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		email	187 6390 6386
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		2024	
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	11
	4
1.1	4
1.2	4
1.3	4
	6
2.1	6
2.1.1	6
2.1.2	6
2.2	6
2.3	7
2.4	7
	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	13
3.4		

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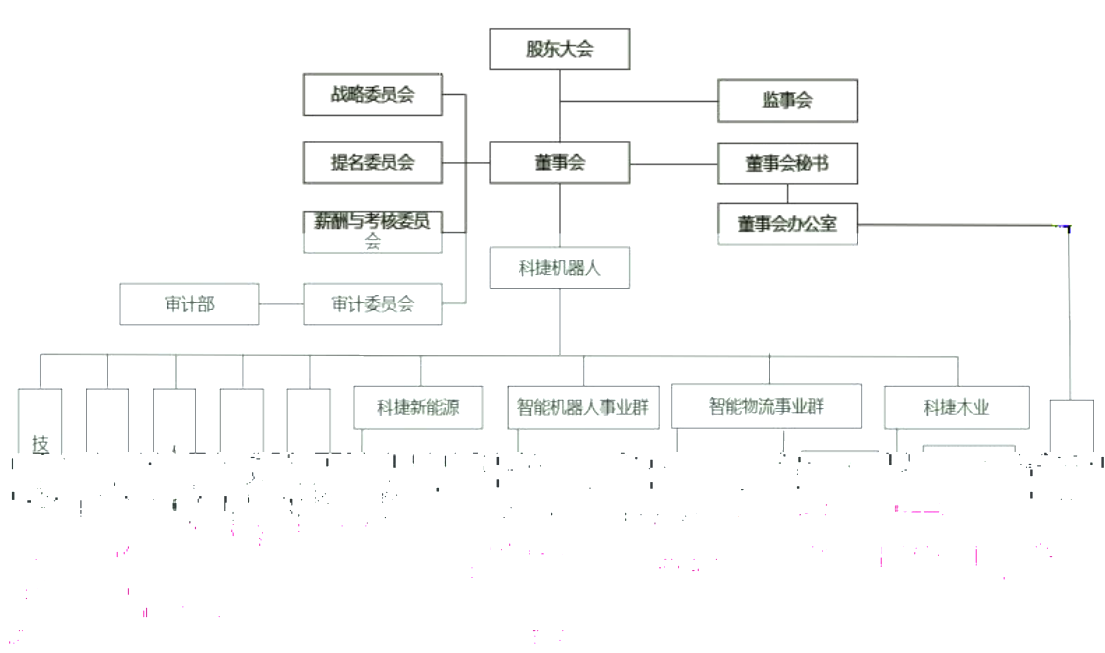
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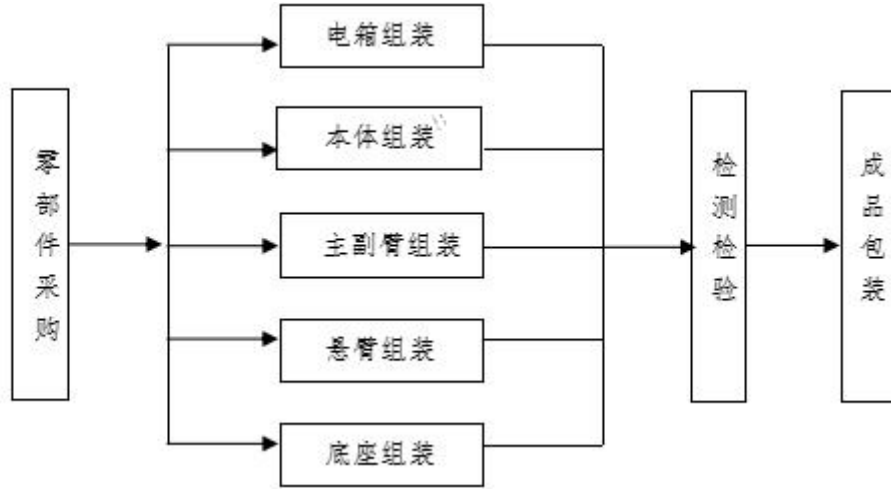
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Öff. $\phi = \phi$)æp = >

1		CO ₂		
2		CO ₂	/	/
3		CH ₄	/	/
4		CO ₂		
5		CO ₂	/	/

$$E_{GHG} = E_{CO_2\text{-燃烧}} + E_{CO_2\text{-碳酸盐}} + (E_{CH_4\text{-废水}} - R_{CH_4\text{-回收}}) \times GWP_{CH_4} - R_{CO_2\text{-回收}} + E_{CO_2\text{-净电}} + E_{CO_2\text{-净热}}$$

E_{GHG}

CO₂e

E_{CO_2}

CO₂

CO₂

E_{CO_2}

CO₂

CO₂

E_{CH_4}

CH₄

CH₄

R_{CH_4}

CH₄

CH₄

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

$$E_{CO_2} = \sum^n (AD_i \times EF_i)$$

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 tCO₂/GJ

CC_i i tC/GJ

OF_i i %

i

CO₂

CO₂

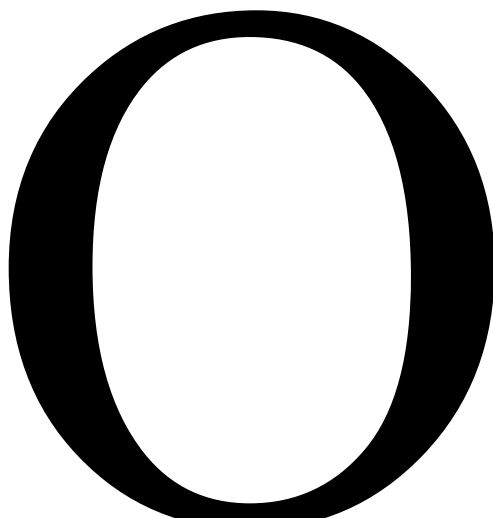
$$E_{CO_2 \text{ 排放量}} = \sum_i (AD_i \times EF_i \times PUR_i)$$

O E □
E_{CO₂}

CO₂

CO₂

i



CH₄

$$E_{CH_4_{\text{废水}}} = (TOW - S) \times EF_{CH_4_{\text{废水}}} \times 10^{-3}$$

E_{CH₄}

CH₄

TOW

COD

COD

S

COD

COD

EF_{CH₄}

CH₄

CH₄/

COD

EF
CO₂/GJ

/

CO ₂		
CO ₂		

	2024	0.86

	2024

	tC/GJ	%
	0.0202	99
	2024	

	0.5366
	tCO ₂ /MWh

05

tCO

1334

2024
