

**Emissions Factors | Performance Score v3.3
(October 2023)**

Source	Country	Region	2015 and before	2016	2017	2018	2019	2020	2021	2022	2023 and after
CF	Afghanistan		39.6	39.6	39.6	39.6	39.6	39.6	30.6	30.6	30.6
CF	Algeria		111.6	111.6	111.6	111.6	111.6	111.6	120.5	120.5	120.5
CF	Angola		36.3	36.3	36.3	36.3	36.3	36.3	46.1	46.1	46.1
CT	Argentina		113.1	113.1	113.1	91.7	78.8	89.9	84.4	84.4	84.4
CF	Armenia		4.0	4.0	4.0	4.0	4.0	4.0	50.0	50.0	50.0
CF	Aruba		158.3	158.3	158.3	158.3	158.3	158.3	179.9	179.9	179.9
CT	Australia		223.5	223.5	223.5	210.0	198.6	195.4	183.2	183.2	183.2
EEA	Austria		27.5	27.5	30.2	29.0	26.9	23.1	33.4	33.4	33.4
CF	Azerbaijan		143.1	143.1	143.1	143.1	143.1	143.1	129.7	129.7	129.7
CF	Bahrain		105.8	105.8	105.8	105.8	105.8	105.8	105.8	105.8	105.8
CF	Bangladesh		137.4	137.4	137.4	137.4	137.4	137.4	137.4	141.2	141.2
EEA	Belgium		47.4	47.4	49.8	58.3	49.8	48.9	45.1	45.1	45.1
CF	Benin		178.7	178.7	178.7	178.7	178.7	178.7	202.9	202.9	202.9
CF	Bhutan		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CF	Bolivia		63.6	63.6	63.6	63.6	63.6	63.6	63.6	67.9	67.9
CT	Brazil		24.0	24.0	24.0	21.7	22.0	18.1	37.9	37.9	37.9
CF	Brunei		176.4	176.4	176.4	176.4	176.4	176.4	156.6	156.6	156.6
EEA	Bulgaria		136.8	136.8	146.2	124.8	124.8	106.0	135.6	135.6	135.6
CF	Cambodia		115.8	115.8	115.8	115.8	115.8	115.8	103.4	103.4	103.4
CF	Cameroon		63.5	63.5	63.5	63.5	63.5	63.5	74.2	74.2	74.2
EPA	Canada	AB	251.9	251.9	251.9	251.9	251.9	202.1	199.2	199.2	199.2
EPA	Canada	BC	3.5	3.5	3.5	3.5	3.5	3.9	5.6	5.6	5.6
EPA	Canada	MB	0.6	0.6	0.6	0.6	0.6	0.4	0.4	0.4	0.4
EPA	Canada	NB	96.7	96.7	96.7	96.7	96.7	84.9	90.8	90.8	90.8
EPA	Canada	NL	11.1	11.1	11.1	11.1	11.1	7.9	8.2	8.2	8.2
EPA	Canada	NS	219.7	219.7	219.7	219.7	219.7	216.7	213.8	213.8	213.8
EPA	Canada	NT	61.5	61.5	61.5	61.5	61.5	46.9	49.8	49.8	49.8
EPA	Canada	NU	225.5	225.5	225.5	225.5	225.5	260.7	254.8	254.8	254.8
EPA	Canada	ON	11.7	11.7	11.7	11.7	11.7	8.8	8.5	8.5	8.5
EPA	Canada	PE	96.7	96.7	96.7	96.7	96.7	84.9	90.8	90.8	90.8
EPA	Canada	QC	0.5	0.5	0.5	0.5	0.5	0.5	0.4	0.4	0.4
EPA	Canada	SK	208.0	208.0	208.0	208.0	208.0	219.7	213.8	213.8	213.8
EPA	Canada	YT	14.6	14.6	14.6	14.6	14.6	23.1	35.1	35.1	35.1

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Source	Country	Region	2015 and before	2016	2017	2018	2019	2020	2021	2022	2023 and after
