

GHG Inventory Form 温室气体盘查表

Factory Name 组织名称:	NEW AREA TOYS (ZHUHAI) LIMITED
Fill-in by 制表人:	Winnie Deng
Reporting Year 盘查年份:	1st January 2023-31st December 2023
Organization Boundary 组织边界:	Operation Control 运营控制权
Baseline Year 基准年:	1st January 2022-31st December 2022

Instruction for Table 1 and Table 2: 表一与表二使用说明:

 White area is the pull-down menu. Please choose the appropriate value
白色区域为下拉菜单, 请从中选择适当值

 Gray area is the formula or default value. Please do not modify.
灰色区域为公式自动计算或预设, 尽可能不要改动

 Pink area is the fill-in area. Please input the actual data or link to Appendix 2
粉色区域为手工填写, 尽据实填入数值或链接到附表2

 Shaded area is for not applicable data. Do not need to fill in.
阴影区域为数据不适用区域, 不需要填入数值

Instruction for Appendices: 附表使用说明:

Do not change the value in Appendix 1 unless necessary. Column "U" and "Y" are automatically linked with the GWP value in Appendix 1

如非必要, 请不要改动附表1的数值; 表1"U"列和"Y"列与附表1链接, 并自动选取GWP值

Do not change the value in Appendix 2 unless necessary. The EF value in Table 1 can be manually chose from Appendix 2.

如非必要, 请不要改动附表2的数值; 表1通过手动方式与表2链接, 以选取EF值

Column "D" (i.e. Facilities) in Appendix 2 should be manually changed, if necessary, to make it consistent with the Column "D" and "E" in Table 1.

附表2"D"列(设施)栏如有需要, 需手动修改, 并与表1"D"列和"E"列一致

Serial No. 编号	Type of GHG Emission 温室气体排放类别	Emission Sources 排放源	Facilities 设施	Scope 运行边界	Activity Data 活动数据				Emission Factor 排放因子												Emission Quantity 排放量										
					Value 数值	Unit 计量单位	Value 数值	CO ₂ Unit 计量单位	GWP	Value 数值	CH ₄ Unit 计量单位	GWP	Value 数值	N ₂ O Unit 计量单位	GWP	Value 数值	Unit 计量单位	HFCs Type 型号	GWP	Value 数值	Unit 计量单位	PFCS Type 型号	GWP	Value 数值	SF ₆ Unit 计量单位	GWP	CO ₂	CH ₄	N ₂ O	HFC	PF ₆
Sample 例子	Direct Emissions from Stationary Combustion 固定燃烧产生的直接排放	Diesel Combustion 柴油燃烧	Electricity Generator 发电机	Direct Emission 直接温室气体排放	1000	kg	3.1605132	kgCO ₂ /kg	1	0.00012796	kgCH ₄ /kg	28	2.5591E-05	kgN ₂ O/kg	265								23500	3.1605132	0.00358277	0.00678167	0	0	0	0	3.17087764
1	Direct Emissions from Stationary Combustion 固定燃烧产生的直接排放	Diesel Combustion 柴油燃烧	Electricity Generator 发电机	Direct Emission 直接温室气体排放	0	kg	3.1605132	kgCO ₂ /kg	1	1.28E-04	kgCH ₄ /kg	28	2.56E-05	kgN ₂ O/kg	265		#N/A		#N/A				23500	0	0	0	0	0	0	0	0
2	Direct Emissions from Stationary Combustion 固定燃烧产生的直接排放	Diesel Combustion 柴油燃烧	Temperature Regulating Device 其它冷却设备	Direct Emission 直接温室气体排放	0	kg	3.1605132	kgCO ₂ /kg	1	1.28E-04	kgCH ₄ /kg	28	2.56E-05	kgN ₂ O/kg	265		#N/A		#N/A				23500	0	0	0	0	0	0	0	0
3	Direct Emissions from Stationary Combustion 固定燃烧产生的直接排放	Liquefied Petroleum Gas (LPG) Combustion 液化石油气燃烧	Maintenance 维修	Direct Emission 直接温室气体排放	0	kg	3.1662949	kgCO ₂ /kg	1	2.51E-04	kgCH ₄ /kg	28	5.02E-06	kgN ₂ O/kg	265		#N/A		#N/A				23500	0	0	0	0	0	0	0	0
4	Direct Emissions from Mobile Combustion 移动燃烧产生的直接排放	Diesel Combustion 柴油燃烧	Forklift 叉车	Direct Emission 直接温室气体排放	2037	kg	3.1605132	kgCO ₂ /kg	1	1.77E-04	kgCH ₄ /kg	28	1.22E-03	kgN ₂ O/kg	265		#N/A		#N/A				23500	6.43796539	0.0100967	0.65847962	0	0	0	0	7.10654071
5	Direct Emissions from Mobile Combustion 移动燃烧产生的直接排放	Diesel Combustion 柴油燃烧	Truck 货车	Direct Emission 直接温室气体排放	9661.151	kg	3.1605132	kgCO ₂ /kg	1	1.66E-04	kgCH ₄ /kg	28	1.66E-04	kgN ₂ O/kg	265		#N/A		#N/A				23500	30.5341953	0.04499776	0.42587167	0	0	0	0	31.0050647
6	Direct Emissions from Mobile Combustion 移动燃烧产生的直接排放	Gasoline Combustion 汽油燃烧	Commercial Vehicle 商务车	Direct Emission 直接温室气体排放	7449.419	kg	2.984751	kgCO ₂ /kg	1	1.08E-03	kgCH ₄ /kg	28	3.45E-04	kgN ₂ O/kg	265		#N/A		#N/A				23500	22.2346608	0.22459253	0.68019453	0	0	0	0	23.1934979
7	Direct Emissions from Mobile Combustion 移动燃烧产生的直接排放	Gasoline Combustion 汽油燃烧	Mower 割草机	Direct Emission 直接温室气体排放	32.625	kg	2.984751	kgCO ₂ /kg	1	1.08E-03	kgCH ₄ /kg	28	3.45E-04	kgN ₂ O/kg	265		#N/A		#N/A				23500	0.0973775	0.00098361	0.00297894	0	0	0	0	0.10134005
8	Direct Emissions from Fugitive Emission 直接逸散排放	Refrigerant Fugitive 冷媒逸散	Refrigerant Air Conditioning 汽车空调	Direct Emission 直接温室气体排放	9.45	kg			1			28			265	15%	kgHFC/kg	HFC-134a		1300		#N/A	23500	0	0	0	1.84275	0	0	0	1.84275
9	Direct Emissions from Fugitive Emission 直接逸散排放	Methane (CH4) Fugitive 甲烷逸散	Septic Tank 化粪池	Direct Emission 直接温室气体排放	4049	kgBOE/年			1	3.00E-01	kgCH ₄ /kgBOE	28			265		#N/A		#N/A				23500	0	34.0116	0	0	0	0	0	34.0116
10	Direct Emissions from Fugitive Emission 直接逸散排放	Refrigerant Fugitive 冷媒逸散	Heating, Ventilation and Air Conditioning 暖通空调	Direct Emission 直接温室气体排放	20	kg			1			28			265	5.50%	kgHFC/kg	R410A		1923.5		#N/A	23500	0	0	0	2.11585	0	0	0	2.11585
11	Direct Emissions from Fugitive Emission 直接逸散排放	WD-40 Fugitive WD-40逸散	Maintenance 维修	Direct Emission 直接温室气体排放	0.0042	m3		0.025	kgCO ₂ /m3	1		28			265		#N/A		#N/A				23500	1.05E-07	0	0	0	0	0	0	1.05E-07
12	Indirect Emissions from Imported Energy 外购能源产生的间接排放	Purchased Electricity 外购电力		Indirect Emission 间接温室气体排放	3050355	kWh		0.8367	kgCO ₂ /kWh	1		28			265		#N/A		#N/A				23500	2552.23203	0	0	0	0	0	0	2552.23203
13	Indirect Emissions from Transportation 运输产生的间接排放	Transportation and Distribution for Goods 运输和货物分配	Container Ship 货柜船	Indirect Emission 间接温室气体排放	19225314	tonne.km		0.01614	kgCO ₂ /tonne.km	1		28			265		#N/A		#N/A				23500	310.296568	0	0	0	0	0	0	310.296568
14									1			28			265		#N/A		#N/A				23500	0	0	0	0	0	0	0	0
15									1			28			265		#N/A		#N/A				23500	0	0	0	0	0	0	0	0
16									1			28			265		#N/A		#N/A				23500	0	0	0	0	0	0	0	0
17									1			28			265		#N/A		#N/A				23500	0	0	0	0	0	0	0	0
18									1			28			265		#N/A		#N/A				23500	0	0	0	0	0	0	0	0
19									1			28			265		#N/A		#N/A				23500	0	0	0	0	0	0	0	0
20									1			28			265		#N/A		#N/A				23500	0	0	0	0	0	0	0	0
21									1			28			265		#N/A		#N/A				23500	0	0	0	0	0	0	0	0
22									1			28			265		#N/A		#N/A				23500	0	0	0	0	0	0	0	0
23									1			28			265		#N/A		#N/A				23500	0	0	0	0	0	0	0	0
24									1			28			265		#N/A		#N/A				23500	0	0	0	0	0	0	0	0
25									1			28			265		#N/A		#N/A				23500	0	0	0	0	0	0	0	0
26									1			28			265		#N/A		#N/A				23500	0	0	0	0	0	0	0	0
27									1			28			265		#N/A		#N/A				23500	0	0	0	0	0	0	0	0
28									1			28			265		#N/A		#N/A				23500	0	0	0	0	0	0	0	0
29									1			28			265		#N/A		#N/A				23500	0	0	0	0	0	0	0	0
30									1			28			265		#N/A		#N/A				23500	0	0	0	0	0	0	0	0
31									1			28			265		#N/A		#N/A				23500	0	0	0	0	0	0	0	0
32									1			28			265		#N/A		#N/A				23500	0	0	0	0	0	0	0	0
33									1			28			265		#N/A		#N/A				23500	0	0	0	0	0	0	0	0
34									1			28			265		#N/A		#N/A				23500	0	0	0	0	0	0	0	0
35									1			28			265		#N/A		#N/A				23500	0	0	0	0	0	0	0	0
36									1			28			265		#N/A		#N/A				23500	0	0	0	0	0	0	0	0
37									1			28			265		#N/A		#N/A				23500	0	0	0	0	0	0	0	0
38									1			28			265		#N/A		#N/A				23500	0	0	0	0	0	0	0	0
39									1			28			265		#N/A		#N/A				23500	0	0	0	0	0	0	0	0
40									1			28			265		#N/A		#N/A				23500	0	0	0	0	0	0	0	0
41									1			28			265		#N/A		#N/A				23500	0	0	0	0	0	0	0	0
42									1			28			265		#N/A		#N/A				23500	0	0	0	0	0	0	0	0
43									1			28			265		#N/A		#N/A				23500	0	0	0	0	0	0	0	0
44									1			28			265		#N/A		#N/A				23500	0	0	0	0	0	0	0	0
45									1			28			265		#N/A		#N/A				23500	0	0	0	0	0	0	0	0
46									1			28			265		#N/A		#N/A				23500	0	0	0	0	0	0	0	0
47									1			28			265		#N/A		#N/A				23500	0	0	0	0	0	0	0	0
48									1			28			265		#N/A		#N/A				23500	0	0	0	0	0	0	0	0
49									1			28			265		#N/A		#N/A				23500	0	0	0	0	0	0	0	0
50									1			28			265		#N/A		#N/A				23500	0	0	0	0	0	0	0	0
51									1			28			265		#N/A		#N/A				23500	0	0	0	0	0	0	0	0
52									1			28			265		#N/A		#N/A				23500	0	0	0	0	0	0	0	0
53									1			28			265		#N/A		#N/A				23500	0	0	0	0	0	0	0	0
54									1			28			265		#N/A		#N/A				23500	0	0	0	0	0	0	0	0
55									1			28			265		#N/A		#N/A				23500	0	0	0	0	0	0	0	0
56									1			28			265		#N/A		#N/A				23500	0	0	0	0	0	0	0	0
57									1			28			265		#N/A		#N/A				23500	0	0	0	0	0	0	0	0
58									1			28			265		#N/A		#N/A				23500	0	0	0	0	0	0	0	0
59									1			28			265		#N/A		#N/A				23500	0	0	0	0	0	0	0	0
60									1			28			265		#N/A		#N/A			</									

