



**2024**



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2025 09 18

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/							
		19					
					15111991956		
		19					
					15111991956		
		5%					
/							
<input checked="" type="checkbox"/>		_____					
<input type="checkbox"/>		_____					
<input type="checkbox"/>		_____					
1					<input checked="" type="checkbox"/> _____		
2							
3		ISO 14064-1 2018					
4		GHG					
5							
6		GHG		2024 1 1		2024 12 31	
(tCO <sub>2</sub> e)	(tCO <sub>2</sub> e)	(tCO <sub>2</sub> e)	(tCO <sub>2</sub> e)	(tCO <sub>2</sub> e)	(tCO <sub>2</sub> e)	(tCO <sub>2</sub> e)	
466.78	5251.49	1493.55	20240.05	/	/	27451.87	
		2025 09 12					



	.....	<b>I</b>
<b>1</b>	.....	<b>4</b>
1.1	.....	4
1.2	.....	4
1.3	.....	4
1.4	.....	5
1.5	.....	5
<b>2</b>	.....	<b>5</b>
2.1	.....	5
2.1.1	.....	5
2.1.2	.....	5
2.2	.....	6
2.2.1	.....	6
2.2.2	.....	7
2.3	.....	8
2.4	.....	8
<b>3</b>	.....	<b>10</b>
3.1	.....	10
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3.3.1	.....	13
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<b>4</b>	.....	<b>26</b>
<b>5</b>	.....	<b>27</b>



# 1

## 1.1

GHG

GHG

GHG

GHG

GHG

GHG

GHG

## 1.2

### 1-1

	GHG
1	GHG
2	
GHG	
3	
4	
5	GHG
6	GHG
/ /	GHG
	CO <sub>2</sub> CH <sub>4</sub> N <sub>2</sub> O HFCs PFCs SF <sub>6</sub> NF <sub>3</sub>



	2024	1	1	2024	12	31
	2024					

### 1.3

ISO 14064-1 2018

ISO 14064-3 2019

1

2 2006 IPCC

2019

3 IPCC

4 2022

5

### 1.4

### 1.5

5%

## 2

### 2.1

#### 2.1.1

2-1 /

/

/




**2.1.2**

2-2 /

2025.8.11	
2025.8.21	
2025.9.12	/
2025.9.18	

**2.2**

**2.2.1**

1)

2) /

/

3)

4) GHG /

5) GHG GHG

6) GHG GHG /

7)

8)

9) GHG

10 GHG

1)



2024

2

3)

4) /

5)

CO<sub>2</sub> CH<sub>4</sub> N<sub>2</sub>O HFCs

GHG

GHG

6

CO<sub>2</sub> CH<sub>4</sub> N<sub>2</sub>O HFCs

7

8

GHG

9 GHG

10 GHG

### 2.2.2

ISO14064-3 2019



ISO14064-3 2019

6.1.2

1

GHG

2

1

GHG

2

3

GHG

4

2.3

2-3

	/	/	/
2025.8.21 9:00-9:15		/ / / / / / / / / / / / / /	
2025.8.21 9:15-9:30	➤ CCSC	/ / / / / / / /	



- 
- 
- 
-



		/ /	/QS /	
2025.8.21 16:00-16:30		/ / / / / / / / / /	/ / / / / / / / / /	
2025.8.21 16:30-17:00		/ / / / / / / / / /	/ / / / / / / / / /	
2025.8.21 17:00-17:30	➤ ➤ ➤	/ / / / / / / / / /	/ / / / / / / / / /	

## 2.4

ISO 14064-1:2018

ISO14064-3:2019

## 3

### 3.1

#### 3-1

	19



	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	91500000327722347H		400714	
			13231	
	2025-01-08			
	13231	100	2021	19