CF	Cayman Islands		183.7	183.7	183.7	183.7	183.7	183.7	194.1	194.1	194.1
CF	Chad		180.6	180.6	180.6	180.6	180.6	180.6	190.8	190.8	190.8
CF	Chile		97.3	97.3	97.3	97.3	97.3	97.3	97.3	76.8	76.8
CT	China		185.7	185.7	185.7	162.6	162.8	157.4	163.2	163.2	163.2
CF	Colombia		46.7	46.7	46.7	46.7	46.7	46.7	46.7	39.1	39.1
CF	Congo-Brazzaville		86.4	86.4	86.4	86.4	86.4	86.4	88.0	88.0	88.0
CF	Congo-Kinshasa		0.6	0.6	0.6	0.6	0.6	0.6	0.5	0.5	0.5
CF	Costa Rica		1.8	1.8	1.8	1.8	1.8	1.8	1.8	3.7	3.7
CF	Cote d'Ivoire		101.2	101.2	101.2	101.2	101.2	101.2	109.2	109.2	109.2
EEA	Croatia		59.8	59.8	55.1	38.1	47.7	45.4	40.4	40.4	40.4
EEA	Cyprus		198.9	198.9	193.6	194.5	188.0	182.5	189.2	189.2	189.2
EEA	Czechia		146.7	146.7	138.2	135.9	126.2	113.9	129.5	129.5	129.5
EEA	Denmark		68.5	68.5	51.3	54.8	33.4	32.8	38.1	38.1	38.1
CF	Dominican Republic		168.0	168.0	168.0	168.0	168.0	168.0	142.0	142.0	142.0
CF	Ecuador		26.1	26.1	26.1	26.1	26.1	26.1	26.1	47.9	47.9
CF	Egypt		113.9	113.9	113.9	113.9	113.9	113.9	113.9	115.9	115.9
CF	El Salvador		35.0	35.0	35.0	35.0	35.0	35.0	35.0	40.7	40.7
CF	Equatorial Guinea		167.0	167.0	167.0	167.0	167.0	167.0	129.8	129.8	129.8
EEA	Estonia		269.2	269.2	265.7	256.9	215.0	182.2	277.1	277.1	277.1
CF	Ethiopia		0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
EEA	Finland		30.2	30.2	27.2	31.9	24.9	18.7	22.6	22.6	22.6
EEA	France		19.3	19.3	22.0	18.5	18.5	17.6	19.6	19.6	19.6
CF	Gabon		77.6	77.6	77.6	77.6	77.6	77.6	109.4	109.4	109.4
CF	Georgia		21.7	21.7	21.7	21.7	21.7	21.7	21.7	25.0	25.0
EEA	Germany		130.3	130.3	120.7	118.6	101.6	91.7	117.7	117.7	117.7
CF	Ghana		80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9
EEA	Greece		181.9	181.9	192.1	191.6	177.2	136.5	176.9	176.9	176.9
CF	Guatemala		65.3	65.3	65.3	65.3	65.3	65.3	73.8	73.8	73.8
CF	Guyana		153.6	153.6	153.6	153.6	153.6	153.6	175.4	175.4	175.4
CF	Haiti		164.0	164.0	164.0	164.0	164.0	164.0	186.4	186.4	186.4
CF	Honduras		85.7	85.7	85.7	85.7	85.7	85.7	104.8	104.8	104.8
CF	Hong Kong		175.0	175.0	175.0	175.0	175.0	175.0	175.0	169.2	169.2
EEA	Hungary		77.3	77.3	77.6	73.2	66.5	63.0	57.1	57.1	57.1

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CF	Iceland		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CT	India		222.3	222.3	222.3	207.4	200.3	207.4	208.9	208.9	208.9
CT	Indonesia		215.0	215.0	215.0	222.9	235.5	210.2	229.9	229.9	229.9