Baseline data and reduction target减排数据和减排目标		
Baseline year基准年	Total emissions(tCO2e)总排放	Target intensity reduction rate 目标减排率
2022	3389.5	2%
Report year报告年	Total emissions(tCO2e)总排放	Current reductionrate 目前减排率
2023	2961.85119	13%

Serial No. 编号	Emission Sources 排放源	Activity Data 活动数据	Emission Factor Category 排放因子类别	Activity Data Confidence Level Rating 活动数据级 别	Emission Factor Confidence Level 排放因 子级别	Average Rating 平均 得分	Emission Quantity 排 放量 (tonnes of CO ₂ e)	Ratio to Total Emission 排 放量占比	Weighted Average Rating 加权 平均积分
1	Diesel Combustion 柴油燃烧	Regular measurement/meters recording/specification t	International Emission Factor 国际排放因子	3	1	2	0	0.00%	0.00
2	Diesel Combustion 柴油燃烧	Regular measurement/meters recording/specification t	International Emission Factor 国际排放因子	3	1	2	0	0.00%	0.00
3	Liquefied Petroleum Gas (LPG) C	Regular measurement/meters recording/specification t	International Emission Factor 国际排放因子	3	1	2	0	0.00%	0.00
4	Diesel Combustion 柴油燃烧	Regular measurement/meters recording/specification t	International Emission Factor 国际排放因子	3	1	2	7.10654071	0.24%	0.00
5	Diesel Combustion 柴油燃烧	Regular measurement/meters recording/specification t	International Emission Factor 国际排放因子	3	1	2	31.0050647	1.05%	0.02
6	Gasoline Combustion 汽油燃烧	Regular measurement/meters recording/specification t	International Emission Factor 国际排放因子	3	1	2	23.1394479	0.78%	0.02
7	Gasoline Combustion 汽油燃烧	Regular measurement/meters recording/specification t	International Emission Factor 国际排放因子	3	1	2	0.10134005	0.00%	0.00
8	Refrigerant Fugitive 冷媒逸散	Regular measurement/meters recording/specification t	Measurement/Mass Balance 量测/质量平衡排放因子	3	6	4.5	1.84275	0.06%	0.00
9	Methane (CH4) Fugitive 甲烷逸	Estimation 自行推估	Measurement/Mass Balance 量测/质量平衡排放因子	1	6	3.5	34.0116	1.15%	0.04
10	Refrigerant Fugitive 冷媒逸散	Regular measurement/meters recording/specification t	Measurement/Mass Balance 量测/质量平衡排放因子	3	6	4.5	2.11585	0.07%	0.00
11	WD-40 Fugitive WD-40逸散	Estimation 自行推估	Measurement/Mass Balance 量测/质量平衡排放因子	1	6	3.5	1.05E-07	0.00%	0.00
12	Purchased Electricity 外购电力	Regular measurement/meters recording/specification t	Regional Emission Factor 区域排放因子	3	3	3	2552.23203	86.17%	2.59
13	Transportation and Distribution for	Regular measurement/meters recording/specification t	International Emission Factor 国际排放因子	3	1	2	310.296568	10.48%	0.21
14							0	0.00%	0.00
15							0	0.00%	0.00
16							0	0.00%	0.00
17							0	0.00%	0.00
18							0	0.00%	0.00
19							0	0.00%	0.00
20							0	0.00%	0.00
21							0	0.00%	0.00
22							0	0.00%	0.00
23							0	0.00%	0.00
24							0	0.00%	0.00
25							0	0.00%	0.00
26							0	0.00%	0.00
27							0	0.00%	0.00
28							0	0.00%	0.00
29							0	0.00%	0.00
30							0	0.00%	0.00
31							0	0.00%	0.00
32							0	0.00%	0.00
33							0	0.00%	0.00
34							0	0.00%	0.00
35							0	0.00%	0.00
36							0	0.00%	0.00
37							0	0.00%	0.00
38							0	0.00%	0.00
39							0	0.00%	0.00
40							0	0.00%	0.00
41							0	0.00%	0.00
42							0	0.00%	0.00
43							0	0.00%	0.00
44							0	0.00%	0.00
45							0	0.00%	0.00
46							0	0.00%	0.00
47							0	0.00%	0.00
48							0	0.00%	0.00
49							0	0.00%	0.00
50							0	0.00%	0.00

