B-2021-142924161-01

2021

2022 4 29

			1
		email	13819912043 962967061@qq.com
■ □ / / / email /			
		2740	
/		A-2021-142924161-01/2022	4 11
/		A-2021-142924161-02/2022	4 29

0tCO_2e 1897.73tCO_2e CH_4 0tCO_2e CO_2

0tCO_2e 10997.68 tCO_2e

18636.69 tCO_2e 31689tCO_2e

2021

.....6
1.1 6
1.2 6
1.3 7
.....9
2.1 9
2.2 9
2.3 10
2.4 11
.....12
3.1 12
3.1.1 12
3.1.2 14
3.1.3 18
3.1.4 19
3.2 19
3.2.1 19
3.2.2 20
3.3 21
3.3.1 **CO_2** 21
3.3.2 **CO_2** 22
3.3.3 **CH_4** 22
3.3.4 CH_4 22
3.3.5 CO_2 24
3.3.6 **CO_2** 24
3.4 25
3.4.1 25
3.4.2 33

3.4.3 35

3.4.4 39

3.5 39

3.6 39

3.7 40

.....41

4.1 41

4.2 41

4.2.1 41

4.2.2 42

4.3 42

4.4 42

.....43

1 43

2 44

3 45

1.1

17

2014 63

2016 57

(2021 9)

(“ ”)

“ ” **2021**

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1.2

- 2021

1

1 CO_2

2 CO_2

3 CH_4

4 CH_4

5 CO_2

6

- 2021

1.3

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“ ”

- (2021 9)

-
- 17
- “ ” [2016]61
- MRV - /
-
- GB/T2589-2020
- GB17167-2006

2.1

2-1

	18721914620	1 2 3 4 5	
	18676625841	1 2 3	
	15057120365		

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2022 4 18 2021

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2022 4 21

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4 21				- -
4 21				- - - -

2.4

2022

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2022 4 29

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3.1.1

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- 0579-88271217

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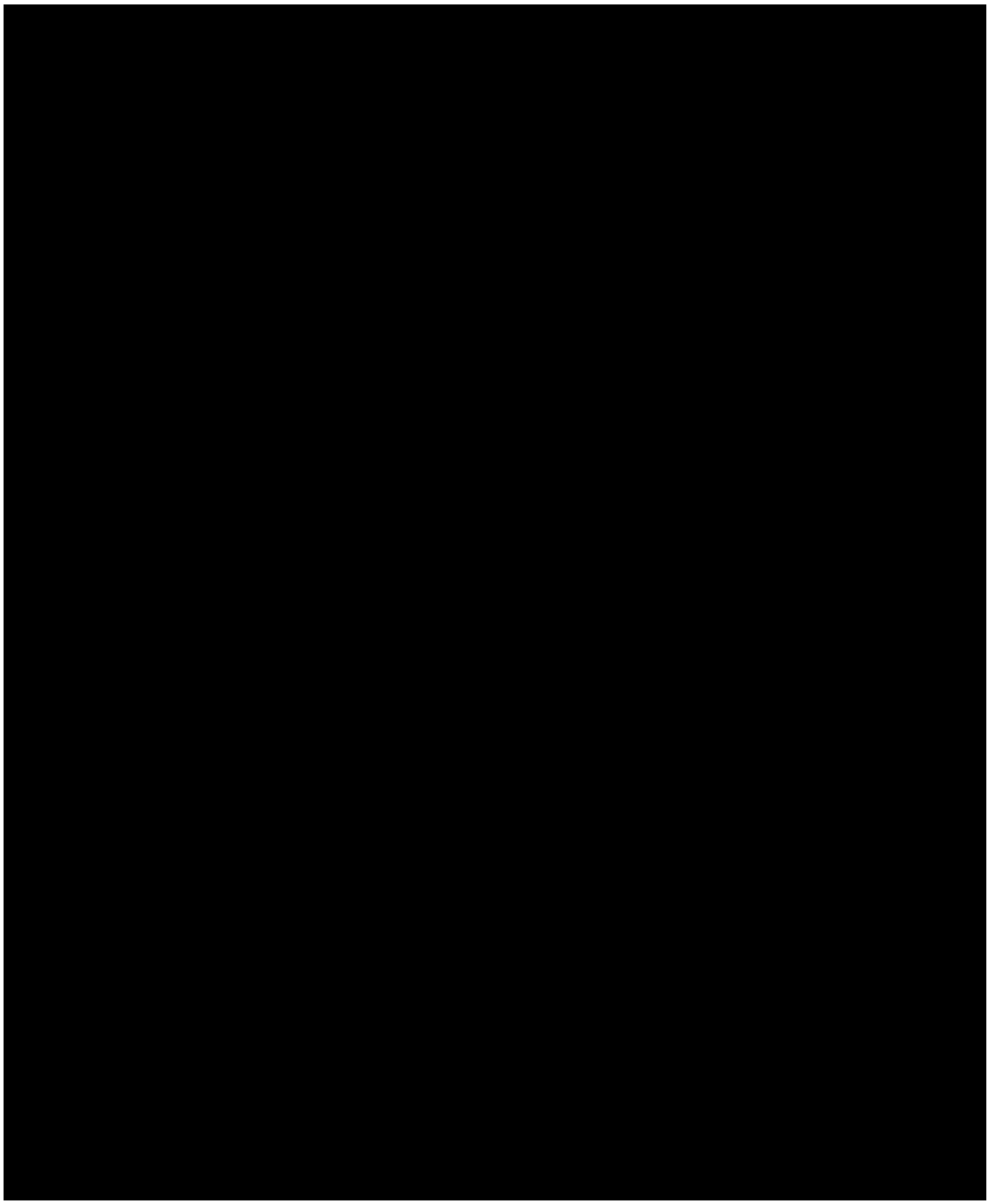
浙江蓝天
电缆有限公司
小周轮胎店
溪沿
康恩贝集团医...
益康医药
普药营销中心
村门口盘盘香
农家乐土菜馆
浙江康恩贝
制药总厂
康恩贝
金华英特医药
物流有限公司

