6]	32.6	9.8	[23.8-27.3]	29.5	[29.2-30.5]	31.7	[24.4-34.6]	[29.1-30.4]	45.6	14.5	[29.5-35.9]	
	Greece	500	39.4	[38.4-40.9]	41.5	[20.8-57.9]	39.4	40.1]	52.0	13.4	[39.4-41.8]	46.7	[46.2-47.9]	49.0	[26.7-66.6]	[46.1-48.0]	69.8	19.1	[46.7-51.1]	
	Hungary	317	33.8	[33.0-35.9]	38.3	[30.5-37.1]	33.8	34.0]	53.0	28.1	[33.8-42.9]	49.1	[48.0-52.5]	54.2	[45.1-53.1]	[49.0-49.5]	84.3	43.0	[49.1-65.8]	
	Italy	500	25.3	[24.6-26.6]	27.1	[16.7-34.0]	25.3	25.8]	34.2	10.9	[25.3-28.2]	30.9	[30.6-32.1]	32.8	[21.7-40.2]	[30.6-31.8]	47.2	15.5	[30.9-36.2]	
	Latvia	500	24.5	[23.7-25.6]	26.5	[19.5-29.4]	24.5	25.1]	32.7	8.0	[24.5-26.7]	29.5	[29.2-30.3]	31.7	[24.2-34.8]	[29.0-30.6]	44.6	11.8	[29.5-33.6]	
	Lithuania	500	24.8	[24.1-26.0]	26.9	[19.4-30.3]	24.8	25.5]	33.1	7.8	[24.8-27.3]	29.8	[29.5-30.6]	32.0	[24.0-35.6]	[29.3-30.9]	44.9	11.4	[29.8-34.4]	
	Luxembourg	500	19.4	[18.8-20.2]	20.8	[14.2-24.5]	19.4	19.8]	25.8	6.8	[19.4-22.2]	23.2	[23.0-23.9]	24.8	[17.7-28.8]	[22.9-24.0]	35.1	9.8	[23.2-28.5]	
	Netherlands	500	22.1	[21.4-23.0]	23.8	[16.8-27.3]	22.1	22.6]	29.3	7.0	[22.1-24.7]	26.3	[26.1-27.1]	28.1	[20.8-31.9]	[25.9-27.3]	39.6	10.1	[26.3-31.2]	
	Norway	500	22.8	[22.3-23.9]	24.7	[18.9-26.7]	22.8	23.2]	31.1	14.1	[22.8-24.6]	28.7	[28.3-29.9]	30.7	[24.2-33.1]	[28.4-29.3]	43.9	19.2	[28.7-31.9]	
	Poland	500	28.1	[27.5-29.7]	30.7	[22.0-34.2]	28.1	28.7]	39.1	12.5	[28.1-32.0]	35.5	[35.1-36.9]	38.3	[28.9-42.0]	[35.0-36.5]	55.6	18.7	[35.5-42.5]	
	Portugal	500	16.2	[15.7-16.9]	17.3	[11.1-21.3]	16.2	16.6]	21.2	5.6	[16.2-17.4]	19.0	[18.9-19.5]	20.1	[13.6-24.5]	[18.7-19.7]	28.3	7.7	[19.0-21.2]	
Romania	491	30.0	[30.1-32.5]	34.0	[24.4-37.4]	30.0	31.3]	45.1	19.7	[30.9-36.3]	41.4	[40.7-43.6]	44.8	[34.0-48.8]	[41.1-42.1]	67.5	29.4	[41.4-51.3]		
Slovakia	470	33.2	[32.4-35.1]	36.9	[28.0-38.4]	33.2	33.5]	50.3	25.2	[33.2-31.3]	46.5	[45.5-49.4]	50.6	[40.2-52.8]	[46.2-47.0]	77.8	37.9	[46.5-61.4]		
Slovenia	494	29.2	[28.4-30.6]	31.9	[22.6-33.7]	29.2	29.6]	42.1	17.8	[29.2-34.7]	38.5	[37.9-40.4]	41.5	[31.2-45.8]	[38.2-39.2]	62.1	26.3	[38.5-50.4]		
Spain	500	17.4	[16.9-18.1]	18.6	[12.0-22.8]	17.4	17.8]	23.1	6.8	[17.4-18.8]	20.8	[20.6-21.4]	22.0	[15.0-26.5]	[20.5-21.4]	31.2	9.4	[20.8-23.4]		
Sweden	500	22.8	[22.2-23.7]	24.5	[19.4-26.2]	22.8	23.2]	30.1	12.3	[22.8-24.8]	27.7	[27.4-28.6]	29.6	[24.0-31.3]	[27.4-28.4]	41.2	16.5	[27.7-31.5]		
Switzerland	500	30.1	[29.3-31.5]	32.3	[21.7-38.5]	30.1	30.6]	41.7	16.1	[30.1-33.1]	38.1	[37.5-39.7]	40.4	[28.6-47.5]	[37.7-38.9]	59.4	23.1	[38.1-43.6]		
United Kingdom	500	20.9	[20.3-21.8]	22.5	[15.8-26.0]	20.9	21.4]	28.0	7.7	[20.9-22.6]	25.3	[25.0-26.0]	27.0	[19.7-30.8]	[24.9-26.1]	38.3	11.1	[25.3-28.4]		
emission rates from the rail section (part of the IM routing) [gCO ₂ e/(ton-km)]	Austria	494	14.3	[13.8-14.8]	15.0	[11.2-17.3]	14.3	14.7]	17.3	1.7	14.3	15.3	[15.2-15.3]	16.0	[12.1-18.5]	[15.0-16.1]	21.0	1.8	15.3	
	Belgium	500																		

c_i	S	heavy goods shipments								voluminous goods shipments								
		I	II	III	IV	V	VI	VII	VIII	I	II	III	IV	V	VI	VII	VIII	
emission rates from the road-only routing (RO) [gCO ₂ e/ton-km]	Austria	500	72.1	[70.1-77.2]	80.1	[51.7-92.5]	72.1	113.6	72.1	106.7	[103.6-115.4]	115.7	[79.6-133.8]	106.7	182.9	106.7	106.7	
	Belgium	500	66.7	[64.9-71.4]	74.7	[48.5-84.9]	66.7	106.3	66.7	99.7	[96.7-107.7]	108.7	[75.5-123.9]	99.7	172.3	99.7	99.7	
	Bulgaria	500	57.7	[55.9-62.4]	65.7	[49.7-65.7]	57.7	93.6	57.7	87.6	[84.7-95.3]	96.5	[76.9-98.3]	87.6	153.3	87.6	87.6	
	Croatia	500	59.0	[57.2-63.7]	67.0	[48.5-69.4]	59.0	95.3	59.0	89.3	[86.4-97.1]	98.2	[75.4-101.1]	89.3	155.9	89.3	89.3	
	Czech Republic	500	66.0	[64.2-70.6]	74.0	[49.7-82.4]	66.0	105.4	66.0	98.8	[95.7-106.6]	107.8	[77.1-120.6]	98.8	170.9	98.8	98.8	
	Denmark	500	59.4	[57.9-63.8]	67.4	[48.3-70.4]	59.4	96.0	59.4	89.9	[87.4-97.5]	98.9	[75.2-104.6]	89.9	157.1	89.9	89.9	
	Estonia	500	56.3	[54.9-60.3]	64.3	[48.5-64.2]	56.3	91.9	56.3	86.0	[83.4-92.9]	94.9	[75.5-96.4]	86.0	151.1	86.0	86.0	
	Finland	500	56.1	[54.3-60.3]	64.0	[49.0-63.1]	56.1	91.4	56.1	85.5	[82.7-92.6]	94.5	[76.1-94.9]	85.5	150.3	85.5	85.5	
	France	500	66.3	[64.7-71.1]	74.3	[49.0-83.7]	66.3	105.7	66.3	96.3	[96.3-107.3]	108.1	[76.0-122.2]	99.1	171.3	99.1	99.1	
	Germany	500	65.3	[63.6-70.1]	73.3	[48.8-81.9]	65.3	104.3	65.3	93.8	[95.0-105.9]	106.7	[75.8-119.9]	97.8	169.2	97.8	97.8	
	Greece	500	63.0	[60.2-70.2]	71.1	[51.7-74.7]	63.0	100.4	63.2	63.2	94.2	[90.1-104.4]	103.1	[78.9-109.5]	94.2	162.5	94.2	94.2
	Hungary	500	62.0	[60.4-66.9]	70.0	[48.4-75.7]	62.0	99.6	62.0	62.0	93.3	[90.6-101.5]	102.2	[75.1-111.5]	93.3	162.1	93.3	93.3
	Italy	500	62.3	[59.7-69.3]	70.3	[50.7-73.9]	62.3	99.3	62.3	62.3	93.1	[89.5-103.3]	102.1	[77.7-108.6]	93.1	161.0	93.1	93.1
	Latvia	500	57.0	[55.7-61.3]	65.0	[48.4-65.6]	57.0	92.7	57.0	86.8	[84.5-94.2]	95.7	[75.3-98.2]	86.8	152.2	86.8	86.8	
	Lithuania	500	57.9	[56.5-62.1]	65.9	[48.4-67.3]	57.9	93.9	57.9	87.9	[85.5-95.3]	96.8	[75.3-100.5]	87.9	154.0	87.9	87.9	
	Luxembourg	500	68.5	[66.9-73.6]	76.4	[48.6-88.3]	68.5	108.6	68.5	68.5	101.9	[99.2-110.6]	110.8	[75.5-128.3]	101.9	175.5	101.9	101.9
	Netherlands	500	63.9	[62.1-68.4]	71.9	[48.3-79.5]	63.9	102.4	63.9	63.9	96.0	[93.0-103.7]	104.9	[75.2-116.8]	96.0	166.6	96.0	96.0
	Norway	500	57.8	[56.2-62.2]	65.8	[48.8-66.9]	57.8	93.9	57.8	87.9	[85.2-95.2]	96.8	[75.8-100.0]	87.9	154.0	87.9	87.9	
	Poland	500	61.0	[59.5-65.5]	69.0	[48.4-73.7]	61.0	98.3	61.0	61.0	92.1	[89.6-99.9]	101.0	[75.3-108.9]	92.1	160.4	92.1	92.1
	Portugal	500	55.2	[53.8-59.3]	63.2	[48.9-61.5]	55.2	90.3	55.2	55.2	84.4	[82.0-91.5]	93.3	[76.0-92.8]	84.4	148.6	84.4	84.4
	Romania	500	60.9	[59.1-65.3]	68.9	[49.2-72.6]	60.9	98.1	60.9	60.9	91.9	[88.9-99.4]	100.9	[76.4-107.5]	91.9	160.2	91.9	91.9
	Slovakia	500	64.5	[62.7-69.1]	72.5	[49.4-79.6]	64.5	103.2	64.5	64.5	96.7	[93.7-104.5]	105.7	[76.6-116.8]	96.7	167.6	96.7	96.7
	Slovenia	500	62.9	[61.0-67.9]	70.9	[50.1-75.7]	62.9	100.8	62.9	62.9	94.5	[91.4-102.6]	103.4	[77.4-111.5]	94.5	163.9	94.5	94.5
	Spain	500	56.5	[55.1-60.7]	64.5	[49.7-63.4]	56.5	92.1	56.5	56.5	86.1	[83.7-93.4]	95.1	[77.0-95.3]	86.1	151.3	86.1	86.1
	Sweden	500	57.2	[55.9-61.5]	65.2	[48.4-66.1]	57.2	93.0	57.2	87.0	[84.7-94.5]	96.0	[75.3-98.8]	87.0	152.6	87.0	87.0	
Switzerland	500	79.9	[77.9-85.6]	87.9	[53.7-106.2]	79.9	124.6	79.9	79.9	117.1	[113.8-126.6]	126.1	[82.2-152.1]	117.1	199.0	117.1	117.1	
United Kingdom	500	61.9	[60.3-66.6]	69.9	[48.6-75.2]	61.9	99.4	61.9	61.9	93.2	[90.6-101.2]	102.1	[75.5-110.9]	93.2	162.0	93.2	93.2	
emission rates from the intermodal routing (IM) [gCO ₂ e/ton-km]	Austria	500	32.0	[31.1-33.4]	33.9	[18.8-45.1]	[31.7-32.5]	43.1	14.2	[32.0-35.6]	38.9	[38.4-40.5]	41.0	[24.3-53.5]	[38.5-39.9]	59.3	20.1	[38.9-45.6]
	Belgium	500	20.6	[19.9-21.4]	21.7	[11.8-29.3]	[20.3-21.0]	26.7	6.8	[20.6-23.2]	23.8	[23.6-24.5]	25.0	[14.4-33.3]	[23.5-24.6]	35.1	9.1	[23.8-28.6]
	Bulgaria	500	25.2	[24.5-26.3]	26.6	[14.7-35.7]	[25.0-25.8]	32.4	6.7	[25.2-26.9]	28.9	[27.8-29.5]	30.3	[17.6-40.0]	[28.4-29.9]	42.0	9.2	[28.9-32.0]
	Croatia	495	28.5	[27.6-30.0]	30.8	[18.1-38.9]	[28.3-28.9]	39.7	14.8	[28.5-30.0]	36.1	[35.5-37.8]	38.6	[24.5-47.8]	[35.8-36.9]	56.8	21.6	[36.1-42.7]
	Czech Republic	500	25.7	[24.9-26.8]	27.2	[15.6-35.9]	[25.4-26.3]	33.6	8.2	[25.7-28.3]	30.1	[29.8-30.9]	31.7	[19.1-41.0]	[29.6-31.1]	44.5	11.4	[30.1-35.2]
	Denmark	500	25.7	[25.0-26.8]	27.2	[15.9-35.6]	[25.4-26.3]	33.1	7.2	[25.7-27.6]	29.6	[29.4-30.3]	31.2	[19.1-40.1]	[29.1-30.7]	43.1	9.8	[29.6-33.0]
	Estonia	500	22.7	[21.9-23.6]	24.1	[16.5-28.8]	[22.4-23.3]	39.1	5.2	[22.7-24.0]	25.9	[25.8-26.5]	27.5	[19.3-42.6]	[25.5-27.0]	37.7	7.3	[25.9-28.4]
	Finland	500	21.7	[21.0-22.6]	23.1	[15.9-27.5]	[21.4-22.3]	27.9	5.3	[21.7-22.9]	25.0	[24.8-25.5]	26.5	[18.7-31.2]	[24.5-26.0]	36.4	7.3	[25.0-27.2]
	France	499	20.9	[20.3-21.9]	22.3	[13.6-28.2]	[23.7-24.1]	28.4	10.0	[20.9-23.3]	20.7	[20.5-26.8]	27.3	[17.6-33.8]	[25.4-26.3]	39.6	14.2	[25.7-30.2]
	Germany	500	28.8	[27.9-29.9]	30.3	[15.9-41.6]	[28.5-29.4]	37.2	8.2	[28.8-31.5]	33.2	[33.0-34.1]	34.9	[19.5-47.0]	[32.7-34.4]	48.8	11.4	[33.2-38.3]
	Greece	500	30.6	[29.8-31.8]	32.1	[15.7-45.6]	[30.3-31.4]	39.3	8.2	[30.6-32.1]	35.1	[34.8-35.8]	36.6	[19.1-51.1]	[34.5-36.3]	51.0	11.3	[35.1-37.7]
	Hungary	500	24.4	[23.7-25.6]	26.1	[15.3-33.5]	[24.1-24.9]	32.9	9.8	[24.4-27.2]	29.6	[29.3-30.8]	31.5	[19.7-39.6]	[29.2-30.5]	45.2	14.0	[29.6-34.9]
	Italy	478	28.5	[27.6-30.3]	30.8	[18.9-38.2]	[28.3-28.9]	39.8	15.5	[28.5-34.0]	36.4	[35.7-38.4]	38.8	[25.4-47.4]	[36.0-37.1]	57.1	22.4	[36.4-46.3]
	Latvia	500	23.5	[22.7-24.5]	25.0	[16.7-30.3]	[23.2-24.1]	30.2	5.6	[23.5-25.0]	27.0	[26.8-27.6]	28.6	[19.7-34.2]	[26.5-28.1]	39.3	7.8	[27.0-29.7]
	Lithuania	500	23.7	[22.9-24.7]	25.1	[16.5-30.9]	[23.4-24.3]	30.3	5.3	[23.7-25.3]	27.0	[26.8-27.6]	28.5	[19.3-37.2]	[26.5-28.1]	39.1	7.3	[27.0-30.0]
	Luxembourg	500	19.9	[19.3-20.8]	21.0	[11.4-28.3]	[19.7-20.3]	26.0	7.1	[19.9-22.9]	23.2	[23.0-23.9]	24.4	[14.0-32.4]	[22.9-23.9]	34.4	9.6	[23.2-28.9]
	Netherlands	500	20.1	[19.5-21.0]	21.3	[12.1-28.2]	[21.9-20.6]	26.1	6.3	[20.1-22.4]	23.3	[23.1-23.9]	24.6	[14.7-32.0]	[22.9-24.1]	34.3	8.6	[23.3-27.5]
	Norway	500	25.0	[24.4-26.1]	26.6	[16.5-33.6]	[24.8-25.5]	32.9	12.0	[25.0-26.4]	29.9	[29.6-30.9]	31.6	[20.6-39.3]	[29.6-30.7]	44.4	16.1	[29.9-32.5]
	Poland	500	25.4	[24.6-26.5]	27.1	[16.7-34.1]	[25.1-26.0]	33.2	7.5	[25.4-27.6]	29.8	[29.5-30.6]	31.5	[20.4-39.1]	[29.5-30.8]	44.1	10.6	[29.6-32.9]
	Portugal	500	17.7	[17.2-18.5]	18.8	[11.3-24.1]	[17.5-18.1]	23.0	5.7	[17.7-19.0]	20.6	[20.4-21.1]	21.7	[13.7-27.5]	[20.2-21.3]	30.2	7.7	[20.6-22.9]
	Romania	500	23.5	[22.8-24.6]	25.1	[14.7-32.4]	[23.3-24.0]	31.1	8.3	[23.5-25.6]	28.0	[27.7-28.8]	29.6	[18.3-37.7]	[27.6-28.9]	41.9	11.7	[28.0-31.7]
	Slovakia	500	25.1	[24.3-26.3]	26.8	[15.7-34.5]	[24.9-25.6]	33.7	10.2	[25.1-27.8]	30.4	[30.0-31.4]	32.2	[18.9-40.8]	[30.3-31.2]	46.1	14.5	[30.4-35.3]
	Slovenia	498	26.8	[26.0-28.1]	28.7	[17.0-36.6]	[26.6-27.3]	36.4	11.8	[26.8-31.5]	32.9	[32.4-34.2]	34.9	[22.0-43.7]	[32.5-33.7]	50.4	16.9	[32.9-41.6]
	Spain	500	18.7	[18.1-19.5]	19.8	[12.1-25.3]	[18.5-19.1]	24.5	7.0	[18.7-20.3]	22.0	[21.8-22.7]	23.2	[14.9-29.2]	[21.7-22.7]	32.8	9.6	[22.0-25.1]
	Sweden	500	24.8	[24.1-25.7]	26.2	[16.1-33.5]	[24.6-25.3]	31.6	9.9	[24.8-26.4]	28.6	[28.4-29.3]	30.1	[19.2-37.9]	[28.2-29.5]	41.1	12.7	[28.6-31.6]
Switzerland	496	34.0	[33.1-35.7]	36.3	[22.0-46.1]	[33.8-34.5]	47.3	19.9	[34.0-38.3]	43.3	[42.6-45.3]	45.7	[29.4-57.1]	[42.9-44.0]	67.7	28.3	[43.3-51.1]	
United Kingdom	500	18.8	[18.3-19.7]	20.1	[12.4-25.3]	[18.6-19.2]	24.9	7.1	[18.8-20.5]	22.4	[22.2-23.1]	23.7	[15.4-29.4]	[22.1-23.1]	33.6	9.8	[22.4-25.4]	
emission rates from the rail section (part of the IM routing) [gCO ₂ e/ton-km]	Austria	500	24.6	[23.9-25.4]	25.4	[12.3-37.0]	[24.3-25.3]	29.8	2.8	24.6	26.1	[26.0-26.2]	26.9	[13.3-39.0]	[25.6-27.3]	35.6	3.0	26.1
	Belgium	500	17.7	[17.2-18.3]	18.3	[9.4-26.1]	[17.5-18.2]	21.5	2.7	17.7	18.8	[17.7-18.9]	19.4	[10.1-27.6]	[18.4-19.7]	25.7	2.8	18.8
	Bulgaria	500	22.6	[21.9-23.3]	23.4	[12.2-33.0]	[22.3-23.3]	27.4	2.3	22.6	24.1	[23.9-24.1]	24.8	[13.3-34.9]</				

	c_i	$ S $	heavy goods shipments								voluminous goods shipments								
			[-]	I		II		III		IV		V		VI		VII		VIII	
				[-]															
emission rates from the road-only routing (RO) [gCO ₂ e/ton-km]	Austria	500	54.5	[53.3-58.1]	62.5	[50.3-58.7]	54.5	89.4	54.5	54.5	83.6	[81.3-90.1]	92.5	[78.1-89.1]	83.6	147.6	83.6	83.6	
	Belgium	500	51.5	[50.3-54.9]	59.4	[48.8-54.1]	51.5	85.2	51.5	51.5	79.5	[76.1-85.9]	88.5	[76.1-83.9]	79.5	141.3	79.5	79.5	
	Bulgaria	500	55.1	[53.8-58.7]	63.0	[49.2-60.9]	55.1	90.2	55.1	55.1	84.3	[82.1-91.0]	93.2	[76.5-92.1]	84.3	148.7	84.3	84.3	
	Croatia	500	56.9	[55.6-60.6]	64.9	[49.0-64.9]	56.9	92.9	56.9	56.9	86.9	[84.5-93.5]	95.8	[76.3-97.5]	86.9	152.7	86.9	86.9	
	Czech Republic	500	52.4	[51.1-55.8]	60.4	[50.0-54.8]	52.4	86.5	52.4	52.4	80.8	[78.4-87.0]	89.7	[77.6-84.0]	80.8	143.3	80.8	80.8	
	Denmark	500	49.1	[48.0-52.5]	57.1	[48.4-49.8]	49.1	81.9	49.1	49.1	76.4	[74.3-82.6]	85.3	[75.5-77.3]	76.4	136.4	76.4	76.4	
	Estonia	500	49.7	[48.6-53.1]	57.7	[48.1-51.3]	49.7	82.7	49.7	49.7	77.2	[75.1-83.4]	86.1	[75.0-79.4]	77.2	137.7	77.2	77.2	
	Finland	500	51.5	[49.6-56.4]	59.5	[50.0-53.0]	51.5	84.7	51.5	51.5	79.1	[76.4-87.0]	88.1	[77.2-81.1]	79.1	140.0	79.1	79.1	
	France	500	55.2	[54.1-59.0]	63.2	[49.0-61.5]	55.2	90.4	55.2	55.2	84.5	[82.4-91.3]	93.5	[76.2-92.9]	84.5	149.0	84.5	84.5	
	Germany	500	51.2	[50.1-54.7]	59.2	[49.0-53.5]	51.2	84.8	51.2	51.2	79.2	[77.1-85.6]	88.1	[76.2-82.2]	79.2	140.7	79.2	79.2	
	Greece	500	58.1	[56.8-61.9]	66.1	[49.0-67.2]	58.1	94.4	58.1	58.1	88.4	[86.1-95.2]	97.3	[76.2-100.5]	88.4	154.9	88.4	88.4	
	Hungary	500	52.8	[51.6-56.3]	60.8	[48.8-56.8]	52.8	87.0	52.8	52.8	81.3	[79.1-87.8]	90.2	[76.0-86.6]	81.3	144.0	81.3	81.3	
	Italy	500	59.8	[58.4-64.1]	67.8	[49.4-70.2]	59.8	96.6	59.8	59.8	90.5	[88.1-98.1]	99.4	[76.6-104.4]	90.5	158.0	90.5	90.5	
	Latvia	500	50.0	[48.9-53.4]	58.0	[48.5-51.6]	50.0	83.2	50.0	50.0	77.7	[75.5-83.9]	86.6	[75.6-79.6]	77.7	138.4	77.7	77.7	
	Lithuania	500	50.2	[49.0-53.6]	58.1	[48.8-51.5]	50.2	83.3	50.2	50.2	77.8	[75.7-84.1]	86.7	[76.0-79.6]	77.8	138.6	77.8	77.8	
	Luxembourg	500	52.8	[51.6-56.3]	60.8	[49.1-56.5]	52.8	87.1	52.8	52.8	81.4	[79.1-87.8]	90.3	[76.4-86.3]	81.4	144.1	81.4	81.4	
	Netherlands	500	50.1	[48.9-53.5]	58.1	[48.5-51.7]	50.1	83.3	50.1	50.1	77.8	[75.5-83.9]	86.7	[75.7-79.9]	77.8	138.7	77.8	77.8	
	Norway	500	50.5	[49.1-54.6]	58.4	[49.2-51.7]	50.5	83.5	50.5	50.5	78.0	[75.7-85.0]	86.9	[76.3-79.6]	78.0	138.6	78.0	78.0	
	Poland	500	50.6	[49.5-54.1]	58.6	[49.0-52.2]	50.6	84.0	50.6	50.6	78.4	[76.3-84.7]	87.3	[76.3-80.5]	78.4	139.5	78.4	78.4	
	Portugal	500	58.5	[57.3-62.3]	66.5	[48.9-68.1]	58.5	95.0	58.5	58.5	88.9	[86.6-95.8]	97.8	[76.1-101.7]	88.9	155.7	88.9	88.9	
	Romania	500	53.7	[52.6-57.4]	61.7	[49.2-58.2]	53.7	88.2	53.7	53.7	82.5	[80.4-89.2]	91.4	[76.5-88.5]	82.5	145.8	82.5	82.5	
	Slovakia	500	52.3	[51.2-55.9]	60.3	[49.7-54.9]	52.3	86.2	52.3	52.3	80.6	[78.6-87.2]	89.5	[77.1-84.1]	80.6	142.8	80.6	80.6	
	Slovenia	500	55.1	[53.9-58.7]	63.1	[49.4-60.9]	55.1	90.3	55.1	55.1	84.4	[82.1-91.0]	93.4	[76.8-92.1]	84.4	148.9	84.4	84.4	
	Spain	500	59.4	[58.1-63.2]	67.3	[49.3-69.4]	59.4	96.2	59.4	59.4	90.0	[87.7-97.0]	99.0	[76.7-103.4]	90.0	157.5	90.0	90.0	
	Sweden	500	50.8	[49.0-55.4]	58.8	[49.7-51.9]	50.8	83.8	50.8	50.8	78.3	[76.6-85.7]	87.3	[76.9-79.8]	78.3	138.9	78.3	78.3	
	Switzerland	500	55.3	[54.1-59.0]	63.3	[50.5-60.2]	55.3	90.6	55.3	55.3	84.7	[82.5-91.4]	93.6	[78.2-91.2]	84.7	149.2	84.7	84.7	
	United Kingdom	500	50.1	[48.8-53.7]	58.1	[48.9-51.4]	50.1	83.2	50.1	50.1	77.7	[75.4-84.1]	86.7	[76.1-79.4]	77.7	138.4	77.7	77.7	
