2024

2025 2 23

			321
		email	187 6390 6386
☒ □			
			321
		email	187 6390 6386
		C3491	
( ) /			/
( ) /			/
			2024
tCO_2e			/
			1334
tCO_2			/
			1334
			/
2024 2024 1334tCO_2			

1 4
1.1 4
1.2 4
1.3 4
2 6
2.1 6
2.1.1 6
2.1.2 6
2.2 6
2.3 7
2.4 7
3 8
3.1 8
3.1.1 8
3.1.2 8
3.1.3 9
3.2 9
3.3 10
3.3.1 11
3.3.2 CO_2 12
3.3.3 CH_4 13
3.3.4 . . . . . 3.

1

1.1

321

2024

-

“ ”

-

1.2

“ ”

1.3

1

2

3

4

- I

4

5

“

”

2.3

2025 2 13 -2 14

6

2.4

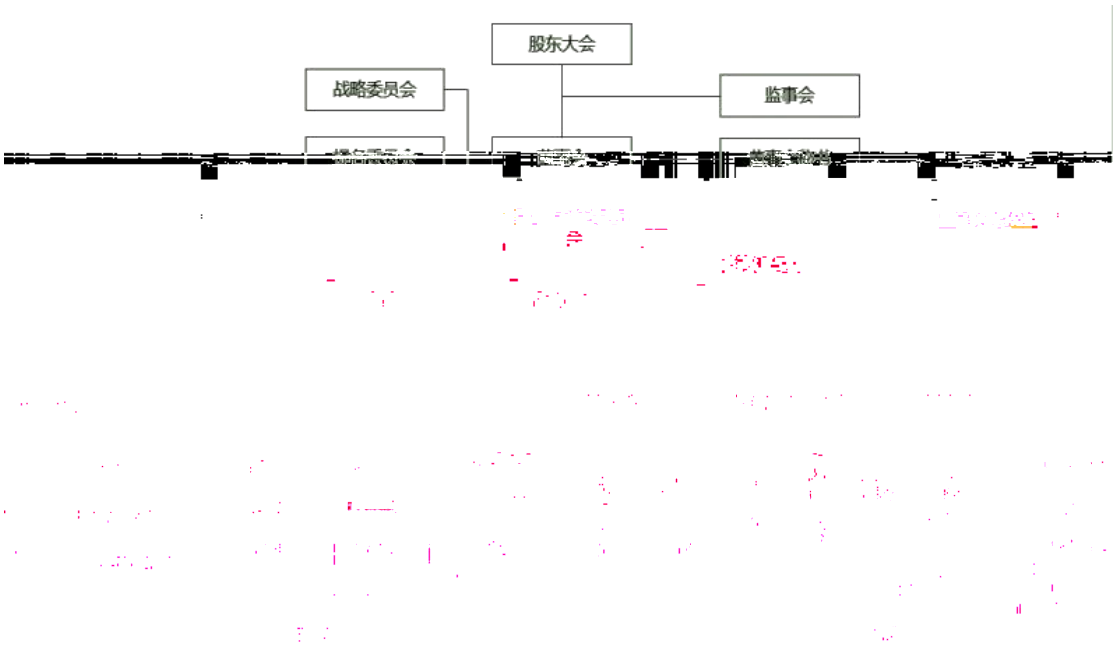
0

3

3.1

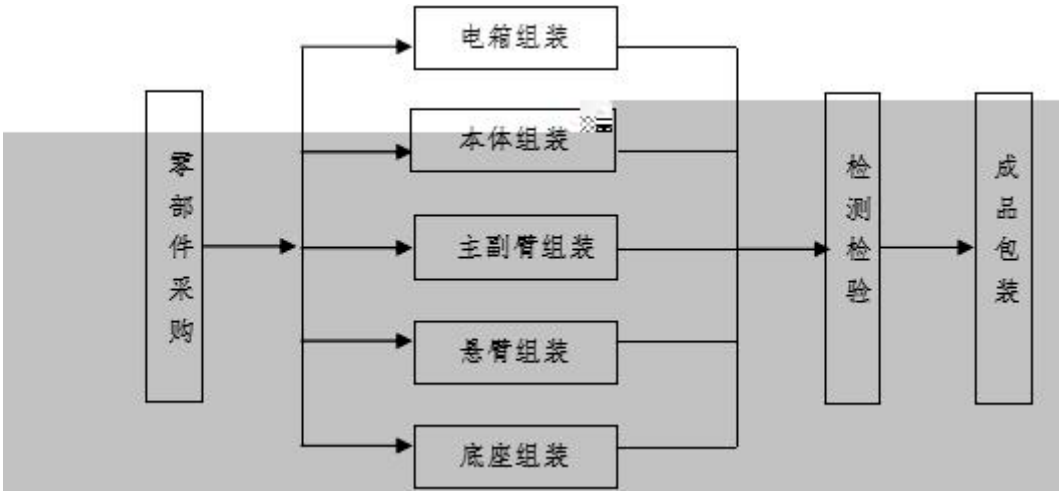
3.1.1

“ ”



