



W-08-24-1201



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86

219

11 4 1

2023

863.45 tCO₂e

1 7%

58.76 tCO₂e

2 93%

804.69 tCO₂e

ISO 14064-1:2018

1

2023

2024 12 9



1.	.....	3
2.	.....	3
3.	.....	4
3.1	.....	4
3.2	.....	4
3.3	.....	4
4.	.....	5
4.1	.....	5
4.2	.....	5
5.	.....	5
5.1	.....	5
5.2	.....	6
5.3	.....	6
5.4	.....	6
6	.....	6
7	.....	7
7.1	.....	7
7.2	.....	7
7.3	.....	8
8	.....	8
8.1	.....	8
8.2	.....	8
8.3	.....	8



1.



2003 2 26

91320623746837843F

86

219

11 4 1

JP

2.

“

”



W-08-24-1201

4

9

3.

3.1

2023 1 1 2023 12 31

3.2

86 219
11 4 1
“ GHG ”

3.3

1

GHG

CO₂

2

GHG

3

GHG

GHG

1



4.

4.1

N₂O

HFCs

PFCs

SF₆

CO₂

NF₃

CH₄

4.2

ISO 14064-1

GHG

*

GHG

0.1%

5.

5.1

2023

1

1

2023

12

31

2023

219

86

11

4

1

GHG

1

2

1

	kg	1941.20
R22	kg	48.68
R32	kg	30.10
R410A	kg	946.00

2

MWh	
1997.96618	9006



5.2

CO₂

100

5.3

Ecoinvent 3

IPCC 2006

2019

()

2

2024 2

2023

PAS 2060-2014

5.4

3 Ecoinvent 3-allocation at point of substitution – system

Diesel, low-sulfur {GLO}| market group for | APOS, S
Electricity, medium voltage {CN}| market group for | APOS, S
Petrol, 5% ethanol by volume from biomass {GLO}| market for | APOS, S
Tap water {GLO}| market group for | APOS, S

6

GHG	GHG Total	863.45	tCO ₂ e	100%
1-	Scope1-Process Emissions	58.75		6.80%
1-	Scope1-Vehicle activity fuel	0.01		0.00%
2-	Scope2-Electricity	803.18		93.03%
2-	Scope2-Water	1.51		0.17%



7

GHG

7.1

GHG

7.1

4-1

	6	3	1

4-2

	6	5	4	3	2	1
	/	/	/			

4-3

	6	3	1

7.2

- ≥ 5.0

4.0 ≤ DL 5.0

3.0 ≤ DL 4.0

2.0 ≤ DL 3.0

2.0



7.3

5

1-	6.80%	1	1	3
1-	0.00%	3	2	3
2-	93.02%	6	1	6
2-	0.17%	6	2	6

4.15

8

8.1

GHG

2023

GHG

GHG

8.2



W-08-24-1201

9

9