	emission rates from the intermodal routing (IM) [gCO ₂ e/ton-km]	Austria	500	27.2	[26.4-28.4]	29.1	[22.4-31.9]	[26.9-27.8]	36.0	9.0	[27.2-29.5]	32.5	[32.2-33.4]	34.6	[27.2-37.7]	[32.0-33.6]	48.7	12.9	[32.5-36.8]
		Belgium	500	22.8	[22.0-23.8]	24.5	[19.7-25.9]	[22.5-23.5]	29.3	4.9	[22.8-24.7]	26.3	[26.1-26.7]	28.0	[23.0-29.5]	[25.7-27.5]	38.3	7.0	[26.3-29.7]
		Bulgaria	500	26.8	[26.0-27.9]	28.4	[19.6-34.1]	[26.5-27.5]	34.4	6.0	[26.8-28.3]	30.7	[30.5-31.2]	32.3	[22.9-38.4]	[30.1-31.9]	44.5	8.4	[30.7-33.4]
Croatia		500	26.3	[25.5-27.5]	28.3	[20.9-31.6]	[26.0-26.9]	35.2	9.4	[26.3-28.2]	31.8	[31.5-32.8]	34.0	[25.9-37.7]	[31.3-32.9]	48.2	13.6	[31.8-35.4]	
Czech Republic		500	27.1	[26.2-28.2]	29.1	[23.3-30.8]	[26.7-27.8]	35.6	7.7	[27.1-29.7]	32.0	[31.8-32.8]	34.2	[28.0-36.1]	[31.5-33.3]	47.7	11.2	[32.0-36.9]	
Denmark		500	23.9	[23.2-25.0]	25.9	[21.7-26.2]	[23.7-24.6]	31.5	7.4	[23.9-26.1]	28.4	[28.2-29.1]	30.5	[26.0-30.8]	[27.9-29.5]	42.2	10.5	[28.4-32.1]	
Estonia		462	26.6	[25.9-28.1]	29.9	[24.9-28.3]	[26.5-27.0]	39.9	17.7	[26.6-32.8]	36.7	[36.0-38.8]	40.3	[34.8-38.7]	[36.4-37.3]	61.1	27.1	[36.7-48.1]	
Finland		500	22.5	[21.8-23.8]	25.2	[20.9-24.1]	[23.2-22.8]	33.5	14.6	[22.5-26.8]	30.8	[30.2-32.5]	33.8	[29.0-32.6]	[31.5-31.3]	50.9	22.3	[30.8-38.7]	
France		500	21.3	[20.6-22.2]	22.9	[18.1-24.4]	[21.0-21.8]	28.0	6.3	[21.8-27.1]	25.2	[25.0-25.8]	26.9	[21.8-28.6]	[24.7-26.2]	37.5	9.0	[25.2-29.9]	
Germany		500	24.8	[24.0-25.9]	26.8	[21.7-27.9]	[24.5-25.5]	32.6	6.8	[24.8-27.1]	29.3	[29.1-30.0]	31.4	[26.0-32.6]	[28.8-30.5]	43.6	9.8	[29.3-33.5]	
Greece		500	31.4	[30.3-32.6]	33.0	[19.7-43.1]	[31.0-32.1]	40.2	7.5	[31.4-32.6]	35.9	[35.7-36.6]	37.6	[23.4-48.4]	[35.3-37.2]	52.1	10.4	[35.9-38.2]	
Hungary		500	26.6	[25.8-27.8]	28.6	[22.3-30.9]	[26.3-27.3]	35.2	7.8	[26.6-28.8]	31.7	[31.4-32.5]	33.8	[27.1-36.2]	[31.1-32.8]	47.5	11.5	[31.7-35.4]	
Italy		500	24.1	[23.3-25.1]	25.6	[17.5-30.6]	[23.8-24.7]	31.0	6.2	[24.1-25.6]	27.7	[27.5-28.4]	29.3	[20.8-34.7]	[27.2-28.8]	40.4	8.6	[27.7-30.5]	
Latvia		237	31.9	[30.9-33.7]	36.1	[30.3-33.4]	[31.7-32.2]	49.2	24.0	[31.9-41.4]	45.4	[44.3-48.2]	50.1	[43.6-47.3]	[45.2-46.0]	77.2	36.9	[47.5-51.2]	
Lithuania		439	28.8	[28.0-30.5]	32.5	[27.2-30.4]	[28.7-29.1]	43.8	20.3	[28.8-37.2]	40.3	[39.5-42.8]	44.4	[38.5-42.2]	[40.1-40.9]	67.7	31.2	[40.3-55.6]	
Luxembourg		500	22.2	[21.4-23.1]	23.7	[18.7-25.6]	[21.8-22.8]	28.3	4.4	[22.2-23.9]	25.3	[25.2-25.7]	26.9	[21.7-29.0]	[24.8-26.5]	36.6	6.2	[25.3-28.5]	
Netherlands		500	23.3	[22.5-24.3]	25.1	[20.5-26.0]	[22.9-24.0]	30.2	5.4	[23.3-25.3]	27.1	[26.9-27.6]	29.0	[24.2-30.0]	[26.6-28.3]	39.8	7.8	[27.1-30.8]	
Norway		500	23.5	[22.9-24.6]	25.4	[20.8-26.2]	[23.3-23.9]	31.5	12.4	[23.5-25.1]	28.9	[28.6-30.0]	31.0	[25.8-32.1]	[28.6-29.7]	43.6	16.9	[29.4-33.1]	
Poland		500	27.2	[26.3-28.5]	29.8	[24.8-29.6]	[26.9-27.8]	37.7	11.5	[27.2-30.9]	34.2	[33.8-35.6]	37.1	[31.6-36.8]	[33.8-35.3]	53.5	17.3	[34.2-41.1]	
Portugal		500	17.1	[16.6-17.9]	18.3	[13.9-20.3]	[16.9-17.6]	22.1	4.6	[17.1-18.1]	19.8	[19.7-20.2]	21.1	[16.4-23.3]	[19.5-20.7]	29.0	6.3	[19.8-21.6]	
Romania		500	25.5	[24.8-26.6]	27.3	[20.4-30.7]	[25.2-26.2]	33.5	7.3	[25.5-27.3]	30.1	[29.9-30.8]	32.0	[24.5-35.7]	[29.6-31.2]	44.7	10.5	[30.1-33.2]	
Slovakia		500	30.7	[29.9-32.1]	33.1	[25.6-35.9]	[30.4-31.4]	41.1	10.4	[30.7-33.5]	37.1	[36.8-38.2]	39.6	[31.4-42.8]	[36.6-38.3]	56.1	15.3	[37.1-42.1]	
Slovenia		500	24.7	[24.0-25.8]	26.5	[20.1-29.4]	[24.4-25.4]	32.2	6.6	[24.7-26.9]	28.9	[28.7-29.6]	30.8	[24.0-33.9]	[28.4-30.1]	42.7	9.4	[28.9-33.0]	
Spain		500	17.8	[17.3-18.6]	19.1	[14.7-20.9]	[17.6-18.3]	23.1	4.9	[17.8-18.9]	20.7	[20.6-21.2]	22.0	[17.4-24.1]	[20.3-21.6]	30.4	6.8	[20.7-22.7]	
Sweden		500	23.3	[22.7-24.3]	25.1	[21.3-25.3]	[23.1-23.8]	30.4	10.5	[23.3-25.1]	27.8	[27.6-28.6]	29.7	[25.7-30.0]	[27.4-28.7]	40.8	14.0	[28.3-31.1]	
Switzerland		500	27.3	[26.5-28.5]	29.1	[20.7-33.8]	[27.0-27.9]	35.8	8.9	[27.3-28.9]	32.3	[32.1-33.2]	34.2	[25.1-39.5]	[31.8-33.5]	48.0	12.5	[32.3-35.4]	
United Kingdom		500	22.2	[21.5-23.2]	23.9	[18.7-25.8]	[21.9-22.8]	29.1	6.0	[22.2-23.6]	26.1	[25.9-26.7]	27.9	[22.3-29.9]	[25.6-27.2]	38.6	8.6	[26.1-28.6]	
emission rates from the rail section (part of the IM routing) [gCO ₂ e/ton-km]		Austria	500	22.2	[21.5-23.1]	23.4	[17.9-26.5]	[21.9-23.0]	27.1	1.6	22.2	23.9	[23.8-24.0]	25.1	[19.4-28.4]	[23.3-25.2]	32.8	1.7	23.9
		Belgium	500	20.6	[19.9-21.4]	21.8	[17.5-23.8]	[20.3-21.4]	25.1	1.4	20.6	22.3	[22.1-22.3]	23.5	[19.0-25.6]	[21.7-23.5]	30.6	1.5	22.3
		Bulgaria																	

	c_i	S	heavy goods shipments								voluminous goods shipments									
			I	II	III	IV	V	VI	VII	VIII	I	II	III	IV	V	VI	VII	VIII		
emission rates from the road-only routing (RO) [gCO ₂ e/ton-km]	Austria	500	54.6	[53.3-58.1]	62.6	[50.6-58.5]	54.6	89.6	54.6	54.6	83.7	[81.3-90.1]	92.7	[78.4-89.0]	83.7	147.9	83.7	83.7		
	Belgium	500	51.8	[50.7-55.4]	59.8	[48.8-54.8]	51.8	85.6	51.8	80.0	77.9	[79.9-86.5]	88.9	[75.9-84.0]	80.0	141.9	80.0	80.0		
	Bulgaria	500	56.3	[55.1-60.0]	64.3	[49.2-63.4]	56.3	91.9	56.3	56.3	86.0	[83.7-92.7]	94.9	[76.5-95.5]	86.0	151.3	86.0	86.0		
	Croatia	500	56.7	[55.5-60.4]	64.7	[49.0-64.5]	56.7	92.5	56.7	56.7	86.6	[84.2-93.3]	95.5	[76.2-96.9]	86.6	152.2	86.6	86.6		
	Czech Republic	500	52.4	[51.2-55.9]	60.4	[50.1-54.8]	52.4	86.5	52.4	52.4	80.9	[78.6-87.2]	89.8	[77.8-84.0]	80.9	143.4	80.9	80.9		
	Denmark	500	48.9	[47.9-52.5]	56.9	[48.2-49.7]	48.9	81.6	48.9	48.9	76.1	[74.3-82.5]	85.1	[75.2-77.1]	76.1	135.9	76.1	76.1		
	Estonia	500	49.9	[48.6-53.2]	57.8	[48.4-51.3]	49.9	83.0	49.9	49.9	77.4	[75.2-83.5]	86.4	[75.5-79.4]	77.4	138.2	77.4	77.4		
	Finland	500	51.0	[49.3-55.8]	59.0	[49.7-52.3]	51.0	84.1	51.0	51.0	78.6	[75.9-86.2]	87.5	[76.8-80.3]	78.6	139.2	78.6	78.6		
	France	500	56.2	[55.1-60.0]	64.2	[48.9-63.5]	56.2	91.7	56.2	56.2	85.8	[83.8-92.8]	94.7	[76.1-95.4]	85.8	150.8	85.8	85.8		
	Germany	500	51.6	[50.3-55.0]	59.6	[49.1-54.1]	51.6	85.4	51.6	51.6	79.8	[77.5-86.0]	88.7	[76.4-83.1]	79.8	141.8	79.8	79.8		
	Greece	500	60.3	[59.0-64.1]	68.3	[49.1-71.5]	60.3	97.5	60.3	60.3	91.3	[88.9-98.3]	100.3	[76.4-106.2]	91.3	159.6	91.3	91.3		
	Hungary	500	53.1	[51.8-56.5]	61.0	[48.9-57.3]	53.1	87.4	53.1	53.1	81.7	[79.4-88.1]	90.6	[76.1-87.3]	81.7	144.7	81.7	81.7		
	Italy	500	60.4	[58.9-64.7]	68.4	[49.6-71.2]	60.4	97.5	60.4	60.4	91.3	[88.7-98.8]	100.3	[76.9-105.8]	91.3	159.4	91.3	91.3		
	Latvia	500	49.7	[48.6-53.1]	57.7	[48.3-51.1]	49.7	82.7	49.7	49.7	77.2	[75.1-83.5]	86.2	[75.4-79.1]	77.2	137.7	77.2	77.2		
	Lithuania	500	50.3	[49.1-53.7]	58.3	[48.9-51.7]	50.3	83.6	50.3	50.3	78.0	[75.8-84.2]	87.0	[76.1-79.9]	78.0	139.0	78.0	78.0		
	Luxembourg	500	53.2	[51.9-56.7]	61.2	[49.2-57.2]	53.2	87.7	53.2	53.2	82.0	[79.5-88.2]	90.9	[76.6-87.2]	82.0	145.2	82.0	82.0		
	Netherlands	500	50.2	[49.0-53.6]	58.2	[48.4-52.0]	50.2	83.4	50.2	50.2	77.9	[75.7-84.1]	86.8	[75.4-80.3]	77.9	138.7	77.9	77.9		
	Norway	500	50.7	[49.4-54.5]	58.7	[49.0-52.5]	50.7	84.0	50.7	50.7	78.5	[76.2-85.1]	87.4	[76.2-80.8]	78.5	139.5	78.5	78.5		
	Poland	500	50.7	[49.6-54.2]	58.7	[49.2-52.3]	50.7	84.1	50.7	50.7	78.6	[76.4-84.9]	87.5	[76.5-80.6]	78.6	139.8	78.6	78.6		
	Portugal	500	58.8	[57.5-62.5]	66.8	[48.9-68.7]	58.8	95.4	58.8	58.8	89.3	[86.9-96.1]	98.3	[76.1-102.5]	89.3	156.5	89.3	89.3		
	Romania	500	55.0	[53.9-58.8]	63.0	[49.2-60.8]	55.0	90.1	55.0	55.0	84.2	[82.2-91.1]	93.2	[76.5-91.9]	84.2	148.5	84.2	84.2		
Slovakia	500	53.0	[51.8-56.6]	61.0	[49.9-56.1]	53.0	87.3	53.0	53.0	81.6	[79.4-88.1]	90.5	[77.5-85.7]	81.6	144.4	81.6	81.6			
Slovenia	500	55.2	[53.9-58.8]	63.2	[49.5-60.9]	55.2	90.4	55.2	55.2	84.5	[82.2-91.1]	93.5	[77.0-92.1]	84.5	149.1	84.5	84.5			
Spain	500	59.9	[58.5-63.6]	67.9	[49.4-70.4]	59.9	97.0	59.9	59.9	90.8	[88.3-97.6]	99.8	[76.8-104.8]	90.8	158.8	90.8	90.8			
Sweden	500	50.5	[49.0-54.9]	58.5	[49.3-51.8]	50.5	83.5	50.5	50.5	78.0	[75.6-85.3]	86.9	[76.3-79.7]	78.0	138.4	78.0	78.0			
Switzerland	500	56.3	[55.1-60.0]	64.3	[50.6-62.0]	56.3	91.9	56.3	56.3	85.9	[83.8-92.8]	94.9	[78.4-93.5]	85.9	151.1	85.9	85.9			
United Kingdom	500	50.0	[48.7-53.6]	58.0	[48.8-51.2]	50.0	83.1	50.0	50.0	77.6	[75.3-84.0]	86.5	[76.0-79.1]	77.6	138.2	77.6	77.6			
emission rates from the intermodal routing (IM) [gCO ₂ e/ton-km]	Austria	500	28.1	[27.2-29.3]	30.1	[22.9-33.2]	27.7	28.8	37.0	9.0	[28.1-30.7]	33.4	[33.1-34.3]	35.5	[27.8-39.0]	32.9	34.6	49.9	13.0	[33.4-38.2]
	Belgium	500	23.1	[22.3-24.1]	24.7	[19.8-26.4]	22.7	23.8	29.6	4.6	[23.1-25.2]	26.4	[26.3-26.9]	28.1	[23.0-29.9]	25.9	27.7	38.3	6.5	[26.4-30.2]
	Bulgaria	500	27.3	[26.5-28.4]	28.9	[19.5-35.1]	27.0	28.0	34.9	5.8	[27.3-28.9]	31.1	[31.0-31.6]	32.7	[22.8-39.4]	30.5	32.4	44.9	8.1	[31.1-34.4]
	Croatia	500	26.9	[26.1-28.1]	29.0	[21.2-32.6]	26.6	27.5	36.0	9.6	[26.9-29.0]	32.5	[32.2-33.5]	34.7	[22.6-38.8]	32.0	33.6	49.2	13.9	[32.5-36.0]
	Czech Republic	500	28.3	[27.4-29.4]	30.4	[24.2-32.4]	27.9	29.0	37.1	7.8	[28.3-31.4]	33.4	[33.1-34.2]	35.6	[29.0-37.7]	32.8	34.7	49.6	11.4	[33.4-39.1]
	Denmark	500	24.3	[23.6-25.4]	26.3	[22.0-26.7]	24.0	25.0	31.9	7.3	[24.3-26.7]	28.8	[28.6-29.5]	30.9	[26.3-31.3]	28.3	29.9	42.6	10.3	[28.8-33.1]
	Estonia	489	24.2	[23.5-25.6]	27.1	[22.6-25.9]	24.1	24.6	35.5	14.3	[24.2-29.6]	32.5	[31.9-34.2]	35.6	[30.7-34.4]	32.2	33.2	53.1	21.8	[32.5-42.3]
	Finland	500	20.5	[19.9-21.6]	22.8	[18.9-22.0]	20.3	20.8	29.6	11.5	[20.5-24.2]	27.1	[26.6-28.4]	29.6	[25.4-28.8]	26.8	27.7	43.9	17.4	[27.1-34.0]
	France	500	21.5	[20.8-22.4]	23.1	[18.2-24.8]	21.2	22.0	28.2	6.3	[21.5-23.0]	25.4	[25.2-26.0]	27.1	[21.8-28.9]	24.9	26.4	37.7	9.1	[25.4-38.2]
	Germany	500	25.2	[24.3-26.3]	27.1	[21.9-28.4]	24.8	25.9	32.9	6.4	[25.2-27.7]	29.5	[29.3-30.2]	31.6	[26.0-33.0]	29.0	30.8	43.7	9.3	[29.5-34.3]
	Greece	500	32.1	[31.3-33.3]	33.8	[19.7-44.5]	31.8	32.9	41.1	7.5	[32.1-33.5]	36.7	[36.5-37.3]	38.4	[23.4-49.9]	36.0	38.0	53.1	10.4	[36.7-39.1]
	Hungary	500	27.3	[26.4-28.4]	29.3	[22.6-31.9]	27.3	28.0	36.0	7.8	[27.3-29.8]	32.3	[32.1-33.1]	34.5	[27.4-33.1]	31.8	33.5	48.3	11.4	[32.3-36.9]
	Italy	500	24.2	[23.5-25.3]	25.7	[17.3-31.2]	23.9	24.9	31.1	6.0	[24.2-25.9]	27.8	[27.6-28.4]	29.3	[20.4-35.2]	27.7	28.9	40.4	8.3	[27.8-30.8]
	Latvia	441	28.2	[27.4-29.8]	31.7	[26.6-29.7]	28.0	28.5	42.7	19.9	[28.2-36.4]	39.4	[38.6-41.8]	43.3	[37.6-41.2]	39.1	40.0	66.1	30.5	[39.4-54.5]
	Lithuania	375	28.5	[27.8-30.2]	32.2	[26.9-30.2]	28.4	28.8	43.6	20.8	[28.5-38.8]	40.3	[39.4-42.7]	44.3	[38.4-42.1]	40.0	40.8	67.9	31.9	[40.3-59.0]
	Luxembourg	500	22.1	[21.4-23.0]	23.6	[18.5-25.7]	21.8	22.8	28.0	3.9	[22.1-24.0]	25.0	[24.9-25.3]	26.5	[21.2-28.8]	24.5	26.2	35.9	5.4	[25.0-28.5]
	Netherlands	500	23.4	[22.6-24.4]	25.2	[20.5-26.2]	23.0	24.1	30.1	5.0	[23.4-25.6]	27.0	[26.8-27.5]	28.9	[24.0-30.0]	26.8	28.2	39.4	7.1	[27.0-31.2]
	Norway	500	23.9	[23.3-25.0]	25.9	[21.0-26.8]	23.7	24.4	32.0	12.9	[23.9-25.6]	29.4	[29.1-30.5]	31.5	[26.0-32.9]	29.1	30.2	44.3	17.5	[29.4-32.6]
	Poland	487	28.8	[27.5-29.8]	31.2	[25.9-31.1]	28.2	29.1	39.3	11.8	[28.5-32.9]	35.7	[35.2-37.0]	38.6	[32.9-38.8]	35.2	36.8	55.6	17.7	[35.7-43.9]
	Portugal	500	16.5	[16.2-17.5]	17.9	[13.5-20.1]	16.6	17.3	21.5	4.2	[16.8-17.8]	19.3	[19.2-19.6]	20.4	[15.7-22.8]	18.9	20.1	28.0	5.7	[19.3-21.1]
	Romania	500	26.0	[25.2-27.1]	27.8	[20.4-31.6]	25.7	26.7	33.9	7.1	[26.0-27.9]	30.4	[30.3-31.2]	32.3	[24.4-36.5]	29.9	31.6	45.0	10.2	[30.4-33.9]
Slovakia	500	32.5	[31.5-33.9]	34.8	[26.7-38.2]	32.1	33.2	43.3	10.9	[32.1-33.2]	39.1	[38.7-40.2]	41.6	[32.6-45.5]	38.5	40.4	58.9	16.0	[39.1-44.9]	
Slovenia	500	25.3	[24.5-26.3]	27.0	[20.3-30.3]	25.0	26.0	32.8	6.5	[25.3-27.7]	29.4	[29.2-30.0]	31.2	[24.1-34.7]	28.9	30.6	43.1	9.2	[29.4-33.9]	
Spain	500	17.8	[17.2-18.5]	19.0	[14.5-18.2]	17.2	18.2	22.9	4.8	[17.8-18.9]	20.5	[20.4-20.9]	21.8	[17.1-24.0]	20.1	21.4	30.0	6.6	[20.5-22.6]	
Sweden	500	23.5	[22.9-24.5]	25.3	[21.4-25.5]	23.3	24.0	30.5	10.7	[23.5-25.5]	27.9	[27.7-28.7]	29.9	[25.7-30.1]	27.5	28.8	40.8	14.1	[27.9-31.5]	
Switzerland	500	27.7	[26.9-29.4]	29.4	[20.7-34.6]	27.4	28.3	36.2	8.8	[27.7-29.5]	32.6	[32.4-33.5]	34.5	[25.0-40.3]	32.1	33.8	48.3	13.2	[32.6-35.9]	
United Kingdom	500	22.3	[21.6-23.2]	23.9	[18.6-26.0]	22.0	22.9	29.0	5.8	[22.3-23.8]	26.0	[25.9-26.6]	27.8	[22.0-30.0]	25.5	27.1	38.4	8.2	[26.0-28.7]	
emission rates from the rail section (part of the IM routing) [gCO ₂ e/ton-km]	Austria	500	23.1	[22.3-23.9]	24.3	[18.5-27.7]	22.7	23.9	28.1	1.6	23.1	24.8	[24.6-24.8]	26.0	[20.0-29.6]	24.2	26.2	34.0	1.7	24.8
	Belgium																			

	c_i	S	heavy goods shipments								voluminous goods shipments							
			I	II	III	IV	V	VI	VII	VIII	I	II	III	IV	V	VI	VII	VIII
emission rates from the road-only routing (RO) [$gCO_2e/ton\cdot km$]	Austria	500	59.2	[58.0-63.1]	67.2	[51.4-67.1]	59.2	96.0	59.2	59.2	89.8	[87.6-96.9]	98.8	[79.4-100.3]	89.8	157.2	89.8	89.8
	Belgium	500	53.8	[52.5-57.2]	61.8	[47.5-60.0]	53.8	88.5	53.8	53.8	82.7	[80.3-89.0]	91.6	[74.3-91.0]	82.7	146.2	82.7	82.7
	Bulgaria	500	63.5	[62.3-67.7]	71.5	[48.6-78.4]	63.5	101.9	63.5	63.5	95.5	[93.3-103.1]	104.4	[75.7-115.3]	95.5	165.8	95.5	95.5
	Croatia	500	66.8	[65.2-70.7]	74.7	[48.6-84.9]	66.8	106.6	66.8	66.8	100.0	[97.2-107.2]	108.9	[75.8-124.1]	100.0	173.0	100.0	100.0
	Czech Republic	500	55.4	[54.0-58.8]	63.3	[49.7-61.0]	55.4	90.7	55.4	55.4	84.8	[82.3-91.2]	93.7	[77.3-92.3]	84.8	149.5	84.8	84.8
	Denmark	500	50.5	[49.2-62.6]	58.5	[47.6-53.4]	50.5	83.8	50.5	50.5	78.2	[76.0-84.5]	87.2	[74.4-82.1]	78.2	139.3	78.2	78.2
	Estonia	500	51.2	[50.1-54.7]	59.2	[48.1-54.3]	51.2	84.8	51.2	51.2	79.2	[77.1-85.6]	88.1	[75.1-83.3]	79.2	140.7	79.2	79.2
	Finland	500	52.0	[50.6-56.0]	60.0	[48.7-55.4]	52.0	85.8	52.0	52.0	80.2	[77.8-87.0]	89.1	[75.7-84.6]	80.2	142.1	80.2	80.2
	France	500	54.7	[53.5-58.3]	62.7	[48.8-60.6]	54.7	89.6	54.7	54.7	83.8	[81.6-90.5]	92.7	[75.9-91.7]	83.8	147.9	83.8	83.8
	Germany	500	54.6	[53.2-58.0]	62.6	[48.6-60.5]	54.6	89.6	54.6	54.6	83.8	[81.2-90.0]	92.7	[75.9-91.7]	83.8	148.0	83.8	83.8
	Greece	500	65.1	[63.7-69.1]	73.1	[48.9-81.4]	65.1	104.3	65.1	65.1	97.8	[95.1-105.0]	106.7	[76.1-119.5]	97.8	169.6	97.8	97.8
	Hungary	500	58.9	[57.6-62.6]	66.9	[48.2-69.5]	58.9	95.5	58.9	58.9	89.4	[87.0-96.3]	98.4	[75.2-103.6]	89.4	156.6	89.4	89.4
	Italy	500	66.6	[64.8-71.4]	74.6	[49.7-83.5]	66.6	106.1	66.6	66.6	99.5	[96.5-107.6]	108.4	[77.0-121.9]	99.5	171.8	99.5	99.5
	Latvia	500	51.1	[49.9-54.8]	59.1	[48.2-54.0]	51.1	84.7	51.1	51.1	79.1	[76.9-85.4]	88.0	[75.2-83.0]	79.1	140.6	79.1	79.1
	Lithuania	500	51.2	[50.1-54.8]	59.2	[48.0-54.3]	51.2	84.7	51.2	51.2	79.1	[77.2-85.7]	88.0	[74.9-83.0]	79.1	140.5	79.1	79.1
	Luxembourg	500	54.9	[53.7-58.5]	62.9	[49.2-60.5]	54.9	89.9	54.9	54.9	84.1	[81.8-90.7]	93.0	[76.6-91.6]	84.1	148.3	84.1	84.1
	Netherlands	500	50.3	[49.1-53.6]	58.2	[45.3-55.2]	50.3	83.5	50.3	50.3	77.9	[75.7-84.1]	86.9	[71.3-84.6]	77.9	138.9	77.9	77.9
	Norway	500	52.3	[50.8-56.3]	60.3	[48.7-55.9]	52.3	86.2	52.3	52.3	80.6	[78.0-87.3]	89.5	[75.8-85.3]	80.6	142.7	80.6	80.6