CF	Iraq		122.4	122.4	122.4	122.4	122.4	122.4	114.9	114.9	114.9
EEA	Ireland		125.7	125.7	116.6	103.4	92.3	82.3	106.3	106.3	106.3
CF	Israel		161.8	161.8	161.8	161.8	161.8	161.8	128.8	128.8	128.8
EEA	Italy		76.7	76.7	77.0	72.3	68.0	63.0	72.3	72.3	72.3
CT	Japan		153.2	153.2	153.2	148.2	137.7	136.4	135.2	135.2	135.2
CF	Jordan		99.7	99.7	99.7	99.7	99.7	99.7	87.9	87.9	87.9
CF	Kazakhstan		201.6	201.6	201.6	201.6	201.6	201.6	201.6	161.7	161.7
CF	Kenya		20.3	20.3	20.3	20.3	20.3	20.3	20.3	20.3	20.3
CF	Kuwait		111.5	111.5	111.5	111.5	111.5	111.5	105.8	105.8	105.8
EEA	Latvia		37.5	37.5	22.0	42.5	46.6	33.1	45.4	45.4	45.4
CF	Lebanon		134.1	134.1	134.1	134.1	134.1	134.1	155.0	155.0	155.0
CF	Libya		134.8	134.8	134.8	134.8	134.8	134.8	133.8	133.8	133.8
EEA	Lithuania		41.9	41.9	24.6	15.8	21.4	48.0	35.1	35.1	35.1
EEA	Luxembourg		20.2	20.2	18.5	18.5	20.8	17.3	19.9	19.9	19.9
CF	Macao		111.6	111.6	111.6	111.6	111.6	111.6	98.0	98.0	98.0
CF	Malaysia		173.5	173.5	173.5	173.5	173.5	173.5	173.5	132.7	132.7
EEA	Malta		191.3	191.3	127.4	104.3	105.1	110.7	93.1	93.1	93.1
CF	Mauritania		138.8	138.8	138.8	138.8	138.8	138.8	144.7	144.7	144.7
CF	Mauritius		158.8	158.8	158.8	158.8	158.8	158.8	163.9	163.9	163.9
CT	Mexico		136.5	136.5	136.5	131.5	128.6	126.4	87.9	87.9	87.9
CF	Montenegro		115.2	115.2	115.2	115.2	115.2	115.2	139.3	104.3	104.3
CF	Morocco		176.6	176.6	176.6	176.6	176.6	176.6	159.8	159.8	159.8
CF	Mozambique		27.9	27.9	27.9	27.9	27.9	27.9	26.2	26.2	26.2
CF	Myanmar		73.4	73.4	73.4	73.4	73.4	73.4	81.7	81.7	81.7
CF	Namibia		8.7	8.7	8.7	8.7	8.7	8.7	9.4	9.4	9.4
CF	Nepal		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
EEA	Netherlands		143.8	143.8	134.7	128.6	113.9	97.2	122.4	122.4	122.4
CF	New Zealand		29.7	29.7	29.7	29.7	29.7	35.2	35.2	35.2	35.2
CF	Nicaragua		85.3	85.3	85.3	85.3	85.3	85.3	89.3	89.3	89.3
CF	Nigeria		91.5	91.5	91.5	91.5	91.5	91.5	91.5	79.9	79.9

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CF	North Macedonia		129.0	129.0	129.0	129.0	129.0	129.0	129.0	132.6	132.6
CF	Norway		1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.8	1.8
CF	Oman		111.6	111.6	111.6	111.6	111.6	111.6	111.6	104.8	104.8
CF	Pakistan		85.5	85.5	85.5	85.5	85.5	85.5	85.5	81.5	81.5
CF	Palestine		160.2	160.2	160.2	160.2	160.2	160.2	112.9	112.9	112.9
CF	Panama		61.6	61.6	61.6	61.6	61.6	61.6	45.3	45.3	45.3
