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 µ

-U

4

φ

--Ε €Β1,Ν0 ₹Ηµ6,

4

5

“

”

2.3

2025 2 13 -2 14

6

2.4

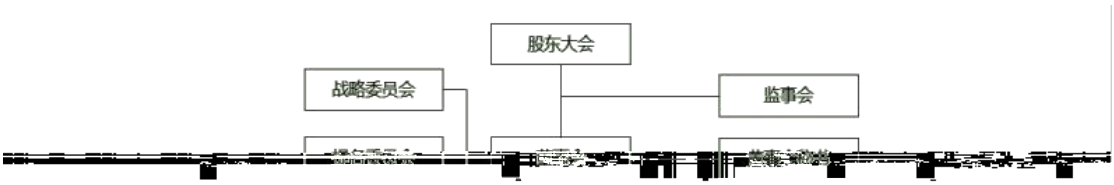
0

3

3.1

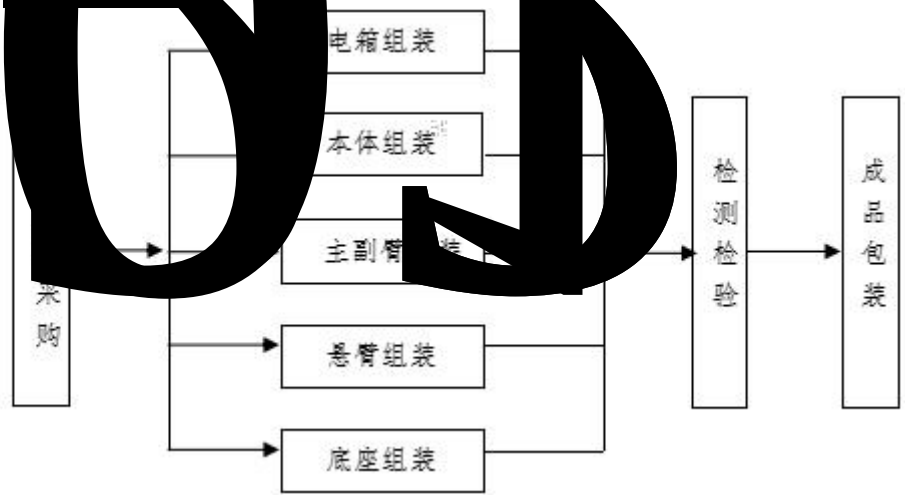
3.1.1

“ ”



1

3.1.2



2

3.1.3

1

2

3.2 غ ن ص ٦ ن

1

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

$$E_{CO_2} = \sum^{n} (AD \times FF)$$

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 =

EF_U ┐ i

CC_i i

OF_i

i

3.3.2

CO_2

$E_{CO_2_}$

E_{CO2}

i ‘ —

3.3.3 **CH_4**

CH_4

$$E_{CH_4_废水} = (TOW - \ldots) \times EF_{CH_4_废水} \times 10$$

E_{CH4} CH_4

TOW COD

COD

S COD

COD

EF_{CH4} DE CH4 CH_4/

CODЖ EXFk

3.3.4

EF

CO_2/GJ

3.4

/

3-2 **/**

		/
CO_2		
CO_2		

3.4.1

	/
	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	

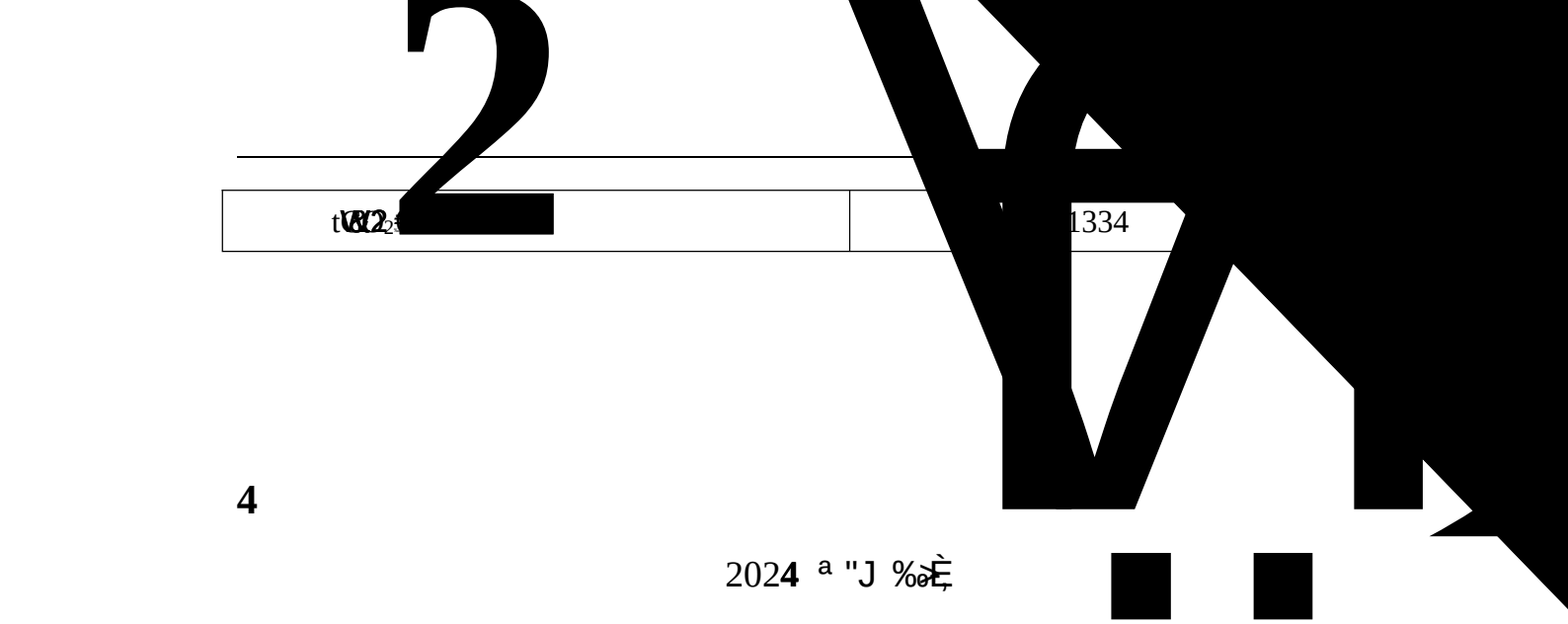
3.4.2.2 CO_2

1

3-7

	0.5366
	tCO_2/MWh

2022



t 2	1334

4

2024 ª "J ‰Ę

ă02 , o 2

5

1