	Poland	500	53.4	[52.1-56.9]	61.4	[48.3-58.5]	53.4	87.9	53.4	53.4	82.1	[79.8-88.5]	91.1	[75.3-88.9]	82.1	145.4	82.1	82.1
	Portugal	500	55.8	[54.6-59.4]	63.7	[48.7-62.9]	55.8	91.2	55.8	55.8	85.3	[83.0-92.0]	94.2	[75.8-94.7]	85.3	150.1	85.3	85.3
	Romania	500	61.1	[59.9-65.1]	69.1	[48.7-73.6]	61.1	98.6	61.1	61.1	92.4	[90.1-99.6]	101.3	[75.8-109.0]	92.4	161.1	92.4	92.4
	Slovakia	500	54.3	[53.0-57.8]	62.3	[49.2-59.4]	54.3	89.1	54.3	54.3	83.3	[81.0-89.8]	92.3	[76.6-90.1]	83.3	147.2	83.3	83.3
	Slovenia	500	68.1	[66.7-72.3]	76.1	[49.2-87.1]	68.1	108.5	68.1	68.1	101.7	[99.2-109.3]	110.7	[76.5-127.0]	101.7	175.7	101.7	101.7
	Spain	500	54.8	[53.6-58.4]	62.8	[49.5-60.1]	54.8	89.8	54.8	54.8	83.9	[81.7-90.6]	92.9	[76.9-91.0]	83.9	148.1	83.9	83.9
	Sweden	500	51.8	[50.6-55.5]	59.8	[48.2-55.5]	51.8	85.6	51.8	51.8	80.0	[77.8-86.5]	88.9	[75.1-84.8]	80.0	141.9	80.0	80.0
	Switzerland	500	63.8	[62.5-67.8]	71.8	[55.1-72.6]	63.8	102.4	63.8	63.8	96.0	[93.5-103.3]	104.9	[84.3-107.7]	96.0	166.8	96.0	96.0
	United Kingdom	500	51.0	[49.8-55.2]	59.0	[48.1-54.0]	51.0	84.3	51.0	51.0	78.7	[76.6-85.9]	87.6	[74.8-82.6]	78.7	139.7	78.7	78.7
	emission rates from the intermodal routing (IM) [$gCO_2e/ton\cdot km$]	Austria	500	25.7	[25.0-26.8]	27.4	[18.3-33.1]	25.7	34.7	11.7	[25.7-29.8]	31.5	[31.1-32.6]	33.3	[23.3-39.7]	48.0	16.5	[31.5-38.9]
		Belgium	451	19.3	[18.8-20.3]	21.3	[15.5-23.1]	19.3	24.8	13.1	[19.3-32.2]	26.1	[25.6-27.5]	28.3	[21.9-30.3]	42.7	19.5	[26.1-49.7]
Bulgaria		500	23.1	[22.5-24.0]	24.3	[14.9-31.3]	23.1	29.3	5.1	[23.1-24.8]	26.1	[26.0-26.6]	27.4	[17.4-34.8]	37.5	6.9	[26.1-29.3]	
Croatia		500	21.5	[20.9-22.4]	23.1	[12.3-30.8]	21.5	11.1	21.5	[21.5-24.3]	26.8	[26.4-27.7]	28.4	[16.7-36.8]	41.4	15.6	[26.8-31.8]	
Czech Republic		500	23.3	[22.6-24.2]	24.8	[17.3-29.2]	23.3	7.0	23.3	[23.3-28.8]	27.3	[27.1-27.9]	28.9	[21.0-33.6]	40.4	9.9	[27.3-33.8]	
Denmark		500	19.2	[18.6-20.1]	20.8	[15.7-22.7]	19.2	6.7	19.2	[23.2-33.2]	23.2	[23.0-23.9]	24.9	[19.4-26.9]	35.2	9.7	[23.2-28.9]	
Estonia		500	21.1	[20.3-21.9]	22.6	[17.7-24.4]	21.1	2.9	21.1	[20.8-21.7]	26.9	4.2	[21.2-22.6]	24.0	[23.9-24.4]	25.6	5.9	[24.0-26.1]
Finland		500	20.1	[19.5-21.0]	21.6	[17.0-23.2]	20.1	2.8	20.1	[21.6-21.5]	23.1	[23.0-23.5]	24.6	[19.8-26.4]	33.6	6.1	[23.1-25.6]	
France		497	17.6	[17.2-18.7]	19.7	[15.4-19.9]	17.6	17.7	15.7	[17.6-17.7]	25.3	[25.2-25.3]	27.7	[22.6-28.1]	43.0	23.2	[25.3-37.6]	
Germany		494	21.7	[21.1-22.7]	23.5	[16.9-26.6]	21.7	9.3	21.7	[21.7-25.2]	26.9	[26.6-27.8]	28.9	[21.7-31.1]	41.5	13.6	[26.9-35.5]	
Greece		500	29.0	[28.1-30.0]	30.3	[16.0-42.0]	29.0	7.2	29.0	[30.0-30.4]	32.9	[32.8-33.5]	34.4	[19.1-46.8]	47.6	9.9	[32.9-37.5]	
Hungary		500	20.2	[19.6-21.1]	21.7	[15.2-25.2]	20.2	7.1	20.2	[20.2-23.1]	24.3	[24.0-25.0]	25.9	[19.0-29.6]	36.7	10.2	[24.3-29.6]	
Italy		500	18.9	[18.4-19.8]	20.1	[10.3-27.6]	18.9	8.6	18.9	[18.9-19.3]	25.0	[24.2-23.5]	23.9	[13.4-32.0]	34.2	11.7	[22.7-27.8]	
Latvia		500	21.8	[21.1-22.7]	23.4	[18.3-25.4]	21.8	4.5	21.8	[21.8-23.6]	25.0	[24.9-25.4]	26.6	[21.3-28.7]	36.2	6.4	[25.0-28.2]	
Lithuania		500	21.9	[21.2-22.8]	23.4	[18.2-25.6]	21.9	4.1	21.9	[21.9-23.8]	24.9	[24.8-25.3]	26.5	[21.0-28.8]	35.8	5.7	[24.9-28.4]	
Luxembourg		n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Netherlands		500	17.3	[16.7-18.2]	19.1	[14.3-20.3]	17.3	9.2	17.3	[17.3-25.7]	22.4	[22.0-23.4]	24.3	[19.1-25.6]	35.7	13.6	[22.4-37.7]	
Norway		500	17.4	[16.8-18.2]	19.0	[13.8-20.9]	17.4	9.6	17.4	[17.4-19.3]	22.4	[22.0-23.3]	24.1	[18.3-26.4]	35.4	14.0	[22.4-35.9]	
Poland		500	23.0	[22.3-24.0]	24.7	[18.4-27.6]	23.0	6.2	23.0	[23.0-27.1]	27.0	[26.8-27.6]	28.8	[22.1-31.9]	39.9	8.9	[27.0-31.8]	
Portugal		500	11.5	[11.2-12.0]	12.4	[8.6-14.4]	11.5	5.4	11.5	[11.5-13.3]	14.0	[13.9-14.5]	14.9	[10.9-17.2]	21.3	7.4	[14.0-17.2]	
Romania		500	20.4	[19.8-21.3]	21.7	[14.8-26.0]	20.4	6.3	20.4	[20.2-20.9]	25.3	[23.8-24.5]	25.3	[17.9-30.0]	35.5	8.9	[24.0-27.8]	
Slovakia		500	22.8	[22.1-23.7]	24.3	[16.4-29.1]	22.8	3.0	22.8	[22.8-25.8]	27.3	[27.0-28.1]	28.9	[20.3-34.3]	41.1	12.0	[27.3-32.9]	
Slovenia		500	18.4	[17.9-19.1]	19.5	[10.6-26.2]	18.4	7.0	18.4	[18.4-21.7]	21.6	[21.5-22.2]	22.7	[13.3-29.9]	32.0	9.4	[21.6-27.7]	
Spain		500	12.4	[12.1-13.0]	13.4	[9.6-15.2]	12.4	1.7	12.4	[12.4-14.7]	15.7	[15.4-16.3]	16.7	[12.5-18.8]	24.4	10.0	[15.7-19.9]	
Sweden		500	15.9	[15.4-16.7]	17.3	[13.1-18.7]	15.9	6.6	15.9	[15.7-16.3]	21.7	[21.5-22.1]	19.6	[19.4-20.3]	30.2	9.6	[19.6-23.8]	
Switzerland		500	29.2	[28.6-30.7]	31.7	[21.8-36.5]	29.2	9.0	29.2	[29.1-29.3]	43.7	[40.6-36.7]	40.8	[39.9-43.3]	63.5	37.4	[40.8-54.5]	
United Kingdom		500	19.2	[18.7-20.2]	21.0	[15.4-22.9]	19.2	6.9	19.2	[19.2-22.9]	24.5	[24.2-25.6]	26.5	[20.3-28.8]	38.7	14.5	[24.5-31.5]	
emission rates from the rail section (part of the IM routing) [$gCO_2e/ton\cdot km$]		Austria	500	18.0	[17.5-18.6]	18.8	[11.6-24.5]	18.0	21.9	2.0	18.0	19.3	[19.1-19.3]	20.0	[12.5-26.0]	26.3	2.1	19.3
		Belgium	451	9.3	[8.9-9.6]	9.8	[5.2-13.4]	9.3	11.3	1.5	9.3	10.0	[9.9-10.0]	10.5	[5.7-14.2]	13.7	1.6	10.0
	Bulgaria	500	20.9	[20.3-21.6]	21.7	[12.7-29.1]	20.9	25.4	1.9	20.9	22.4	[22.2-22.4]	23.2	[13.8-30.9]	30.5	2.1	22.4	
	Croatia	500	14.9	[14.4-15.3]	15.4	[5.9-23.9]	14.9	18.0	2.8	14.9	15.8	[15.7-15.8]	16.3	[6.4-20.9]	21.6	2.9	15.8	
	Czech Republic	500	19.5	[18.9-20.2]	20.4	[13.4-25.6]	19.5	23.7	1.7	19.5	20.9	[20.8-20.9]	21.8	[14.6-27.3]	28.6	1.8	20.9	
	Denmark	500	15.5	[14.9-16.0]	16.3													

	c_i	S	heavy goods shipments								voluminous goods shipments								
			I	II	III	IV	V	VI	VII	VIII	I	II	III	IV	V	VI	VII	VIII	
																			[-]
emission rates from the road-only routing (RO) [gCO ₂ e/ton-km]	Austria	500	58.1	[56.8-61.8]	66.1	[51.8-64.4]	58.1	94.5	58.1	58.1	88.4	[86.0-95.2]	97.3	[80.0-96.8]	88.4	155.1	88.4	88.4	
	Belgium	500	52.2	[51.0-55.7]	60.2	[51.2-53.2]	52.2	86.1	52.2	52.2	80.5	[78.3-86.9]	89.4	[79.2-81.8]	80.5	142.8	80.5	80.5	
	Bulgaria	500	61.1	[59.9-65.0]	69.1	[49.2-73.1]	61.1	98.7	61.1	61.1	92.4	[90.1-99.5]	101.4	[76.5-108.3]	92.4	161.2	92.4	92.4	
	Croatia	500	63.7	[62.3-67.6]	71.7	[49.3-78.1]	63.7	102.3	63.7	63.7	95.9	[92.2-103.0]	104.8	[76.7-115.0]	95.9	166.6	95.9	95.9	
	Czech Republic	500	55.2	[53.9-58.8]	63.2	[50.7-59.7]	55.2	90.4	55.2	55.2	84.5	[82.2-91.1]	93.4	[78.6-90.5]	84.5	149.0	84.5	84.5	
	Denmark	500	48.9	[47.8-52.4]	56.9	[48.8-49.1]	48.9	81.5	48.9	48.9	76.1	[74.1-82.5]	85.0	[75.9-76.3]	76.1	135.9	76.1	76.1	
	Estonia	500	49.8	[48.7-53.3]	57.8	[48.7-50.9]	49.8	82.8	49.8	49.8	77.3	[75.3-83.6]	86.3	[75.9-78.8]	77.3	137.9	77.3	77.3	
	Finland	500	51.6	[50.2-55.5]	59.6	[49.3-53.9]	51.6	85.2	51.6	51.6	79.6	[77.2-86.4]	88.5	[76.5-82.6]	79.6	141.1	79.6	79.6	
	France	500	54.3	[53.1-57.9]	62.3	[50.1-58.6]	54.3	89.2	54.3	54.3	83.4	[81.1-89.9]	92.3	[77.7-89.1]	83.4	147.3	83.4	83.4	
	Germany	500	52.9	[51.7-56.5]	60.9	[50.4-55.4]	52.9	87.2	52.9	52.9	81.5	[79.3-88.0]	90.4	[78.2-84.8]	81.5	144.3	81.5	81.5	
	Greece	500	64.3	[63.0-68.3]	72.3	[49.2-79.5]	64.3	103.1	64.3	64.3	96.7	[94.2-104.0]	105.6	[76.5-116.8]	96.7	167.8	96.7	96.7	
	Hungary	500	57.7	[56.5-61.5]	65.7	[49.0-66.4]	57.7	93.8	57.7	57.7	87.8	[85.6-94.8]	96.7	[76.2-99.4]	87.8	154.0	87.8	87.8	
	Italy	500	63.4	[61.9-68.1]	71.3	[50.0-76.7]	63.4	101.5	63.4	63.4	95.2	[92.6-103.3]	104.1	[77.4-112.9]	95.2	165.1	95.2	95.2	
	Latvia	500	49.4	[48.3-52.9]	57.4	[48.8-50.1]	49.4	82.3	49.4	49.4	76.8	[74.8-83.1]	85.8	[75.9-77.7]	76.8	137.1	76.8	76.8	
	Lithuania	500	49.3	[48.2-52.7]	57.3	[48.8-49.8]	49.3	82.1	49.3	49.3	76.7	[74.6-82.9]	85.6	[76.0-77.3]	76.7	136.8	76.7	76.7	
	Luxembourg	500	55.0	[53.8-58.7]	63.0	[52.0-58.1]	55.0	90.2	55.0	55.0	84.3	[82.1-90.9]	93.2	[80.3-88.3]	84.3	148.7	84.3	84.3	
	Netherlands	500	49.5	[48.2-52.8]	57.5	[48.9-50.1]	49.5	82.5	49.5	49.5	77.0	[74.6-83.0]	85.9	[76.2-77.8]	77.0	137.4	77.0	77.0	
	Norway	500	52.1	[50.6-56.2]	60.1	[49.7-54.6]	52.1	85.9	52.1	52.1	80.3	[77.7-87.9]	89.2	[77.0-83.6]	80.3	142.3	80.3	80.3	
	Poland	500	51.1	[49.9-54.5]	59.1	[49.3-53.0]	51.1	84.8	51.1	51.1	79.1	[76.9-85.4]	88.1	[76.6-81.7]	79.1	140.8	79.1	79.1	
	Portugal	500	55.9	[54.6-59.5]	63.8	[49.2-62.5]	55.9	91.3	55.9	55.9	85.4	[83.1-92.0]	94.3	[76.5-94.3]	85.4	150.4	85.4	85.4	
	Romania	500	59.2	[58.0-63.0]	67.1	[49.2-69.1]	59.2	95.9	59.2	59.2	89.7	[87.5-96.8]	98.7	[76.5-103.0]	89.7	157.0	89.7	89.7	
Slovakia	500	54.5	[53.3-58.2]	62.5	[49.8-59.2]	54.5	89.4	54.5	54.5	83.6	[81.4-90.3]	92.5	[77.3-89.9]	83.6	147.6	83.6	83.6		
Slovenia	500	63.2	[61.9-67.2]	71.2	[49.9-76.5]	63.2	101.5	63.2	63.2	95.1	[92.8-102.5]	104.1	[77.4-112.9]	95.1	165.4	95.1	95.1		
Spain	500	54.9	[53.8-58.7]	62.9	[49.9-60.0]	54.9	89.9	54.9	54.9	84.1	[82.0-90.9]	93.0	[77.3-90.8]	84.1	148.3	84.1	84.1		
Sweden	500	51.1	[49.8-54.7]	59.1	[49.0-53.2]	51.1	84.6	51.1	51.1	79.0	[76.8-85.5]	88.0	[76.3-81.8]	79.0	140.4	79.0	79.0		
Switzerland	500	59.6	[58.3-63.4]	67.6	[53.9-65.4]	59.6	96.6	59.6	59.6	90.4	[88.0-97.3]	99.4	[82.8-98.1]	90.4	158.2	90.4	90.4		
United Kingdom	500	50.6	[49.2-54.6]	58.6	[49.7-51.6]	50.6	83.8	50.6	50.6	78.3	[75.8-85.1]	87.2	[77.1-79.6]	78.3	139.2	78.3	78.3		
emission rates from the intermodal routing (IM) [gCO ₂ e/ton-km]	Austria	500	27.8	[27.0-29.0]	29.6	[21.0-34.7]	27.8	28.4	37.1	10.7	[27.8-31.3]	33.5	[33.2-34.5]	35.5	[26.0-41.1]	[33.1-34.6]	50.6	15.2	[33.5-39.9]
	Belgium	493	23.4	[22.7-24.7]	26.0	[22.2-24.6]	23.4	23.7	34.5	15.3	[23.4-26.3]	31.7	[31.1-33.4]	34.6	[30.4-33.1]	[31.5-32.3]	52.1	22.9	[31.7-55.3]
	Bulgaria	500	24.7	[24.0-25.6]	26.1	[16.6-32.8]	24.7	25.3	31.5	5.5	[24.7-26.3]	28.0	[27.9-28.5]	29.4	[19.5-26.6]	[27.5-29.1]	40.4	7.5	[28.0-31.0]
	Croatia	500	24.2	[23.5-25.3]	26.0	[17.6-30.9]	24.2	24.8	32.6	9.5	[24.2-26.5]	29.4	[29.1-30.4]	31.3	[22.2-36.7]	[29.0-30.3]	44.7	13.7	[29.4-33.6]
	Czech Republic	500	27.0	[26.2-28.2]	28.9	[21.6-32.5]	27.0	27.7	35.7	8.5	[27.0-31.0]	32.1	[31.8-33.0]	34.1	[26.3-37.9]	[31.6-32.2]	48.0	12.2	[32.1-33.9]
	Denmark	500	21.9	[21.2-23.0]	24.0	[20.4-23.4]	21.9	21.6	30.2	9.2	[21.9-26.2]	27.4	[27.1-28.5]	29.7	[25.8-29.1]	[27.1-28.3]	42.8	13.7	[27.4-35.3]
	Estonia	500	22.5	[21.8-23.5]	24.2	[20.1-25.0]	22.5	23.2	29.1	5.0	[22.5-24.3]	26.1	[25.9-26.6]	27.8	[23.5-28.6]	[25.5-27.2]	38.1	7.1	[26.1-29.3]
	Finland	500	21.3	[20.6-22.3]	23.0	[19.0-23.7]	21.3	21.0	27.7	5.0	[21.3-22.9]	23.8	[24.7-25.3]	26.5	[22.3-27.3]	[24.3-25.9]	36.4	7.2	[24.8-27.7]
	France	500	17.5	[17.0-18.4]	19.4	[15.6-19.3]	17.5	17.4	26.0	12.6	[17.5-21.8]	24.9	[24.3-25.3]	26.0	[21.8-26.0]	[23.7-24.3]	39.5	18.7	[23.9-31.8]
	Germany	500	26.6	[25.8-27.9]	29.1	[23.1-30.1]	26.6	27.1	37.1	12.3	[26.6-33.7]	33.7	[33.3-35.1]	36.4	[30.0-37.4]	[33.3-34.6]	52.9	18.4	[33.7-46.6]
	Greece	500	29.8	[29.0-30.9]	31.3	[17.1-42.5]	29.8	30.5	38.1	7.2	[29.8-31.2]	34.0	[33.8-34.6]	35.5	[20.4-47.5]	[33.4-35.2]	49.1	9.8	[34.0-36.5]
	Hungary	500	22.8	[22.2-23.8]	24.5	[17.9-27.8]	22.8	23.4	30.2	7.1	[22.8-25.5]	27.2	[27.0-27.9]	29.0	[21.9-32.4]	[26.7-28.1]	40.7	10.3	[27.2-32.0]
	Italy	500	20.2	[19.6-21.1]	21.4	[12.0-28.4]	20.2	20.6	26.4	7.3	[20.2-22.5]	23.7	[23.4-24.4]	24.9	[15.0-32.4]	[23.3-24.4]	35.0	9.9	[23.7-27.8]
	Latvia	500	23.7	[23.0-24.8]	25.6	[21.2-26.3]	23.7	24.4	30.8	5.6	[23.7-25.8]	27.6	[27.5-28.2]	29.5	[24.9-30.3]	[27.1-28.8]	40.6	8.0	[27.6-31.4]
	Lithuania	500	24.1	[23.3-25.1]	25.9	[21.4-26.8]	24.1	24.8	31.0	5.1	[24.1-26.3]	27.8	[27.7-28.3]	29.7	[25.0-30.6]	[27.2-29.0]	40.6	7.3	[27.8-32.0]
	Luxembourg	500	19.2	[18.6-20.1]	21.0	[16.8-21.6]	19.2	19.6	26.8	9.3	[19.2-27.6]	24.3	[24.0-25.3]	26.2	[21.7-26.9]	[24.0-24.9]	38.2	13.6	[24.3-29.7]
	Netherlands	451	29.8	[29.0-31.6]	33.8	[28.7-30.9]	29.8	30.1	45.7	21.8	[29.8-48.0]	42.2	[41.2-44.8]	46.5	[40.9-43.5]	[42.0-42.8]	71.4	33.5	[42.2-75.5]
	Norway	500	18.7	[18.1-19.7]	20.6	[16.3-21.1]	18.7	19.0	27.1	11.9	[18.7-21.0]	24.9	[24.4-26.1]	27.0	[21.9-27.8]	[24.6-25.4]	40.3	17.5	[24.9-29.1]
	Poland	500	26.6	[25.7-27.8]	28.8	[23.6-29.6]	26.6	27.3	35.4	8.0	[26.6-29.8]	31.9	[31.6-32.7]	34.2	[28.7-35.0]	[31.3-33.1]	47.9	11.8	[31.9-37.7]
	Portugal	500	12.6	[12.2-13.1]	13.5	[9.7-15.4]	12.6	12.9	16.9	5.7	[12.6-14.3]	15.3	[15.1-15.8]	16.3	[12.2-18.4]	[15.1-15.8]	23.2	7.7	[15.3-18.5]
	Romania	500	22.6	[22.1-23.5]	24.1	[16.8-28.3]	22.6	23.1	29.5	6.7	[22.6-24.5]	26.5	[26.3-27.1]	28.1	[20.3-32.7]	[26.1-27.5]	39.2	9.5	[26.5-30.1]
Slovakia	500	27.0	[26.2-28.2]	28.9	[20.6-33.4]	27.0	27.6	35.8	9.2	[27.0-29.9]	32.3	[32.0-33.2]	34.3	[25.2-39.3]	[31.8-33.4]	48.5	13.2	[32.3-37.6]	
Slovenia	500	21.9	[21.3-22.8]	23.3	[15.8-28.0]	21.9	22.4	28.4	6.2	[21.9-24.6]	25.4	[25.3-26.0]	26.9	[19.0-31.9]	[25.0-26.4]	37.4	8.6	[25.4-30.4]	
Spain	500	13.1	[12.7-13.7]	14.1	[10.5-15.7]	13.1	13.3	17.9	6.7	[13.1-15.1]	16.3	[16.1-16.9]	17.4	[13.4-19.1]	[16.1-16.7]	25.2	9.5	[16.3-20.9]	
Sweden	500	17.0	[16.5-17.9]	18.7	[15.8-18.2]	17.0	17.3	23.9	8.5	[17.0-19.7]	21.8	[21.5-22.7]	23.6	[20.4-23.1]	[21.5-22.4]	34.5	12.6	[21.8-26.0]	
Switzerland	500	24.7	[24.1-25.9]	26.6	[18.7-30.7]	24.7	25.0	35.2	16.6	[24.7-28.9]	32.4	[31.8-33.9]	34.4	[25.3-39.4]	[32.1-32.9]	51.6	23.7	[32.4-40.0]	
United Kingdom	500	21.0	[20.4-22.0]	23.0	[18.1-23.9]	21.0	21.4	29.5	10.7	[21.0-24.9]	26.9	[26.5-28.1]	29.1	[23.6-30.2]	[26.6-27.6]	42.6	15.8	[26.9-34.1]	
emission rates from the rail section (part of the IM routing) [gCO ₂ e/ton-km]	Austria	500	21.5	[20.8-22.3]	22.5	[15.2-27.8]	21.5	22.2	26.1	1.9	21.5	23.1	[22.9-23.1]	24.0	[16.5-29.6]	[22.5-24.2]	3		

c_i	[S]	heavy goods shipments								voluminous goods shipments									
		I	II	III	IV	V	VI	VII	VIII	I	II	III	IV	V	VI	VII	VIII		
<i>emission rates from the road-only routing (RO) [gCO₂e/ton-km]</i>	[]	[]	[]	[]	[]	[]	[]	[]	[]	[]	[]	[]	[]	[]	[]	[]	[]		
Austria	500	54.7	[53.4-58.6]	62.7	[50.3-59.1]	54.7	89.6	54.7	54.7	83.8	[81.4-90.7]	92.7	[77.9-89.7]		83.8	147.7	83.8	83.8	
Belgium	500	51.9	[50.3-55.8]	59.9	[49.3-54.4]	51.9	85.6	51.9	51.9	80.0	[77.4-86.7]	88.9	[76.6-83.4]		80.0	141.8	80.0	80.0	
Bulgaria	500	57.5	[56.1-61.3]	65.5	[49.2-65.9]	57.5	93.6	57.5	57.5	87.6	[85.1-94.4]	96.5	[76.5-98.7]		87.6	153.8	87.6	87.6	
Croatia	500	57.9	[56.5-61.8]	65.9	[49.0-66.8]	57.9	94.1	57.9	57.9	88.1	[85.6-95.1]	97.0	[76.2-99.9]		88.1	154.4	88.1	88.1	
Czech Republic	500	53.2	[51.9-57.1]	61.1	[49.8-56.5]	53.2	87.4	53.2	53.2	81.7	[79.5-88.6]	90.6	[77.2-86.1]		81.7	144.4	81.7	81.7	
Denmark	500	53.6	[51.7-59.0]	61.6	[49.4-57.8]	53.6	87.6	53.6	53.6	81.9	[79.1-90.3]	90.8	[76.3-87.5]		81.9	144.2	81.9	81.9	
Estonia	500	53.7	[51.8-58.5]	61.7	[49.7-57.7]	53.7	87.9	53.7	53.7	82.2	[79.2-89.8]	91.1	[76.8-87.6]		82.2	144.9	82.2	82.2	
Finland	500	51.5	[49.9-55.8]	59.4	[49.4-53.5]	51.5	84.8	51.5	51.5	79.3	[76.7-86.5]	88.2	[76.2-89.5]		79.3	140.5	79.3	79.3	
France	500	53.9	[52.5-57.8]	61.9	[49.4-58.3]	53.9	88.4	53.9	53.9	82.7	[80.2-89.5]	91.6	[76.7-88.6]		82.7	146.0	82.7	82.7	
Germany	500	52.2	[50.9-56.3]	60.2	[49.3-55.2]	52.2	86.0	52.2	52.2	80.4	[78.1-87.4]	89.3	[76.5-84.3]		80.4	142.4	80.4	80.4	
