



	.....	I
1.1.	.....	1
1.2.	.....	1
1.3.	.....	1
1.4.	.....	1
1.5.	.....	1
1.6.	.....	2
2.1.	.....	2
2.2.	.....	3
2.3.	.....	4
2.4.	.....	4
2.5.	.....	5
3.1.	.....	5
3.2.	.....	6
3.3.	.....	7
3.4.	.....	8
4.1.	.....	9
4.2.	.....	10
5.1.	.....	14
5.2.	.....	14

	2024	1	1	-2024	12	31
CTB1245C-00					-	-
ISO 14067-2018						
PAS 2050:2011						
CTB1245C-00						
	1			CTB1245C-00		
“				”		

- | | |
|----|----------------|
| 1) | ISO 14067:2018 |
| 2) | PAS 2050:2011 |

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	CPCD	Ecoinvent3.1	2006	IPCC	IPCC
2006			2019		

- 1)
- 2) /
- 3) GHG
- 4)
- 5) GHG
- 6)
- 7)

	/

2025.5.11	
2025.5.19	
2025.5.20	

“ ”

2025 5 19

2-3

		/	
1	GHG	/	
		/	
	1)	/	
	2)	/	
	3)	/	
	4)	/	
2	5)	/	
	6) GHG	/	
	GHG	/	



	1)		
	2)		
	3)		
	4)		
	5)		
	6) GHG		
	7)		
	GHG		
	1) GHG		
	2) GHG		
	3) GHG		
3	1)		
	2)		