51								0	0.00%	0.00
52								0	0.00%	0.00
53								0	0.00%	0.00
54								0	0.00%	0.00
55								0	0.00%	0.00
56								0	0.00%	0.00
57								0	0.00%	0.00
58								0	0.00%	0.00
59								0	0.00%	0.00
60								0	0.00%	0.00
61								0	0.00%	0.00
62								0	0.00%	0.00
63								0	0.00%	0.00
64								0	0.00%	0.00
65								0	0.00%	0.00
66								0	0.00%	0.00
67								0	0.00%	0.00
68								0	0.00%	0.00
69								0	0.00%	0.00
70								0	0.00%	0.00
71								0	0.00%	0.00
72								0	0.00%	0.00
73								0	0.00%	0.00
74								0	0.00%	0.00
75								0	0.00%	0.00
76								0	0.00%	0.00
77								0	0.00%	0.00
78								0	0.00%	0.00
79								0	0.00%	0.00
80								0	0.00%	0.00
81								0	0.00%	0.00
82								0	0.00%	0.00
83								0	0.00%	0.00
84								0	0.00%	0.00
85								0	0.00%	0.00
86								0	0.00%	0.00
87								0	0.00%	0.00
88								0	0.00%	0.00
89								0	0.00%	0.00
90								0	0.00%	0.00
91								0	0.00%	0.00
92								0	0.00%	0.00
93								0	0.00%	0.00
94								0	0.00%	0.00
95								0	0.00%	0.00
96								0	0.00%	0.00
97								0	0.00%	0.00
98								0	0.00%	0.00
99								0	0.00%	0.00
100								0	0.00%	0.00
101								0	0.00%	0.00
102								0	0.00%	0.00
103								0	0.00%	0.00
104								0	0.00%	0.00
105								0	0.00%	0.00

106							0	0.00%	0.00
107							0	0.00%	0.00
108							0	0.00%	0.00
109							0	0.00%	0.00
110							0	0.00%	0.00
111							0	0.00%	0.00
112							0	0.00%	0.00
113							0	0.00%	0.00
114							0	0.00%	0.00
115							0	0.00%	0.00
116							0	0.00%	0.00
117							0	0.00%	0.00
118							0	0.00%	0.00
119							0	0.00%	0.00
120							0	0.00%	0.00
121							0	0.00%	0.00
122							0	0.00%	0.00
123							0	0.00%	0.00
								Sum of Weighted Average 加权合计	2.88
								Level 加权等级	Normal 一般

备注：
平均积分=(AD评分+EF评分)/2
排放量占比=排放源排放量/总排放量
加权平均积分=平均积分*排放占比
加权合计=Σ加权平均积分

数据品质分为五级。

Excellent+ 优+	>=5.0
Excellent 优	<5.0, ≥4.0
Good 良	<4.0, ≥3.0
Normal 一般	<3.0, ≥2.0
Poor 差	<2.0

Remarks:
Average Rating = (AD Rating + EF Rating)/2
Ratio to Total Emission = Emission from the Source / Total Emission
Weighted Average Rating = Average Rating x Ratio to Total Emission
Sum of Weighted Average =ΣWeighted Average Rating

Data are classified into 5 levels.

Classification Table:

Direct Emission 直接温室气体排放									
Tonnes to CO ₂ e	CO ₂	CH ₄	N ₂ O	HFC	PFC	SF ₆	Total 总量		
Summary 汇总	59.30419907	34.29226961	1.767524755	3.9586	0	0	99.32259343		

Energy Indirect Emission 能源间接温室气体排放				
Tonnes to CO ₂ e	CO ₂	CH ₄	N ₂ O	Total 总量
Purchased Electricity 外购电力	2552.232029	0	0	2552.232029
Purchased Steam 外购蒸汽	0	0	0	0
Summary 汇总	2552.232029	0	0	2552.232029

Other Indirect Emission 其它间接温室气体排放				
Tonnes to CO ₂ e	CO ₂	CH ₄	N ₂ O	Total 总量
Transportation and Distribution for Goods 运输和货物分配	310.296568	0	0	310.296568

Manufacturing of Finished Products 最终产品的制造和加工				
Internal subcontractor name 内部供應商名稱	Internal subcontractor production percentage(%) 内部供應商生产比例 (百分比)	Direct Emission 直接温室气体排放 (Tonnes to CO ₂ e)	Energy Indirect Emission 能源间接温室气体排放 (Tonnes to CO ₂ e)	Total 总量
				0
				0
				0
				0
				0
Summary 汇总				310.296568

Tonnes to CO ₂ e	Direct Emission 直接温室气体排放	Energy Indirect Emission 能源间接温室气体排放	Other Indirect Emission 其它间接温室气体排放	Total 总量
总排放量	99.32259343	2552.232029	310.296568	2961.85119

Tonnes to CO ₂ e	CO ₂	Total 总量
Biomass Combustion 生物质燃烧	0	0

Industrial Name 工业名称	Chemical Name / Molecular formula 中文名称/化学分子式	Composition 组成比例 (%)	GWP	GWP(HFCs)	GWP(PFCs)	Reference Source 来源	Remark 备注
CO ₂	二氧化碳		1			2013 IPCC Fifth Assessment Report AR5 2013年IPCC第五次评估报告AR5	
CH ₄	甲烷		28			2013 IPCC Fifth Assessment Report AR5 2013年IPCC第五次评估报告AR5	
N ₂ O	氧化亚氮		265			2013 IPCC Fifth Assessment Report AR5 2013年IPCC第五次评估报告AR5	
HFC-23	R-23, 三氟甲烷, CHF3			12400		2013 IPCC Fifth Assessment Report AR5 2013年IPCC第五次评估报告AR5	
HFC-32	R-32, 二氟甲烷, CH2F2			677		2013 IPCC Fifth Assessment Report AR5 2013年IPCC第五次评估报告AR5	
HFC-41	一氟甲烷, CH3F			116		2013 IPCC Fifth Assessment Report AR5 2013年IPCC第五次评估报告AR5	
HFC-125	R-125, 1,1,1,2,2-五氟乙烷, C2HF5			3170		2013 IPCC Fifth Assessment Report AR5 2013年IPCC第五次评估报告AR5	
HFC-134	R-134, 1,1,2,2-四氟乙烷, C2H2F4			1120		2013 IPCC Fifth Assessment Report AR5 2013年IPCC第五次评估报告AR5	
HFC-134a	R-134a, 1,1,1,2-四氟乙烷, C2H2F4			1300		2013 IPCC Fifth Assessment Report AR5 2013年IPCC第五次评估报告AR5	
HFC-143	R-143, 1,1,2-三氟乙烷, CHF2CH2F			328		2013 IPCC Fifth Assessment Report AR5 2013年IPCC第五次评估报告AR5	
HFC-143a	R-143a, 1,1,1-三氟乙烷, C2H3F3			4800		2013 IPCC Fifth Assessment Report AR5 2013年IPCC第五次评估报告AR5	
HFC-152	R-152, 1,2-二氟乙烷, CH2FCH2F			16		2013 IPCC Fifth Assessment Report AR5 2013年IPCC第五次评估报告AR5	
HFC-152a	R-152a, 1,1-二氟乙烷, C2H4F2			138		2013 IPCC Fifth Assessment Report AR5 2013年IPCC第五次评估报告AR5	
HFC-161	R-161, 一氟乙烷, CH3CH2F			4		2013 IPCC Fifth Assessment Report AR5 2013年IPCC第五次评估报告AR5	
HFC-227ea	R-227ea, 1,1,1,2,3,3,3-七氟丙烷, CF3CHFCF3			3350		2013 IPCC Fifth Assessment Report AR5 2013年IPCC第五次评估报告AR5	
HFC-236cb	R-236cb, 1,1,1,2,2,3-六氟丙烷, CH2FCF2CF3			1210		2013 IPCC Fifth Assessment Report AR5 2013年IPCC第五次评估报告AR5	
HFC-236ea	R-236ea, 1,1,1,2,3,3-六氟丙烷, CHF2CHFCF3			1330		2013 IPCC Fifth Assessment Report AR5 2013年IPCC第五次评估报告AR5	
HFC-236fa	R-236fa, 1,1,1,3,3,3-六氟丙烷, C3H2F6			8060		2013 IPCC Fifth Assessment Report AR5 2013年IPCC第五次评估报告AR5	
HFC-245ca	R-245ca, 1,1,2,2,3-五氟丙烷, CH2FCF2CHF2			716		2013 IPCC Fifth Assessment Report AR5 2013年IPCC第五次评估报告AR5	
HFC-245fa	R-245fa, 1,1,1,3,3-五氟丙烷, CHF2CH2CF3			858		2013 IPCC Fifth Assessment Report AR5 2013年IPCC第五次评估报告AR5	
HFC-365mfc	R-365mfc, 1,1,1,3,3-五氟丁烷, CF3CH2CF2CH3			804		2013 IPCC Fifth Assessment Report AR5 2013年IPCC第五次评估报告AR5	
HFC-43-10mee	R-43-10mee, 1,1,1,2,2,3,4,5,5,5-十氟戊烷, CF3CHFCHFCF2CF3			1650		2013 IPCC Fifth Assessment Report AR5 2013年IPCC第五次评估报告AR5	
R401A		R22/152a/R124 (53/13/34)		17.94		2013 IPCC Fifth Assessment Report AR5 2013年IPCC第五次评估报告AR5	只考虑了R152a
R401B		R22/152a/R124 (61/11/28)		15.18		2013 IPCC Fifth Assessment Report AR5 2013年IPCC第五次评估报告AR5	只考虑了R152a
R404A		R125/143a/R134a (44/52/4)		3942.8		2013 IPCC Fifth Assessment Report AR5 2013年IPCC第五次评估报告AR5	
R407A		R32/R125/R134a (20/40/40)		1923.4		2013 IPCC Fifth Assessment Report AR5 2013年IPCC第五次评估报告AR5	
R407B		R32/R125/R134a (10/70/20)		2546.7		2013 IPCC Fifth Assessment Report AR5 2013年IPCC第五次评估报告AR5	
R407C		R32/R125/R134a (23/25/52)		1624.21		2013 IPCC Fifth Assessment Report AR5 2013年IPCC第五次评估报告AR5	
R408A		R125/R143a/R22 (7/46/47)		2429.9		2013 IPCC Fifth Assessment Report AR5 2013年IPCC第五次评估报告AR5	未考虑R22
R410A		R32/R125 (50/50)		1923.5		2013 IPCC Fifth Assessment Report AR5 2013年IPCC第五次评估报告AR5	
R413A		R218/R134a/R600a(9/88/3)		1144	801	2013 IPCC Fifth Assessment Report AR5 2013年IPCC第五次评估报告AR5	
R417A		R125/R134a/R600a(46.6/50/3.4)		2127.22		2013 IPCC Fifth Assessment Report AR5 2013年IPCC第五次评估报告AR5	
R503		R23/R13 (40.1/59.9)		4972.4		2013 IPCC Fifth Assessment Report AR5 2013年IPCC第五次评估报告AR5	只考虑了R23,未考虑R13