### 3.2 GHG

/

/

### 3-2

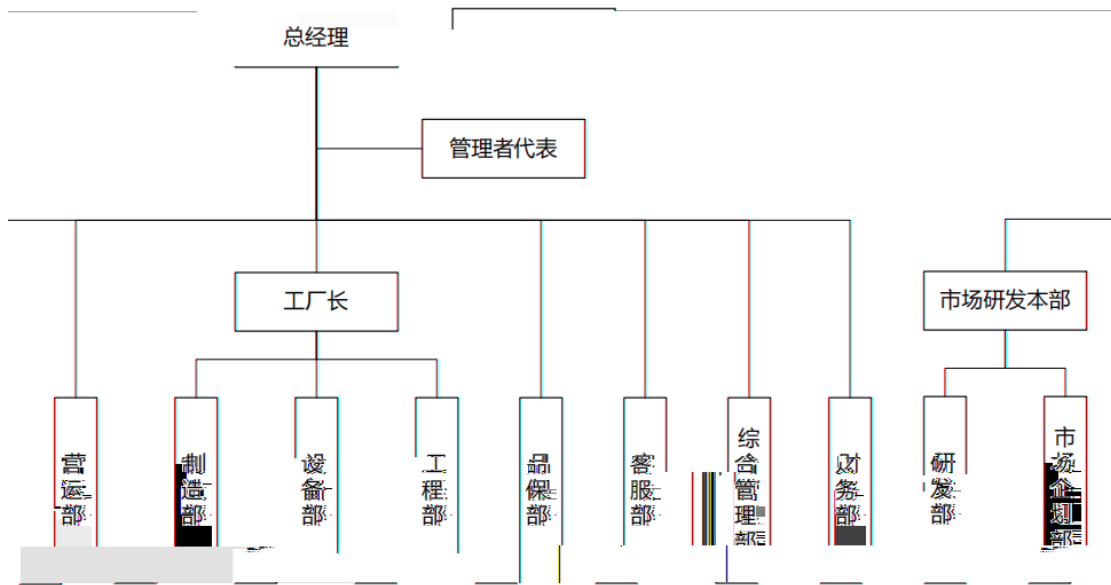
1		-	-	1	
2			2.5S	1	



3-3

1		GUWD-6A	5kW	1		
2		GUWD-6A+G WD-6A	5kW	1		
3		GUWD-6A+G WD-6A	5kW	2		
4		GUC-280MR-R 2R	25kW	2		
5		RPAALO514	19kW	1		
6		VIEWMAXL10 .12.3	3kW	1		
7			5kW	1		
8		E450i	450kW	1		
9		ZK1.75	150	4		

GHG



3-1 GHG



## **3.3 GHG**

### **3.3.1**



3-4

GHG						
	2.0761	m <sup>3</sup>		2024	2024	2.0761
			m <sup>3</sup>			
	4.87	t		2024	6666.13L	
			4.87t	0.73kg/L		
	0Tf7A63028					



	GHG						
		( 2t)					
		( 2t)		2465.00	t·km		
		( 2t)		260.00	t·km		
		( 2t)		420.00	t·km		
		( 2t)		125.00	t·km		
		( 2t)		200.00	t·km		
		( 10t)		7560000.00	t·km	2024	
				72000.00	.	2024 72000.00	2024
				1320000.00	.	2024 1320000.00	2024



	GHG							
				262800.00	.	2024 262800.00	2024	
				28	t	2024		
				756	t	2024		
				23905		2024		
				493	t	2024		
				260	t	2024		
				420	t	2024		
				125	t	2024		
				40	t	2024		
				1.311	t	2024		
			( 2t)		47.69	t·km	2024	
			( 8t)		50.87	t·km	2024	



