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tCO_2			1334
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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.

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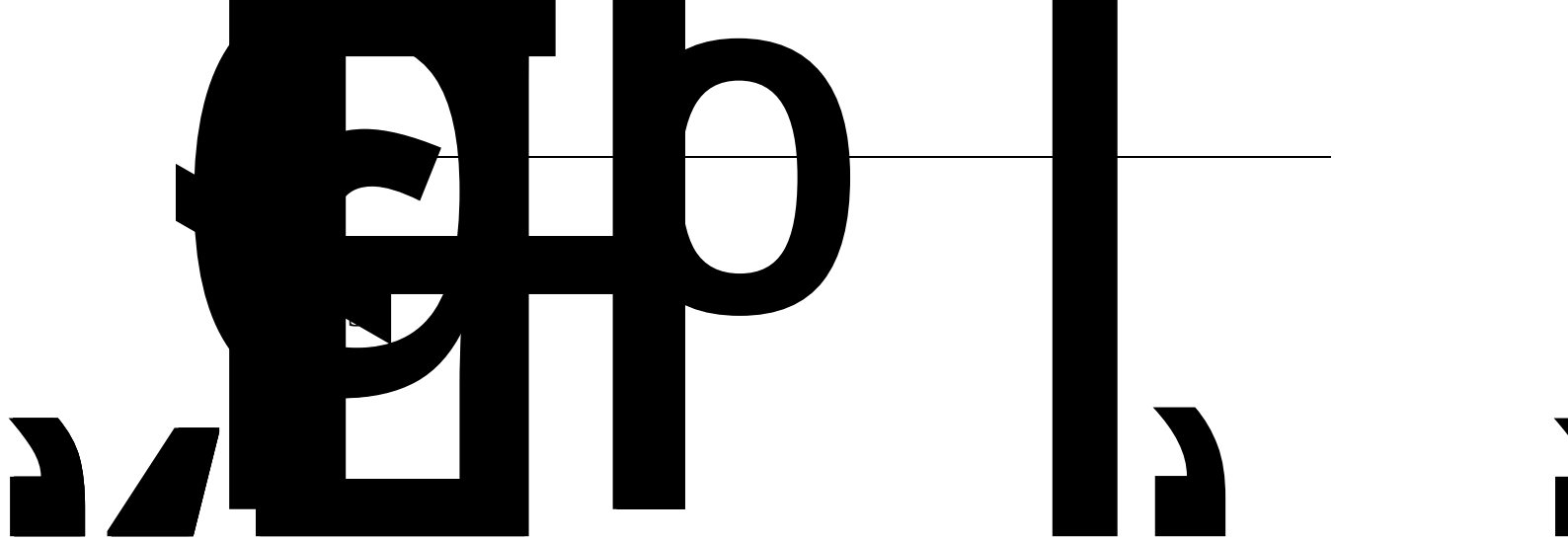

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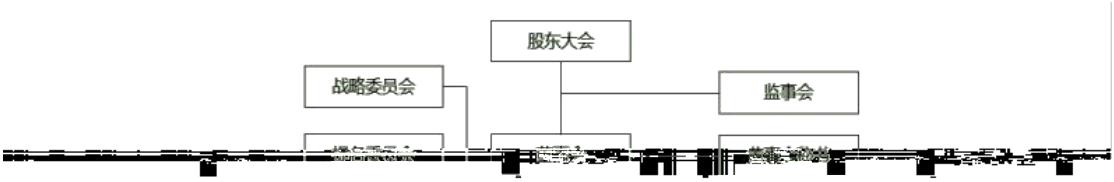