27	1.1	1993	831387
		8	800
EPC+O&M		30	
“ ”“ ”“ ”			
6	2.5		



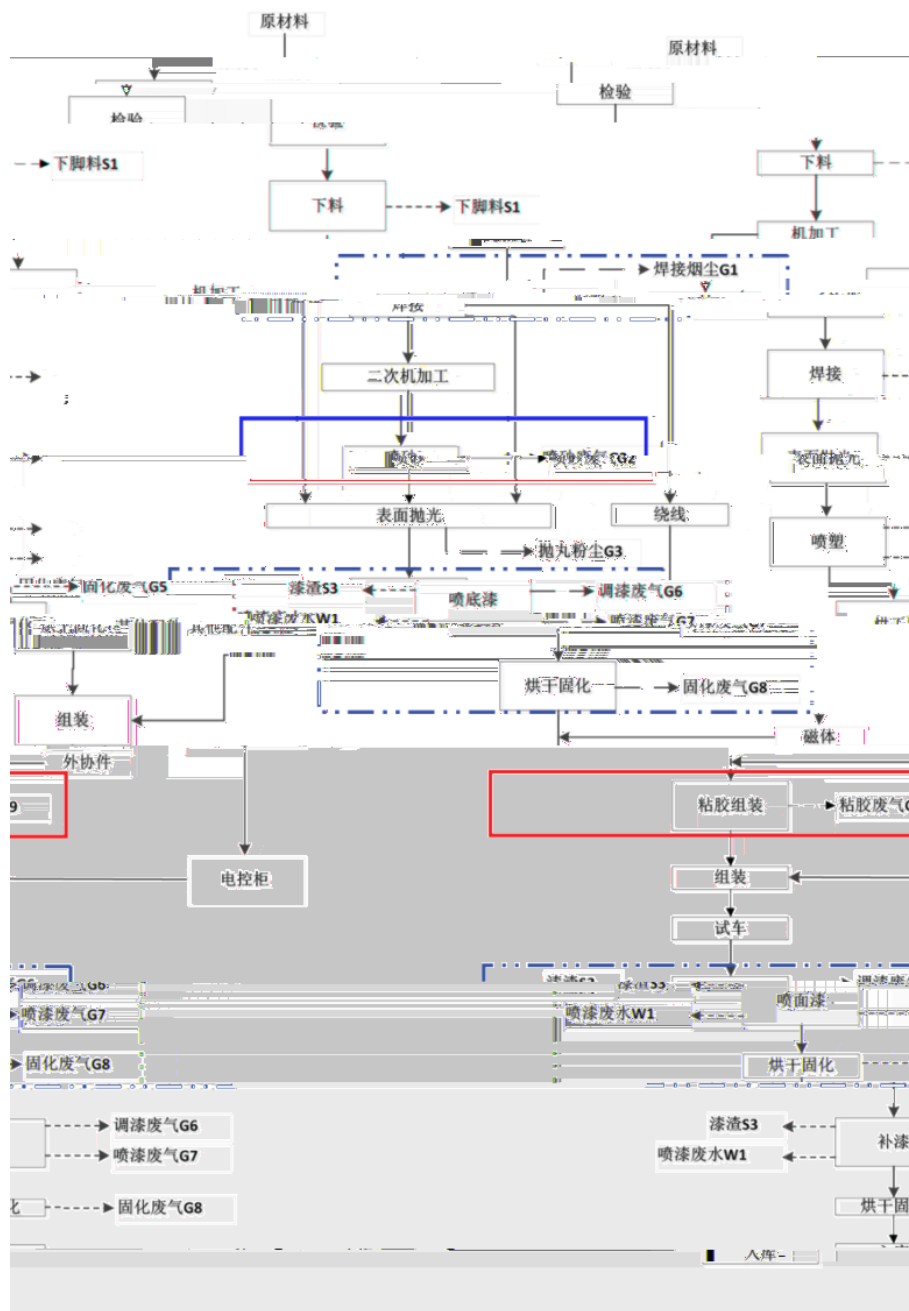
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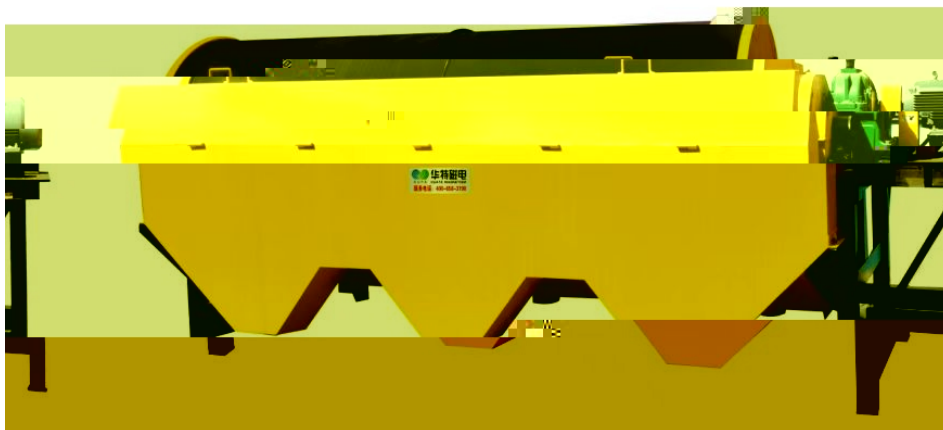
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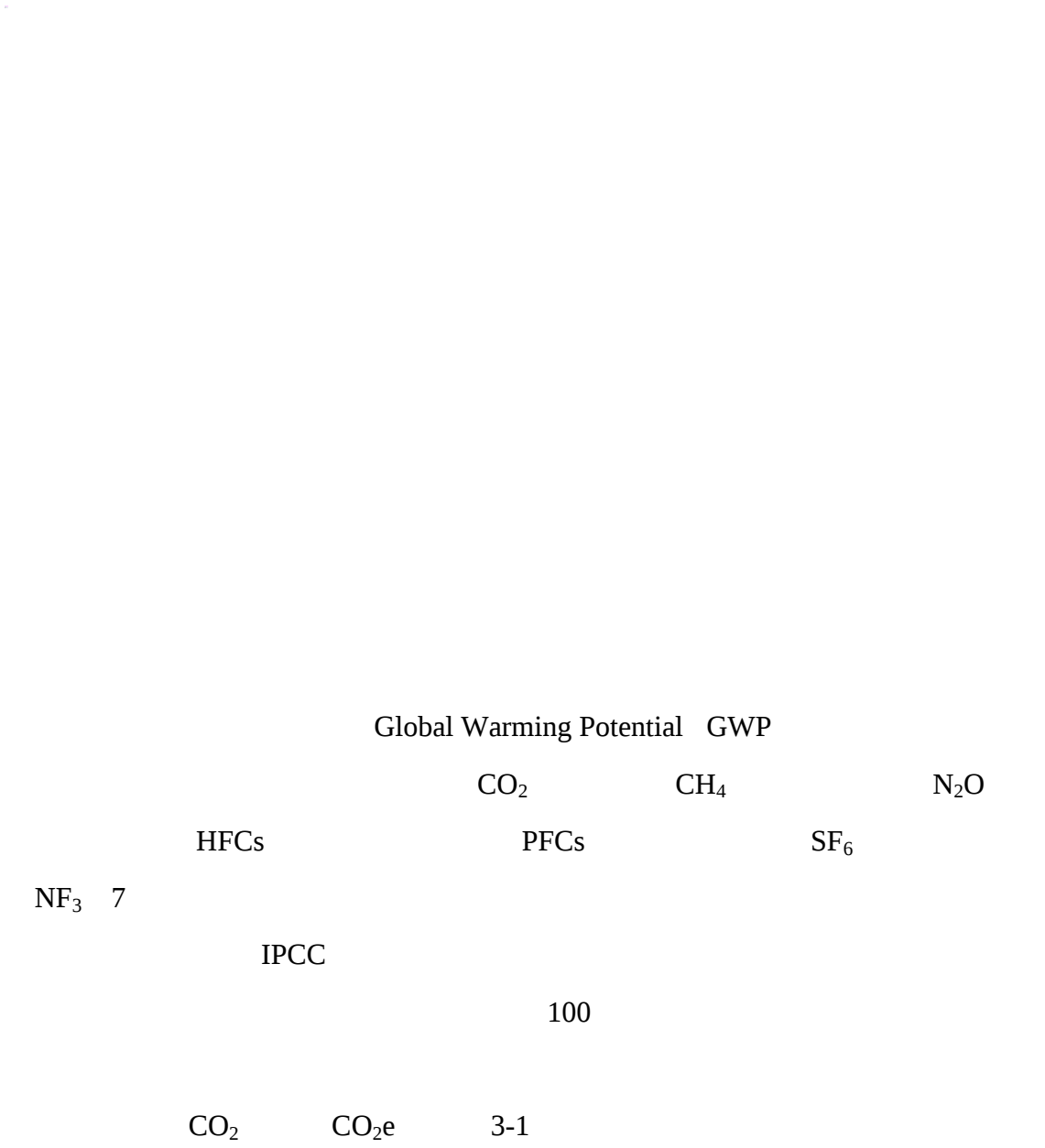
2024 01 01 - 2024 12 31