CF	Papua New Guinea		147.9	147.9	147.9	147.9	147.9	147.9	146.7	146.7	146.7
CF	Paraguay		0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.3
CF	Peru		53.3	53.3	53.3	53.3	53.3	53.3	53.3	57.2	57.2
CF	Philippines		161.8	161.8	161.8	161.8	161.8	161.8	161.8	153.0	153.0
EEA	Poland		230.8	230.8	228.7	229.9	218.2	208.2	219.7	219.7	219.7
EEA	Portugal		85.5	85.5	105.1	89.6	73.5	58.6	64.4	64.4	64.4
CF	Puerto Rico		162.0	162.0	162.0	162.0	162.0	162.0	194.1	194.1	194.1
CF	Qatar		111.5	111.5	111.5	111.5	111.5	111.5	111.5	104.8	104.8
EEA	Romania		92.0	92.0	97.2	93.4	86.1	74.4	94.6	94.6	94.6
CT	Russia		98.1	98.1	98.1	95.2	92.0	90.9	94.3	94.3	94.3
CT	Saudi Arabia		210.0	210.0	210.0	214.4	205.9	148.2	179.9	179.9	179.9
CF	Senegal		136.3	136.3	136.3	136.3	136.3	136.3	139.0	139.0	139.0
CF	Serbia		188.2	188.2	188.2	188.2	188.2	188.2	188.2	227.7	227.7
CF	Sierra Leone		20.9	20.9	20.9	20.9	20.9	20.9	20.2	20.2	20.2
CF	Singapore		117.5	117.5	117.5	117.5	117.5	117.5	115.8	115.8	115.8
EEA	Slovakia		34.3	34.3	32.8	39.2	35.1	30.5	33.1	33.1	33.1
EEA	Slovenia		75.0	75.0	74.7	70.6	69.7	64.4	65.0	65.0	65.0
CT	South Africa		281.8	281.8	281.8	271.8	257.5	263.8	253.8	253.8	253.8
CT	South Korea		144.1	144.1	144.1	146.4	139.4	121.7	120.5	120.5	120.5
EEA	Spain		77.9	77.9	89.6	80.8	63.0	51.8	68.0	68.0	68.0
CF	Sri Lanka		133.1	133.1	133.1	133.1	133.1	133.1	132.4	132.4	132.4
CF	Sudan		60.7	60.7	60.7	60.7	60.7	60.7	66.1	66.1	66.1
CF	Suriname		74.7	74.7	74.7	74.7	74.7	74.7	110.0	110.0	110.0
EEA	Sweden		2.9	2.9	2.9	3.2	2.9	2.3	2.6	2.6	2.6
CF	Switzerland		3.1	3.1	3.1	3.1	3.1	3.1	3.1	0.7	0.7
CF	Taiwan		151.3	151.3	151.3	151.3	151.3	151.3	151.3	136.1	136.1
CF	Tanzania		91.6	91.6	91.6	91.6	91.6	91.6	96.4	96.4	96.4

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CF	Thailand		129.5	129.5	129.5	129.5	129.5	129.5	129.5	119.2	119.2
CF	Trinidad and Tobago		124.9	124.9	124.9	124.9	124.9	124.9	101.7	101.7	101.7
CF	Tunisia		108.2	108.2	108.2	108.2	108.2	108.2	108.2	95.4	95.4
CT	Turkey		131.8	131.8	131.8	140.9	129.2	109.8	124.8	124.8	124.8
CF	Turkmenistan		130.6	130.6	130.6	130.6	130.6	130.6	115.2	115.2	115.2
CF	Uganda		11.6	11.6	11.6	11.6	11.6	11.6	5.9	5.9	5.9
CF	Ukraine		64.5	64.5	64.5	64.5	64.5	64.5	64.5	53.6	53.6
CF	United Arab Emirates		118.4	118.4	118.4	118.4	118.4	118.4	118.4	118.4	118.4
CT	United Kingdom		77.3	77.3	77.3	65.0	57.4	51.6	59.5	59.5	59.5