R507A		R125/R143a (50.0/50.0)		3985		2013 IPCC Fifth Assessment Report AR5 2013年IPCC第五次评估报告AR5	
R508A		R23/R116 (39.0/61.0)		4836	5008.1	2013 IPCC Fifth Assessment Report AR5 2013年IPCC第五次评估报告AR5	
R508B		R23/R116 (46.0/54.0)		5704	4433.4	2013 IPCC Fifth Assessment Report AR5 2013年IPCC第五次评估报告AR5	
PFC-116	R-116，六氟乙烷，C2F6				8210	2013 IPCC Fifth Assessment Report AR5 2013年IPCC第五次评估报告AR5	
PFC-14	R-14，四氟化碳，CF4				4880	2013 IPCC Fifth Assessment Report AR5 2013年IPCC第五次评估报告AR5	
PFC-218	C3F8，全氟丙烷				8900	2013 IPCC Fifth Assessment Report AR5 2013年IPCC第五次评估报告AR5	
PFC-318	c-C4F8，八氟环丁烷				9540	2013 IPCC Fifth Assessment Report AR5 2013年IPCC第五次评估报告AR5	
PFC-3-1-10	C4F10，全氟丁烷				9200	2013 IPCC Fifth Assessment Report AR5 2013年IPCC第五次评估报告AR5	
PFC-4-1-12	C5F12，全氟戊烷				8550	2013 IPCC Fifth Assessment Report AR5 2013年IPCC第五次评估报告AR5	
PFC-5-1-14	C6F14，全氟己烷				7910	2013 IPCC Fifth Assessment Report AR5 2013年IPCC第五次评估报告AR5	
NF ₃	三氟化氮		16,100			2013 IPCC Fifth Assessment Report AR5 2013年IPCC第五次评估报告AR5	
SF ₆	六氟化硫		23,500			2013 IPCC Fifth Assessment Report AR5 2013年IPCC第五次评估报告AR5	

Serial No. 编号	Type of GHG Emission 温室气体排放类别	Emission Sources 排放源	Facilities 设施	Caloric value 热值	Unit 单位	CO ₂			CH ₄			N ₂ O			Default Emission Factors 缺省排放因子			Reference Sources 引用源	
						Default EF 缺省EF	Unit 单位	EF Value EF计算值	Unit 单位	Default EF 缺省EF	Unit 单位	EF Value EF计算值	Unit 单位	Default EF 缺省EF	Unit 单位	EF Value EF计算值	Unit 单位	GWP	Caloric value 热值
1	Direct Emissions from Stationary Combustion 固定燃烧产生的直接排放	Diesel Combustion 柴油燃烧	Electricity Generator 发电机	42652	KJ/kg	74100	kgCO2/TJ	3.16	kgCO2/kg	3	kgCH4/TJ	1.28E-04	kgCH4/kg	0.6	kgN2O/TJ	2.56E-05	kgN2O/kg	2013 IPCC Fourth Assessment Report AR5 2013年IPCC第五次评估报告AR5	CHINA ENERGY STATISTICAL YEARBOOK 2010 中国能源统计年鉴2010
2	Direct Emissions from Stationary Combustion 固定燃烧产生的直接排放	Liquefied Petroleum Gas (LPG) Combustion 液化石油气燃烧	Stove 炉灶	50179	KJ/kg	63100	kgCO2/TJ	3.17	kgCO2/kg	5	kgCH4/TJ	2.51E-04	kgCH4/kg	0.1	kgN2O/TJ	5.02E-06	kgN2O/kg	2013 IPCC Fourth Assessment Report AR5 2013年IPCC第五次评估报告AR5	CHINA ENERGY STATISTICAL YEARBOOK 2010 中国能源统计年鉴2010
3	Direct Emissions from Stationary Combustion 固定燃烧产生的直接排放	Liquefied Petroleum Gas (LPG) Combustion 液化石油气燃烧	Boiler 锅炉	50179	KJ/kg	63100	kgCO2/TJ	3.17	kgCO2/kg	1	kgCH4/TJ	5.02E-05	kgCH4/kg	0.1	kgN2O/TJ	5.02E-06	kgN2O/kg	2013 IPCC Fourth Assessment Report AR5 2013年IPCC第五次评估报告AR5	CHINA ENERGY STATISTICAL YEARBOOK 2010 中国能源统计年鉴2010
4	Direct Emissions from Stationary Combustion 固定燃烧产生的直接排放	Natural Gas (NG) Combustion 天然气燃烧	Boiler 锅炉	38931	KJ/M3	56100	kgCO2/TJ	2.18	kgCO2/M3	1	kgCH4/TJ	3.89E-05	kgCH4/M3	0.1	kgN2O/TJ	3.89E-06	kgN2O/M3	2013 IPCC Fourth Assessment Report AR5 2013年IPCC第五次评估报告AR5	CHINA ENERGY STATISTICAL YEARBOOK 2010 中国能源统计年鉴2010
5	Direct Emissions from Stationary Combustion 固定燃烧产生的直接排放	Natural Gas Liquid Combustion 天然气液体燃烧	Boiler 锅炉		KJ/kg	64200	kgCO2/TJ	0.00	kgCO2/kg	3	kgCH4/TJ	0.00E+00	kgCH4/kg	0.6	kgN2O/TJ	0.00E+00	kgN2O/kg	2013 IPCC Fourth Assessment Report AR5 2013年IPCC第五次评估报告AR5	CHINA ENERGY STATISTICAL YEARBOOK 2010 中国能源统计年鉴2010
6	Direct Emissions from Stationary Combustion 固定燃烧产生的直接排放	Bituminous Combustion 烟煤燃烧	Boiler 锅炉	20908	KJ/kg	94600	kgCO2/TJ	1.98	kgCO2/kg	10	kgCH4/TJ	2.09E-04	kgCH4/kg	1.5	kgN2O/TJ	3.14E-05	kgN2O/kg	2013 IPCC Fourth Assessment Report AR5 2013年IPCC第五次评估报告AR5	
7	Direct Emissions from Stationary Combustion 固定燃烧产生的直接排放	Acetylene Combustion 乙炔燃烧	Welding 焊接					3.38	kgCO2/kg									2013 IPCC Fourth Assessment Report AR5 2013年IPCC第五次评估报告AR5	
8	Direct Emissions from Stationary Combustion 固定燃烧产生的直接排放	Butane Combustion 丁烷燃烧						3.03	kgCO2/kg									2013 IPCC Fourth Assessment Report AR5 2013年IPCC第五次评估报告AR5	
9	Direct Emissions from Stationary Combustion 固定燃烧产生的直接排放	Biomass Combustion 生物质燃烧		16726	KJ/kg	112000	kgCO2/TJ	1.87	kgCO2/kg	30	kgCH4/TJ	5.02E-04	kgCH4/kg	4	kgN2O/TJ	6.69E-05	kgN2O/kg	2013 IPCC Fourth Assessment Report AR5 2013年IPCC第五次评估报告AR5	CHINA ENERGY STATISTICAL YEARBOOK 2010 中国能源统计年鉴2010
10	Direct Emissions from Mobile Combustion 移动燃烧产生的直接排放	Diesel Combustion 柴油燃烧	Truck 货车	42652	KJ/kg	74100	kgCO2/TJ	3.16	kgCO2/kg	3.9	kgCH4/TJ	1.66E-04	kgCH4/kg	3.9	kgN2O/TJ	1.66E-04	kgN2O/kg	2013 IPCC Fourth Assessment Report AR5 2013年IPCC第五次评估报告AR5	CHINA ENERGY STATISTICAL YEARBOOK 2010 中国能源统计年鉴2010
11	Direct Emissions from Mobile Combustion 移动燃烧产生的直接排放	Diesel Combustion 柴油燃烧	Forklifter 叉车	42652	KJ/kg	74100	kgCO2/TJ	3.16	kgCO2/kg	4.15	kgCH4/TJ	1.77E-04	kgCH4/kg	28.6	kgN2O/TJ	1.22E-03	kgN2O/kg	2013 IPCC Fourth Assessment Report AR5 2013年IPCC第五次评估报告AR5	CHINA ENERGY STATISTICAL YEARBOOK 2010 中国能源统计年鉴2010
12	Direct Emissions from Mobile Combustion 移动燃烧产生的直接排放	Gasoline Combustion 汽油燃烧	Commercial Vehicle 商务车	43070	KJ/kg	69300	kgCO2/TJ	2.98	kgCO2/kg	25	kgCH4/TJ	1.08E-03	kgCH4/kg	8	kgN2O/TJ	3.45E-04	kgN2O/kg	2013 IPCC Fourth Assessment Report AR5 2013年IPCC第五次评估报告AR5	CHINA ENERGY STATISTICAL YEARBOOK 2010 中国能源统计年鉴2010
13	Direct Emissions from Mobile Combustion 移动燃烧产生的直接排放	Liquefied Petroleum Gas (LPG) Combustion 液化石油气燃烧	Forklifter 叉车	50179	KJ/kg	63100	kgCO2/TJ	3.17	kgCO2/kg	62	kgCH4/TJ	3.11E-03	kgCH4/kg	0.2	kgN2O/TJ	1.00E-05	kgN2O/kg	2013 IPCC Fourth Assessment Report AR5 2013年IPCC第五次评估报告AR5	CHINA ENERGY STATISTICAL YEARBOOK 2010 中国能源统计年鉴2010
14	Direct Emissions from Fugitive Emission 直接逸散排放	Methane (CH4) Fugitive 甲烷逸散	Septic Tank 化粪池									3.00E-01	kgCH4/kgBOD					2013 IPCC Fourth Assessment Report AR5 2013年IPCC第五次评估报告AR5	
15	Direct Emissions from Fugitive Emission 直接逸散排放	WD-40 Fugitive WD-40逸散						2.5%										2013 IPCC Fourth Assessment Report AR5 2013年IPCC第五次评估报告AR5	

