

20230010

2023 4 28



1.	3
1.1.	3
1.1.1.	3
1.1.2.	3
1.1.3.	3
1.2.	3
1.2.1.	3
1.2.2.	4
1.2.3.	4
1.2.4.	4
1.2.5.	5
1.2.6.	5



6

3.		6
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1.

1.1.

1.1.1.

H1Z2Z2-K,62930 IEC 131,PV1-F

1.5kV

1C 1.5 240mm²,2C 4 6mm²

1.5kV

H1Z2Z2-K

1.5kV

1C 1.5 240mm²

H1Z2Z2-K 1.5kV 1× 4

1.1.2.

1km

1.1.3.

1 2022

2

1.2.

1.2.1.

- - - -

1.2.2.

- 1% 0.1%
- 5%
-
-

1.2.3.

1.2.4.

kg CO ₂ eq.	CO ₂ , CH ₄ , N ₂ O...
M	...
kg Sb eq.	...
kg	...
kg SO ₂ eq.	SO ₂ , NO _x , NH ₃ ...
kg PO ₄ ³⁻ eq.	NH ₃ , NH ₄ -N, COD...
kg PM _{2.5} eq.	CO, PM ₁₀ , PM _{2.5} ...
kg CFC-11 eq.	CCl ₄ , C ₂ H ₅ Cl ₃ , CH ₃ Bm

1.2.5.

LCA

CLCD

CLCD

[]	(0.07-0.1m m)	09203614@ cumt.edu.cn 1.0
[]	()	CLCD-Chin a-ECER 0.8
[]	()	lcacontest-s- o20p@ike-gl obal.com 1.0
[]	()	caixr7@mail 2.sysu.edu.c n 1.0
[]	6 LCA ()	jingjingliu25 @163.com 1.0

2.

2.1. \hat{I}

3.

3.1. LCA

LCA (GWP) (AP) (POFP)	eFootprint (PED) (EP)	1km (RI)	LCA (ADP) (ODP)	(WU)
LCA				
				LCA
GWP		kg CO2 eq	1407.53	
PED		M	2.32E+04	
ADP		kg anti mony eq.	0.16	
WU		kg	5.44E+06	
AP		kg SO2 eq	6.73	
EP		kg PO43- eq	0.89	
RI		kg PM2.5 eq	2.09	
ODP		kg CFC-11 eq	1.23E-05	
POFP		kg NWOC eq	0.96	

3.2.

LCA								
GWP	PED	ADP	WU	AP	EP	RI	ODP	POFP
1407.53	2.32E+04	0.16	5.44E+06	6.73	0.89	2.09	1.23E-05	0.96

3.3.

0.5%

GWP	PED	ADP	WU	AP	EP	RI	ODP	POF P
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74.16 %	72.15 %	0.92%	99.7%	81.93 %	71.35 %	82.67 %	23.99 %	45.21 %
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10.61 %	13.91 %	98.55%	0.28%	1.89 %	19.28 %	0.84 %	10.77 %	1.53 %
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3.28 %	3.93 %	0.14%	0.01%	2.25 %	1.58 %	3.38 %	44.77 %	35.68 %
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11.06 %	8.77 %	0.06%	0.01%	13.06 %	6.15 %	12.53 %	3.23 %	6.77 %
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0.79	1.09	0.33%	1.36E-04	0.61	1.29	0.42	14.68	2.91
%	%		%	%	%	%	%	%

-

0.07	0.08	4.13E-03	3.17E-05	0.15	0.19	0.09	1.39	4.31
%	%	%	%	%	%	%	%	%

8t

-

0.04	0.05	2.48E-03	1.9E-05	0.09	0.12	0.06	0.84	2.58
%	%	%	%	%	%	%	%	%

8t

-

0.02	0.02	9.99E-04	7.67E-06	0.04	0.05	0.02	0.34	1.04
%	%	%	%	%	%	%	%	%

8t

-0.04	-0.02	-0.01%
%	%	

0% 0% 0% 0% 0% 0% 0% 0% 0%

4.

4.1.

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4.2.

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* = * /
* = +

4.3.

CLCD

eF

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	LCA		95%
GWP(kg CO2 eq)	1.408E+003	4.46 %	