CF	Uruguay		17.2	17.2	17.2	17.2	17.2	17.2	17.2	19.3	19.3
EPA	USA	AKGD	123.5	143.1	143.1	138.8	148.9	146.7	142.6	142.6	142.6
EPA	USA	AKMS	90.8	67.1	67.1	70.0	73.2	71.2	64.7	64.7	64.7
EPA	USA	AZNM	116.9	139.4	139.4	136.5	127.1	112.9	109.4	109.4	109.4
EPA	USA	CAMX	75.8	70.4	70.4	66.3	60.5	68.5	70.9	70.9	70.9
EPA	USA	ERCT	152.5	134.7	134.7	124.4	115.9	109.2	108.6	108.6	108.6
EPA	USA	FRCC	143.6	135.0	135.0	124.4	114.9	111.4	111.1	111.1	111.1
EPA	USA	HIMS	125.9	153.9	153.9	148.7	158.8	152.9	152.0	152.0	152.0
EPA	USA	HIOA	198.0	222.6	222.6	223.5	226.9	221.3	218.6	218.6	218.6
EPA	USA	MROE	222.7	223.1	223.1	224.5	201.0	204.0	211.5	211.5	211.5
EPA	USA	MROW	182.8	165.7	165.7	166.0	147.0	131.1	133.3	133.3	133.3
EPA	USA	NEWE	76.6	74.9	74.9	70.1	65.6	70.8	72.3	72.3	72.3
EPA	USA	NWPP	121.4	87.1	87.1	85.5	95.6	80.2	84.8	84.8	84.8
EPA	USA	NYCW	88.6	84.6	84.6	79.4	73.7	84.5	108.7	108.7	108.7
EPA	USA	NYLI	160.0	157.6	157.6	158.5	161.9	161.1	161.9	161.9	161.9
EPA	USA	NYUP	48.8	39.3	39.3	33.7	31.0	31.2	31.1	31.1	31.1
EPA	USA	PRMS	205.0	205.0	205.0	205.0	205.0	213.7	207.8	207.8	207.8
EPA	USA	RFCE	110.9	101.2	101.2	95.7	92.8	87.1	89.8	89.8	89.8
EPA	USA	RFCM	204.9	169.9	169.9	175.5	159.0	154.1	162.3	162.3	162.3
EPA	USA	RFCW	184.8	166.3	166.3	156.0	142.7	131.6	139.8	139.8	139.8
EPA	USA	RMPA	232.4	182.9	182.9	170.3	166.1	153.0	154.9	154.9	154.9
EPA	USA	SPNO	210.8	188.9	188.9	155.7	143.2	127.7	132.7	132.7	132.7
EPA	USA	SPSO	197.3	166.7	166.7	155.8	133.7	124.3	137.8	137.8	137.8
EPA	USA	SRMV	136.5	111.9	111.9	114.0	107.6	98.6	103.0	103.0	103.0

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EPA	USA	SRMW	237.3	215.6	215.6	222.8	212.0	198.1	206.6	206.6	206.6
EPA	USA	SRSO	152.9	145.5	145.5	137.3	129.4	114.8	119.1	119.1	119.1
EPA	USA	SRTV	178.7	158.4	158.4	137.9	127.0	111.5	124.5	124.5	124.5
EPA	USA	SRVC	114.6	107.6	107.6	99.3	90.2	83.2	85.4	85.4	85.4
CF	Uzbekistan		121.7	121.7	121.7	121.7	121.7	121.7	122.4	122.4	122.4
CF	Venezuela		41.0	41.0	41.0	41.0	41.0	41.0	52.8	52.8	52.8
CF	Vietnam		135.8	135.8	135.8	135.8	135.8	135.8	135.8	90.2	90.2
CF	Zambia		27.6	27.6	27.6	27.6	27.6	27.6	18.2	18.2	18.2

EPA: U.S. Environmental Protection Agency, EEA: European Environmental Agency, CT: Climate Transparency, CF: Carbon Footprint
 *CT units are in gCO₂/kBTU. Other source units are in gCO₂e/kBTU