Serial No. 编号	Type of GHG Emission 温室气体排放类别	Emission Sources 排放源	Facilities 设施	Caloric value 热值	Unit 单位	HFCs/PPCs				Application 应用	Reference Sources 引用源
						Default EF 缺省EF	Unit 单位	Estimated EF EF估计值	Unit 单位		
16	Direct Emissions from Fugitive Emission 直接逸散排放	Refrigerant Fugitive 冷媒逸散	Refrigerator 冰箱					0.30%		Refrigerating 家庭制冷	2006 IPCC Guidelines for National Greenhouse Gas Inventories V3.7 Ch7 Table7.9
17	Direct Emissions from Fugitive Emission 直接逸散排放	Refrigerant Fugitive 冷媒逸散	Heating, Ventilation and Air Conditionino (HVAC)					5.50%		Residential and commercial air conditioning including heat. 住宅和商用	2006 IPCC Guidelines for National Greenhouse Gas Inventories V3.7 Ch7 Table7.9
18	Direct Emissions from Fugitive Emission 直接逸散排放	Refrigerant Fugitive 冷媒逸散	Vehicle Air Conditioning					15%		Mobile A/C 移动A/C	2006 IPCC Guidelines for National Greenhouse Gas Inventories V3.7 Ch7 Table7.9
19	Direct Emissions from Fugitive Emission 直接逸散排放	Refrigerant Fugitive 冷媒逸散	Conditioner 冷冻机					8.50%		Cooler 冷却器	2006 IPCC Guidelines for National Greenhouse Gas Inventories V3.7 Ch7 Table7.9
20	Direct Emissions from Fugitive Emission 直接逸散排放	Refrigerant Fugitive 冷媒逸散	Chiller 冰水机					8%		Miscellaneous commercial applications 零星的商业应用	2006 IPCC Guidelines for National Greenhouse Gas Inventories V3.7 Ch7 Table7.9
OR 或											
21	Direct Emissions from Fugitive Emission 直接逸散排放	Refrigerant Fugitive 冷媒逸散	All chilling facilities 所有制冷设施					100%		All cooling purpose 所有制冷用途	Assume refrigerant refilled quantity equals the emission quantity 假设冷媒填充量相当于泄漏量

Serial No. 编号	Type of GHG Emission 温室气体排放类别	Emission Sources 排放源	Facilities 设施	Caloric value 热值	Unit 单位	SF ₆				Reference Sources 引用源
						Default EF 缺省EF	Unit 单位	Estimated EF EF估计值	Unit 单位	
22	Direct Emissions from Fugitive Emission 直接逸散排放	Sulfur hexafluoride (SF6) Fugitive 六氟化硫逸散	High-voltage Electrical Cabinet 高压电柜					0.5%		GB/T8905-2008 六氟化硫电气设备中气体管理和检测导则9.3

OR 或											
23	Direct Emissions from Fugitive Emission 直接逸散排放	Sulfur hexafluoride (SF6) Fugitive 六氟化硫逸散	High-voltage Electrical Cabinet 高压柜					100%			Assume SF6 refilled quantity equals the emission quantity 假设六氟化硫填充量相等等于泄漏量

Serial No. 编号	Type of GHG Emission 温室气体排放类别	Emission Sources 排放源	Facilities 设施	Caloric value 热值	Unit 单位	Default EF 缺省EF	Unit 单位	CO ₂ e FM200 Estimated EF 估计值	Unit 单位	Reference Sources 引用源
24	Direct Emissions from Fugitive Emission 直接逸散排放	FM200 Fugitive FM200逸散	Central fire extinguishing system 中央灭火系统					2%		2006 IPCC Guidelines for National Greenhouse Gas Inventories V3 7 Ch7 7.6.2.2
25	Direct Emissions from Fugitive Emission 直接逸散排放	CO2 Fugitive 二氧化碳逸散	Portable Fire Extinguisher 便携式灭					4%		2006 IPCC Guidelines for National Greenhouse Gas Inventories V3 7 Ch7 7.6.2.2
OR 或										
26	Direct Emissions from Fugitive Emission 直接逸散排放	FM200 Fugitive FM200逸散/ CO2 Fugitive 二氧化碳逸散	All fire extinguisher and extinguishing system 所有灭火器及灭火系统					100%		Assume fire extinguishing agent refilled quantity equals the emission quantity 假设灭火剂填充量相等等于泄漏量