/

1 CTB1245C-00



3-2



GWP	kg CO ₂ e	CO ₂	1
		CH ₄	27.9
		N ₂ O	273

e equivalent

1			/	
			/	
			/	
			/	
2			/	
3		/	/	
4		/	/	
5		/	/	

2025 5 19
2024 1 1 ~2024 12 31

CPCD

	BOM	BOM

			1	—	—	—	—	—	—
		1	- Q235B	2971.27	kg/	CO ₂	2.63E+00	kgCO ₂ /kg	CPCD
		2	-20#	331.15	kg/	CO ₂	2.63E+00	kgCO ₂ /kg	CPCD
		3	-45#	112.38	kg/	CO ₂	2.43E+00	kgCO ₂ /kg	CPCD
		4	- Q355B	286.97	kg/	CO ₂	2.63E+00	kgCO ₂ /kg	CPCD
		5	-201	1770.83	kg/	CO ₂	6.80E+00	kgCO ₂ /kg	CPCD
		6	-304	1.7	kg/	CO ₂	6.80E+00	kgCO ₂ /kg	CPCD
		7		45.51	kg/	CO ₂	3.08E+00	kgCO ₂ /kg	CPCD
		8	6	0.41	kg/	CO ₂	4.10E+00	kgCO ₂ /kg	CPCD
		9		0.01	kg/	CO ₂	2.32E+00	kgCO ₂ /kg	CPCD
		10		63.5	kg/	CO ₂	2.05E+00	kgCO ₂ /kg	CPCD
		11	-201	37.25	kg/	CO ₂	6.80E+00	kgCO ₂ /kg	CPCD
		12	-304	0.25	kg/	CO ₂	6.80E+00	kgCO ₂ /kg	CPCD
		13	40Cr	174.75	kg/	CO ₂	2.05E+00	kgCO ₂ /kg	CPCD
		14	65Mn	0.44	kg/	CO ₂	2.43E+00	kgCO ₂ /kg	CPCD
		15	BL2	0.0013	kg/	CO ₂	2.15E+00	kgCO ₂ /kg	CPCD

