2025JNAH00063

2024

2025-09-18

/			
	19		
			15111991956
	19		
			15111991956
		5%	

/

☒
□
□

1 ☒
2
ISO 14064-1 2018
3
4 GHG
5
6 GHG 2024 1 1 2024 12 31

(tCO_2e)	(tCO_2e)	(tCO_2e)	(tCO_2e)	(tCO_2e)	(tCO_2e)	(tCO_2e)
466.78	**5251.49**	**1493.55**	**20240.05**			**27451.87**

	2025 09 12		

1概述

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_2 CH_4 N_2O HFCs PFCs SF_6 NF_3

	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 /

	/
	/

2024

2

3)

4) /

5)

CO_2 CH_4 N_2O HFCs

GHG

GHG

6 CO_2 CH_4 N_2O 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		/ / / / / / / / / / / /QS / /	
2025.8.21 9:15-9:30	➢ CCSC ➢ ➢	/ / / / / / / / / /	

	➢ ➢ ➢ ➢	/ /QS / /	
2025.8.21 9:30-10:00		/ / / / / /	
2025.8.21 10:00-11:00		/ / / / / / / / / / / /QS / /	
2025.8.21 11:00-12:00	- - GHG	/ / / / / / / / / / / /QS / /	
2025.8.21 11:00-12:00	- - GHG	/ / / / / / / / / / / /QS / /	
2025.8.21 13:30-16:00		/ / / / / / / / / / / /QS / /	
2025.8.21 13:30-16:00		/ / / / / / / / / /	

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

2.4

ISO 14064-1:2018

ISO14064-3:2019

3

3.1

3-1

	19

	□ □ □		
	91500000327722347H		400714
			13231
	2025-01-08		
	2021 19 13231 100		

3.2 GHG

/

/

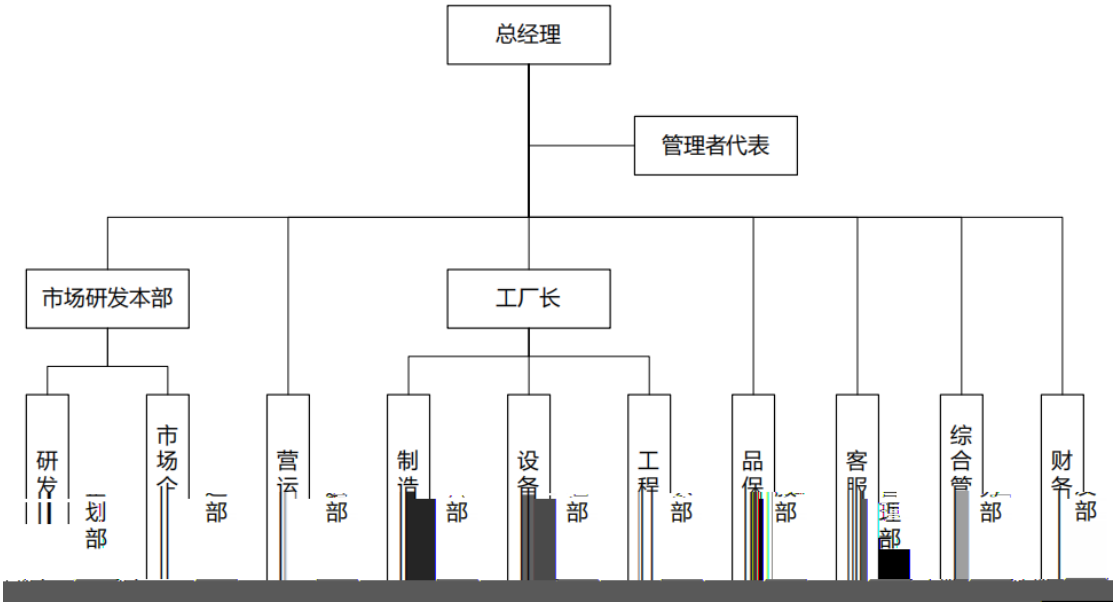
3-2

1		-	-	1	
2			2.5S	1	

3-3

1		GUWD-6A	5kW	1		
2		GUWD-6A+GWD-6A	5kW	1		
3		GUWD-6A+GWD-6A	5kW	2		
4		GUC-280MR-R2R	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