Greece	500	60.7	[59.3-64.7]	68.7	[49.0-72.3]	60.7	98.0	60.7	60.7	91.8	[89.3-99.0]	100.7	[76.2-107.3]		91.8	160.1	91.8	91.8	
Hungary	500	55.0	[53.6-58.7]	63.0	[49.0-61.0]	55.0	90.1	55.0	55.0	84.2	[81.7-90.9]	93.2	[76.3-92.2]		84.2	148.5	84.2	84.2	
Italy	500	59.6	[57.9-63.9]	67.5	[49.6-69.5]	59.6	96.3	59.6	59.6	90.2	[87.4-97.6]	99.1	[77.0-103.4]		90.2	157.6	90.2	90.2	
Latvia	500	53.0	[51.5-57.2]	60.9	[49.0-56.9]	53.0	87.0	53.0	53.0	81.3	[79.0-88.5]	90.2	[76.1-86.6]		81.3	143.7	81.3	81.3	
Lithuania	500	52.5	[51.2-56.3]	60.4	[48.9-56.0]	52.5	86.4	52.5	52.5	80.8	[78.5-87.5]	89.7	[76.0-85.5]		80.8	143.1	80.8	80.8	
Luxembourg	500	52.5	[51.0-56.4]	60.5	[49.6-55.4]	52.5	86.5	52.5	52.5	80.8	[78.3-87.6]	89.8	[77.0-84.7]		80.8	143.1	80.8	80.8	
Netherlands	500	51.3	[49.8-55.3]	59.2	[48.8-53.7]	51.3	84.7	51.3	51.3	79.1	[76.7-86.0]	88.0	[75.8-82.3]		79.1	140.3	79.1	79.1	
Norway	500	55.3	[54.2-59.1]	63.3	[48.7-62.0]	55.3	90.5	55.3	55.3	84.6	[82.6-91.5]	93.6	[75.8-89.5]		84.6	149.1	84.6	84.6	
Poland	500	52.1	[50.9-56.0]	60.1	[49.0-55.3]	52.1	85.9	52.1	52.1	80.3	[78.2-87.2]	89.2	[76.1-84.5]		80.3	142.2	80.3	80.3	
Portugal	500	53.9	[52.5-57.8]	61.8	[49.1-58.6]	53.9	88.5	53.9	53.9	82.7	[80.2-89.3]	91.6	[76.4-89.0]		82.7	146.2	82.7	82.7	
Romania	500	56.1	[54.8-59.9]	64.1	[49.2-63.0]	56.1	91.6	56.1	56.1	85.6	[83.3-92.5]	94.6	[76.4-94.9]		85.6	150.7	85.6	85.6	
Slovakia	500	53.5	[52.2-57.3]	61.5	[49.5-57.5]	53.5	87.9	53.5	53.5	82.1	[79.9-88.9]	91.1	[76.9-87.9]		82.1	145.2	82.1	82.1	
Slovenia	500	57.5	[56.1-61.4]	65.5	[49.5-65.5]	57.5	93.5	57.5	57.5	87.5	[85.0-94.5]	96.4	[76.8-98.2]		87.5	153.5	87.5	87.5	
Spain	500	54.6	[53.2-58.4]	62.6	[49.6-59.6]	54.6	89.4	54.6	54.6	83.6	[81.2-90.4]	92.6	[77.0-90.3]		83.6	147.6	83.6	83.6	
Sweden	500	53.5	[52.2-56.9]	61.5	[48.5-58.5]	53.5	88.0	53.5	53.5	82.3	[79.9-88.6]	91.2	[75.7-88.9]		82.3	145.6	82.3	82.3	
Switzerland	500	56.4	[54.9-60.4]	64.4	[51.1-61.7]	56.4	92.0	56.4	56.4	86.1	[83.5-93.1]	95.0	[79.0-93.1]		86.1	151.2	86.1	86.1	
United Kingdom	500	52.4	[50.9-56.4]	60.4	[49.1-55.6]	52.4	86.3	52.4	52.4	80.6	[78.1-87.5]	89.6	[76.3-85.0]		80.6	142.8	80.6	80.6	
<i>emission rates from the intermodal routing (IM) [gCO₂e/ton-km]</i>	[]	[]	[]	[]	[]	[]	[]	[]	[]	[]	[]	[]	[]	[]	[]	[]	[]	[]	
Austria	500	25.4	[24.8-26.5]	27.4	[20.8-30.0]	25.4	25.8	25.4	25.4	27.4	[25.4-27.4]	32.1	[31.6-33.4]	34.2	[26.6-37.5]	[31.8-32.6]	49.0	22.5	[32.1-35.7]
Belgium	500	18.4	[17.9-19.3]	20.2	[15.5-21.3]	18.4	18.7	18.4	18.4	20.2	[18.4-20.2]	24.0	[23.6-25.1]	26.0	[20.6-27.5]	[23.8-24.8]	38.4	15.6	[24.0-27.6]
Bulgaria	500	24.4	[23.8-25.4]	26.0	[17.8-31.0]	24.4	24.9	24.4	24.4	26.0	[24.4-26.0]	32.0	[24.4-26.0]	30.8	[21.9-36.3]	[28.7-29.9]	43.0	14.5	[31.0-34.4]
Croatia	500	24.7	[24.1-25.7]	26.6	[19.3-30.0]	24.7	25.0	24.7	24.7	26.6	[24.7-26.6]	31.1	[30.6-32.3]	33.2	[24.9-37.0]	[30.8-31.7]	47.7	20.8	[31.0-34.0]
Czech Republic	500	25.2	[24.6-26.3]	27.2	[21.4-28.9]	25.2	25.5	25.2	25.2	27.2	[25.2-27.2]	32.0	[31.5-33.4]	34.2	[27.5-36.4]	[31.7-32.5]	49.0	23.3	[32.0-36.2]
Denmark	498	21.0	[20.5-22.3]	23.7	[18.1-23.9]	21.0	21.0	21.0	21.0	23.7	[21.0-23.7]	30.9	[30.2-32.2]	34.0	[27.1-34.7]	[30.9-31.1]	53.3	29.7	[30.9-37.4]
Estonia	500	22.9	[22.2-23.9]	24.8	[20.4-25.4]	22.9	23.4	22.9	22.9	24.8	[22.9-24.8]	28.0	[27.7-28.9]	30.0	[25.0-30.9]	[27.6-28.8]	42.0	15.4	[28.0-30.5]
Finland	500	21.8	[21.2-22.8]	23.6	[19.4-24.2]	21.8	21.8	21.8	21.8	23.6	[21.8-23.6]	26.7	[26.4-27.6]	28.6	[23.6-27.4]	30.1	14.6	[26.7-29.0]	
France	500	19.4	[18.9-20.3]	21.2	[16.2-22.7]	19.4	19.7	19.4	19.4	21.2	[19.4-21.0]	25.0	[24.6-26.1]	26.9	[21.2-28.8]	[24.8-25.5]	39.3	17.2	[25.0-27.9]
Germany	500	22.1	[21.6-23.2]	24.3	[19.2-25.1]	22.1	22.1	22.1	22.1	24.3	[22.1-24.8]	29.4	[28.9-30.9]	31.7	[25.7-33.0]	[29.2-29.8]	46.8	23.5	[33.5-37.4]
Greece	500	28.7	[28.0-29.8]	30.4	[18.2-39.2]	28.7	28.3	28.7	28.7	30.4	[28.7-29.8]	33.9	[33.6-34.8]	35.6	[22.4-45.3]	[33.4-34.8]	49.9	15.5	[33.9-35.9]
Hungary	500	23.2	[22.7-24.2]	25.2	[19.3-27.2]	23.2	23.6	23.2	23.2	25.2	[23.2-25.0]	29.2	[28.7-30.3]	31.2	[22.6-33.7]	[28.9-29.8]	44.6	19.4	[29.4-32.9]
Italy	500	25.5	[24.8-26.5]	27.0	[17.1-33.8]	25.5	25.9	25.5	25.5	27.0	[25.5-26.9]	30.4	[30.1-31.4]	32.1	[21.3-39.5]	[30.1-31.2]	44.9	16.3	[30.4-33.0]
Latvia	500	23.9	[23.2-24.9]	25.9	[21.2-26.5]	23.9	24.3	23.9	23.9	25.9	[23.9-25.5]	29.4	[29.1-30.5]	31.5	[26.3-32.5]	[29.1-30.2]	44.4	17.2	[29.4-32.6]
Lithuania	500	24.2	[23.5-25.2]	26.1	[21.4-26.9]	24.2	24.6	24.2	24.2	26.1	[24.2-25.9]	29.7	[29.4-30.8]	31.8	[26.5-33.0]	[29.4-30.5]	44.7	17.5	[29.7-32.8]
Luxembourg	500	18.1	[17.6-19.0]	19.7	[14.8-21.4]	18.1	18.1	18.1	18.1	19.7	[18.1-20.0]	23.2	[22.8-24.1]	25.0	[19.3-27.1]	[22.9-23.7]	36.6	14.1	[31.2-36.6]
Netherlands	500	18.4	[17.9-19.4]	20.4	[15.9-21.0]	18.4	18.7	18.4	18.4	20.4	[18.4-20.7]	24.6	[24.2-25.8]	26.7	[21.4-27.7]	[24.3-25.1]	39.9	17.2	[24.6-28.7]
Norway	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Poland	500	25.7	[25.1-26.9]	28.0	[22.8-28.6]	25.7	26.1	25.7	25.7	28.0	[25.7-27.9]	32.7	[32.2-34.1]	35.1	[29.1-36.2]	[32.4-33.3]	50.3	23.1	[32.7-36.7]
Portugal	500	14.6	[14.1-15.3]	15.9	[11.5-17.8]	14.6	14.9	14.6	14.6	15.9	[14.6-15.7]	18.3	[18.1-18.8]	19.6	[14.8-21.9]	[18.1-18.8]	28.4	10.4	[18.3-20.2]
Romania	500	22.9	[22.3-23.8]	24.6	[18.2-27.5]	22.9	23.2	22.9	22.9	24.6	[22.9-24.3]	28.1	[27.8-29.1]	30.0	[22.9-33.4]	[27.8-28.8]	42.5	16.9	[28.1-30.7]
Slovakia	500	26.6	[26.0-27.8]	28.8	[22.5-30.8]	26.6	27.0	26.6	26.6	28.8	[26.6-28.6]	33.5	[33.1-34.9]	35.8	[28.6-38.5]	[33.2-34.2]	51.3	22.6	[33.5-37.1]
Slovenia	500	23.2	[22.6-24.1]	24.9	[18.4-27.9]	23.2	23.5	23.2	23.2	24.9	[23.2-24.9]	28.5	[28.2-29.5]	30.3	[23.1-33.9]	[28.2-29.1]	42.9	17.9	[28.5-31.7]
Spain	500	15.7	[15.3-16.4]	17.0	[12.6-18.8]	15.7	16.0	15.7	15.7	17.0	[15.7-16.8]	19.7	[19.5-20.5]	21.1	[16.2-23.2]	[19.5-20.2]	30.6	12.0	[19.7-21.8]
Sweden	439	20.8	[20.2-22.0]	23.7	[17.8-23.7]	20.8	20.8	20.8	20.8	23.7	[20.8-24.4]	31.4	[30.5-33.7]	34.6	[27.5-35.3]	[31.4-31.4]	55.0	23.7	[31.4-38.1]
Switzerland	500	28.1	[27.5-29.3]	30.1	[21.4-34.8]	28.1	28.1	28.1	28.1	30.1	[28.1-29.8]	35.1	[34.6-36.4]	37.2	[27.4-42.8]	[34.8-35.7]	53.4	23.1	[35.1-38.2]
United Kingdom	500	18.9	[18.4-19.9]	20.7	[15.5-22.3]														

	c_i	[S]	heavy goods shipments								voluminous goods shipments								
			I	II	III	IV	V	VI	VII	VIII	I	II	III	IV	V	VI	VII	VIII	
																			[-]
emission rates from the road-only routing (RO) [gCO ₂ e/ton-km]	Austria	500	32.8	[57.2-62.3]	66.5	[51.4-65.5]	58.5	94.9	58.5	58.5	88.9	[86.6-95.8]	97.8	[79.5-98.2]	88.9	155.7	88.9	88.9	
	Belgium	500	52.5	[51.2-53.9]	60.5	[48.7-56.3]	52.5	86.6	52.5	52.5	80.9	[78.6-87.3]	89.8	[75.8-86.0]	80.9	143.5	80.9	80.9	
	Bulgaria	500	59.3	[58.0-63.1]	67.3	[49.0-69.5]	59.3	96.1	59.3	59.3	90.0	[87.6-96.9]	98.9	[76.3-103.6]	90.0	157.4	90.0	90.0	
	Croatia	500	57.4	[56.2-61.1]	65.4	[48.7-66.2]	57.4	93.4	57.4	57.4	87.4	[85.2-94.3]	96.4	[75.8-99.1]	87.4	153.5	87.4	87.4	
	Czech Republic	500	55.2	[53.9-58.7]	63.2	[51.0-59.4]	55.2	90.5	55.2	55.2	84.6	[82.1-91.0]	93.5	[79.0-90.2]	84.6	149.2	84.6	84.6	
	Denmark	500	49.2	[48.1-52.7]	57.2	[47.9-50.6]	49.2	82.0	49.2	49.2	76.6	[74.5-82.8]	85.5	[74.8-78.3]	76.6	136.7	76.6	76.6	
	Estonia	500	49.7	[48.5-53.1]	57.7	[48.3-51.2]	49.7	82.8	49.7	49.7	77.3	[75.1-83.4]	86.2	[75.3-79.2]	77.3	137.9	77.3	77.3	
	Finland	500	50.4	[48.8-54.5]	58.3	[49.1-51.6]	50.4	83.4	50.4	50.4	77.9	[75.3-84.8]	86.8	[76.2-79.5]	77.9	138.4	77.9	77.9	
	France	500	59.0	[57.7-62.7]	67.0	[49.0-69.0]	59.0	95.8	59.0	59.0	89.6	[87.2-96.4]	98.6	[76.3-102.9]	89.6	157.0	89.6	89.6	
	Germany	500	52.2	[50.9-55.6]	60.2	[48.9-55.5]	52.2	86.2	52.2	52.2	80.5	[78.2-86.8]	89.5	[76.1-84.9]	80.5	142.9	80.5	80.5	
	Greece	500	62.4	[61.1-66.3]	70.4	[49.0-75.8]	62.4	100.4	62.4	62.4	94.1	[91.7-101.3]	103.0	[76.2-112.0]	94.1	163.8	94.1	94.1	
	Hungary	500	55.3	[54.1-58.9]	63.3	[48.2-62.4]	55.3	90.5	55.3	55.3	84.6	[82.4-91.3]	93.6	[75.2-94.0]	84.6	149.2	84.6	84.6	
	Italy	500	62.6	[61.0-67.1]	70.6	[49.7-75.6]	62.6	100.6	62.6	62.6	94.3	[91.6-102.0]	103.2	[77.0-111.5]	94.3	163.9	94.3	94.3	
	Latvia	500	49.5	[48.4-52.9]	57.4	[48.1-50.8]	49.5	82.3	49.5	49.5	76.9	[74.9-83.2]	85.8	[75.1-78.6]	76.9	137.1	76.9	76.9	
	Lithuania	500	49.8	[48.7-53.2]	57.8	[48.2-51.4]	49.8	82.8	49.8	49.8	77.3	[75.2-83.6]	86.2	[75.2-79.5]	77.3	137.8	77.3	77.3	
	Luxembourg	500	53.6	[52.4-57.1]	61.5	[49.1-58.1]	53.6	88.1	53.6	53.6	82.3	[80.2-88.9]	91.2	[76.3-88.3]	82.3	145.6	82.3	82.3	
	Netherlands	500	50.6	[49.5-54.1]	58.6	[48.0-53.1]	50.6	83.9	50.6	50.6	78.3	[76.3-84.8]	87.2	[74.9-81.7]	78.3	139.3	78.3	78.3	
	Norway	500	50.8	[49.4-54.5]	58.8	[48.8-52.8]	50.8	84.1	50.8	50.8	78.6	[76.1-85.1]	87.5	[75.9-81.2]	78.6	139.7	78.6	78.6	
	Poland	500	50.6	[49.4-54.0]	58.6	[48.6-52.5]	50.6	83.9	50.6	50.6	78.4	[76.2-84.6]	87.3	[75.8-80.9]	78.4	139.5	78.4	78.4	
Portugal	500	61.3	[60.0-65.2]	69.3	[48.8-73.8]	61.3	98.9	61.3	61.3	92.7	[90.3-99.8]	101.6	[76.0-109.3]	92.7	161.6	92.7	92.7		
Romania	500	56.9	[55.5-60.5]	64.9	[49.3-64.5]	56.9	92.8	56.9	56.9	86.8	[84.3-93.4]	95.8	[76.7-96.9]	86.8	152.7	86.8	86.8		
Slovakia	500	57.6	[56.4-61.4]	65.6	[50.5-64.6]	57.6	93.7	57.6	57.6	87.6	[85.4-94.6]	96.6	[78.3-97.0]	87.6	153.8	87.6	87.6		
Slovenia	500	58.0	[56.8-61.8]	65.9	[49.5-66.4]	58.0	94.2	58.0	58.0	88.1	[86.0-95.2]	97.1	[76.9-99.4]	88.1	154.5	88.1	88.1		
Spain	500	62.7	[61.4-66.7]	70.7	[49.3-76.2]	62.7	100.9	62.7	62.7	94.6	[92.1-101.8]	103.5	[76.7-112.4]	94.6	164.5	94.6	94.6		
Sweden	500	49.9	[48.7-53.3]	57.9	[48.4-51.4]	49.9	83.0	49.9	49.9	77.5	[75.2-83.6]	86.4	[75.5-79.5]	77.5	138.2	77.5	77.5		
Switzerland	500	61.5	[60.1-65.3]	69.5	[51.5-71.4]	61.5	99.2	61.5	61.5	92.9	[90.3-99.9]	101.9	[79.7-106.2]	92.9	162.1	92.9	92.9		
United Kingdom	500	50.5	[49.2-54.2]	58.5	[48.7-52.3]	50.5	83.7	50.5	50.5	78.2	[75.9-84.7]	87.1	[75.8-80.6]	78.2	139.1	78.2	78.2		
emission rates from the intermodal routing (IM) [gCO ₂ e/ton-km]	Austria	500	32.8	[31.9-34.4]	35.5	[26.3-39.4]	45.2	15.0	15.0	15.0	[32.8-37.1]	41.1	[40.6-42.7]	43.9	[33.7-48.5]	63.8	21.9	[41.1-48.8]	
	Belgium	500	24.5	[23.7-25.6]	26.4	[20.7-28.3]	32.3	6.8	24.5	24.5	[24.5-27.4]	29.0	[28.8-29.7]	31.0	[25.0-33.0]	28.5	9.8	[29.0-34.3]	
	Bulgaria	500	28.9	[28.1-30.0]	30.6	[19.9-37.9]	37.5	7.7	28.9	30.6	[28.9-30.9]	33.5	[33.3-34.3]	35.4	[23.9-34.7]	49.3	10.9	[33.5-37.2]	
	Croatia	500	29.7	[28.8-31.1]	32.2	[22.7-36.6]	39.4	20.2	29.7	32.2	[29.7-32.7]	37.4	[36.9-38.9]	40.2	[29.7-45.2]	58.5	20.5	[37.4-43.0]	
	Czech Republic	496	34.7	[33.7-36.3]	37.7	[29.4-40.0]	44.5	47.9	34.7	37.7	[34.7-40.2]	43.5	[42.9-45.1]	46.8	[37.7-49.3]	67.7	22.2	[43.5-53.5]	
	Denmark	500	27.0	[26.2-28.3]	29.5	[24.5-29.5]	36.6	11.2	27.0	27.0	[27.0-34.1]	33.3	[32.9-34.4]	36.0	[30.6-36.0]	32.8	34.4	[33.3-39.5]	
	Estonia	500	24.4	[23.6-25.5]	26.7	[22.1-26.7]	33.3	9.1	24.4	24.4	[24.4-27.2]	30.1	[29.8-31.1]	32.5	[27.6-32.6]	29.6	31.1	[30.1-35.2]	
	Finland	500	22.3	[21.6-23.4]	24.4	[20.2-24.5]	30.6	8.7	22.3	24.4	[22.3-24.6]	27.7	[27.4-28.7]	30.0	[25.4-30.1]	27.3	28.6	[27.3-32.0]	
	France	500	22.0	[21.3-23.0]	23.8	[18.1-26.0]	31.2	22.5	22.0	23.8	[22.0-24.0]	26.9	[26.6-27.7]	28.8	[22.6-31.2]	26.5	27.8	[26.9-30.5]	
	Germany	496	28.6	[27.7-29.9]	31.1	[24.7-32.5]	38.3	29.3	28.6	31.1	[28.6-32.7]	35.3	[34.9-36.4]	38.0	[31.0-39.5]	34.7	36.4	[35.3-42.9]	
	Greece	500	34.6	[33.7-35.9]	36.4	[20.2-48.9]	44.8	9.5	34.6	36.4	[34.6-36.2]	40.1	[39.8-40.9]	42.0	[24.7-55.5]	49.5	14.4	[40.1-43.0]	
	Hungary	500	30.2	[29.4-31.7]	32.8	[24.8-35.6]	41.6	12.4	30.2	32.8	[30.2-34.1]	37.6	[37.2-39.1]	40.5	[31.8-43.5]	37.3	38.7	[37.6-44.7]	
	Italy	500	26.1	[25.3-27.3]	27.8	[17.7-34.5]	35.8	26.7	26.1	27.8	[26.1-28.2]	30.7	[30.5-31.6]	32.5	[21.8-39.7]	30.3	31.8	[30.7-34.7]	
	Latvia	500	26.9	[26.1-28.2]	29.5	[24.5-29.3]	37.4	11.5	26.9	30.2	[26.9-30.4]	34.0	[33.6-35.3]	36.8	[31.3-36.6]	33.5	35.0	[34.0-40.9]	
	Lithuania	488	28.0	[27.2-29.4]	30.8	[25.4-30.7]	38.9	11.7	28.0	30.8	[28.0-32.6]	35.3	[34.9-36.6]	38.2	[32.4-38.2]	34.8	36.4	[35.3-43.4]	
	Luxembourg	500	23.2	[22.5-24.2]	24.9	[18.8-27.7]	32.9	23.9	23.2	24.9	[23.2-25.8]	27.1	[26.9-27.6]	28.8	[22.3-31.8]	26.6	28.2	[27.1-31.8]	
	Netherlands	500	25.6	[24.8-26.9]	27.8	[22.3-29.0]	35.2	26.3	25.6	27.8	[25.6-28.8]	30.9	[30.6-31.7]	33.2	[27.3-34.4]	30.3	32.0	[30.9-36.7]	
	Norway	500	25.5	[24.9-26.6]	27.8	[22.5-28.6]	35.2	25.9	25.5	27.8	[25.5-27.7]	32.6	[32.1-34.1]	35.1	[29.0-36.3]	32.4	33.2	[32.6-36.7]	
	Poland	438	37.1	[36.0-39.1]	41.2	[33.8-40.4]	46.8	37.7	37.1	41.2	[37.1-44.5]	49.3	[48.4-51.7]	53.7	[45.5-53.0]	48.8	50.3	[49.3-62.8]	
Portugal	500	16.6	[16.1-17.3]	17.8	[13.1-20.2]	21.7	5.2	16.6	17.8	[16.6-17.8]	19.5	[19.4-20.0]	20.8	[15.7-23.3]	19.2	20.3	[19.5-21.7]		
Romania	500	27.5	[26.7-28.7]	29.6	[21.3-33.6]	36.2	28.1	27.5	29.6	[27.5-30.0]	33.3	[32.9-34.3]	35.5	[26.6-40.0]	32.8	34.3	[33.3-37.9]		
Slovakia	497	40.8	[39.7-42.8]	44.3	[33.4-48.2]	44.0	44.1	40.8	44.3	[40.8-46.5]	52.1	[51.5-54.5]	56.0	[43.6-60.7]	51.6	53.3	[52.1-62.7]		
Slovenia	500	28.2	[27.5-29.6]	30.4	[22.1-34.4]	38.1	20.5	28.2	30.4	[28.2-32.0]	34.4	[34.1-35.5]	36.8	[27.8-41.1]	33.9	35.5	[34.4-41.2]		
Spain	500	17.5	[17.0-18.3]	18.8	[13.9-21.1]	23.1	6.0	17.5	18.8	[17.5-18.8]	20.8	[20.6-21.4]	22.1	[16.9-24.7]	20.5	21.6	[20.5-23.2]		
Sweden	500	25.5	[24.8-26.5]	27.6	[23.4-27.6]	35.2	25.9	25.5	27.6	[25.5-28.3]	31.4	[31.0-32.5]	33.7	[29.1-33.7]	31.0	32.1	[31.4-36.6]		
Switzerland	500	31.1	[30.2-32.4]	33.2	[22.6-39.6]	40.8	31.7	31.1	33.2	[31.1-33.5]	37.8	[37.3-38.9]	40.0	[28.4-47.1]	37.2	38.9	[37.8-42.4]		
United Kingdom	500	23.3	[22.6-24.3]	25.2	[19.2-27.4]	33.0	23.9	23.3	25.2	[23.3-25.1]	28.0	[27.8-28.8]	30.0	[25.3-29.0]	24.2	11.2	[28.0-31.2]		
emission rates from the rail section (part of the IM routing) [gCO ₂ e/ton-km]	Austria	500	24.3	[23.5-25.2]	25.5	[18.2-30.4]	24.0	25.1	24.3	1.7	24.3	26.1	[26.0-26.2]	27.3	[19.8-32.5]	[25.5-27.5]	35.8	1.9	26.1
	Belgium	500	21.3	[20.6-22.1]	22.5	[17.4-25.2]	20.9	22.0	21.3	21.3	23.0	[22.8-23.0]	24.2	[18.9-27.1]	[22.4-24.3]	31.5	1.6	23.0	
	Bulgaria	500	25.7	[24.9-26.5]	26.7	[16.3-35.0]	25.3	26.4	25.7	27.4	[27.3-27.5]	28.4	[17.7-37.2]	28.4	[26.8-28.8]	37.5	2.2	27.4	
	Croatia	500	21.8	[21.1-22.6]	22.8	[15.3-28.4]	22.1	22.5	21.8	23.4	[23.3-23.4]	24.5	[16.6-30.3]	[22.9-24.7]	31.1	1.9	23.4		
	Czech Republic	496	28.0	[27.1-29.0]	29.5	[22.0-34.1]	34.1	1.6	28.0	30.1	[29.9-30.2]	31.6	[23.8-36.5]	[22.9-31.8]	42.2	1.8	30.1		
	Denmark	500	22.0	[21.2-22.8]	23.2	[19.3-24.6]	26.2	27.7	22.0	23.7	[23.5-23.7]	24.9	[20.9-26.4]	23.1	[23.1-25.0]	31.9	2.8	23.0	
	Estonia	500	19.5	[18.7-20.2]	20.7	[17.1-21.8]	19.1	20.2	19.5	21.0	[20.9-21.0]	22.2	[18.5-23.5]	[20.5-22.2]	28.8	1.4	21.7		
	Finland	500	17.3	[16.7-18.0]	18.4	[15.2-19.5]	17.0	18.0	17.3	18.7	[18.6-18.7]	19.8	[16.5-20.9]	[18.2-19.8]	25.7	1.5	18		