		16	ZG	118.43	kg/	CO ₂	2.04E+00	kgCO ₂ /kg	CPCD
		17	ZL	103.9	kg/	CO ₂	1.64E+01	kgCO ₂ /kg	CPCD
		18		11.6	kg/	CO ₂	9.00E-02	kgCO ₂ /kg	CPCD
		19		1.02	kg/	CO ₂	3.08E+00	kgCO ₂ /kg	CPCD
		20		0.0004	kg/	CO ₂	1.43E+01	kgCO ₂ /kg	CPCD
		21		2.1	kg/	CO ₂	4.10E+00	kgCO ₂ /kg	CPCD
		22	Y30BH	2853.08	kg/	CO ₂	1.20E-01	kgCO ₂ /kg	CPCD
		23		16.36	kg/	CO ₂	1.05E+00	kgCO ₂ /kg	Ecoinvent3.1
		24		43.77	kg/	CO ₂	8.71E-01	kgCO ₂ /kg	Ecoinvent3.1
		25		20.76	kg/	CO ₂	1.21E+00	kgCO ₂ /kg	Ecoinvent3.1
		26		0.07	kg/	CO ₂	4.18E-01	kgCO ₂ /kg	Ecoinvent3.1
		27		4.67	kg/	CO ₂	5.53E-02	kgCO ₂ /kg	CPCD
		28		13.45	kg/	CO ₂	6.51E-01	kgCO ₂ /kg	CPCD
		29	电力	4092.75	kWh/台	CO ₂	6.21E-01	kgCO ₂ /KWh	生态环境部《关于发布2023年电力碳足迹因子数据的公告》电力碳足迹因子
		30		13.45	kg/	CO ₂	3.10E+00	kgCO ₂ /kg	
		31		13.45	kg/	CH ₄	4.70E-03	kgCO ₂ /kg	IPCC
		32		13.45	kg/	N ₂ O	4.60E-02	kgCO ₂ /kg	IPCC



CPCD

Ecoinvent3.1

2023

CPCD



									2022
	9			0.01		5	km	4.20E-05	2022
	10			63.5		64	km	5.70E-05	CPCD
	11	-201		37.25		449	km	5.70E-05	CPCD
	12	-304		0.25		134	km	5.70E-05	CPCD
	13	40Cr		174.75		57	km	5.70E-05	CPCD
	14	65Mn		0.44		64	km	5.70E-05	CPCD
	15	BL2		0.0013		64	km	5.70E-05	CPCD
	16	ZG		118.43		46	km	5.70E-05	CPCD
	17	ZL		103.9		62	km	5.70E-05	CPCD

	18			11.6		246	km	5.70E-05	CPCD
	19			1.02		5	km	4.20E-05	2022
	20			0.0004		55	km	4.20E-05	2022
	21			2.1		330	km	4.20E-05	2022
	22	Y30BH		2853.08		830	km	5.70E-05	CPCD
	23			16.36		6	km	8.30E-05	2022
	24			43.77		6	km	8.30E-05	2022
	25			20.76		6	km	8.30E-05	