Serial No. 编号	Type of GHG Emission 温室气体排放类别	Emission Sources 排放源	Facilities 设施	Caloric value 热值	Unit 单位	Default EF 缺省EF	Unit 单位	CO2e EF Value 估计值	Unit 单位	Reference Sources 引用源
27	Indirect GHG emissions from transportation 运输产生的间接温室气体排放	Transportation and Distribution for Goods 运输和货物分配	Vans (Diesel, up to 3.5 tonnes) average 轻型货车 (柴油, < 3.5 公吨) 平均值					0.62	kgCO2e/tkm	2019 UK Government Conversion Factors for greenhouse gas (GHG) reporting, Department for Business, Energy & Industrial Strategy and Department for Environment Food & Rural Affairs https://www.gov.uk/government/publications/greenhouse-gas- reporting-conversion-factors-2019
28	Indirect GHG emissions from transportation 运输产生的间接温室气体排放	Transportation and Distribution for Goods 运输和货物分配	Vans (Petrol, up to 3.5 tonnes) average 轻型货车 (汽油, < 3.5 公吨) 平均值					0.77	kgCO2e/tkm	2019 UK Government Conversion Factors for greenhouse gas (GHG) reporting, Department for Business, Energy & Industrial Strategy and Department for Environment Food & Rural Affairs https://www.gov.uk/government/publications/greenhouse-gas- reporting-conversion-factors-2019
29	Indirect GHG emissions from transportation 运输产生的间接温室气体排放	Transportation and Distribution for Goods 运输和货物分配	HGVs 重型货车					0.11	kgCO2e/tkm	2019 UK Government Conversion Factors for greenhouse gas (GHG) reporting, Department for Business, Energy & Industrial Strategy and Department for Environment Food & Rural Affairs https://www.gov.uk/government/publications/greenhouse-gas- reporting-conversion-factors-2019
30	Indirect GHG emissions from transportation 运输产生的间接温室气体排放	Transportation and Distribution for Goods 运输和货物分配	Freight flights (short haul) 货运飞机 (< 3,700公里)					2.38	kgCO2e/tkm	2019 UK Government Conversion Factors for greenhouse gas (GHG) reporting, Department for Business, Energy & Industrial Strategy and Department for Environment Food & Rural Affairs https://www.gov.uk/government/publications/greenhouse-gas- reporting-conversion-factors-2019
31	Indirect GHG emissions from transportation 运输产生的间接温室气体排放	Transportation and Distribution for Goods 运输和货物分配	Freight flights (long haul) 货运飞机 (> 3,700公里)					1.13	kgCO2e/tkm	2019 UK Government Conversion Factors for greenhouse gas (GHG) reporting, Department for Business, Energy & Industrial Strategy and Department for Environment Food & Rural Affairs https://www.gov.uk/government/publications/greenhouse-gas- reporting-conversion-factors-2019
32	Indirect GHG emissions from transportation 运输产生的间接温室气体排放	Transportation and Distribution for Goods 运输和货物分配	Freight train 货运火车					0.03	kgCO2e/tkm	2019 UK Government Conversion Factors for greenhouse gas (GHG) reporting, Department for Business, Energy & Industrial Strategy and Department for Environment Food & Rural Affairs https://www.gov.uk/government/publications/greenhouse-gas- reporting-conversion-factors-2019
33	Indirect GHG emissions from transportation 运输产生的间接温室气体排放	Transportation and Distribution for Goods 运输和货物分配	Container ship 货柜船					0.02	kgCO2e/tkm	2019 UK Government Conversion Factors for greenhouse gas (GHG) reporting, Department for Business, Energy & Industrial Strategy and Department for Environment Food & Rural Affairs https://www.gov.uk/government/publications/greenhouse-gas- reporting-conversion-factors-2019
34	Indirect GHG emissions from transportation 运输产生的间接温室气体排放	Business Travel 商务旅行	Flights (short haul) 飞机 (< 3,700公里)					0.16	kgCO2e/pkm	2019 UK Government Conversion Factors for greenhouse gas (GHG) reporting, Department for Business, Energy & Industrial Strategy and Department for Environment Food & Rural Affairs https://www.gov.uk/government/publications/greenhouse-gas- reporting-conversion-factors-2019
35	Indirect GHG emissions from transportation 运输产生的间接温室气体排放	Business Travel 商务旅行	Flights (long haul) 飞机 (> 3,700公里)					0.20	kgCO2e/pkm	2019 UK Government Conversion Factors for greenhouse gas (GHG) reporting, Department for Business, Energy & Industrial Strategy and Department for Environment Food & Rural Affairs https://www.gov.uk/government/publications/greenhouse-gas- reporting-conversion-factors-2019
36	Indirect GHG emissions from transportation 运输产生的间接温室气体排放	Business Travel 商务旅行 / Employee Commuting 员工通勤	Ferry 渡轮					0.11	kgCO2e/pkm	2019 UK Government Conversion Factors for greenhouse gas (GHG) reporting, Department for Business, Energy & Industrial Strategy and Department for Environment Food & Rural Affairs https://www.gov.uk/government/publications/greenhouse-gas- reporting-conversion-factors-2019
37	Indirect GHG emissions from transportation 运输产生的间接温室气体排放	Business Travel 商务旅行 / Employee Commuting 员工通勤	Taxi 的士					0.15	kgCO2e/pkm	2019 UK Government Conversion Factors for greenhouse gas (GHG) reporting, Department for Business, Energy & Industrial Strategy and Department for Environment Food & Rural Affairs https://www.gov.uk/government/publications/greenhouse-gas- reporting-conversion-factors-2019
38	Indirect GHG emissions from transportation 运输产生的间接温室气体排放	Business Travel 商务旅行 / Employee Commuting 员工通勤	Bus 公交车/班车					0.10	kgCO2e/pkm	2019 UK Government Conversion Factors for greenhouse gas (GHG) reporting, Department for Business, Energy & Industrial Strategy and Department for Environment Food & Rural Affairs https://www.gov.uk/government/publications/greenhouse-gas- reporting-conversion-factors-2019
39	Indirect GHG emissions from transportation 运输产生的间接温室气体排放	Business Travel 商务旅行 / Employee Commuting 员工通勤	Rail 铁路					0.04	kgCO2e/pkm	2019 UK Government Conversion Factors for greenhouse gas (GHG) reporting, Department for Business, Energy & Industrial Strategy and Department for Environment Food & Rural Affairs https://www.gov.uk/government/publications/greenhouse-gas- reporting-conversion-factors-2019
40	Indirect GHG emissions from products used by an organization 组织使用的产品产生的间接温室气体排放	Manufacturing and Processing of Raw Materials 原材料的制 造和加工	HDPE					3177.38	kgCO2e/tonne	2019 UK Government Conversion Factors for greenhouse gas (GHG) reporting, Department for Business, Energy & Industrial Strategy and Department for Environment Food & Rural Affairs https://www.gov.uk/government/publications/greenhouse-gas- reporting-conversion-factors-2019