3.1

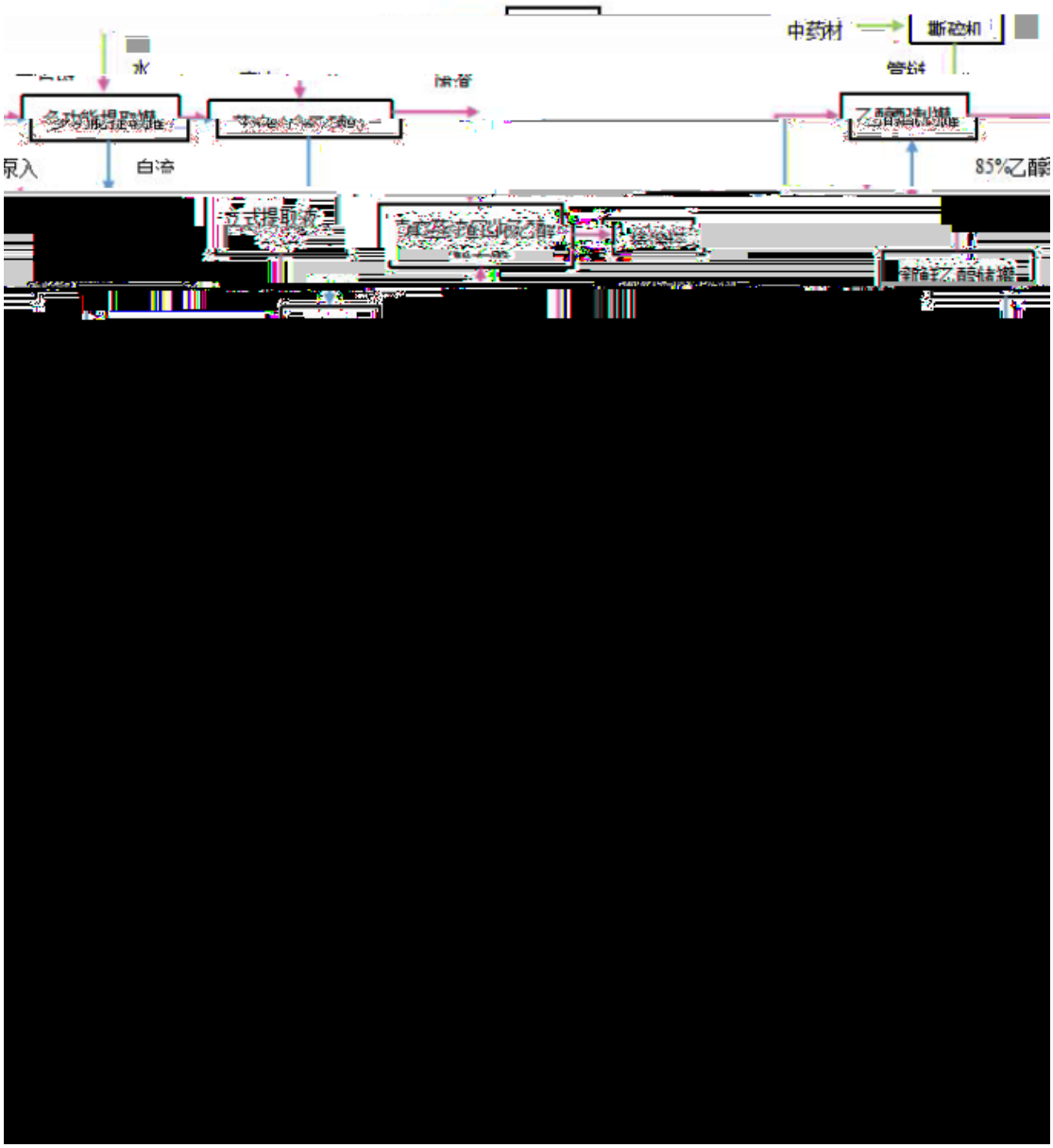
3.2

3.1.2

2.



