

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



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$\tilde{n}$

3.		$\tilde{n}$
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$\tilde{n}$

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...
MJ	, , ...
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 ₃ 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.

3.

3.1.LCA

LCA	eFootprint	1km	LCA
(GWP)	(PED)		(ADP)
(AP)	(EP)	(RI)	(ODP)
(POFP)			
.			
LCA			
LCA			
GWP	kg C02 eq	1407.53	
PED	MJ	2.32E+04	
ADP	kg antimony eq.	0.16	
WU	kg	5.44E+06	
AP	kg S02 eq	6.73	
EP	kg P043-eq	0.89	
RI	kg PM2.5 eq	2.09	
ODP	kg CFC-11 eq	1.23E-05	
POFP	kg NMVOC 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
	74.16 %	72.15 %	0.92%	99.7%	81.93 %	71.35 %	82.67 %	23.99 %	45.21 %
	10.61 %	13.91 %	98.55%	0.28%	1.89 %	19.28 %	0.84 %	10.77 %	1.53 %
	3.28 %	3.93 %	0.14%	0.01%	2.25 %	1.58 %	3.38 %	44.77 %	35.68 %
	11.06 %	8.77 %	0.06%	0.01%	13.06 %	6.15 %	12.53 %	3.23 %	6.77 %

	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	0
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	LCA		95%
GWP(kg CO2 eq)	1.408E+003	4.46 %	