	GHG				
			2.0761	m^3	2024 2024 2.0761 m^3
			4.87	t	2024 6666.13L 0.73kg/L 4.87t
			0.12	t	2024 2024 120kg
		CH_4	53026	.	2024 2024 53026 .
			9786.600	MWh	9786.600MWh
		(2t)	28.00	t·km	2024 (2t)
		(2t)	756.00	t·km	
			55.00	t·km	

	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

3.3.2

2006 IPCC

2019

2023

GBT 2589-2020

2022 2024 33

CPCD

3-5

	CO_2 CH_4 N_2O	GBT 2589-2020 2006 IPCC 2019 2.2	38931.00kJm^3 56100kgCO_2/TJ 1.0 kgCH_4/TJ 0.1 kgN_2O/TJ	
	CO_2 CH_4 N_2O	GBT 2589-2020 2006 IPCC 2019 3.2.1& 3.2.2 2.2	43070 kJ/kg 69300kgCO_2/TJ 25kgCH_4/TJ 8kgN_2O/TJ	
HFCs	HFCs	1	1.000kgHFCs/Kg	
	CH_4	COD COD	0.010206 kgCH_4/ .	

		325mg/L BOD/COD=0.43 BDO 139.75mg/L 179 / *d 0.85 BOD =139.75*179*0.85/1000= 21.2630g/ *d IPCC2019 6.3 0.6kgCH4/kgBOD MCF 0.8 =0.6*0.8*21.2630/1000=0.01020 6kgCH_4/		
	CO_2	2022 2024 33	0.5366 tCO_2/MWh	
(2t)	CO_2	CPCD	0.286kgCO_2e/(t·km)	
(2t)	CO_2	CPCD	0.334kgCO_2e/(t·km)	
(8t)	CO_2	CPCD	0.115kgCO_2e/(t·km)	
(10t)	CO_2	CPCD	0.162kgCO_2e/(t·km)	
	CO_2	CPCD	0.0555 kgCO_2e/(t·km)	

	CO_2	CPCD	0.1667 $kgCO_2e/(t·km)$	
	CO_2	CPCD	0.16496 $kgCO_2e/(t·km)$	
	CO_2	CPCD	1.370 tCO_2/t	
	CO_2	CPCD	6.800 tCO_2/t	
	CO_2	CPCD	0.0376 $tCO_2/$	
	CO_2	CPCD	5.410 tCO_2/t	
	CO_2	CPCD	4.030 tCO_2/t	
	CO_2	CPCD	4.030 tCO_2/t	
	CO_2	CPCD	4.030 tCO_2/t	
	CO_2	CPCD	4.030 tCO_2/t	
	CO_2	CPCD	0.189 tCO2/t	

3.3.3

IPCC

3-6

		GWP
	CO_2	1
	CH_4	

3-7

	GHG					**tCO_2**
				2.0761	m^3	4.53
				4.87	t	15.15

	GHG					tCO_2
				262800.00	.	43.35
				28	t	38.36
				756	t	5140.80
				23,905		8988.15
				493	t	2667.13
				260	t	1047.80
				420	t	1692.60
				125	t	503.75
				40	t	161.20
				1.311	t	0.25
		(2t)		47.69	t·km	0.00
		(8t)		50.87	t·km	0.01

GHG

3-8

							(tCO_2e/a)
CO_2	19.07	5251.49	1493.55	20240.05	0.00	0.00	27004.16
CH_4	15.25	0.00	0.00	0.00	0.00	0.00	15.25
N_2O	0.46	0.00	0.00	0.00	0.00	0.00	0.46
HFCs	432.00	0.00	0.00	0.00	0.00	0.00	432.00
(tCO_2e/年)	466.78	5251.49	1493.55	20240.05	0.00	0.00	27451.87

3.3.5

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	2	3	2.67	73.73%	1.9661
11		3	2	3	2.67	0.00%	0.0000
		3.143					

3.3.6

2024 27451.87tCO_2e

27451.87tCO_2e 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

c)

d)

e)

2024

4

1 ☒

2

ISO 14064-1 2018

3

4 GHG

5

6 GHG GH24

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.	