	c_i	S	heavy goods shipments								voluminous goods shipments								
			I	II	III	IV	V	VI	VII	VIII	I	II	III	IV	V	VI	VII	VIII	
																			[]
emission rates from the road-only routing (RO) [gCO ₂ e/ton-km]	Austria	500	65.5	[64.1-69.5]	73.4	[49.4-81.5]	65.5	104.7	65.5	65.5	98.2	[95.7-105.6]	107.1	[76.8-119.5]	98.2	170.1	98.2	98.2	
	Belgium	500	54.2	[53.0-57.8]	62.2	[48.3-60.0]	54.2	88.9	54.2	54.2	83.1	[81.0-89.8]	92.1	[75.3-90.9]	83.1	146.8	83.1	83.1	
	Bulgaria	500	57.9	[56.6-61.6]	65.9	[48.8-67.0]	57.9	94.1	57.9	57.9	88.1	[85.7-94.9]	97.0	[76.0-100.2]	88.1	154.6	88.1	88.1	
	Croatia	500	59.8	[58.6-63.7]	67.8	[48.5-71.1]	59.8	96.8	59.8	59.8	90.6	[88.4-97.7]	99.5	[75.5-105.6]	90.6	158.3	90.6	90.6	
	Czech Republic	500	60.5	[59.1-64.2]	68.5	[49.0-71.9]	60.5	97.8	60.5	60.5	91.6	[89.0-98.4]	100.5	[76.4-106.8]	91.6	160.0	91.6	91.6	
	Denmark	500	53.3	[52.2-57.0]	61.3	[48.2-58.5]	53.3	87.7	53.3	53.3	82.0	[79.9-88.6]	90.9	[75.1-88.8]	82.0	145.0	82.0	82.0	
	Estonia	500	53.1	[51.9-56.6]	61.1	[48.4-57.8]	53.1	87.4	53.1	53.1	81.7	[79.5-88.1]	90.6	[75.5-87.9]	81.7	144.7	81.7	81.7	
	Finland	500	53.4	[52.2-57.3]	61.4	[48.6-58.2]	53.4	87.7	53.4	53.4	82.0	[79.8-88.9]	90.9	[75.6-88.4]	82.0	144.9	82.0	82.0	
	France	500	58.5	[57.2-62.2]	66.4	[48.6-68.3]	58.5	94.9	58.5	58.5	88.8	[86.5-95.7]	97.8	[75.8-101.9]	88.8	155.7	88.8	88.8	
	Germany	500	56.4	[55.2-60.2]	64.4	[48.5-64.4]	56.4	92.1	56.4	56.4	86.1	[83.9-93.0]	95.0	[75.6-96.7]	86.1	151.4	86.1	86.1	
	Greece	500	56.3	[54.9-60.0]	64.3	[48.9-63.6]	56.3	91.9	56.3	56.3	85.9	[83.4-92.6]	94.9	[76.2-95.7]	85.9	151.2	85.9	85.9	
	Hungary	500	63.0	[61.7-67.0]	71.0	[48.4-77.6]	63.0	101.3	63.0	63.0	94.9	[92.5-102.2]	103.9	[75.5-114.4]	94.9	165.1	94.9	94.9	
	Italy	500	57.3	[55.9-61.4]	65.3	[49.0-65.5]	57.3	93.1	57.3	57.3	87.1	[84.7-94.4]	96.1	[76.2-98.1]	87.1	152.8	87.1	87.1	
	Latvia	500	53.4	[52.1-56.8]	61.3	[48.5-58.2]	53.4	87.9	53.4	53.4	82.1	[79.7-88.4]	91.0	[75.6-88.6]	82.1	145.4	82.1	82.1	
	Lithuania	500	54.1	[52.8-57.6]	62.1	[48.5-59.7]	54.1	88.8	54.1	54.1	83.1	[80.8-89.6]	92.0	[75.5-90.6]	83.1	146.8	83.1	83.1	
	Luxembourg	500	56.1	[54.9-59.8]	64.1	[48.6-63.6]	56.1	91.7	56.1	56.1	85.7	[83.4-92.4]	94.7	[75.7-95.8]	85.7	150.9	85.7	85.7	
	Netherlands	500	53.3	[52.1-56.8]	61.3	[48.1-58.4]	53.3	87.7	53.3	53.3	82.0	[79.7-88.4]	90.9	[75.1-88.8]	82.0	145.1	82.0	82.0	
	Norway	500	53.6	[52.2-57.3]	61.6	[48.7-58.6]	53.6	88.1	53.6	53.6	82.4	[79.9-89.0]	91.3	[75.8-88.0]	82.4	145.7	82.4	82.4	
	Poland	500	57.0	[55.7-60.7]	65.0	[48.5-65.5]	57.0	92.9	57.0	57.0	86.9	[84.6-93.6]	95.8	[75.6-98.2]	86.9	152.7	86.9	86.9	
	Portugal	500	57.6	[56.2-61.2]	65.5	[49.0-66.2]	57.6	93.7	57.6	57.6	87.7	[85.2-94.3]	96.6	[76.2-99.2]	87.7	154.0	87.7	87.7	
Romania	500	60.6	[59.2-64.3]	68.6	[48.7-72.4]	60.6	98.0	60.6	60.6	91.7	[89.2-98.6]	100.7	[76.0-107.5]	91.7	160.2	91.7	91.7		
Slovakia	500	62.1	[60.8-66.0]	70.1	[48.8-75.5]	62.1	100.1	62.1	62.1	93.8	[91.3-100.9]	102.7	[76.0-111.5]	93.8	163.3	93.8	93.8		
Slovenia	500	61.2	[59.9-65.1]	69.2	[48.8-73.6]	61.2	98.8	61.2	61.2	92.5	[90.1-99.6]	101.5	[76.0-109.0]	92.5	161.4	92.5	92.5		
Spain	500	59.9	[58.7-63.8]	67.9	[50.8-69.2]	59.9	97.0	59.9	59.9	90.8	[88.4-97.8]	99.7	[78.6-103.1]	90.8	158.7	90.8	90.8		
Sweden	500	53.4	[52.2-57.0]	61.3	[48.4-58.3]	53.4	87.7	53.4	53.4	82.0	[79.9-88.7]	90.9	[75.4-88.6]	82.0	145.0	82.0	82.0		
Switzerland	500	66.7	[65.3-70.7]	74.6	[50.1-83.2]	66.7	106.4	66.7	66.7	98.8	[97.2-107.3]	108.7	[77.8-121.8]	98.8	172.6	98.8	98.8		
United Kingdom	500	53.4	[52.0-57.0]	61.4	[48.5-58.3]	53.4	87.8	53.4	53.4	82.1	[79.6-88.6]	91.0	[75.6-88.6]	82.1	145.3	82.1	82.1		
emission rates from the intermodal routing (IM) [gCO ₂ e/ton-km]	Austria	500	16.3	[15.8-16.9]	17.3	[10.8-21.7]	16.3	16.6	21.5	6.3	[16.3-17.6]	19.3	[19.2-19.9]	20.4	[13.4-25.3]	19.9	28.9	8.7	[19.3-21.7]
	Belgium	500	11.9	[11.6-12.5]	12.9	[8.7-15.1]	11.9	12.2	16.1	5.3	[11.9-13.8]	14.5	[14.4-15.0]	15.5	[11.0-18.1]	14.3	22.2	7.4	[14.5-17.9]
	Bulgaria	500	18.3	[17.8-19.0]	19.3	[11.2-25.5]	18.3	18.8	23.3	4.6	[18.3-19.2]	20.8	[20.7-21.1]	21.8	[13.2-28.4]	20.4	30.0	6.2	[20.8-22.4]
	Croatia	500	18.0	[17.5-18.8]	19.2	[11.0-25.0]	18.0	18.4	24.0	7.3	[18.0-19.2]	21.6	[21.4-22.3]	22.9	[14.0-29.2]	21.3	32.6	10.2	[21.6-23.9]
	Czech Republic	500	15.3	[14.9-16.0]	16.4	[11.2-19.5]	15.3	15.7	20.0	4.7	[15.3-16.6]	17.9	[19.1-19.7]	19.0	[13.4-22.4]	17.6	26.3	6.5	[17.9-20.2]
	Denmark	500	13.9	[13.5-14.5]	14.9	[10.6-17.1]	13.9	14.2	18.4	4.8	[13.9-15.2]	16.5	[16.4-16.9]	17.6	[13.0-20.0]	16.2	24.7	6.7	[16.5-18.9]
	Estonia	500	16.7	[16.2-17.4]	17.9	[13.5-19.9]	16.7	16.5	21.5	4.0	[16.7-17.6]	19.2	[19.1-19.5]	20.4	[15.7-22.7]	18.8	27.9	5.6	[19.2-20.9]
	Finland	500	16.3	[15.8-17.0]	17.5	[13.3-19.4]	16.3	16.8	21.0	4.1	[16.3-17.2]	18.8	[18.8-19.2]	20.1	[15.5-22.1]	18.5	27.5	5.6	[18.8-20.4]
	France	500	17.2	[16.7-18.0]	18.7	[13.0-21.5]	17.2	17.5	24.1	9.1	[17.2-19.3]	21.9	[21.6-22.8]	23.6	[17.2-22.5]	21.7	34.6	13.3	[21.9-25.8]
	Germany	500	13.4	[13.0-14.0]	14.4	[9.9-16.9]	13.4	13.7	17.8	5.0	[13.4-14.9]	16.0	[15.8-16.4]	17.0	[12.1-19.8]	15.7	23.9	6.9	[16.0-18.7]
	Greece	500	22.3	[21.7-23.1]	23.4	[12.2-32.4]	22.3	22.8	28.5	5.9	[22.3-23.1]	25.4	[25.2-25.8]	26.5	[14.6-36.2]	25.0	36.8	8.0	[25.4-26.9]
	Hungary	500	15.7	[15.2-16.3]	16.7	[10.3-21.0]	15.7	16.0	20.5	5.2	[15.7-16.8]	18.4	[18.2-18.8]	19.5	[12.7-24.1]	18.1	27.3	7.2	[18.4-20.5]
	Italy	500	16.8	[16.3-17.5]	17.8	[10.1-23.5]	16.8	17.2	21.9	5.9	[16.8-18.1]	19.6	[19.5-20.1]	20.7	[12.4-26.9]	19.3	29.0	7.9	[19.6-22.0]
	Latvia	500	16.8	[16.2-17.5]	18.0	[13.5-20.1]	16.8	17.3	21.6	4.2	[16.8-17.8]	19.4	[19.2-19.7]	20.6	[15.8-23.0]	19.0	28.2	5.8	[19.4-21.1]
	Lithuania	500	16.5	[16.2-17.2]	17.6	[13.1-19.9]	16.5	17.0	21.1	3.9	[16.5-17.5]	18.9	[18.8-19.2]	20.1	[15.2-22.5]	18.5	27.4	5.3	[18.9-20.7]
	Luxembourg	500	11.0	[10.6-11.4]	11.8	[7.9-14.0]	11.0	11.2	14.6	4.6	[11.0-12.7]	13.2	[13.1-13.6]	14.1	[9.8-16.6]	13.0	19.9	6.3	[13.2-16.4]
	Netherlands	500	12.0	[11.7-12.6]	13.0	[9.1-15.0]	12.0	12.3	16.1	4.9	[12.0-13.8]	14.5	[14.4-15.0]	15.6	[11.3-17.8]	14.3	22.1	6.9	[14.5-17.7]
	Norway	500	14.3	[13.9-15.0]	15.5	[11.0-17.6]	14.3	14.6	19.7	7.1	[14.3-15.3]	17.9	[17.7-18.6]	19.3	[14.2-21.6]	17.7	27.9	10.2	[17.9-19.8]
	Poland	500	16.4	[15.8-17.1]	17.5	[12.7-20.0]	16.4	16.8	21.3	4.8	[16.4-17.5]	19.1	[19.0-19.6]	20.4	[15.2-23.1]	18.8	28.3	6.7	[19.1-21.3]
	Portugal	386	33.4	[32.6-35.3]	37.4	[27.3-39.6]	33.4	33.7	51.2	26.4	[33.4-43.2]	47.4	[46.3-50.4]	51.7	[39.9-54.8]	47.2	79.9	39.9	[47.4-65.2]
Romania	500	16.6	[16.2-17.3]	17.7	[10.8-22.5]	16.6	17.0	21.6	5.3	[16.6-17.6]	19.4	[19.2-19.8]	20.5	[13.0-25.7]	19.0	28.5	7.2	[19.4-21.2]	
Slovakia	500	15.3	[14.8-15.9]	16.3	[10.8-19.7]	15.3	15.6	20.1	5.5	[15.3-16.4]	18.1	[17.9-18.6]	19.2	[13.2-23.0]	17.8	27.0	7.7	[18.1-20.2]	
Slovenia	500	16.4	[15.9-17.0]	17.3	[9.7-23.0]	16.4	16.8	21.2	5.3	[16.4-17.7]	18.9	[18.8-19.3]	20.0	[11.8-26.0]	18.6	27.8	7.1	[18.9-21.4]	
Spain	482	25.0	[24.4-26.3]	27.2	[19.1-30.9]	25.0	25.4	35.3	13.6	[25.0-28.7]	32.2	[31.7-33.6]	34.5	[25.4-38.9]	31.9	51.0	20.0	[32.2-38.9]	
Sweden	500	13.2	[12.8-13.8]	14.3	[10.3-16.1]	13.2	13.5	17.8	5.3	[13.2-14.3]	16.0	[15.9-16.5]	17.2	[12.9-19.2]	15.8	24.4	7.5	[16.0-18.0]	
Switzerland	500	17.2	[16.8-18.0]	18.4	[11.9-22.5]	17.2	17.5	23.5	8.8	[17.2-18.8]	21.3	[21.1-22.1]	22.6	[15.4-27.3]	22.1	32.7	12.2	[21.3-24.2]	
United Kingdom	500	14.9	[14.4-15.6]	16.1	[11.3-18.5]	14.9	15.2	20.3	6.6	[14.9-16.3]	18.4	[18.1-19.0]	19.7	[14.3-22.4]	18.1	28.3	9.5	[18.4-21.0]	
emission rates from the rail section (part of the IM routing) [gCO ₂ e/ton-km]	Austria	500	12.6	[12.2-13.0]	13.1	[7.8-17.3]	12.6	12.9	15.2	1.9	12.6	13.4	[13.4-13.4]	13.9	[8.4-18.4]	13.1	18.3	2.1	13.4
	Belgium	500	8.8	[8.5-9.1]	9.2	[6.1-11.5]	8.8	9.1	10.7	1.6	8.8	9.4	[9.4-9.5]	9.9	[6.6-12.3]	9.2	12.9	1.8	9.4
	Bulgaria	500	16.4	[15.9-17.0]	17.1	[9.4-23.4]	16.4	16.9	19.9	2.1	16.4	17.5	[17.4-17.5]	18.2	[10.2-24.8]	17.1	23.9	2.2	17.5
	Croatia	500	14.0	[13.5-14.4]	14.5	[7.5-20.4]	13.8	14.4	16.9	2.2	14.0	14.9	[14.8-14.9]	15.5	[8.1-21.7]	14.6	20.4	2.4	14.8
	Czech Republic	500	12.9	[12.5-13.4]	13.5	[9.0-16.8]	12.7	13.3	15.7	1.7	12.9	13.8	[13.7-13.9]	14.4	[9.8-17.9]	13.5	19.0	1.8	13.9
	Denmark	500	11.3	[11.0-11.7]	11.9	[8.3-14.3]	11.1	11.7	13.8	1.6	11.3	12.2	[12.1-12.2]	12.8	[9.1-15.3]	11.9	16.7	1.7	12.2
	Estonia	500	14.9	[14.4-15.4]	15.7	[11.8-17.9]	14.6	15.4	18.1	1.5	14.9	16.0	[15.9-16.0]	16.8	[12.8-19.2]	15.6	22.0	1.6	16.0
	Finland	500	14.5	[14.0-15.0]	15.3	[11.6-17.4]	14.2	15.0	17.6	1.5	14.5	15.6	[15.5-15.6]	16.4	[12.6-18.6]	15.2	21.4	1.6	15.6
	France	500	11.1	[10.8-11.5]	11.6	[7.5-14													

	c_i	S	heavy goods shipments								voluminous goods shipments								
			I	II	III	IV	V	VI	VII	VIII	I	II	III	IV	V	VI	VII	VIII	
																			[-]
emission rates from the road-only routing (RO) [gCO ₂ e/ton-km]	Austria	500	56.0	[54.8-59.7]	63.9	[50.1-61.8]	56.0	91.4	56.0	56.0	85.5	[83.3-92.3]	94.4	[77.8-93.3]	85.5	150.5	85.5	85.5	
	Belgium	500	56.6	[55.3-60.3]	64.5	[48.3-64.9]	56.6	92.3	56.6	56.6	86.3	[84.1-93.1]	95.2	[75.3-97.4]	86.3	151.7	86.3	86.3	
	Bulgaria	500	58.9	[57.7-62.7]	66.9	[48.7-69.1]	58.9	95.6	58.9	58.9	89.5	[87.2-96.4]	98.4	[75.9-103.1]	89.5	156.6	89.5	89.5	
	Croatia	500	57.6	[56.5-61.5]	65.6	[47.8-67.5]	57.6	93.7	57.6	57.6	87.7	[85.6-94.7]	96.6	[74.6-100.9]	87.7	153.9	87.7	87.7	
	Czech Republic	500	57.5	[56.4-61.4]	65.5	[49.1-66.0]	57.5	93.6	57.5	57.5	87.6	[85.5-94.6]	96.5	[76.3-98.8]	87.6	153.6	87.6	87.6	
	Denmark	500	52.7	[51.5-56.2]	60.7	[48.0-57.5]	52.7	87.0	52.7	52.7	81.3	[79.0-87.7]	90.2	[74.9-87.6]	81.3	144.0	81.3	81.3	
	Estonia	500	52.1	[51.0-55.6]	60.1	[48.1-56.2]	52.1	86.1	52.1	52.1	80.5	[78.3-86.9]	89.4	[75.0-85.9]	80.5	142.7	80.5	80.5	
	Finland	500	52.5	[50.8-56.2]	60.5	[48.9-56.1]	52.5	86.6	52.5	52.5	80.9	[78.0-87.3]	89.9	[76.1-85.7]	80.9	143.4	80.9	80.9	
	France	500	59.3	[58.1-63.1]	67.2	[48.6-69.9]	59.3	96.0	59.3	59.3	89.9	[87.7-97.0]	98.8	[75.7-104.1]	89.9	157.2	89.9	89.9	
	Germany	500	55.5	[54.3-59.2]	63.5	[48.3-62.7]	55.5	90.8	55.5	55.5	84.9	[82.7-91.6]	93.8	[75.4-94.4]	84.9	149.5	84.9	84.9	
	Greece	500	65.2	[63.9-69.3]	73.2	[48.8-81.6]	65.2	104.3	65.2	65.2	97.8	[95.4-105.4]	106.7	[76.0-119.7]	97.8	169.5	97.8	97.8	
	Hungary	500	56.3	[55.1-60.0]	64.3	[47.1-65.5]	56.3	91.9	56.3	56.3	86.0	[83.8-92.8]	94.9	[73.7-98.3]	86.0	151.3	86.0	86.0	
	Italy	500	62.8	[61.1-67.3]	70.8	[49.2-76.4]	62.8	100.8	62.8	62.8	94.5	[91.6-102.2]	103.4	[76.4-112.6]	94.5	164.2	94.5	94.5	
	Latvia	500	52.5	[51.4-56.1]	60.4	[48.0-57.0]	52.5	86.5	52.5	52.5	80.8	[78.8-87.4]	89.8	[74.8-86.8]	80.8	143.2	80.8	80.8	
	Lithuania	500	52.9	[51.9-56.6]	60.9	[47.8-58.1]	52.9	87.1	52.9	52.9	81.4	[79.5-88.1]	90.4	[74.6-88.3]	81.4	144.2	81.4	81.4	
	Luxembourg	500	57.2	[55.9-60.9]	65.2	[48.5-65.8]	57.2	93.2	57.2	57.2	87.2	[84.8-93.9]	96.1	[75.7-98.7]	87.2	153.1	87.2	87.2	
	Netherlands	500	55.4	[54.2-59.1]	63.4	[47.9-62.9]	55.4	90.6	55.4	55.4	84.7	[82.6-91.5]	93.7	[74.8-94.7]	84.7	149.3	84.7	84.7	
	Norway	500	52.8	[51.4-56.4]	60.8	[48.5-57.1]	52.8	87.0	52.8	52.8	81.3	[78.8-87.8]	90.2	[75.6-87.6]	81.3	144.0	81.3	81.3	
	Poland	500	55.3	[54.1-58.9]	63.3	[48.1-62.6]	55.3	90.6	55.3	55.3	84.7	[82.4-91.3]	93.7	[75.0-94.4]	84.7	149.3	84.7	84.7	
	Portugal	500	59.7	[58.3-63.4]	67.7	[48.6-70.7]	59.7	96.7	59.7	59.7	90.5	[88.0-97.4]	99.4	[75.8-105.2]	90.5	158.3	90.5	90.5	
Romania	500	61.8	[60.4-65.6]	69.8	[49.7-73.9]	61.8	99.7	61.8	61.8	93.4	[90.7-100.3]	102.3	[77.3-109.4]	93.4	162.8	93.4	93.4		
Slovakia	500	59.4	[58.0-63.1]	67.4	[49.3-69.5]	59.4	96.2	59.4	59.4	90.1	[87.7-97.0]	99.0	[76.7-103.5]	90.1	157.7	90.1	90.1		
Slovenia	500	58.8	[57.5-62.6]	66.8	[48.9-68.7]	58.8	95.4	58.8	58.8	89.3	[86.9-96.2]	98.2	[76.1-102.5]	89.3	156.4	89.3	89.3		
Spain	500	60.5	[59.3-64.4]	68.5	[49.0-72.1]	60.5	97.8	60.5	60.5	91.6	[89.3-98.7]	100.5	[76.2-107.0]	91.6	160.0	91.6	91.6		
Sweden	500	52.5	[51.2-55.9]	60.4	[48.2-56.7]	52.5	86.6	52.5	52.5	80.9	[78.6-87.3]	89.8	[75.2-86.5]	80.9	143.4	80.9	80.9		
Switzerland	500	60.7	[59.3-64.5]	68.7	[50.5-70.9]	60.7	98.1	60.7	60.7	91.8	[89.4-98.8]	100.8	[78.3-105.4]	91.8	160.4	91.8	91.8		
United Kingdom	500	54.4	[53.1-58.2]	62.3	[48.3-60.4]	54.4	89.1	54.4	54.4	83.3	[81.2-90.2]	92.2	[75.2-91.4]	83.3	147.0	83.3	83.3		
emission rates from the intermodal routing (IM) [gCO ₂ e/ton-km]	Austria	500	25.6	[24.9-26.8]	27.7	[19.0-32.2]	25.6	26.0]	35.8	14.0	[25.6-29.0]	32.7	[32.3-34.2]	35.0	[25.1-40.3]	[32.4-33.4]	51.5	28.3	[32.7-39.0]
	Belgium	500	21.0	[20.4-21.9]	22.4	[14.7-27.3]	21.0	21.5]	27.4	6.3	[21.0-22.9]	24.6	[24.5-25.2]	26.1	[17.8-31.5]	[24.2-25.5]	36.5	8.9	[24.6-28.2]
	Bulgaria	488	37.7	[36.8-39.4]	40.6	[24.7-50.7]	37.4	38.3]	52.4	18.2	[37.7-42.9]	47.6	[47.0-49.6]	50.8	[33.2-62.0]	[47.1-48.6]	74.6	26.9	[47.6-57.1]
	Croatia	500	29.6	[28.8-31.1]	32.3	[20.7-38.4]	29.4	30.0]	42.4	17.6	[29.6-33.1]	38.8	[38.2-40.7]	41.7	[28.7-48.9]	[38.5-39.6]	62.3	25.9	[38.8-45.3]
	Czech Republic	500	23.8	[23.1-24.9]	25.8	[18.2-29.4]	23.8	24.1]	32.8	11.0	[23.8-26.9]	29.8	[29.4-30.9]	31.9	[23.5-36.6]	[29.4-30.6]	46.3	16.1	[29.8-35.5]
	Denmark	500	22.4	[21.7-23.3]	24.1	[17.3-27.5]	22.1	22.9]	29.6	7.9	[22.4-24.2]	26.7	[26.5-27.5]	28.6	[21.2-32.2]	[26.3-27.7]	40.0	11.2	[26.7-30.1]
	Estonia	500	22.5	[21.8-23.5]	24.2	[17.1-27.9]	22.2	23.1]	29.6	6.6	[22.5-24.0]	26.6	[26.4-27.2]	28.4	[20.8-32.4]	[26.1-27.6]	39.6	9.4	[26.6-29.4]
	Finland	500	21.4	[20.7-22.3]	23.0	[16.4-26.3]	21.1	21.9]	28.2	6.4	[21.4-22.7]	25.3	[25.1-25.9]	27.1	[20.0-30.7]	[24.9-26.3]	37.8	9.2	[25.3-27.8]
	France	500	19.7	[19.2-20.6]	21.2	[13.8-25.6]	19.5	20.1]	26.6	8.2	[19.7-21.4]	24.0	[23.8-24.8]	25.6	[17.6-30.4]	[23.7-24.7]	36.7	11.7	[24.0-27.1]
	Germany	500	22.5	[21.9-23.5]	24.2	[16.6-28.5]	22.3	23.0]	30.1	8.1	[22.5-24.9]	27.2	[26.9-28.0]	29.0	[20.7-33.6]	[26.7-28.1]	41.1	11.7	[27.2-31.4]
	Greece	500	43.6	[42.5-45.3]	46.1	[22.5-64.7]	43.2	44.4]	58.1	16.3	[43.6-46.5]	52.3	[51.8-54.0]	55.0	[29.4-75.2]	[51.7-57.7]	78.9	23.4	[52.5-73.7]
	Hungary	490	29.0	[28.3-30.6]	32.1	[22.0-36.1]	28.9	29.4]	42.5	18.1	[29.0-34.5]	38.9	[38.3-41.0]	42.2	[30.9-46.9]	[38.6-39.6]	63.6	27.2	[38.9-48.9]
	Italy	500	23.7	[22.9-24.7]	25.2	[15.0-32.3]	23.4	24.2]	31.4	8.9	[23.7-25.7]	28.3	[27.9-29.2]	29.9	[18.9-37.7]	[27.9-29.2]	42.5	12.5	[28.3-32.1]
	Latvia	500	23.4	[22.7-24.5]	25.2	[17.5-29.3]	23.1	24.0]	31.0	7.2	[23.4-25.1]	27.9	[27.7-28.6]	29.8	[21.5-34.3]	[27.4-28.9]	41.7	10.4	[27.9-31.1]
	Lithuania	500	23.7	[23.0-24.8]	25.5	[17.3-30.1]	23.4	24.3]	31.2	7.1	[23.7-25.6]	28.1	[27.9-28.8]	29.9	[21.1-35.0]	[27.6-29.1]	41.8	10.2	[28.1-31.5]
	Luxembourg	500	19.5	[18.9-20.3]	20.8	[13.3-25.6]	19.3	20.0]	25.6	6.2	[19.5-21.6]	23.0	[22.8-23.6]	24.4	[16.3-29.7]	[22.6-23.8]	34.2	8.8	[23.0-26.8]