41	Indirect GHG emissions from products used by an organization 组织使用的产品产生的间接温室气体排放	Manufacturing and Processing of Raw Materials 原材料的制造和加工	LDPE/LLDPE		2600.64	kgCO2e/tonne	2019 UK Government Conversion Factors for greenhouse gas (GHG) reporting, Department for Business, Energy & Industrial Strategy and Department for Environment Food & Rural Affairs https://www.gov.uk/government/publications/greenhouse-gas-reporting-conversion-factors-2019
42	Indirect GHG emissions from products used by an organization 组织使用的产品产生的间接温室气体排放	Manufacturing and Processing of Raw Materials 原材料的制造和加工	PET		4052.88	kgCO2e/tonne	2019 UK Government Conversion Factors for greenhouse gas (GHG) reporting, Department for Business, Energy & Industrial Strategy and Department for Environment Food & Rural Affairs https://www.gov.uk/government/publications/greenhouse-gas-reporting-conversion-factors-2019
43	Indirect GHG emissions from products used by an organization 组织使用的产品产生的间接温室气体排放	Manufacturing and Processing of Raw Materials 原材料的制造和加工	PP		3072.30	kgCO2e/tonne	2019 UK Government Conversion Factors for greenhouse gas (GHG) reporting, Department for Business, Energy & Industrial Strategy and Department for Environment Food & Rural Affairs https://www.gov.uk/government/publications/greenhouse-gas-reporting-conversion-factors-2019
44	Indirect GHG emissions from products used by an organization 组织使用的产品产生的间接温室气体排放	Manufacturing and Processing of Raw Materials 原材料的制造和加工	PS		3777.95	kgCO2e/tonne	2019 UK Government Conversion Factors for greenhouse gas (GHG) reporting, Department for Business, Energy & Industrial Strategy and Department for Environment Food & Rural Affairs https://www.gov.uk/government/publications/greenhouse-gas-reporting-conversion-factors-2019
45	Indirect GHG emissions from products used by an organization 组织使用的产品产生的间接温室气体排放	Manufacturing and Processing of Raw Materials 原材料的制造和加工	PVC		3413.08	kgCO2e/tonne	2019 UK Government Conversion Factors for greenhouse gas (GHG) reporting, Department for Business, Energy & Industrial Strategy and Department for Environment Food & Rural Affairs https://www.gov.uk/government/publications/greenhouse-gas-reporting-conversion-factors-2019
46	Indirect GHG emissions from products used by an organization 组织使用的产品产生的间接温室气体排放	Manufacturing and Processing of Raw Materials 原材料的制造和加工	Aluminium cans and foils 铝片		12870.64	kgCO2e/tonne	2019 UK Government Conversion Factors for greenhouse gas (GHG) reporting, Department for Business, Energy & Industrial Strategy and Department for Environment Food & Rural Affairs https://www.gov.uk/government/publications/greenhouse-gas-reporting-conversion-factors-2019
47	Indirect GHG emissions from products used by an organization 组织使用的产品产生的间接温室气体排放	Manufacturing and Processing of Raw Materials 原材料的制造和加工	Batteries 电池		12094.27	kgCO2e/tonne	2019 UK Government Conversion Factors for greenhouse gas (GHG) reporting, Department for Business, Energy & Industrial Strategy and Department for Environment Food & Rural Affairs https://www.gov.uk/government/publications/greenhouse-gas-reporting-conversion-factors-2019
48	Indirect GHG emissions from products used by an organization 组织使用的产品产生的间接温室气体排放	Manufacturing and Processing of Raw Materials 原材料的制造和加工	Paper and board 纸及纸板		870.10	kgCO2e/tonne	2019 UK Government Conversion Factors for greenhouse gas (GHG) reporting, Department for Business, Energy & Industrial Strategy and Department for Environment Food & Rural Affairs https://www.gov.uk/government/publications/greenhouse-gas-reporting-conversion-factors-2019
49	Indirect GHG emissions from waste management 废弃物的处理所产生的间接温室气体排放	Disposal of Solid and Liquid Waste 固体和液体废物的处理	Municipal waste (combustion) 生活垃圾 (焚烧)		21.35	kgCO2e/tonne	2019 UK Government Conversion Factors for greenhouse gas (GHG) reporting, Department for Business, Energy & Industrial Strategy and Department for Environment Food & Rural Affairs https://www.gov.uk/government/publications/greenhouse-gas-reporting-conversion-factors-2019
50	Indirect GHG emissions from waste management 废弃物的处理所产生的间接温室气体排放	Disposal of Solid and Liquid Waste 固体和液体废物的处理	Municipal waste (landfill) 生活垃圾 (填埋)		586.51	kgCO2e/tonne	2019 UK Government Conversion Factors for greenhouse gas (GHG) reporting, Department for Business, Energy & Industrial Strategy and Department for Environment Food & Rural Affairs https://www.gov.uk/government/publications/greenhouse-gas-reporting-conversion-factors-2019
51	Indirect GHG emissions from waste management 废弃物的处理所产生的间接温室气体排放	Disposal of Solid and Liquid Waste 固体和液体废物的处理	Commercial and industrial waste (combustion) 工商业垃圾 (焚烧)		21.35	kgCO2e/tonne	2019 UK Government Conversion Factors for greenhouse gas (GHG) reporting, Department for Business, Energy & Industrial Strategy and Department for Environment Food & Rural Affairs https://www.gov.uk/government/publications/greenhouse-gas-reporting-conversion-factors-2019
52	Indirect GHG emissions from waste management 废弃物的处理所产生的间接温室气体排放	Disposal of Solid and Liquid Waste 固体和液体废物的处理	Commercial and industrial waste (landfill) 工商业垃圾 (填埋)		99.76	kgCO2e/tonne	2019 UK Government Conversion Factors for greenhouse gas (GHG) reporting, Department for Business, Energy & Industrial Strategy and Department for Environment Food & Rural Affairs https://www.gov.uk/government/publications/greenhouse-gas-reporting-conversion-factors-2019
53	Indirect GHG emissions from waste management 废弃物的处理所产生的间接温室气体排放	Disposal of Solid and Liquid Waste 固体和液体废物的处理	Plastics (average plastics) (combustion) 塑胶 (混合平均) (焚烧)		21.35	kgCO2e/tonne	2019 UK Government Conversion Factors for greenhouse gas (GHG) reporting, Department for Business, Energy & Industrial Strategy and Department for Environment Food & Rural Affairs https://www.gov.uk/government/publications/greenhouse-gas-reporting-conversion-factors-2019
54	Indirect GHG emissions from waste management 废弃物的处理所产生的间接温室气体排放	Disposal of Solid and Liquid Waste 固体和液体废物的处理	Plastics (average plastics) (landfill) 塑胶 (混合平均) (填埋)		8.99	kgCO2e/tonne	2019 UK Government Conversion Factors for greenhouse gas (GHG) reporting, Department for Business, Energy & Industrial Strategy and Department for Environment Food & Rural Affairs https://www.gov.uk/government/publications/greenhouse-gas-reporting-conversion-factors-2019
55	Indirect GHG emissions from waste management 废弃物的处理所产生的间接温室气体排放	Disposal of Solid and Liquid Waste 固体和液体废物的处理	Metal (mixed cans) (combustion) 金属 (混合平均) (焚烧)		21.35	kgCO2e/tonne	2019 UK Government Conversion Factors for greenhouse gas (GHG) reporting, Department for Business, Energy & Industrial Strategy and Department for Environment Food & Rural Affairs https://www.gov.uk/government/publications/greenhouse-gas-reporting-conversion-factors-2019
56	Indirect GHG emissions from waste management 废弃物的处理所产生的间接温室气体排放	Disposal of Solid and Liquid Waste 固体和液体废物的处理	Metal (mixed cans) (landfill) 金属 (混合平均) (填埋)		8.99	kgCO2e/tonne	2019 UK Government Conversion Factors for greenhouse gas (GHG) reporting, Department for Business, Energy & Industrial Strategy and Department for Environment Food & Rural Affairs https://www.gov.uk/government/publications/greenhouse-gas-reporting-conversion-factors-2019
57	Indirect GHG emissions from waste management 废弃物的处理所产生的间接温室气体排放	Disposal of Solid and Liquid Waste 固体和液体废物的处理	Paper and board (mixed) (combustion) 纸 (混合平均) (焚烧)		21.35	kgCO2e/tonne	2019 UK Government Conversion Factors for greenhouse gas (GHG) reporting, Department for Business, Energy & Industrial Strategy and Department for Environment Food & Rural Affairs https://www.gov.uk/government/publications/greenhouse-gas-reporting-conversion-factors-2019

58	Indirect GHG emissions from waste management 废弃物的处理所产生的间接温室气体排放	Disposal of Solid and Liquid Waste 固体和液体废物的处理	Paper and board (mixed) (landfill) 纸 (混合平均) (填埋)		1041.89	kgCO2e/tonne	2019 UK Government Conversion Factors for greenhouse gas (GHG) reporting, Department for Business, Energy & Industrial Strategy and Department for Environment Food & Rural Affairs https://www.gov.uk/government/publications/greenhouse-gas-reporting-conversion-factors-2019
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2017中国区域电网基准线排放因子

电网	EF _{grid,OM,y} (tCO2/MWh)	EF _{grid,BM,y} (tCO2/MWh)	覆盖省市
华北区域电网	0.9680	0.4578	北京市、天津市、河北省、山西省、山东省、内蒙古自治区
东北区域电网	1.1082	0.331	辽宁省、吉林省、黑龙江省
华东区域电网	0.8046	0.4923	上海市、江苏省、浙江省、安徽省、福建省
华中区域电网	0.9014	0.3112	河南省、湖北省、湖南省、江西省、四川省、重庆市
西北区域电网	0.9155	0.3232	陕西省、甘肃省、青海省、宁夏自治区、新疆自治区
南方区域电网	0.8367	0.2476	广东省、广西自治区、云南省、贵州省、海南省

备注：

注：1）表中OM为2013-2015电量边际排放因子的加权平均值；BM 为截至2015 年的容量边际排放因子；
2）本结果以公开的上网电厂的汇总数据为基础计算得出

其他地区外购电力排放因子	EF (tCO2/MWh)	Reference Sources 引用源
越南	0.564	IGES CDM Project Database
印尼	0.761	

Transportation Mode 运输方式	From 从	To 到	Distance 距离
Sea Transportation 海运	Guangdong 广东	Russia (incl. Belarus, Kazakhstan) 俄罗斯 (包括白俄罗斯, 哈萨克斯坦)	21731 km
Air Transportation 空运	Guangdong 广东	Germany 德国	9284 km
Road Transportation 陆运	China 中国	China 中国	140 km