									2022
	26			0.07		6	km	8.30E-05	2022
	27			4.67		50	km	8.30E-05	2022

$$\sum \quad \sum$$

 EP_C —

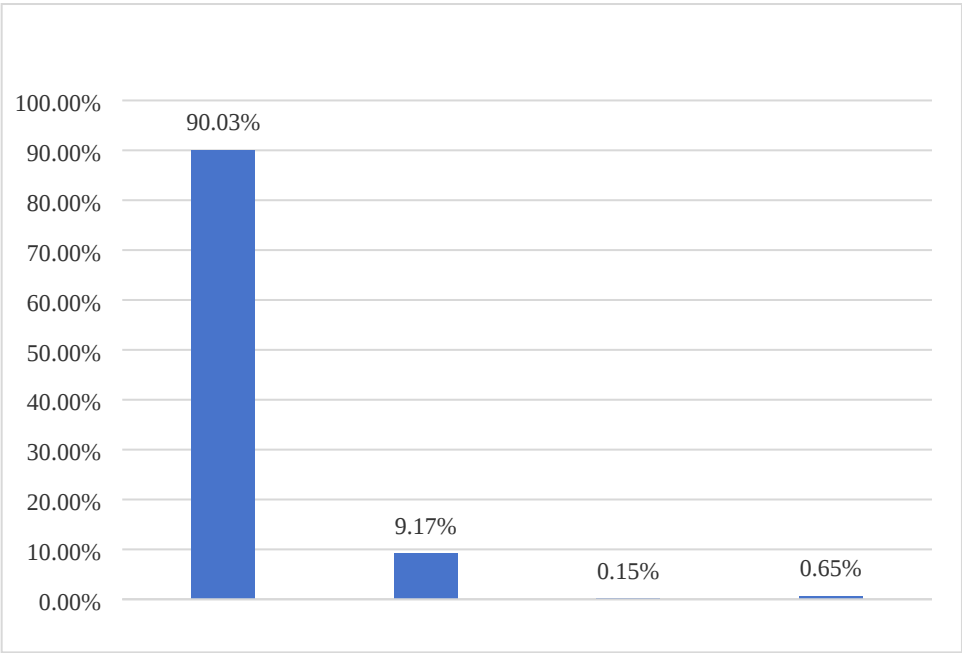
 EP_i — i
 Q_i — i
 EF_i — i

1	-Q235B	7814.44	28.11%
2	-20#	870.92	3.13%
3	-45#	273.08	0.98%
4	-Q355B	754.73	2.71%
5	-201	12041.64	43.31%
6	-304	11.56	0.04%
7		140.17	0.50%
8	6	1.68	0.01%
9		0.02	0.00%
10		130.18	0.47%
11	-201	253.30	0.91%
12	-304	1.70	0.01%
13	40Cr	358.24	1.29%
14	65Mn	1.07	0.00%
15	BL2	0.003	0.00%
16	ZG	241.60	0.87%
17	ZL	1701.88	6.12%

18		1.04	0.00%
19		3.14	0.01%
20		0.01	0.00%
21		8.61	0.03%
22	Y30BH	342.14	1.23%
23		17.18	0.06%
24		38.12	0.14%
25		25.12	0.09%
26		0.03	0.00%
27		0.26	0.00%
		25031.87	90.03%

1		2539.55	9.13%
2		8.75	0.03%
		64.01	9.17%

		kgCO ₂ e	
1	-Q235B	2.96E+01	0.11%
2	-20#	2.64E+00	0.01%
3	-45#	3.46E-01	0.00%
4	-Q355B	2.91E+00	0.01%
5	-201	6.56E+00	0.02%
6	-304	5.61E-02	0.0002%
7		6.17E-01	0.002%
8	6	5.56E-03	0.0000%
9		2.10E-06	0.0000%
10		2.32E-01	0.0008%
11	-201	9.53E-01	0.0034%



5-1 1 CTB1245C-00

90.03%

9.17%

±2%

±3%

±3%



CTB1245C-00

±4%

±2%

±2%

±3%

±4%

n

√

1

2

1 CTB1245C-00

27.80tCO₂e/

90.03%

9.17%

1	
2	
3	
4	
5	
6	
7	CTB1245C-00 BOM
8	2024 -
9	