	Netherlands	500	21.4	[20.7-22.3]	22.9	[15.4-27.4]	21.1	21.9]	28.0	6.2	[21.4-23.4]	25.1	[24.9-25.7]	26.7	[18.6-31.6]	[24.7-26.1]	37.2	8.7	[25.1-28.7]
	Norway	500	22.3	[21.7-23.2]	24.0	[17.4-27.2]	22.1	22.7]	29.9	12.2	[22.3-23.7]	27.4	[27.1-28.4]	29.3	[21.9-32.9]	[27.1-28.1]	41.4	16.6	[27.4-30.1]
	Poland	500	25.4	[24.6-26.6]	27.5	[18.4-32.4]	25.1	26.0]	34.5	10.0	[25.4-28.0]	31.2	[30.8-32.2]	33.4	[23.6-38.8]	[30.7-32.2]	47.9	14.6	[31.2-35.9]
	Portugal	500	17.1	[16.6-17.8]	18.1	[11.2-23.0]	16.9	17.5]	22.2	5.5	[17.1-18.1]	19.9	[19.8-20.3]	21.0	[13.6-26.2]	[19.6-20.6]	29.3	7.5	[19.9-21.7]
Romania	412	36.5	[35.3-38.4]	40.4	[27.8-45.2]	36.4	36.9]	54.5	25.8	[36.5-44.1]	50.2	[49.1-53.0]	54.4	[40.0-60.4]	[49.9-50.8]	83.1	38.7	[50.2-64.1]	
Slovakia	500	27.1	[26.4-28.4]	29.6	[20.1-34.2]	26.9	27.5]	38.7	15.7	[27.1-31.1]	35.4	[34.8-37.0]	38.0	[27.2-43.5]	[35.0-36.1]	56.6	23.1	[35.4-42.6]	
Slovenia	500	24.5	[23.8-25.6]	26.4	[17.1-32.0]	24.3	25.0]	33.7	11.3	[24.5-28.0]	30.5	[30.2-31.7]	32.6	[22.3-38.8]	[30.2-31.3]	47.3	16.4	[30.5-37.0]	
Spain	500	18.2	[17.7-19.0]	19.4	[12.0-24.5]	18.1	18.7]	24.0	6.5	[18.2-19.4]	21.5	[21.3-22.0]	22.7	[14.8-28.2]	[21.2-22.2]	32.0	8.9	[21.5-23.7]	
Sweden	500	22.0	[21.4-22.9]	23.6	[17.5-26.5]	21.8	22.4]	28.8	10.6	[22.0-23.6]	26.3	[26.1-27.1]	28.0	[21.4-31.2]	[21.6-27.1]	38.8	14.1	[29.3-29.3]	
Switzerland	500	26.8	[26.1-28.0]	28.6	[18.5-35.1]	26.6	27.3]	36.4	12.3	[26.8-28.9]	33.0	[32.6-34.2]	35.0	[23.7-42.4]	[32.6-33.9]	50.6	17.5	[33.0-37.0]	
United Kingdom	500	20.7	[20.1-21.6]	22.2	[15.0-26.4]	20.5	21.2]	27.4	6.9	[20.7-22.1]	24.6	[24.5-25.3]	26.2	[18.4-30.9]	[24.3-25.5]	36.9	9.9	[24.6-27.2]	
emission rates from the rail section (part of the IM routing) [gCO ₂ e/ton-km]	Austria	500	15.9	[15.4-16.5]	16.7	[10.9-20.9]	15.7	16.4]	19.3	1.8	15.9	17.0	[16.9-17.1]	17.8	[11.8-22.2]	[16.6-17.9]	23.3	1.9	17.0
	Belgium	500	17.7	[17.2-18.3]	18.5	[11.7-23.8]	17.5	18.3]	21.5	1.7	17.7	19.0	[18.9-19.0]	19.8	[12.7-25.3]	[18.6-20.0]	26.0	1.9	19.0
	Bulgaria	488	28.6	[27.8-29.5]	29.5	[15.0-42.1]	28.2	29.3]	34.6	2.4	28.6	30.4	[30.2-30.4]	31.3	[16.2-44.6]	[29.8-31.8]	41.5	2.5	30.4
	Croatia	500	18.3	[17.7-18.9]	19.0	[10.5-26.0]	18.0	18.8]	22.2	1.9	18.3	19.6	[19.4-19.6]	20.3	[11.5-27.7]	[19.1-20.6]	26.8	2.1	19.6
	Czech Republic	500	16.8	[16.3-17.4]	17.7	[11.9-21.8]	16.6	17.4]	20.5	1.7	16.8	18.1	[18.0-18.1]	18.9	[12.9-23.2]	[17.6-19.0]	24.7	1.8	18.1
	Denmark	500	18.5	[17.9-19.1]	19.4	[13.7-23.3]	18.2	19.1]	22.4	2.2	18.5	19.8	[19.7-19.9]						

	c_i	S	heavy goods shipments								voluminous goods shipments								
			I	II	III	IV	V	VI	VII	VIII	I	II	III	IV	V	VI	VII	VIII	
emission rates from the road-only routing (RO) [gCO ₂ e/ton-km]																			
Austria	500	57.8	[56.5-61.5]	65.8	[51.2-64.4]	57.8	94.0	57.8	57.8	88.0	[85.6-94.8]	96.9	[79.2-96.7]	88.0	154.3	88.0	88.0	88.0	
Belgium	500	55.6	[54.5-59.3]	63.6	[47.9-63.3]	55.6	90.9	55.6	55.6	85.0	[82.9-91.9]	93.9	[74.7-95.3]	85.0	149.7	85.0	85.0	85.0	
Bulgaria	500	60.6	[59.4-64.5]	68.6	[48.4-72.9]	60.6	98.0	60.6	60.6	91.7	[89.4-98.9]	100.7	[75.4-108.1]	91.7	160.1	91.7	91.7	91.7	
Croatia	500	56.4	[55.1-60.0]	64.4	[47.5-65.3]	56.4	92.1	56.4	56.4	86.2	[83.7-92.7]	95.1	[74.3-98.1]	86.2	151.7	86.2	86.2	86.2	
Czech Republic	500	60.0	[58.6-63.7]	68.0	[49.4-70.6]	60.0	97.1	60.0	60.0	90.9	[88.4-97.8]	99.9	[76.8-105.1]	90.9	159.0	90.9	90.9	90.9	
Denmark	500	51.4	[50.3-54.9]	59.3	[47.2-55.5]	51.4	84.9	51.4	51.4	79.3	[77.4-85.9]	88.3	[73.8-84.9]	79.3	140.9	79.3	79.3	79.3	
Estonia	500	51.1	[49.9-54.5]	59.1	[47.6-54.6]	51.1	84.7	51.1	51.1	79.1	[76.8-85.3]	88.0	[74.5-83.7]	79.1	140.7	79.1	79.1	79.1	
Finland	500	51.2	[49.7-55.2]	59.2	[48.5-53.9]	51.2	84.6	51.2	51.2	79.0	[76.6-85.8]	87.9	[75.4-82.6]	79.0	140.3	79.0	79.0	79.0	
France	500	61.9	[60.6-65.8]	69.9	[48.5-75.4]	61.9	99.8	61.9	61.9	93.5	[91.0-100.6]	102.4	[75.6-111.4]	93.5	162.9	93.5	93.5	93.5	
Germany	500	55.3	[54.0-58.9]	63.3	[48.0-62.7]	55.3	90.6	55.3	55.3	84.7	[82.4-91.3]	93.6	[74.9-94.5]	84.7	149.3	84.7	84.7	84.7	
Greece	500	63.5	[62.1-67.4]	71.5	[48.6-78.4]	63.5	102.0	63.5	63.5	95.6	[93.1-102.8]	104.5	[75.7-115.4]	95.6	166.1	95.6	95.6	95.6	
Hungary	500	52.6	[51.4-56.2]	60.6	[44.2-61.0]	52.6	86.8	52.6	52.6	81.1	[78.9-87.5]	90.0	[69.9-92.2]	81.1	143.7	81.1	81.1	81.1	
Italy	500	62.7	[61.0-67.4]	70.7	[49.3-76.1]	62.7	100.7	62.7	62.7	94.4	[91.5-102.2]	103.3	[76.5-112.2]	94.4	163.9	94.4	94.4	94.4	
Latvia	500	51.2	[50.0-54.6]	59.2	[47.5-54.9]	51.2	84.8	51.2	51.2	79.2	[77.0-85.5]	88.1	[74.3-84.1]	79.2	140.8	79.2	79.2	79.2	
Lithuania	500	51.8	[50.6-55.3]	59.8	[47.2-56.4]	51.8	85.6	51.8	51.8	80.0	[77.8-86.4]	88.9	[73.9-86.1]	80.0	142.0	80.0	80.0	80.0	
Luxembourg	500	55.3	[54.0-58.8]	63.3	[48.3-62.3]	55.3	90.6	55.3	55.3	84.7	[82.3-91.2]	93.7	[75.4-94.0]	84.7	149.4	84.7	84.7	84.7	
Netherlands	500	54.8	[53.6-58.4]	62.8	[47.4-62.2]	54.8	89.8	54.8	54.8	84.0	[81.7-90.6]	92.9	[74.1-93.8]	84.0	148.1	84.0	84.0	84.0	
Norway	500	51.8	[50.4-55.6]	59.7	[48.2-55.3]	51.8	85.4	51.8	51.8	79.8	[77.5-86.6]	88.8	[75.1-84.6]	79.8	141.6	79.8	79.8	79.8	
Poland	500	54.4	[53.1-57.9]	62.3	[46.6-62.1]	54.4	89.2	54.4	54.4	83.4	[81.1-89.9]	92.3	[73.1-93.7]	83.4	147.3	83.4	83.4	83.4	
Portugal	500	64.2	[62.8-68.1]	72.2	[48.5-79.8]	64.2	103.0	64.2	64.2	96.5	[93.9-103.7]	105.4	[75.7-117.3]	96.5	167.6	96.5	96.5	96.5	
Romania	500	56.3	[55.1-60.0]	64.3	[48.0-64.6]	56.3	91.9	56.3	56.3	86.0	[83.7-92.7]	94.9	[75.0-97.0]	86.0	151.3	86.0	86.0	86.0	
Slovakia	500	61.1	[59.7-64.9]	69.1	[48.4-74.0]	61.1	98.6	61.1	61.1	92.4	[89.9-99.4]	101.3	[75.4-109.5]	92.4	161.2	92.4	92.4	92.4	
Slovenia	500	57.1	[55.8-60.7]	65.1	[48.7-65.5]	57.1	93.1	57.1	57.1	87.1	[84.6-93.7]	96.0	[75.9-98.3]	87.1	153.1	87.1	87.1	87.1	
Spain	500	65.2	[63.8-69.2]	73.1	[48.9-81.4]	65.2	104.3	65.2	65.2	97.7	[95.3-105.2]	106.7	[76.1-119.4]	97.7	169.4	97.7	97.7	97.7	
Sweden	500	51.1	[49.9-54.6]	59.1	[47.7-54.4]	51.1	84.6	51.1	51.1	79.0	[76.9-85.4]	87.9	[74.6-83.5]	79.0	140.5	79.0	79.0	79.0	
Switzerland	500	63.8	[62.4-67.7]	71.8	[51.2-76.3]	63.8	102.4	63.8	63.8	96.0	[93.4-103.2]	104.9	[79.3-112.7]	96.0	166.8	96.0	96.0	96.0	
United Kingdom	500	53.7	[52.2-57.3]	61.7	[48.4-59.1]	53.7	88.3	53.7	53.7	82.5	[79.9-89.0]	91.5	[75.4-89.7]	82.5	146.0	82.5	82.5	82.5	
emission rates from the intermodal routing (IM) [gCO ₂ e/ton-km]																			
Austria	498	32.7	[31.9-34.5]	35.9	[24.9-40.6]	[32.6-33.0]	48.4	24.1	[32.7-39.8]	44.7	[43.8-47.3]	48.2	[35.0-54.4]	[44.5-45.3]	73.4	35.5	[44.7-57.6]	44.7	
Belgium	500	22.7	[22.0-23.7]	24.3	[15.7-29.6]	[22.4-23.2]	30.0	7.7	[22.7-25.4]	27.0	[26.8-27.8]	28.7	[19.4-34.7]	[26.6-28.0]	40.6	10.9	[27.0-32.1]	27.0	
Bulgaria	500	28.8	[28.0-30.0]	30.7	[18.3-39.2]	[28.5-29.4]	38.5	10.7	[28.8-31.5]	34.7	[34.4-35.8]	36.7	[23.4-46.1]	[34.2-35.7]	52.5	15.4	[34.7-39.7]	34.7	
Croatia	500	30.6	[29.8-32.2]	33.7	[22.0-39.3]	[30.5-31.0]	45.2	21.2	[30.6-35.3]	41.6	[40.8-43.9]	45.0	[31.4-51.8]	[41.3-42.2]	68.2	31.5	[41.6-50.1]	41.6	
Czech Republic	496	33.5	[32.6-35.2]	36.8	[25.2-41.8]	[33.3-33.9]	48.7	21.4	[33.5-41.0]	44.8	[43.9-47.1]	48.4	[35.0-54.6]	[44.4-45.5]	72.8	31.8	[44.8-58.5]	44.8	
Denmark	500	26.4	[25.6-27.6]	28.7	[21.6-31.2]	[26.1-27.0]	35.7	11.0	[26.4-29.2]	32.5	[32.1-33.6]	34.9	[27.0-37.9]	[32.0-33.5]	49.6	15.9	[32.5-37.6]	32.5	
Estonia	500	25.1	[24.3-26.2]	27.2	[19.4-30.7]	[24.8-25.7]	33.6	8.6	[25.1-27.3]	30.4	[30.1-31.3]	32.6	[24.2-36.6]	[29.9-31.5]	46.1	12.7	[30.4-34.6]	30.4	
Finland	500	23.1	[22.4-24.4]	25.1	[18.2-28.0]	[22.9-23.7]	31.1	8.2	[23.1-25.1]	28.1	[27.8-29.0]	30.2	[22.7-33.5]	[27.7-29.1]	42.8	12.0	[28.1-31.7]	28.1	
France	500	19.6	[19.1-20.5]	21.2	[14.0-25.2]	[19.4-20.0]	27.2	9.8	[19.6-21.8]	24.7	[24.4-25.7]	26.5	[18.5-30.9]	[24.4-25.3]	38.6	14.1	[24.7-28.6]	24.7	
Germany	500	27.2	[26.4-28.5]	29.5	[20.1-34.3]	[26.9-27.7]	37.4	12.1	[27.2-31.2]	34.0	[33.6-35.3]	36.5	[26.0-42.0]	[33.6-35.0]	52.8	17.8	[34.0-41.3]	34.0	
Greece	500	35.8	[34.8-37.1]	37.7	[18.9-52.6]	[35.4-36.5]	47.1	12.1	[35.8-37.8]	42.3	[41.9-43.4]	44.3	[24.0-60.5]	[41.7-43.5]	63.0	17.1	[42.3-46.3]	42.3	
Hungary	471	30.6	[29.9-32.5]	34.3	[24.6-36.7]	[30.5-30.9]	46.8	23.7	[30.6-38.5]	43.3	[42.4-46.1]	47.4	[35.9-50.7]	[43.1-43.8]	73.0	35.8	[43.3-57.7]	43.3	
Italy	500	24.8	[24.0-25.9]	26.4	[15.3-34.2]	[24.5-25.2]	33.3	10.7	[24.8-27.4]	30.2	[29.8-31.3]	31.9	[19.9-40.5]	[29.8-31.0]	45.9	15.2	[30.2-35.0]	30.2	
Latvia	500	27.2	[26.3-28.5]	29.6	[20.8-33.7]	[26.9-27.9]	36.9	10.2	[27.2-30.0]	33.4	[33.0-34.5]	35.9	[26.3-40.5]	[32.9-34.5]	51.1	15.0	[33.4-38.4]	33.4	
Lithuania	500	28.1	[27.2-29.4]	30.4	[20.8-35.4]	[27.8-28.7]	37.8	10.1	[28.1-31.3]	34.2	[33.9-35.3]	36.7	[26.1-42.4]	[33.7-35.4]	52.2	14.8	[34.2-40.2]	34.2	
Luxembourg	500	20.6	[20.0-21.5]	22.1	[13.7-27.5]	[20.4-21.1]	27.6	7.7	[20.6-23.6]	24.9	[24.6-25.6]	26.5	[17.2-32.5]	[24.5-25.7]	37.6	11.0	[24.9-30.4]	24.9	
Netherlands	500	24.7	[23.9-25.7]	26.5	[17.6-31.8]	[24.4-25.3]	32.8	8.1	[24.7-27.6]	29.5	[29.3-30.4]	31.5	[21.7-37.6]	[29.1-30.6]	44.4	11.8	[29.5-34.8]	29.5	
Norway	500	25.1	[24.5-26.3]	27.3	[20.5-29.7]	[25.0-25.5]	34.5	16.2	[25.1-27.1]	31.9	[31.5-33.3]	34.2	[26.4-37.4]	[31.6-32.5]	49.1	22.3	[31.9-35.5]	31.9	
Poland	494	35.1	[34.1-37.0]	38.7	[25.5-44.7]	[34.9-35.7]	50.4	19.4	[35.1-40.9]	46.1	[45.3-48.2]	49.9	[35.1-57.1]	[45.6-47.1]	74.0	29.0	[46.1-56.6]	46.1	
Portugal	500	14.8	[14.4-15.5]	15.9	[10.3-19.4]	[14.7-15.2]	19.7	5.7	[14.8-16.0]	17.7	[17.6-18.2]	18.8	[12.8-22.7]	[17.5-18.3]	26.6	7.9	[17.7-19.9]	17.7	
Romania	500	27.2	[26.5-28.6]	29.7	[19.9-34.5]	[27.0-27.6]	38.9	16.0	[27.2-31.2]	35.6	[35.0-37.3]	38.4	[27.2-44.1]	[35.3-36.3]	57.2	23.6	[35.6-42.9]	35.6	
Slovakia	305	37.1	[36.2-39.2]	41.2	[28.8-45.4]	[37.0-37.4]	56.3	28.9	[37.1-46.5]	52.1	[51.0-55.4]	56.7	[41.9-62.4]	[51.9-52.6]	87.4	44.3	[52.1-69.4]	52.1	
Slovenia	500	27.0	[26.3-28.4]	29.5	[19.3-34.8]	[26.9-27.4]	38.8	16.5	[27.0-32.8]	35.5	[34.9-37.3]	38.2	[26.5-46.5]	[35.2-36.2]	57.1	24.2	[35.5-46.1]	35.5	
Spain	500	16.1	[15.6-16.8]	17.2	[11.2-21.0]	[15.9-16.4]	21.6	6.9	[16.1-17.5]	19.5	[19.3-20.1]	20.7	[14.1-24.9]	[19.2-20.1]	29.6	9.6	[19.5-22.1]	19.5	
Sweden	500	24.9	[24.3-25.9]	26.9	[20.9-28.8]	[24.7-25.3]	33.1	14.2	[24.9-27.2]	30.5	[30.2-31.6]	32.7	[26.0-35.0]	[30.2-31.3]	45.7	19.0	[30.5-34.8]	30.5	
Switzerland	500	30.7	[29.9-32.1]	32.9	[20.8-60.6]	[30.5-31.2]	42.5	16.6	[30.7-33.7]	38.9	[38.3-40.5]	41.2	[27.5-50.2]	[38.5-39.7]	60.5	23.7	[38.9-44.4]	38.9	
United Kingdom	500	21.8	[21.1-22.7]	23.5	[15.8-27.8]	[21.6-22.3]	29.3	8.2	[21.8-23.6]	26.4	[26.1-27.2]	28.2	[19.2-33.0]	[26.0-27.3]	40.1	11.8	[26.4-29.7]	26.4	
emission rates from the rail section (part of the IM routing) [gCO ₂ e/ton-km]																			
Austria	498	14.7	[14.2-15.2]	15.4	[10.4-18.9]	[14.4-15.1]	17.8	1.7	14.7	15.7	[15.6-15.7]	16.4	[11.3-20.1]	[15.3-16.6]	21.5	1.8	15.7	15.7	
Belgium	500	18.4	[17.9-19.1]	19.3	[12.0-24.9]	[18.2-19.0]	22.4	1.7	18.4	19.8	[19.7-19.8]	20.7	[13.1-26.5]	[19.3-20.8]	27.1	1.8	19.8	19.8	
Bulgaria	500	23.2	[22.5-24.0]	24.1	[13.0-33.4]	[22.9-23.9]	28.2	2.1	23.2	24.8	[24.6-24.8]	25.6	[14.1-35.4]	[24.2-25.9]	33.8	2.3	24.8	24.8	
Croatia	500	15.8	[15.3-16.3]	16.5	[9.3-22.3]	[15.6-16.3]	19.2	1.9	15.8	16.9	[16.8-16.9]	17.6	[10.1-23.8]	[16.5-17.8]	23				

	c_i	S	heavy goods shipments								voluminous goods shipments								
			I	II	III	IV	V	VI	VII	VIII	I	II	III	IV	V	VI	VII	VIII	
emission rates from the road-only routing (RO) [gCO ₂ e/ton-km]	Austria	500	77.8	[76.2-82.3]	85.7	[55.2-100.4]	77.8	121.9	77.8	77.8	114.5	[111.7-122.9]	123.5	[84.4-144.6]	114.5	195.4	114.5	114.5	
	Belgium	500	63.1	[61.8-67.1]	71.1	[47.8-78.5]	63.1	101.5	63.1	63.1	95.1	[92.7-102.4]	104.0	[74.6-115.6]	95.1	165.3	95.1	95.1	
	Bulgaria	500	60.4	[59.0-64.2]	68.4	[48.5-72.2]	60.4	97.6	60.4	60.4	91.4	[89.0-98.4]	100.3	[75.7-107.2]	91.4	159.7	91.4	91.4	
	Croatia	500	57.9	[56.8-61.8]	65.9	[45.7-70.2]	57.9	94.1	57.9	57.9	88.4	[86.0-95.1]	97.0	[71.8-104.4]	88.1	154.5	88.1	88.1	
	Czech Republic	500	64.7	[63.4-68.8]	72.7	[49.0-80.5]	64.7	103.6	64.7	64.7	97.1	[94.8-104.6]	106.0	[76.2-118.1]	97.1	168.4	97.1	97.1	
	Denmark	500	56.6	[55.3-60.3]	64.5	[47.6-65.5]	56.6	92.2	56.6	56.6	86.3	[84.1-93.1]	95.2	[74.4-98.2]	86.3	151.7	86.3	86.3	
	Estonia	500	53.7	[52.5-57.3]	61.7	[47.9-59.5]	53.7	88.2	53.7	53.7	82.5	[80.3-89.1]	91.4	[74.7-90.2]	82.5	145.8	82.5	82.5	
	Finland	500	53.6	[52.1-57.5]	61.6	[48.6-58.6]	53.6	88.0	53.6	53.6	82.3	[80.7-89.1]	91.2	[75.6-88.9]	82.3	145.4	82.3	82.3	
	France	500	73.1	[71.6-77.4]	81.1	[48.6-97.7]	73.1	115.5	73.1	73.1	108.4	[105.6-116.3]	117.3	[75.7-141.1]	108.4	186.0	108.4	108.4	
	Germany	500	64.1	[62.9-68.3]	72.1	[48.0-80.2]	64.1	102.8	64.1	64.1	96.3	[94.1-103.9]	105.3	[74.9-117.8]	96.3	167.2	96.3	96.3	
	Greece	500	59.9	[58.6-63.7]	67.9	[48.5-71.4]	59.9	97.0	59.9	59.9	90.8	[88.4-97.8]	99.8	[75.6-106.0]	90.8	158.8	90.8	90.8	
	Hungary	500	53.2	[51.9-57.1]	61.2	[46.1-60.3]	53.2	87.6	53.2	53.2	81.9	[79.6-88.2]	90.8	[72.4-91.4]	81.9	145.0	81.9	81.9	
	Italy	500	62.6	[60.7-67.4]	70.6	[49.5-75.7]	62.6	100.4	62.6	62.6	94.1	[91.0-102.1]	103.0	[76.6-111.5]	94.1	163.3	94.1	94.1	
	Latvia	500	54.0	[52.9-57.7]	62.0	[47.7-60.3]	54.0	88.6	54.0	54.0	82.8	[80.9-89.7]	91.8	[74.5-93.9]	82.8	146.3	82.8	82.8	
	Lithuania	500	55.1	[53.8-58.7]	63.0	[47.8-62.3]	55.1	90.2	55.1	55.1	84.3	[82.1-91.0]	93.2	[74.7-93.9]	84.3	148.7	84.3	84.3	
	Luxembourg	500	66.0	[64.4-69.9]	73.9	[48.2-83.8]	66.0	105.5	66.0	66.0	98.9	[96.1-106.1]	107.8	[75.2-122.6]	98.9	171.4	98.9	98.9	
	Netherlands	500	60.8	[59.5-64.6]	68.7	[47.3-74.2]	60.8	98.1	60.8	60.8	91.9	[89.6-99.0]	100.8	[74.0-109.8]	91.9	160.4	91.9	91.9	
	Norway	500	55.2	[53.9-59.2]	63.2	[48.2-62.2]	55.2	90.2	55.2	55.2	84.4	[82.2-91.5]	93.3	[75.1-93.7]	84.4	148.6	84.4	84.4	
	Poland	500	58.0	[56.8-61.8]	66.0	[47.6-68.3]	58.0	94.2	58.0	58.0	88.1	[86.0-95.2]	97.1	[74.4-101.9]	88.1	154.8	88.1	88.1	
	Portugal	500	61.5	[60.4-65.6]	69.5	[48.3-74.7]	61.5	99.1	61.5	61.5	92.8	[90.7-100.3]	101.8	[75.3-110.4]	92.8	161.8	92.8	92.8	
Romania	500	55.6	[54.3-59.1]	63.5	[48.4-62.7]	55.6	90.9	55.6	55.6	85.0	[82.6-91.6]	94.0	[75.5-94.6]	85.0	149.8	85.0	85.0		
Slovakia	500	59.8	[58.4-63.5]	67.8	[48.6-70.9]	59.8	96.8	59.8	59.8	90.6	[88.2-97.5]	99.6	[75.8-105.5]	90.6	158.5	90.6	90.6		
Slovenia	500	67.0	[65.6-71.1]	74.9	[51.0-83.4]	67.0	106.8	67.0	67.0	100.1	[97.6-107.7]	109.0	[78.7-122.0]	100.1	173.1	100.1	100.1		
Spain	500	61.3	[60.0-65.2]	69.3	[49.1-73.5]	61.3	98.8	61.3	61.3	92.6	[90.3-99.8]	101.5	[76.4-108.8]	92.6	161.4	92.6	92.6		
Sweden	500	54.7	[53.5-58.4]	62.7	[47.8-61.6]	54.7	89.6	54.7	54.7	83.8	[81.7-90.5]	92.7	[74.7-92.9]	83.8	147.9	83.8	83.8		
Switzerland	500	88.8	[87.1-93.8]	96.8	[53.0-124.5]	88.8	137.3	88.8	88.8	129.3	[126.1-138.3]	138.2	[81.7-176.8]	129.3	218.3	129.3	129.3		
United Kingdom	500	58.5	[57.1-62.5]	66.5	[48.2-68.8]	58.5	94.9	58.5	58.5	88.9	[86.4-96.0]	97.8	[75.2-102.5]	88.9	155.7	88.9	88.9		