Sea Transportation 海路运输	From (km)						
	China 中国				Vietnam 越南		Indonesia 印尼
To	Guangdong 广东	Guangxi 广西	Hunan 湖南	Chongqing 重庆	Da Nang 岷港	Ha Noi 河内	Central Java 中爪哇
USA 美国	11938	11938	11327	10571	12671	12671	14629
Canada 加拿大	10814	10814	10180	9464	11542	11542	13729
Austria 奥地利	14942	14942	15148	16229	13996	13996	12568
France 法国	14942	14942	15148	16229	13996	13996	12568
Germany 德国	18676	18676	18879	19961	17727	17727	16299
Ireland / North Ireland 爱尔兰 / 北爱尔兰	17901	17901	18105	19187	16953	16953	15525
Israel 以色列	12371	12371	12575	13657	11423	11423	9995
Italy 意大利	14572	14572	14775	15857	13623	13623	12195
Russia (incl. Belarus, Kazakhstan, Russia) 俄罗斯	21731	21731	20711	21792	19559	19559	18131
Spain (incl. Cyprus, Malta, Morocco, Portugal) 西班牙	15085	15085	15288	16370	14136	14136	12708
Switzerland 瑞士	18676	18676	18879	19961	17727	17727	16299
Turkey 土耳其	13599	13599	13803	14885	12651	12651	11223
UK 英国	18131	18131	18335	19416	17183	17183	15755
MEL (Europe) - Other than # 1-13	19720	19720	19924	21005	18772	18772	17344
Argentina 阿根廷	19740	19740	19959	20674	18837	18837	16374
Brazil 巴西	18939	18939	19157	20233	18035	18035	15572
Chile 智利	19783	19783	19175	18677	20003	20003	18427
Costa Rica 哥斯达黎加	16672	16672	16007	15316	17524	17524	19229
Colombia 哥伦比亚	17883	17883	17096	16572	18624	18624	20274
Ecuador 厄瓜多尔	17770	17770	17148	16459	18509	18509	19359
El Salvador 萨尔瓦多	15692	15692	15083	14377	16431	16431	18227
Honduras 洪都拉斯	18574	18574	17953	17262	19315	19315	20965
Nicaragua 尼加拉瓜	16031	16031	15379	15379	16770	16770	18451
Guatemala 危地马拉	18783	18783	18163	17472	19524	19524	21174
Mexico 墨西哥	12588	12588	11960	11197	13325	13325	15133
Panama 巴拿马	17531	17531	16911	16220	18272	18272	19922
Peru 秘鲁	17568	17568	16946	16301	18307	18307	19100
Uruguay 乌拉圭	19561	19561	19779	20494	18657	18657	16194
China 中国	0	0	0	1719	1117	1117	3467
Hong Kong 香港	154	154	532	1565	963	963	3313
India 印度	7367	7367	7571	8653	6419	6419	5015
Indonesia 印尼	3467	3467	3678	4673	2561	2561	0
Japan 日本	3110	3110	2496	1941	3854	3854	5989
Korea 韩国	2358	2358	1731	930	3097	3097	5349
Malaysia 马来西亚	3084	3084	3287	4369	2135	2135	1133
Philippines 菲律宾	1324	1324	1226	2089	1404	1404	2893
Singapore 新加坡	2858	2858	3061	4143	1909	1909	972
Taiwan 台湾	1026	1026	411	780	1769	1769	3997
Thailand 泰国	2911	2911	3174	4169	2004	2004	2391
Vietnam 越南	1871	1871	2130	2421	0	0	2561
Australia 澳洲	8484	8484	8219	8578	8510	8510	7119
New Zealand 纽西兰	9512	9512	9186	9523	9625	9625	8714
Egypt 埃及	11871	11871	12075	13157	10923	10923	9495

Kuwait 科威特	9938	9938	10142	11223	8990	8990	7586
Lebanon 黎巴嫩	12566	12566	12770	13851	11618	11618	10190
Middle East 中东	19860	19860	11064	12145	9912	9912	8484
Qatar 卡塔尔	9540	9540	9743	10825	8591	8591	7188
Pakistan 巴基斯坦	8204	8204	8408	9490	7256	7256	5852
Saudi Arabia 沙地阿拉伯	19860	19860	11064	12145	9912	9912	8484
South Africa 南非	12964	12964	13183	14259	12060	12060	9597

Reference Sources 引用源: <https://sea-distances.org/>

Remark 备注: 1. The sea travel distance from Guangdong and Guangxi is assumed to be the same 从广东及广西利用海运运往同一目的地的距离假设一致

2. The sea travel distance from Da Nang and Ha Noi is assumed to be the same 从岘港及河内利用海运运往同一目的地的距离假设一致

Air Transportation 航空运输	From (km)						
	China 中国				Vietnam 越南		Indonesia 印尼
To	Guangdong 广东	Guangxi 广西	Hunan 湖南	Chongqing 重庆	Da Nang 岘港	Ha Noi 河内	Central Java 中爪哇
USA 美国	11615	12144	11222	11496	12590	12420	14970
Canada 加拿大	10200	10729	10733	11164	11175	11005	13555
Austria 奥地利	10044	10573	10577	11008	11019	10849	13399
France 法国	9452	9981	9985	8489	10427	9154	12807
Germany 德国	9284	9813	8599	10248	10259	8708	12639
Ireland / North Ireland 爱尔兰 / 北爱尔兰	9962	10491	10495	10926	10937	10767	13317
Israel 以色列	7858	8387	8391	8822	8833	8663	11213
Italy 意大利	9151	9680	9684	8190	10126	9956	12506
Russia (incl. Belarus, Kazakhstan, Russia) 俄罗斯	6970	7499	7503	7934	7945	6690	10325
Spain (incl. Cyprus, Malta, Morocco, Portugal) 西班牙	10636	11165	11169	11600	11611	11441	13991
Switzerland 瑞士	9411	9940	9944	10375	10386	10216	12766
Turkey 土耳其	7879	8408	8412	8843	8854	7413	9453
UK 英国	9490	10019	9049	8531	9233	10295	11713
Tahiti 大溪地	18221	18750	18754	19185	19196	19026	21576
Argentina 阿根廷	21469	21998	22002	22433	22444	22274	24824
Brazil 巴西	23529	24058	24062	24493	24504	24334	26884
Chile 智利	20595	21124	21128	21559	21570	21400	23950
Costa Rica 哥斯达黎加	15994	16523	16527	16958	16969	16799	19349
Colombia 哥伦比亚	17212	17741	17745	18176	18187	18017	20567
Ecuador 厄瓜多尔	24192	24721	24725	25156	25167	24997	27547
El Salvador 萨尔瓦多	15347	15876	15880	16311	16322	16152	18702
Honduras 洪都拉斯	17471	18000	18004	18435	18446	18276	20826
Nicaragua 尼加拉瓜	17270	17799	17803	18234	18245	18075	20625
Guatemala 危地马拉	15144	15673	15677	16108	16119	15949	18499
Mexico 墨西哥	14113	14642	14646	15077	15088	14918	17468
Panama 巴拿马	16456	16985	16989	17420	17431	17261	19811
Paraguay 巴拉圭	22164	22693	22697	23128	23139	22969	25519
Peru 秘鲁	18331	18860	18864	19295	19306	19136	21686
Uruguay 乌拉圭	21961	22490	22494	22925	22936	22766	25316
China 中国	1880	2409	1355	1461	2791	2330	5232
Hong Kong 香港	135	664	657	1098	919	843	3254
India 印度	3647	4176	4180	4611	4622	4452	7002
Indonesia 印尼	3355	3884	3888	4319	4330	4160	
Japan 日本	2943	3472	2684	3209	3864	3718	5834
Korea 韩国	2005	2534	1606	2020	2980	2683	5259
Malaysia 马来西亚	2610	3139	3080	3043	1638	2100	1127
Philippines 菲律宾	1278	1807	1811	2242	2253	1772	2784

Singapore 新加坡	2646	3175	3138	3164	1695	2216	880
Taiwan 台湾	824	1353	866	1527	1685	1630	3806
Thailand 泰国	1704	2233	2063	1881	842	2509	2295
Vietnam 越南	805	1334	1075	948	628	0	4160
Australia 澳洲	7524	8053	7974	8478	8499	7783	5515
New Zealand 纽西兰	9294	9823	9827	10258	10269	10099	12649
Egypt 埃及	7987	8516	8520	8951	8962	8792	11342
Kuwait 科威特	6675	7204	7208	7639	7650	7480	10030
Lebanon 黎巴嫩	7963	8492	8496	8927	8938	8768	11318
Middle East 中东	5824	6353	6357	5039	6799	5142	6544
Qatar 卡塔尔	6193	6722	6726	5398	5932	5517	6890
Pakistan 巴基斯坦	7012	7541	7545	7976	7987	7817	10367
Saudi Arabia 沙地阿拉伯	7522	8051	8055	8486	8497	8327	7966
South Africa 南非	10663	11192	11196	11627	11638	11468	14018

Reference Sources 引用源: ICAO Carbon Emission Calculator <https://www.icao.int/environmental-protection/CarbonOffset/Pages/default.aspx>

Remark: For locations with no direct flight connecting, a transit point between the 2 locations had been assumed 当其中两个地点没有直接航班连接, 将假设停经位处该两个地点间的中转站作转运

Road Transportation 陆路运输	From (km)		
To	Da Nang 岬港	Ha Noi 河内	China 中国
China 中国	3443	2694	140
Hong Kong 香港	1754	1062	177

Reference Sources 引用源: <https://www.rome2rio.com/>

Appendix 4 -Transportation summary 附表4 - 运输总汇

[illegible]