1

3.1.2



2

3.1.3

1

2

3.2

1		CO_2		
2		CO_2	/	/
3		CH_4	/	/
4		CO_2		
5		CO_2	/	/

333333< ᴎ o & ị ɐ ᴎ ḓ

GWP_{CH4} CH_4 CO_2 GWP IPCC

100 1 CH_4 21 CO_2

21

E_{CO2} CO_2 CO_2

E_{CO2} CO_2 CO_2

3.3.1

$$E = \sum^{n} (AD \times EF)$$

E tCO_2

AD_i i GJ

EF_i i tCO_2/GJ

i

$$AD_i = NCV_i \times FC_i$$

AD_i i GJ

NCV_i i

GJ/t GJ/ Nm^3

FC_i i

t Nm^3

i

$$EF_i = CC_i \times OF_i \times \frac{44}{12}$$

EF_i i tCO_2/GJ

CC_i ¢ ,ª tC/GJ

OF_i i %

i

3.3.2 **CO_2**

C

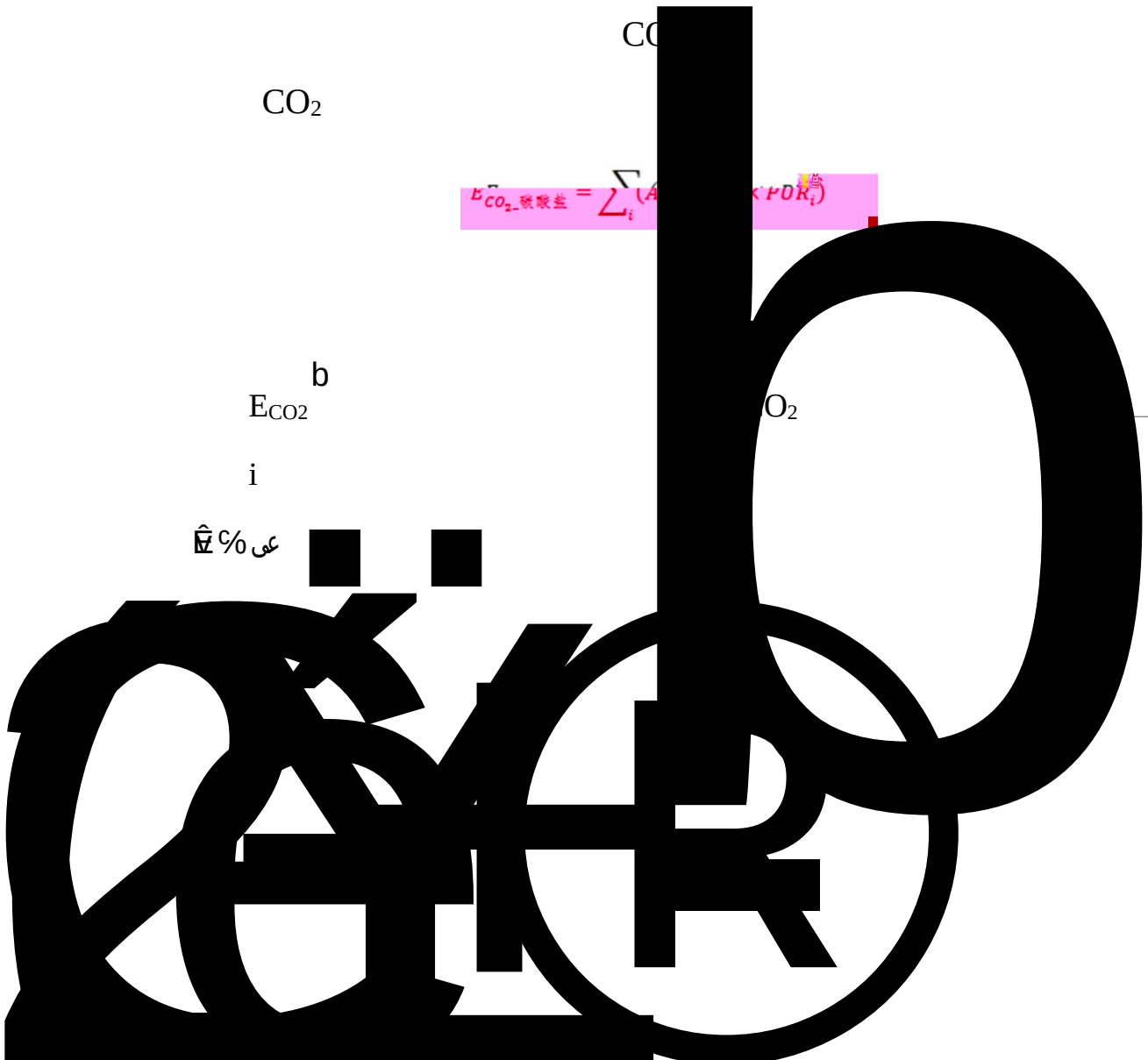
CO_2

$E_{CO_2_}$ = $\sum_i$ (× PDR_i)

b

E_{CO2} O_2

i



CH4

$$= (TOW - S) \times EF_{CH} \times 10^{-3}$$

ΕCH4 CH4

TOW COD

COD

S COD s(Ht pÑ·@

COD

ΕCH4 ÞæggÐÞA C%H4r ¿ CH4/

COD

3.3.4

EF

CO_2/GJ

3.4

/

3-2 **/**

		/
CO_2		
CO_2		

3.4.1

3.4.1.1

1

3-3

	2024	0.86

	/
	2024

2

3-4

	42.652
	GJ/t

3.4.1.2

3

3-5

	2024	2481.616
	MWh	

	2024

3.4.2

3.4.2.1

1

3-6

	tC/GJ	%
	0.0202	99
	2024	

3.4.2.2 CO_2

1

3-7

	0.5366
	tCO_2/MWh

2022

CO_2	1334n t

4

2024 ª ,º•€•Ú¹æà¹$¤_?

,º Q ^ H *f* n

ɾ ᵡ

5

1