emission rates from the intermodal routing (IM) [gCO ₂ e/ton-km]	Austria	454	33.8	[33.0-35.5]	36.6	[23.4-44.2]	33.8	48.9	23.1	[33.8-41.8]	45.0	[44.2-47.4]	48.1	[32.8-57.2]	[44.7-45.6]	72.7	33.6	[45.0-59.8]	
	Belgium	500	19.2	[18.6-19.9]	20.3	[11.8-26.5]	19.2	24.8	5.8	[19.2-22.0]	22.1	[22.0-22.6]	23.3	[14.3-30.0]	[21.8-22.9]	32.5	7.9	[22.1-27.3]	
	Bulgaria	500	26.7	[26.0-27.8]	28.3	[16.3-37.1]	26.7	34.9	8.0	[26.7-29.3]	31.2	[31.0-31.9]	32.9	[20.1-42.4]	[30.7-32.3]	46.1	11.3	[31.2-35.9]	
	Croatia	434	38.0	[37.2-40.2]	42.1	[26.5-49.5]	37.9	38.3	57.5	29.5	[38.0-47.4]	53.2	[52.1-56.6]	57.7	[39.5-66.9]	[52.9-53.7]	88.9	44.1	[53.2-70.4]
	Czech Republic	500	24.3	[23.7-25.5]	26.3	[17.7-30.9]	24.3	24.7	33.6	11.5	[24.3-29.6]	30.5	[32.0-31.8]	32.7	[23.2-27.9]	[30.2-31.3]	47.7	16.8	[30.5-40.3]
	Denmark	500	22.2	[21.6-23.2]	23.9	[16.9-27.6]	22.2	22.2	29.1	7.2	[22.2-24.7]	26.2	[26.0-26.9]	27.9	[20.5-32.0]	[25.8-27.2]	38.8	10.0	[26.2-30.7]
	Estonia	500	22.5	[21.7-23.4]	24.1	[17.9-27.0]	22.5	22.5	29.2	5.6	[22.5-24.3]	26.2	[26.0-26.7]	27.9	[21.3-31.0]	[25.7-27.3]	38.5	7.9	[26.2-29.6]
	Finland	500	21.2	[20.5-22.2]	22.8	[17.1-25.3]	21.2	21.2	27.7	5.6	[21.2-22.9]	24.9	[24.7-25.4]	26.6	[20.5-29.3]	[24.4-25.9]	36.9	8.1	[24.9-27.9]
	France	500	20.3	[19.7-21.1]	21.7	[13.2-27.3]	20.3	20.6	27.6	9.6	[20.3-22.9]	24.9	[24.6-25.8]	26.5	[17.3-32.6]	[24.6-25.6]	38.4	13.6	[24.9-27.9]
	Germany	500	24.0	[23.3-25.0]	25.7	[16.2-31.8]	23.7	24.5	31.8	8.0	[24.0-27.6]	28.5	[28.3-29.3]	30.3	[20.1-36.9]	[28.1-29.5]	42.8	11.5	[28.5-35.1]
	Greece	500	34.0	[33.0-35.2]	35.6	[17.3-50.6]	33.6	34.7	44.0	9.9	[34.0-35.9]	39.3	[39.0-40.2]	41.1	[21.4-52.7]	[38.7-40.6]	57.7	13.7	[39.3-42.9]
	Hungary	494	26.4	[25.7-27.8]	29.2	[19.5-33.4]	26.4	26.8	38.5	16.0	[26.4-32.8]	35.2	[34.5-37.0]	38.2	[27.4-43.0]	[34.9-35.8]	57.3	24.1	[35.2-46.9]
	Italy	499	27.2	[26.4-28.4]	29.1	[16.8-37.5]	27.2	27.2	37.1	13.1	[27.2-31.9]	33.7	[33.2-35.1]	35.8	[22.3-45.1]	[33.3-34.5]	52.0	18.7	[33.7-42.4]
	Latvia	500	23.6	[22.9-24.7]	25.4	[18.6-28.6]	23.6	23.6	29.8	6.2	[23.6-25.8]	27.7	[27.5-28.3]	29.5	[22.3-33.0]	[27.2-28.8]	40.9	8.9	[27.7-31.7]
	Lithuania	500	24.1	[23.3-25.1]	25.8	[18.7-29.5]	23.3	24.7	31.2	5.9	[24.1-26.5]	27.9	[27.8-28.5]	29.8	[22.2-33.7]	[27.4-29.1]	41.0	8.4	[27.9-32.5]
	Luxembourg	500	18.6	[18.1-19.3]	19.6	[10.8-26.5]	18.6	19.6	24.1	5.9	[18.6-21.9]	21.5	[21.3-21.9]	22.6	[13.0-29.9]	[21.1-22.2]	31.5	7.9	[21.5-27.6]
	Netherlands	500	20.5	[19.8-21.3]	21.8	[13.8-27.1]	20.5	20.5	26.5	5.5	[20.5-23.1]	23.7	[23.3-24.2]	25.1	[16.6-30.8]	[23.3-24.6]	34.8	7.6	[23.7-28.6]
	Norway	500	22.4	[21.9-23.4]	24.2	[17.4-27.5]	22.4	23.1	31.1	13.1	[22.4-24.2]	27.7	[27.4-28.8]	29.6	[22.0-33.4]	[27.5-28.3]	41.8	17.7	[27.7-31.0]
	Poland	500	26.7	[25.9-27.9]	28.9	[20.1-33.3]	26.7	27.3	36.0	9.7	[26.7-30.4]	32.5	[32.2-33.6]	34.8	[25.4-39.7]	[32.0-33.6]	49.6	14.3	[32.5-39.3]
	Portugal	500	17.3	[16.8-18.0]	18.3	[10.9-23.6]	17.3	17.7	22.3	5.4	[17.3-18.6]	20.0	[19.9-20.4]	21.0	[13.2-26.8]	[19.7-20.7]	29.2	7.3	[20.0-22.4]
Romania	500	24.3	[23.6-25.4]	26.2	[16.8-31.8]	24.3	24.8	33.4	11.1	[24.3-27.8]	30.3	[29.9-31.4]	32.4	[22.0-38.6]	[29.9-31.1]	47.0	16.2	[30.3-36.7]	
Slovakia	500	27.1	[26.4-28.4]	29.5	[19.2-34.9]	27.1	27.1	38.8	16.3	[27.1-32.9]	35.5	[34.9-37.2]	38.2	[26.4-44.5]	[35.2-36.1]	56.9	23.9	[35.5-46.2]	
Slovenia	355	35.8	[35.0-37.7]	39.3	[25.0-46.7]	35.8	35.8	53.0	25.3	[35.8-49.5]	48.7	[47.8-51.5]	52.6	[36.2-61.2]	[48.4-49.3]	80.1	37.5	[48.7-73.8]	
Spain	500	18.4	[17.9-19.1]	19.4	[11.7-25.0]	18.4	18.4	24.1	6.8	[18.4-20.1]	21.6	[21.4-22.2]	22.7	[14.5-28.7]	[21.3-22.3]	32.1	9.3	[21.6-27.4]	
Sweden	500	21.9	[21.3-22.7]	23.4	[17.3-26.5]	21.9	22.2	28.3	10.9	[21.9-23.9]	25.9	[25.7-26.7]	27.6	[21.0-30.9]	[25.6-26.6]	37.8	14.2	[25.9-29.7]	
Switzerland	500	34.3	[33.5-35.8]	36.5	[22.0-46.6]	34.3	34.8	47.7	20.5	[34.3-38.7]	43.6	[43.0-45.5]	46.0	[29.7-57.6]	[43.3-44.4]	68.2	29.0	[43.6-51.6]	
United Kingdom	500	18.9	[18.3-19.7]	20.2	[12.8-24.9]	18.9	19.3	25.0	6.8	[18.9-20.7]	22.5	[22.3-23.1]	23.8	[15.9-29.0]	[22.1-23.2]	33.7	9.6	[22.5-25.8]	
emission rates from the rail section (part of the IM routing) [gCO ₂ e/ton-km]	Austria	454	17.8	[17.3-18.3]	18.4	[9.4-26.1]	17.8	21.5	2.4	17.8	18.9	[18.8-19.0]	19.6	[10.2-27.7]	[18.5-19.8]	25.9	2.5	18.9	
	Belgium	500	16.7	[16.2-17.2]	17.3	[9.4-24.0]	16.7	20.2	2.3	16.7	17.8	[17.7-							

c _i	S	heavy goods shipments								voluminous goods shipments								
		I	II	III	IV	V	VI	VII	VIII	I	II	III	IV	V	VI	VII	VIII	
emission rates from the road-only routing (RO) [gCO ₂ e/(ton-km)]	Austria	500	67.7	[66.3-71.8]	75.7	[48.9-86.4]	67.7	107.8	67.7	67.7	101.1	[98.6-108.7]	110.0	[76.2-126.0]	101.1	174.7	101.1	101.1
	Belgium	500	53.7	[52.5-57.3]	61.7	[47.4-59.9]	53.7	88.2	53.7	53.7	82.5	[80.3-89.1]	91.4	[74.2-90.8]	82.5	145.8	82.5	82.5
	Bulgaria	500	54.5	[53.3-58.1]	62.5	[48.3-60.8]	54.5	89.4	54.5	54.5	83.6	[81.3-90.2]	92.5	[75.3-91.9]	83.6	147.6	83.6	83.6
	Croatia	500	60.5	[59.2-64.4]	68.5	[47.9-73.2]	60.5	87.8	60.5	60.5	91.6	[89.2-98.6]	100.5	[74.8-108.4]	91.6	160.0	91.6	91.6
	Czech Republic	500	61.3	[59.9-65.1]	69.2	[48.4-74.1]	61.3	98.9	61.3	61.3	92.6	[90.2-99.7]	101.5	[75.5-109.7]	92.6	161.5	92.6	92.6
	Denmark	500	52.9	[51.7-56.4]	60.8	[47.7-58.1]	52.9	87.1	52.9	52.9	81.4	[79.2-87.9]	90.3	[74.4-88.3]	81.4	144.1	81.4	81.4
	Estonia	500	53.8	[52.6-57.4]	61.8	[48.0-59.6]	53.8	88.4	53.8	53.8	82.6	[80.4-89.2]	91.6	[74.9-90.4]	82.6	146.1	82.6	82.6
	Finland	500	53.8	[52.5-57.7]	61.8	[48.3-59.3]	53.8	88.4	53.8	53.8	82.6	[80.3-89.4]	91.6	[75.3-108.7]	82.6	146.0	82.6	82.6
	France	500	57.4	[56.1-61.0]	65.4	[47.5-67.3]	57.4	93.5	57.4	57.4	87.5	[85.1-94.2]	96.4	[74.2-100.7]	87.5	153.6	87.5	87.5
	Germany	500	57.8	[56.6-61.6]	65.7	[47.8-67.7]	57.8	93.9	57.8	57.8	87.9	[85.7-94.9]	96.8	[74.6-101.1]	87.9	154.1	87.9	87.9
	Greece	500	56.2	[54.8-59.9]	64.2	[48.4-64.0]	56.2	91.8	56.2	56.2	85.9	[83.4-92.6]	94.8	[75.5-96.3]	85.9	151.1	85.9	85.9
	Hungary	500	64.5	[63.2-68.6]	72.5	[47.8-81.2]	64.5	103.3	64.5	64.5	96.9	[94.5-104.3]	105.8	[74.6-119.1]	96.9	168.0	96.9	96.9
	Italy	500	57.7	[56.2-62.1]	65.7	[48.5-66.9]	57.7	93.6	57.7	57.7	87.6	[85.1-95.1]	96.6	[75.4-99.9]	87.6	153.5	87.6	87.6
	Latvia	500	54.9	[53.6-58.4]	62.8	[48.0-61.7]	54.9	89.9	54.9	54.9	84.1	[81.8-90.6]	93.0	[75.0-93.2]	84.1	148.4	84.1	84.1
	Lithuania	500	55.9	[54.6-59.5]	63.9	[48.0-63.7]	55.9	91.3	55.9	55.9	85.4	[83.1-92.1]	94.4	[75.0-95.9]	85.4	150.4	85.4	85.4
	Luxembourg	500	56.0	[54.7-59.6]	64.0	[47.8-64.1]	56.0	91.5	56.0	56.0	85.6	[83.2-92.2]	94.5	[74.8-96.4]	85.6	150.7	85.6	85.6
	Netherlands	500	53.2	[51.9-56.6]	61.1	[47.3-59.0]	53.2	87.6	53.2	53.2	81.8	[79.5-88.1]	90.8	[74.1-89.6]	81.8	144.9	81.8	81.8
	Norway	500	52.5	[51.1-56.2]	60.5	[48.2-56.8]	52.5	86.5	52.5	52.5	80.9	[78.5-87.4]	89.8	[75.2-86.6]	80.9	143.3	80.9	80.9
	Poland	500	58.5	[57.2-62.2]	66.5	[48.0-69.0]	58.5	95.0	58.5	58.5	88.9	[86.5-95.8]	97.8	[74.9-102.9]	88.9	155.8	88.9	88.9
	Portugal	500	56.0	[54.7-59.6]	64.0	[46.5-65.5]	56.0	91.6	56.0	56.0	85.6	[83.2-92.2]	94.6	[73.0-98.3]	85.6	150.8	85.6	85.6
Romania	500	60.6	[59.4-64.5]	68.6	[48.2-73.0]	60.6	97.9	60.6	60.6	91.7	[89.4-98.9]	100.6	[75.1-108.2]	91.7	160.0	91.7	91.7	
Slovakia	500	63.6	[62.2-67.6]	71.6	[48.2-79.0]	63.6	102.1	63.6	63.6	95.7	[93.2-103.0]	104.6	[75.2-116.1]	95.7	166.2	95.7	95.7	
Slovenia	500	62.3	[61.0-66.2]	70.3	[48.3-76.4]	62.3	100.4	62.3	62.3	94.0	[91.5-101.1]	103.0	[75.3-112.7]	94.0	163.7	94.0	94.0	
Spain	500	59.7	[58.4-63.5]	67.7	[48.5-70.9]	59.7	96.6	59.7	59.7	90.5	[88.1-97.4]	99.4	[75.6-105.4]	90.5	158.3	90.5	90.5	
Sweden	500	52.9	[51.7-56.5]	60.9	[48.0-57.9]	52.9	87.2	52.9	52.9	81.5	[79.2-88.0]	90.4	[74.9-88.0]	81.5	144.2	81.5	81.5	
Switzerland	500	69.8	[68.3-74.0]	77.8	[49.9-89.7]	69.8	110.8	69.8	69.8	104.0	[101.3-111.6]	112.9	[77.5-130.4]	104.0	179.1	104.0	104.0	
United Kingdom	500	53.1	[51.8-56.9]	61.1	[47.8-58.5]	53.1	87.4	53.1	53.1	81.7	[79.3-88.4]	90.6	[74.6-88.8]	81.7	144.6	81.7	81.7	
emission rates from the intermodal routing (IM) [gCO ₂ e/(ton-km)]	Austria	500	17.0	[16.6-17.8]	18.2	[11.0-23.0]	[16.9-17.4]	22.9	7.6	[17.0-18.7]	20.7	[20.5-21.4]	21.9	[14.1-27.3]	[20.4-21.3]	31.4	10.6	[20.7-23.7]
	Belgium	500	11.0	[10.7-11.6]	12.1	[7.7-14.4]	[11.0-11.3]	15.5	6.2	[11.0-13.3]	14.1	[13.9-14.7]	15.2	[10.3-17.8]	[13.9-14.4]	22.2	8.9	[14.1-18.2]
	Bulgaria	500	18.8	[18.3-19.5]	19.9	[10.9-26.8]	[18.6-19.3]	24.2	5.3	[18.8-19.9]	21.6	[21.4-22.0]	22.7	[13.1-30.1]	[21.2-22.4]	31.4	7.1	[21.6-23.5]
	Croatia	500	18.5	[18.1-19.4]	19.9	[10.8-26.3]	[18.4-18.9]	25.3	8.9	[18.5-20.1]	22.9	[22.6-23.7]	24.4	[14.4-31.4]	[22.6-23.5]	35.3	12.6	[22.9-25.7]
	Czech Republic	500	15.7	[15.3-16.4]	16.8	[11.1-20.3]	[15.5-16.1]	20.8	5.6	[15.7-17.2]	18.7	[18.5-19.2]	19.8	[13.6-27.3]	[18.4-19.3]	27.9	7.8	[18.7-21.4]
	Denmark	500	13.7	[13.3-14.3]	14.9	[10.4-17.1]	[13.6-14.0]	18.5	5.5	[13.7-15.2]	16.7	[16.5-17.2]	17.9	[13.0-30.3]	[16.4-17.2]	25.4	7.8	[16.7-21.3]
	Estonia	500	16.9	[16.4-17.6]	18.2	[13.6-20.3]	[16.7-17.4]	21.9	4.4	[16.9-17.9]	19.6	[19.5-20.0]	20.9	[16.0-23.2]	[19.2-20.5]	28.8	6.1	[19.6-21.4]
	Finland	500	16.5	[15.9-17.2]	17.7	[13.3-19.6]	[16.2-16.9]	21.4	4.4	[16.5-17.4]	19.2	[19.0-19.5]	20.5	[15.8-22.6]	[18.8-20.0]	28.2	6.1	[19.2-20.8]
	France	500	18.0	[17.5-18.9]	19.8	[13.2-22.8]	[17.9-18.2]	26.2	12.0	[18.0-20.8]	24.1	[23.7-25.4]	26.1	[18.6-29.6]	[23.9-24.5]	39.2	17.7	[24.1-29.2]
	Germany	500	13.4	[13.0-14.0]	14.5	[9.5-17.2]	[13.2-13.7]	18.1	5.8	[13.4-15.2]	16.3	[16.2-16.9]	17.5	[12.1-20.6]	[16.1-16.8]	25.0	8.2	[16.3-19.6]
	Greece	500	23.1	[22.4-23.9]	24.2	[12.0-34.2]	[22.8-23.6]	29.7	6.6	[23.1-24.0]	26.5	[26.3-27.0]	27.7	[14.6-38.4]	[26.0-27.4]	38.6	8.9	[26.5-32.6]
	Hungary	500	16.0	[15.5-16.7]	17.1	[9.9-22.0]	[15.8-16.3]	21.2	6.2	[16.0-17.4]	19.1	[18.9-19.6]	20.3	[12.6-25.6]	[18.8-19.7]	28.8	8.6	[19.1-21.7]
	Italy	500	16.9	[16.4-17.7]	18.0	[9.6-24.2]	[16.8-17.3]	22.4	7.0	[16.9-18.5]	20.2	[20.0-20.9]	21.4	[12.3-28.1]	[19.9-20.8]	30.3	9.6	[20.2-23.2]
	Latvia	500	17.0	[16.4-17.7]	18.2	[13.5-20.4]	[16.8-17.5]	22.0	4.5	[17.0-18.1]	19.8	[19.6-20.2]	21.1	[16.0-23.5]	[19.4-20.6]	29.0	6.4	[19.8-21.7]
	Lithuania	500	16.8	[16.2-17.5]	18.0	[13.2-20.3]	[16.5-17.3]	21.7	4.3	[16.8-17.9]	19.4	[19.3-19.8]	20.7	[15.5-23.2]	[19.0-20.2]	28.3	5.9	[19.4-21.4]
	Luxembourg	500	10.9	[10.6-11.4]	11.9	[7.5-14.3]	[10.8-11.1]	15.1	5.7	[10.9-13.2]	13.7	[13.5-14.2]	14.7	[9.9-17.5]	[13.5-14.0]	21.3	8.1	[13.7-17.8]
	Netherlands	500	11.2	[10.9-11.8]	12.3	[8.1-14.4]	[11.1-11.5]	15.6	5.8	[11.2-13.3]	14.1	[14.0-14.7]	15.3	[10.6-17.7]	[14.0-14.5]	22.1	8.2	[14.1-18.0]
	Norway	500	14.6	[14.2-15.3]	15.9	[11.2-18.1]	[14.5-14.9]	20.3	8.1	[14.6-15.7]	18.5	[18.3-19.3]	19.9	[14.6-22.5]	[18.3-19.0]	28.9	11.5	[18.5-20.6]
	Poland	500	16.6	[16.1-17.3]	17.9	[12.6-20.6]	[16.4-17.1]	22.0	5.5	[16.6-18.0]	19.7	[19.6-20.2]	21.1	[15.4-24.1]	[19.4-20.5]	29.5	7.7	[19.7-22.2]
	Portugal	487	23.0	[22.3-24.1]	25.1	[16.4-29.6]	[22.8-23.3]	32.6	13.0	[23.0-26.6]	29.8	[29.3-31.2]	32.1	[22.3-37.3]	[29.5-30.5]	47.6	19.2	[29.8-36.4]
Romania	500	17.0	[16.5-17.7]	18.1	[10.4-23.6]	[16.8-17.4]	22.2	5.9	[17.0-18.2]	20.0	[19.8-19.5]	21.2	[12.8-27.1]	[19.7-20.7]	29.7	8.2	[20.0-22.2]	
Slovakia	500	15.9	[15.5-16.6]	17.1	[11.0-20.8]	[15.8-16.3]	21.3	6.5	[15.9-17.3]	19.2	[19.1-19.8]	20.5	[13.8-24.7]	[19.0-19.9]	29.2	9.1	[19.2-21.8]	
Slovenia	500	16.5	[16.0-17.1]	17.5	[9.2-23.8]	[16.6-16.8]	21.7	6.4	[16.5-18.2]	19.5	[19.3-20.0]	20.6	[11.6-27.4]	[19.2-20.1]	29.2	8.8	[19.5-22.8]	
Spain	459	27.5	[26.8-29.0]	30.3	[20.2-34.9]	[27.4-27.9]	40.4	18.4	[27.5-32.9]	37.1	[36.4-39.1]	40.1	[28.6-45.6]	[36.8-37.6]	60.6	27.3	[37.1-46.6]	
Sweden	500	13.5	[13.1-14.1]	14.6	[10.5-16.5]	[13.3-13.7]	18.2	6.3	[13.5-14.7]	16.5	[16.3-17.1]	17.7	[13.3-19.8]	[16.3-17.0]	25.2	8.8	[16.5-18.8]	
Switzerland	500	17.5	[17.0-18.3]	18.9	[11.9-23.0]	[17.4-17.7]	24.8	11.5	[17.5-19.7]	22.7	[22.4-23.8]	24.2	[16.2-28.2]	[22.5-23.1]	36.1	16.3	[22.7-26.7]	
United Kingdom	500	14.3	[13.9-15.0]	15.5	[10.5-18.1]	[14.1-14.6]	19.8	7.1	[14.3-15.9]	17.9	[17.7-18.6]	19.3	[13.7-22.2]	[17.7-18.4]	28.0	10.2	[17.9-21.0]	
emission rates from the rail section (part of the IM routing) [gCO ₂ e/(ton-km)]	Austria	500	12.3	[11.9-12.7]	12.8	[7.2-17.4]	[12.1-12.7]	14.9	2.0	12.3	13.2	[13.1-13.2]	13.7	[7.8-18.5]	[12.9-13.8]	18.0	2.1	13.2
	Belgium	500	6.9	[6.7-7.1]	7.2	[4.2-9.5]	[6.8-7.1]	8.4	1.6	6.9	7.4	[7.3-7.4]	7.7	[4.6-10.1]	[7.2-7.8]	10.1	1.7	7.4
	Bulgaria	500	16.5	[16.0-17.1]	17.1	[8.8-24.2]	[16.3-17.0]	20.0	2.2	16.5	17.6	[17.5-17.6]	18.3	[9.6-25.7]	[17.3-18.5]	24.1	2.3	17.6
	Croatia	500	13.2	[12.8-13.7]	13.8	[6.2-20.3]	[13.1-13.6]	16.1	2.3	13.2	14.1	[14.1-14.2]	14.7	[6.8-21.7]	[13.8-14.8]	19.3	2.5	14.1
	Czech Republic	500	12.6	[12.2-13.0]	13.2	[8.4-16.8]	[12.4-13.0]	15.3	1.7	12.6	13.5	[13.4-13.5]	14.1	[9.1-17.9]	[13.2-14.2]	18.5	1.8	13.5
	Denmark	500	10.5	[10.1-10.9]	11.1	[7.5-13.5]	[10.3-10.9]	12.8	1.6	10.5	11.3	[11.2-11.3]	11.9	[8.2-14.4]	[11.0-11.9]	15.5	1.7	11.3
	Estonia	500	14.8	[14.3-15.4]	15.6	[11.7-17.9]	[14.6-15.3]	18.0	1.5	14.8	16.0	[15.9-16.0]	16.8	[12.8-19.2]	[15.6-16.9]	21.9	1.6	16.0
	Finland	500	14.4	[13.9-14.9]	15.2	[11.4-17.3]	[14.1-14.8]</											

c_i	S	heavy goods shipments												voluminous goods shipments							
		I	II	III	IV	V	VI	VII	VIII	I	II	III	IV	V	VI	VII	VIII				
																		[-]	[-]	[-]	[-]
emission rates from the road-only routing (RO) [gCO ₂ e/ton-km]	Austria	500	75.3	[73.9-79.8]	83.2	[47.0-103.6]	75.3	118.4	75.3	75.3	111.2	[108.6-119.5]	120.1	[73.5-148.8]	111.2	190.2	111.2	111.2			
	Belgium	500	55.8	[54.6-59.5]	63.8	[43.3-68.4]	55.8	91.2	55.8	55.8	85.3	[83.2-92.1]	94.3	[68.6-102.0]	85.3	150.2	85.3	85.3			
	Bulgaria	500	67.9	[66.3-71.9]	75.9	[47.1-88.7]	67.9	108.2	67.9	67.9	101.5	[98.6-108.8]	110.4	[73.8-129.2]	110.5	175.4	101.5	101.5			
	Croatia	500	74.5	[73.0-78.9]	82.5	[44.5-104.5]	74.5	117.3	74.5	74.5	110.2	[107.4-118.3]	119.1	[70.2-150.1]	110.2	188.7	110.2	110.2			
	Czech Republic	500	57.6	[56.5-61.5]	65.6	[45.5-69.8]	57.6	93.7	57.6	57.6	87.7	[85.6-94.7]	96.7	[71.6-103.9]	87.7	153.9	87.7	87.7			
	Denmark	500	52.8	[51.7-56.5]	60.8	[45.4-60.2]	52.8	87.0	52.8	52.8	81.3	[79.3-88.0]	90.2	[71.4-91.1]	81.3	143.9	81.3	81.3			
	Estonia	500	52.5	[51.3-56.0]	60.5	[46.8-58.1]	52.5	86.6	52.5	52.5	80.9	[78.7-87.3]	89.8	[73.4-88.4]	80.9	143.4	80.9	80.9			
	Finland	500	52.7	[51.2-56.5]	60.6	[47.6-57.8]	52.7	86.7	52.7	52.7	81.0	[78.5-87.7]	90.0	[74.2-91.1]	81.0	143.5	81.0	81.0			
	France	500	63.7	[62.3-67.6]	71.7	[43.7-83.6]	63.7	102.3	63.7	63.7	95.8	[93.3-103.0]	104.8	[69.3-122.4]	95.8	166.6	95.8	95.8			
	Germany	500	56.5	[55.2-60.2]	64.4	[43.7-69.2]	56.5	92.1	56.5	56.5	86.2	[84.0-93.0]	95.1	[69.2-103.1]	86.2	151.5	86.2	86.2			