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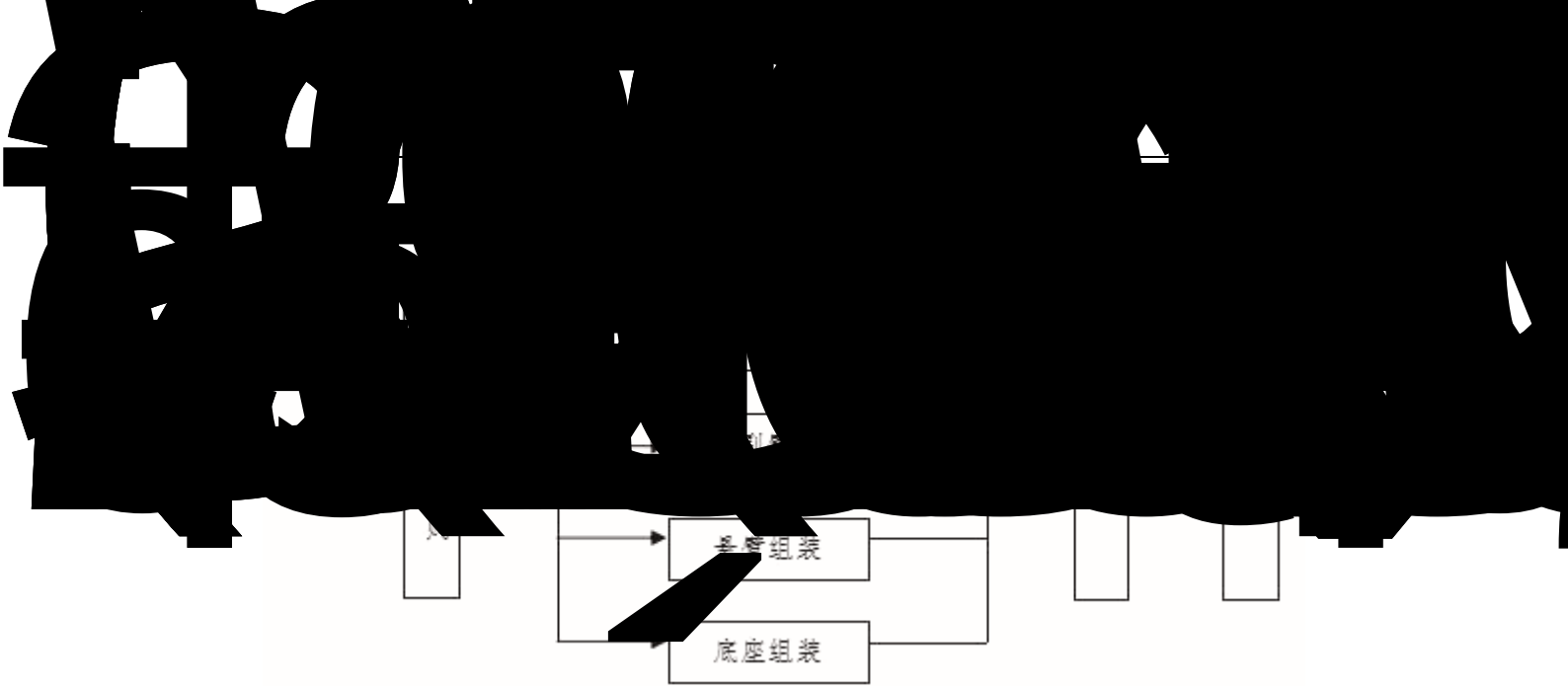
3.1.2



2

3.1.3

1

2

3.2

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

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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 i tC/GJ

OF_i i %

i

3.3.2 **CO_2**

CO_2

CO_2

$$E_{CO_2\_碳酸盐} = \sum_i (AD_i \times EF_i \times POR_i)$$

E_{CO2} CO_2 CO_2

i

%عی

3.3.3 CH_4

CH_4

$$E_{CH_4\_反水} = (TOW - S) \times EF_{CH_4\_反水} \times 10^{-3}$$

E_{CH4} CH_4

TOW COD

COD

S COD

ď COD

EF_{CH4} CH4 CH_4/

COD

3.3.4

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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

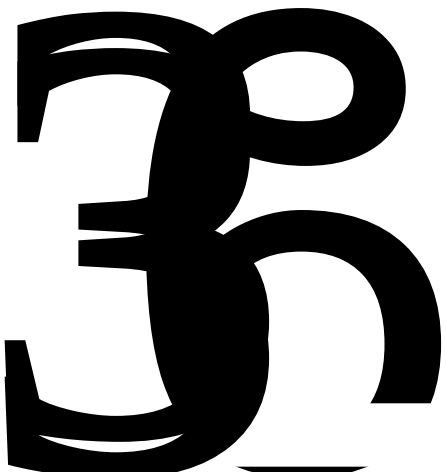
	0.5366
	tCO_2/MWh

2022

tCO_2	1334

4

2024



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