3.3.2

2006 IPCC

2019

2023

GBT 2589-2020

2022

2024

33

CPCD

3-5

	CO <sub>2</sub> CH <sub>4</sub> N <sub>2</sub> O	GBT 2589-2020 2006 IPCC 2019 2.2	38931.00kJm <sup>3</sup> 56100kgCO <sub>2</sub> /TJ 1.0 kgCH <sub>4</sub> /TJ 0.1 kgN <sub>2</sub> O/TJ	
	CO <sub>2</sub> CH <sub>4</sub> N <sub>2</sub> O	GBT 2589-2020 2006 IPCC 2019 3.2.1& 3.2.2 2.2	43070 kJ/kg 69300kgCO <sub>2</sub> /TJ 25kgCH <sub>4</sub> /TJ 8kgN <sub>2</sub> O/TJ	
HFCs	HFCs	1	1.000kgHFCs/Kg	
	CH <sub>4</sub>	COD COD	0.010206 kgCH <sub>4</sub> / .	



		<p>325mg/L</p> <p>BOD/COD=0.43 BDO</p> <p>139.75mg/L</p> <p>179 / *d</p> <p>0.85 BOD</p> <p>=139.75*179*0.85/1000=</p> <p>21.2630g/ *d</p> <p>IPCC2019 6.3</p> <p>0.6kgCH4/kgBOD</p> <p>MCF 0.8</p> <p>=0.6*0.8*21.2630/1000=0.01020</p> <p>6kgCH4/ .</p>	
	CO <sub>2</sub>	<p>2022</p> <p>2024 33</p>	<p>0.5366</p> <p>tCO<sub>2</sub>/MWh</p>
( 2t)	CO <sub>2</sub>	CPCD	<p>0.286kgCO<sub>2</sub>e/(t·km</p> <p>)</p>
( 2t)	CO <sub>2</sub>	CPCD	<p>0.334kgCO<sub>2</sub>e/(t·km</p> <p>)</p>
( 8t)	CO <sub>2</sub>	CPCD	<p>0.115kgCO<sub>2</sub>e/(t·km</p> <p>)</p>
( 10t)	CO <sub>2</sub>	CPCD	<p>0.162kgCO<sub>2</sub>e/(t·km</p> <p>)</p>
	CO <sub>2</sub>	CPCD	<p>0.0555</p> <p>kgCO<sub>2</sub>e/(t·km)</p>



CO<sub>2</sub>



### 3.3.3

IPCC

3-6

	GWP
CO <sub>2</sub>	1
CH <sub>4</sub>	



## 3-7

	GHG				tCO <sub>2</sub>
				2.0761	m <sup>3</sup> 4.53
				4.87	t 15.15



GHGI 0307R01

	<b>GHG</b>				<b>tCO<sub>2</sub></b>
--	------------	--	--	--	------------------------



1

1 3 6

3-9

**3-9**

	6
/	3
	1

2

6

5 4 3 2 1

3-10

**3-10**

/	6
/	5
	4
	3
	2
	1

3

6 3 1

3-11

**3-11**

1.	1
2.	3
3.	6



4							
		5.0	5.0	4.0			
4.0	3.0	3.0	2.0		2.0		
						3.143	
			3-12				
		3-12					
1		6	2	3	3.67	0.02%	0.0006
2		3	2	6	3.67	0.06%	0.0020
3		3	6	6	5.00	1.57%	0.0787
4		1	3	1	1.67	0.06%	0.0009
6		6	3	6	5.00	19.13%	0.9565
7		3	2	3	2.67	0.01%	0.0001
8		3	2	3	2.67	4.46%	0.1190
9		1	2	3	2.00	0.97%	0.0195
10							



### 3.3.6

2024 27451.87tCO<sub>2</sub>e  
27451.87tCO<sub>2</sub>e 0

### 3.4

ISO 14064-1

2018 ISO 14064-3 2019

a)

GHG

b)

GHG

c)

d)

e)2024

### 3.5 GHG

GHG

a)

5%

b)

GHG

GHG





# 5

## 1

		/	/	/
NC1				

## 2

1.	
2.	
3.	
4.	
5.	24 12
6.	24 12
7.	
8.	
9.	
10.	
11.	
12.	
13.	
14.	
15.	2024 /
16.	2024 /
17.	2024
18.	
19.	