	Greece	500	65.0	[63.6-69.2]	73.0	[47.1-82.9]	65.0	104.0	65.0	65.0	97.5	[95.0-105.0]	106.4	[73.7-121.3]	97.5	169.0	97.5	97.5			
	Hungary	500	76.5	[74.9-80.9]	84.5	[45.0-107.9]	76.5	120.1	76.5	76.5	112.9	[110.0-121.0]	121.8	[71.0-154.7]	112.9	192.9	112.9	112.9			
	Italy	500	71.4	[69.4-76.9]	79.4	[45.5-97.4]	71.4	112.7	71.4	71.4	105.8	[102.6-114.8]	114.7	[71.3-140.3]	105.8	181.4	105.8	105.8			
	Latvia	500	52.7	[51.5-56.2]	60.7	[46.7-58.8]	52.7	86.9	52.7	52.7	81.2	[79.0-87.7]	90.2	[73.2-89.3]	81.2	143.9	81.2	81.2			
	Lithuania	500	53.2	[52.0-56.7]	61.2	[46.6-59.9]	53.2	87.7	53.2	53.2	81.9	[79.6-88.3]	90.9	[73.0-90.8]	81.9	145.0	81.9	81.9			
	Luxembourg	500	56.7	[55.4-60.4]	64.6	[42.3-71.1]	56.7	92.4	56.7	56.7	86.5	[84.2-93.2]	95.4	[67.3-105.6]	86.5	152.0	86.5	86.5			
	Netherlands	500	53.7	[52.5-57.3]	61.7	[43.3-64.0]	53.7	88.2	53.7	53.7	82.5	[80.3-89.0]	91.4	[68.7-96.2]	82.5	145.8	82.5	82.5			
	Norway	500	53.6	[52.1-57.5]	61.6	[47.1-60.2]	53.6	88.1	53.6	53.6	82.3	[79.8-89.1]	91.3	[73.7-91.0]	82.3	145.5	82.3	82.3			
	Poland	500	55.4	[54.1-58.9]	63.4	[45.8-64.9]	55.4	90.7	55.4	55.4	84.8	[82.4-91.3]	93.7	[72.0-97.5]	84.8	149.5	84.8	84.8			
	Portugal	500	59.2	[58.0-63.1]	67.2	[47.1-71.4]	59.2	96.0	59.2	59.2	89.9	[87.6-96.9]	98.8	[73.7-106.1]	89.9	157.3	89.9	89.9			
	Romania	500	72.1	[70.6-76.3]	80.1	[46.9-97.4]	72.1	114.1	72.1	72.1	107.1	[104.2-114.8]	116.0	[73.4-140.8]	107.1	184.0	107.1	107.1			
Slovakia	500	58.7	[57.4-62.4]	66.7	[46.3-71.1]	58.7	95.3	58.7	58.7	89.2	[86.8-96.0]	98.1	[72.7-105.7]	89.2	156.2	89.2	89.2				
Slovenia	500	85.8	[84.0-90.5]	93.8	[44.5-127.1]	85.8	133.3	85.8	85.8	125.3	[122.0-133.9]	134.3	[70.3-180.4]	125.3	212.3	125.3	125.3				
Spain	500	62.1	[60.8-66.1]	70.0	[47.6-76.5]	62.1	99.9	62.1	62.1	93.6	[91.3-100.9]	102.5	[74.3-112.9]	93.6	163.0	93.6	93.6				
Sweden	500	53.0	[51.7-56.6]	60.9	[46.5-59.4]	53.0	87.2	53.0	53.0	81.5	[79.3-88.1]	90.4	[72.9-90.1]	81.5	144.3	81.5	81.5				
Switzerland	500	89.8	[88.3-95.0]	97.8	[49.6-130.8]	89.8	138.6	89.8	89.8	130.5	[127.7-140.0]	139.4	[76.7-185.0]	130.5	220.0	130.5	130.5				
United Kingdom	500	53.7	[52.3-57.6]	61.7	[46.2-61.2]	53.7	88.2	53.7	53.7	82.4	[80.0-89.3]	91.4	[72.4-92.4]	82.4	145.6	82.4	82.4				
emission rates from the intermodal routing (IM) [gCO ₂ e/ton-km]	Austria	493	34.7	[33.9-36.3]	37.3	[19.6-49.8]	34.7	48.5	34.7	34.7	[34.7-39.0]	44.2	[43.6-46.2]	47.0	[26.6-61.8]	[43.8-45.1]	69.5	27.5	[44.2-52.1]		
	Belgium	500	18.5	[18.0-19.5]	20.4	[10.8-26.2]	18.5	24.4	18.5	18.5	[21.5-23.7]	25.2	[24.8-26.7]	27.4	[15.8-34.7]	[25.1-25.6]	41.7	19.8	[25.2-34.9]		
	Bulgaria	500	26.2	[25.2-27.2]	27.8	[15.3-37.2]	26.2	37.4	26.2	26.2	[30.0-31.4]	30.7	[30.4-31.4]	32.4	[18.6-42.8]	[30.2-31.8]	45.5	11.2	[30.7-33.9]		
	Croatia	500	29.2	[28.5-30.7]	31.8	[15.8-42.7]	29.2	41.9	29.2	29.2	[29.2-32.7]	38.3	[37.7-40.2]	41.2	[22.6-54.1]	[38.0-39.0]	61.6	26.4	[38.3-44.7]		
	Czech Republic	500	29.1	[28.3-30.4]	31.2	[17.6-40.5]	29.1	39.3	29.1	29.1	[29.1-32.4]	35.5	[35.2-36.8]	37.8	[22.5-48.6]	[35.1-36.6]	54.4	16.9	[35.5-41.7]		
	Denmark	500	27.0	[26.2-28.1]	29.0	[17.3-36.7]	27.0	36.0	27.0	27.0	[27.0-29.5]	32.5	[32.2-33.5]	34.6	[21.6-43.4]	[32.0-33.5]	49.1	13.9	[32.5-37.2]		
	Estonia	500	24.0	[23.3-25.0]	25.7	[17.3-30.8]	24.0	31.3	24.0	24.0	[24.0-25.5]	28.0	[27.9-28.7]	29.8	[20.5-35.6]	[27.5-29.2]	41.4	9.1	[28.0-30.0]		
	Finland	500	22.9	[22.1-23.8]	24.5	[16.7-29.0]	22.9	29.9	22.9	22.9	[22.9-24.2]	26.8	[26.6-27.4]	28.6	[20.0-33.7]	[26.3-27.9]	39.7	9.1	[26.8-29.2]		
	France	493	22.1	[21.6-23.4]	24.6	[14.4-29.9]	22.1	33.9	22.1	22.1	[22.1-26.8]	31.4	[30.7-33.4]	34.2	[21.7-41.1]	[31.3-31.6]	53.0	27.7	[31.4-39.9]		
	Germany	490	31.7	[30.8-33.1]	34.2	[18.1-45.2]	31.7	43.5	31.7	31.7	[31.7-36.2]	39.4	[39.0-40.9]	42.1	[23.9-55.0]	[39.0-40.5]	61.2	20.5	[39.4-47.7]		
	Greece	500	31.9	[31.0-33.1]	33.6	[16.4-47.4]	31.9	41.5	31.9	31.9	[31.9-33.6]	37.2	[31.9-33.6]	39.0	[20.2-54.2]	[36.6-38.4]	54.8	13.5	[37.2-37.8]		
	Hungary	500	25.7	[25.0-26.9]	27.9	[15.9-35.5]	25.7	35.6	25.7	25.7	[25.7-28.7]	32.3	[31.9-33.6]	34.7	[21.0-43.7]	[32.0-33.2]	50.6	17.7	[32.3-37.1]		
	Italy	494	28.3	[27.5-29.8]	30.6	[14.3-42.4]	28.3	39.9	28.3	28.3	[28.3-32.5]	36.4	[35.8-38.3]	38.9	[20.1-52.8]	[36.1-37.1]	57.7	24.1	[36.4-44.8]		
	Latvia	500	25.1	[24.3-26.2]	26.9	[17.9-32.4]	25.1	32.9	25.1	25.1	[25.1-26.8]	29.5	[29.3-30.2]	31.4	[21.4-37.6]	[29.0-30.6]	43.7	9.9	[29.5-32.5]		
	Lithuania	500	25.4	[24.6-26.5]	27.2	[17.7-33.1]	25.4	31.8	25.4	25.4	[25.4-27.2]	29.7	[29.5-30.4]	31.6	[21.1-38.4]	[29.2-30.9]	43.9	9.7	[29.7-33.0]		
	Luxembourg	500	20.9	[20.4-22.1]	23.4	[11.3-30.7]	20.9	31.9	20.9	20.9	[20.9-28.6]	29.4	[28.8-31.3]	32.1	[17.2-41.7]	[29.3-29.7]	49.5	25.0	[29.4-43.4]		
	Netherlands	500	19.8	[19.3-20.8]	21.7	[11.8-27.8]	19.8	28.4	19.8	19.8	[19.8-24.0]	25.9	[25.5-27.1]	28.0	[16.3-35.5]	[25.6-26.4]	41.6	17.0	[25.9-33.6]		
	Norway	500	25.0	[24.4-26.1]	27.0	[17.5-32.6]	25.0	33.9	25.0	25.0	[25.0-26.7]	31.1	[30.7-32.3]	33.2	[22.4-39.9]	[30.9-31.8]	47.4	20.0	[31.1-34.3]		
	Poland	500	27.8	[27.0-29.0]	29.9	[18.4-37.3]	27.8	37.2	27.8	27.8	[27.8-30.3]	33.5	[33.2-34.5]	35.8	[22.8-44.3]	[33.0-34.6]	50.8	14.0	[33.5-38.0]		
	Portugal	500	15.9	[15.5-16.7]	17.1	[10.0-21.9]	15.9	21.7	15.9	15.9	[15.9-17.5]	19.6	[19.4-20.3]	20.9	[19.4-20.3]	21.6	[19.5-20.1]	30.1	10.5	[19.6-22.5]	
	Romania	500	24.4	[23.7-25.4]	26.2	[15.5-33.3]	24.4	32.9	24.4	24.4	[24.4-26.5]	29.7	[29.4-30.6]	31.9	[19.6-39.8]	[29.5-30.6]	45.3	13.9	[29.7-33.6]		
Slovakia	500	27.8	[27.1-29.1]	30.0	[17.3-38.4]	27.8	38.3	27.8	27.8	[27.8-30.3]	34.8	[34.4-36.1]	37.1	[22.5-47.1]	[34.4-35.7]	54.1	18.9	[34.8-40.3]			
Slovenia	500	27.1	[26.3-28.3]	29.2	[12.8-41.4]	27.1	37.9	27.1	27.1	[27.1-31.4]	34.8	[33.9-35.8]	36.8	[17.8-51.0]	[34.1-35.1]	54.2	21.4	[34.4-42.4]			
Spain	500	16.5	[16.1-17.3]	17.9	[10.7-22.3]	16.5	23.3	16.5	16.5	[16.5-18.6]	21.2	[20.9-22.2]	22.7	[14.4-28.1]	[21.0-21.7]	33.7	14.1	[21.2-25.2]			
Sweden	500	25.0	[24.4-26.0]	26.7	[17.4-32.6]	25.0	32.9	25.0	25.0	[25.0-26.9]	30.1	[29.8-31.1]	32.1	[21.5-38.8]	[29.8-30.9]	44.7	17.1	[30.1-33.7]			
Switzerland	260	52.4	[51.5-55.2]	56.7	[27.6-77.4]	52.4	77.9	52.4	52.4	[52.4-59.2]	72.4	[71.1-77.0]	77.2	[41.5-103.5]	[72.2-72.8]	119.1	63.4	[72.4-84.9]			
United Kingdom	500	18.9	[18.3-19.8]	20.7	[12.8-24.9]	18.9	26.8	18.9	18.9	[18.9-21.4]	24.5	[24.1-25.6]	26.5	[17.3-31.7]	[24.3-25.1]	39.1	15.9	[24.5-29.2]			
emission rates from the rail section (part of the IM routing) [gCO ₂ e/ton-km]	Austria	493	23.7	[23.0-24.4]	24.5	[12.3-35.0]	23.7	2.6	23.7	25.2	[25.1-25.3]	26.0	[13.4-37.1]	[24.7-26.4]	34.4	2.8	25.2				
	Belgium	500	8.3	[8.1-8.6]	8.7	[4.7-11.9]	8.3	8.8	8.3	8.3	8.9	9.2	[5.2-12.6]	[8.7-9.3]	12.1	2.1	8.9				
	Bulgaria	500	22.4	[21.7-23.1]	23.3	[13.0-31.9]	22.4	21.1	22.4	23.9	[23.7-23.9]	24.7	[14.1-33.7]	[23.4-25.1]	32.6	2.2	23.9				
	Croatia	500	18.0	[17.5-18.6]	18.6	[7.6-28.3]	17.7	21.8	18.0	19.2	[19.1-19.2]	19.8	[8.4-30.0]	[18.8-20.1]	26.2	3.0	19.2				
	Czech Republic	500	23.0	[22.3-23.8]	23.9	[13.9-32.1]	22.7	23.0	23.0	24.6	[24.4-24.6]	25.5	[15.1-34.1]	[24.1-25.8]	33.6	2.2	24.6				
	Denmark	500	22.5	[21.8-23.3]	23.5	[14.3-30.8]	22.2	23.2	22.5	24.1	[24.0-24.1]	25.1	[15.5-32.7]	[23.6-25.3]	3						

c_i	S	heavy goods shipments								voluminous goods shipments							
		I	II	III	IV	V	VI	VII	VIII	I	II	III	IV	V	VI	VII	VIII
emission rates from the road-only routing (RO) [gCO ₂ e/(ton-km)]																	
Austria	500	53.5	[52.2-57.5]	61.4	[50.5-56.5]	53.5	87.8	53.5	53.5	82.1	[79.8-89.1]	91.0	[78.1-86.1]	82.1	145.0	82.1	82.1
Belgium	500	53.2	[51.3-57.8]	61.1	[50.0-56.3]	53.2	87.2	53.2	53.2	81.5	[78.6-89.0]	90.4	[77.3-85.6]	81.5	143.8	81.5	81.5
Bulgaria	500	58.1	[56.7-62.0]	66.1	[49.2-67.0]	58.1	94.3	58.1	58.1	88.3	[85.9-95.3]	97.2	[76.4-100.2]	88.3	154.8	88.3	88.3
Croatia	500	58.1	[56.7-62.0]	66.0	[49.1-67.1]	58.1	94.3	58.1	58.1	88.2	[85.9-95.4]	97.2	[76.3-100.2]	88.2	154.6	88.2	88.2
Czech Republic	500	53.3	[51.9-57.3]	61.3	[49.9-56.6]	53.3	87.5	53.3	53.3	81.8	[79.4-88.8]	90.8	[77.4-86.3]	81.8	144.6	81.8	81.8
Denmark	500	51.1	[49.6-55.0]	59.1	[48.9-53.3]	51.1	84.5	51.1	51.1	78.9	[76.4-85.6]	87.9	[76.0-81.8]	78.9	140.2	78.9	78.9
Estonia	500	51.1	[49.8-54.9]	59.1	[48.8-53.4]	51.1	84.5	51.1	51.1	79.0	[76.7-85.6]	87.9	[75.9-82.1]	79.0	140.3	79.0	79.0
Finland	500	51.8	[50.3-55.8]	59.7	[49.2-54.3]	51.8	85.4	51.8	51.8	79.8	[77.3-86.7]	88.7	[76.3-83.2]	79.8	141.4	79.8	79.8
France	500	54.8	[53.3-58.8]	62.8	[49.7-59.9]	54.8	89.6	54.8	54.8	83.8	[81.4-90.9]	92.7	[77.0-90.6]	83.8	147.7	83.8	83.8
Germany	500	52.6	[51.2-56.8]	60.6	[49.5-55.7]	52.6	86.5	52.6	52.6	80.9	[78.5-88.0]	89.8	[76.7-85.0]	80.9	143.1	80.9	80.9
Greece	500	62.0	[60.6-66.0]	70.0	[49.1-74.9]	62.0	99.9	62.0	62.0	93.6	[91.0-100.7]	102.5	[76.4-110.7]	93.6	163.0	93.6	93.6
Hungary	500	53.6	[52.2-57.5]	61.6	[49.0-58.1]	53.6	88.0	53.6	53.6	82.3	[79.9-89.1]	91.2	[76.2-88.3]	82.3	145.3	82.3	82.3
Italy	500	61.0	[59.4-65.5]	69.0	[49.7-72.3]	61.0	98.3	61.0	61.0	92.1	[89.4-99.7]	101.0	[77.0-107.1]	92.1	160.4	92.1	92.1
Latvia	500	50.2	[49.0-54.0]	58.2	[48.8-51.7]	50.2	83.3	50.2	50.2	77.8	[75.7-84.5]	86.7	[75.9-79.7]	77.8	138.4	77.8	77.8
Lithuania	500	50.0	[48.6-53.6]	58.0	[49.0-51.0]	50.0	83.1	50.0	50.0	77.6	[75.1-83.9]	86.5	[76.2-78.9]	77.6	138.2	77.6	77.6
Luxembourg	500	53.1	[51.4-57.4]	61.1	[50.4-55.8]	53.1	87.1	53.1	53.1	81.5	[78.7-88.7]	90.4	[77.8-85.1]	81.5	143.9	81.5	81.5
Netherlands	500	52.7	[51.0-57.2]	60.7	[49.0-56.5]	52.7	86.7	52.7	52.7	81.0	[78.3-88.3]	89.9	[76.0-86.0]	81.0	143.2	81.0	81.0
Norway	500	52.0	[50.5-56.2]	60.0	[49.2-54.8]	52.0	85.7	52.0	52.0	80.1	[77.6-87.1]	89.0	[76.3-81.1]	80.1	141.8	80.1	80.1
Poland	500	51.3	[50.0-55.2]	59.2	[49.0-53.5]	51.3	84.7	51.3	51.3	79.1	[77.0-86.1]	88.0	[76.1-82.1]	79.1	140.3	79.1	79.1
Portugal	500	54.0	[52.7-57.8]	62.0	[49.3-58.8]	54.0	88.7	54.0	54.0	82.9	[80.5-89.6]	91.8	[76.6-89.2]	82.9	146.5	82.9	82.9
Romania	500	55.6	[54.3-59.5]	63.6	[49.2-62.0]	55.6	90.9	55.6	55.6	85.0	[82.6-91.9]	93.9	[76.5-93.5]	85.0	149.6	85.0	85.0
Slovakia	500	52.7	[51.4-56.6]	60.7	[49.6-55.9]	52.7	86.8	52.7	52.7	81.2	[78.8-87.9]	90.1	[77.0-85.3]	81.2	143.7	81.2	81.2
Slovenia	500	56.8	[55.4-60.8]	64.7	[49.6-64.0]	56.8	92.4	56.8	56.8	86.5	[84.2-93.6]	95.4	[76.9-96.1]	86.5	151.9	86.5	86.5
Spain	500	55.2	[53.9-59.1]	63.1	[50.0-60.3]	55.2	90.2	55.2	55.2	84.4	[82.1-91.3]	93.3	[77.5-91.2]	84.4	148.6	84.4	84.4
Sweden	500	51.4	[50.0-55.4]	59.3	[48.9-53.8]	51.4	84.8	51.4	51.4	79.2	[77.0-86.2]	88.2	[76.0-82.5]	79.2	140.6	79.2	79.2
Switzerland	500	55.0	[53.5-58.9]	63.0	[51.9-58.1]	55.0	90.0	55.0	55.0	84.1	[81.6-91.0]	93.1	[80.0-88.3]	84.1	148.3	84.1	84.1
United Kingdom	500	55.1	[53.8-58.7]	63.1	[48.9-61.4]	55.1	90.4	55.1	55.1	84.5	[82.1-90.9]	93.4	[76.1-92.9]	84.5	149.1	84.5	84.5
emission rates from the intermodal routing (IM) [gCO ₂ e/(ton-km)]																	
Austria	500	23.0	[22.4-24.0]	24.6	[17.0-29.0]	23.0	9.6	23.0	23.0	25.1	[27.8-29.0]	29.8	[21.3-34.8]	23.0	42.7	13.7	[28.1-31.9]
Belgium	500	21.8	[21.1-22.9]	23.9	[18.4-25.2]	21.8	11.9	21.8	21.8	26.4	[27.8-29.5]	30.5	[24.3-32.2]	23.9	45.0	17.6	[28.2-36.2]
Bulgaria	500	22.8	[22.2-23.7]	24.2	[15.5-30.1]	22.8	11.9	22.8	22.8	26.4	[26.2-26.9]	27.8	[18.6-34.2]	22.8	38.4	10.4	[26.4-28.6]
Croatia	500	20.5	[19.9-21.4]	22.0	[13.6-27.4]	20.5	9.8	20.5	20.5	22.1	[23.5-25.1]	25.4	[25.1-26.3]	21.1	39.2	13.9	[25.4-28.3]
Czech Republic	500	23.2	[22.5-24.2]	24.9	[17.8-28.6]	23.2	8.9	23.2	23.2	25.3	[27.5-28.5]	29.5	[21.8-33.0]	23.2	41.6	11.3	[27.7-31.6]
Denmark	500	20.6	[19.9-21.6]	22.4	[17.1-24.1]	20.6	7.3	20.6	20.6	22.7	[25.2-25.7]	25.7	[25.1-26.3]	21.4	39.2	12.2	[25.4-29.4]
Estonia	500	21.7	[20.9-22.6]	23.3	[18.3-25.0]	21.7	23.3	21.7	21.7	22.9	[25.2-25.9]	25.4	[25.2-25.9]	21.1	37.5	8.2	[25.4-27.5]
Finland	500	20.8	[20.1-21.7]	22.4	[17.6-24.0]	20.8	5.7	20.8	20.8	21.9	[24.5-25.0]	26.1	[21.0-27.9]	20.8	36.2	8.2	[24.5-26.5]
France	500	20.2	[19.6-21.2]	22.2	[16.9-23.4]	20.2	12.7	20.2	20.2	20.3	[26.8-26.8]	29.0	[23.0-30.6]	20.2	43.4	18.7	[26.8-32.0]
Germany	500	21.7	[21.0-22.7]	23.5	[17.1-26.2]	21.7	9.1	21.7	21.7	24.4	[26.8-26.8]	28.7	[21.8-31.8]	21.7	41.3	13.3	[26.8-31.7]
Greece	500	27.2	[26.5-28.3]	28.7	[16.2-38.3]	27.2	35.1	27.2	27.2	28.3	[31.2-32.0]	32.9	[19.6-43.2]	27.2	45.9	10.2	[31.4-33.4]
Hungary	500	21.0	[20.4-21.9]	22.6	[16.0-26.0]	21.0	7.4	21.0	21.0	22.7	[25.4-25.4]	27.1	[19.9-30.8]	21.0	38.5	11.0	[25.4-28.5]
Italy	500	18.8	[18.2-19.7]	20.1	[12.3-25.3]	18.8	23.2	18.8	18.8	20.5	[22.4-23.5]	24.1	[15.6-29.8]	18.8	34.3	11.2	[22.7-25.8]
Latvia	500	22.2	[21.5-23.2]	23.9	[18.7-25.7]	22.2	29.1	22.2	22.2	23.6	[26.2-26.8]	28.0	[22.4-30.0]	22.2	38.8	8.7	[26.2-28.7]
Lithuania	500	22.4	[21.6-23.3]	24.1	[18.7-26.1]	22.4	21.9	22.4	22.4	23.9	[26.2-26.7]	27.9	[22.1-30.2]	22.4	38.6	8.4	[26.2-28.9]
Luxembourg	500	19.8	[19.2-20.7]	21.6	[16.2-23.4]	19.8	9.7	19.8	19.8	23.6	[27.4-26.1]	27.0	[21.0-29.1]	19.8	39.3	14.2	[25.1-32.1]
Netherlands	500	21.1	[20.5-22.2]	23.2	[17.9-24.3]	21.1	27.6	21.1	21.1	25.1	[27.2-26.8]	29.4	[23.5-30.9]	21.1	43.2	16.1	[27.2-34.4]
Norway	500	18.8	[18.2-19.7]	20.5	[15.3-22.2]	18.8	11.9	18.8	18.8	20.2	[23.8-25.2]	24.2	[23.8-25.2]	18.8	38.3	14.9	[24.2-26.9]
Poland	500	23.2	[22.5-24.3]	25.0	[19.2-27.2]	23.2	10.8	23.2	23.2	25.0	[27.8-27.8]	29.8	[23.2-28.8]	23.2	41.8	10.9	[27.8-31.2]
Portugal	500	15.2	[14.8-15.9]	16.4	[11.7-18.7]	15.2	11.5	15.2	15.2	17.8	[18.8-18.8]	18.8	[18.8-19.4]	15.2	28.9	10.0	[18.8-21.1]
Romania	500	21.3	[20.6-22.1]	22.7	[15.1-26.8]	21.3	7.2	21.3	21.3	22.7	[25.3-25.3]	26.9	[19.2-31.3]	21.3	37.8	10.2	[25.3-27.8]
Slovakia	500	22.6	[21.9-23.6]	24.2	[16.9-28.3]	22.6	30.2	22.6	22.6	24.4	[27.0-28.1]	29.1	[21.0-33.6]	22.6	41.3	12.2	[27.3-30.6]
Slovenia	500	18.8	[18.3-19.6]	20.1	[12.7-24.9]	18.8	7.3	18.8	18.8	20.6	[22.5-22.5]	23.9	[15.9-29.6]	18.8	33.8	10.2	[22.5-25.8]
Spain	500	15.7	[15.3-16.5]	17.0	[12.5-19.0]	15.7	8.0	15.7	15.7	17.4	[19.7-19.5]	21.1	[16.1-23.4]	15.7	30.7	11.5	[19.7-22.9]
Sweden	500	17.8	[17.2-18.6]	19.4	[14.8-20.7]	17.8	11.1	17.8	17.8	19.4	[22.2-21.9]	23.9	[19.9-25.4]	17.8	34.4	11.5	[22.2-25.2]
Switzerland	500	22.2	[21.6-23.2]	24.0	[17.1-27.2]	22.2	14.0	22.2	22.2	24.7	[28.8-28.4]	30.8	[22.9-34.8]	22.2	45.8	20.1	[28.8-33.6]
United Kingdom	418	35.7	[34.8-37.7]	39.8	[29.9-41.5]	35.7	35.8	35.7	35.7	43.1	[49.7-48.6]	54.2	[42.7-56.7]	35.7	83.0	39.0	[49.7-63.2]
emission rates from the rail section (part of the IM routing) [gCO ₂ e/(ton-km)]																	
Austria	500	17.0	[16.5-17.6]	17.8	[11.8-22.2]	17.0	1.8	17.0	18.3	[18.1-18.3]	19.0	[12.8-23.7]	[17.8-19.2]	25.0	1.9	18.3	
Belgium	500	13.6	[13.2-14.1]	14.4	[11.0-16.2]	13.6	1.5	13.6	14.7	[14.6-14.7]	15.4	[11.9-17.4]	[14.3-15.5]	20.1	1.6	14.7	
Bulgaria	500	19.9	[19.3-20.6]	20.8	[12.8-27.1]	19.9	21.3	19.9	21.3	[21.2-21.4]	22.2	[13.9-28.8]	[20.9-22.4]	29.2	2.0	21.3	
Croatia	500	14.5															