3.



3.3

2

3-1

		/		
1		HLS400	2	48kW/
2	—		2	48.5kW/

3		FG300	1	37kW
4		KPU-40EPH	1	105kW
5		DSZG-1300BQ	1	67
6		SZA620	1	70
7		ASMR620/38	1	46.55
8		SZA600/43	1	51
9		CG/B75-60M-B	1	75KW
10		LW450*1800-N	2	37KW/
11		SSR150HB	3	30KW/
12		TH-90L	1	9KW
13		KFR-26GW	48	2kW/
14		KFR-356GW	78	2.5kW/
15		KFR-50LW	21	3.96W/
16		TC-50	3	40KW
17		ZXTZ40	1	0.1KW
18		CSA2H3000D	1	67KW
19		CYJ900	1	50KW
20		SQW-100DF	1	30KW
21		TQ6	10	7.5kw/
22		JB-16-D	2	5.5kw/
23		BVD6-38	1	65KW
24		LPG-5	1	162.5KW
25		TQ6/6m³	16	7.5kw/
26		2000L/h	4	
27		1000L/h	2	11.9kw/
28		600	2	
29		800	4	
30		BVD690	1	82KW
31		200I×280-32	7	37KW
32		CM132BV	1	132KW
33		SM200BV	1	200KW
34		KQW200/370	1	55KW
35		KQW200/345	2	45KW
36		CM110BV	1	110KW
37		IX125-380	2	37KW
38		KQW150/400-45/4	3	45KW
39		KQW250/315-75/4	5	75KW
40		KQW150/400-45/4T	2	45KW
41		KQW200-370-55/4	6	55KW
42		AA2-75W	1	75KW
43		RTHDD3D2E2	3	234.7KW

44		30HXC	1	252KW
45		TCA201CH	12	20.5KW
46		RTHDD3G2G1	1	217.7KW
47		LSBLX350SVE	2	194KW
48		LSBLX275SVE	2	160KW
49		CC510MH2JH2	1	288.2KW
50		SG10-1250/10-0.4	1	
51		SG10-1600/10-0.5	1	
52		SCB10-1600	1	
53		SCB10-630kva	1	
54		SCB10-1000/10	2	
55			2	
56		CM110PV	1	110KW
57		LSQWRF130/C	6	231KW

3

3-2

				/			
1		XS2	/	1-600g			
2		DY200	/	1.5			
3		EJA430A 0~1.6 Mpa	/	/		/	
4		VX2404R	/	0.5			
5		DSZ532	/	0.2s			.5

3-3

60s/120s/150s (kg)	414209.85
19.2mg 4.8mg(kg)	92188.4
(kg)	79830.84

3.1.4

2021

2021 3968532 63488.1 18520.1

2020

3.2

3.2.1

1

3.4

3.2.2

3-4

	-	-	-	1
CH_4				2
CH_4	-	-	-	3
CO_2	-	-	-	

CO_2				

1

2 Fe/C

EGSB MBBR

3 CH_4 CO_2

3.3

$$E_{KLK} = E_{GS6} + E_{GS6} + @E_{GL8} \quad FR_{GL8} \quad A \times GWP_{GL8}F$$

$$R_{GS6} + E_{GS6} + E_{GS6} \qquad 1$$

E_{GHG} CO_2 tCO_2e

E_{CO2-} CO_2

E_{CO2-} CO_2

E_{CH4-} CH_4

R_{CH4-} CH_4

GWP_{CH4} CH_4 CO_2 (GWP 21

R_{CO2-} CO_2

E_{CO2-} CO_2

E_{CO2-} CO_2

3.3.1 CO_2

$$E_{GS6} = \tilde{A}_g(AD_g \times CC_g \times OF_g \times \frac{88}{56}) \qquad 2$$

E_{CO2-} CO_2 tCO_2

i

AD_i i t Nm^3

CC_i i tC/t tC/ Nm^3

OF_i i %

3.3.2 CO_2

$$E_{GSCO2} = \tilde{A}_g(AD_g \times EF_g \times PUR_g) \quad 3$$

E_{GSCO2} CO_2 CO_2

i

AD_g i

EF_g i CO_2 CO_2/ i;

PUR_g i

3.3.3 CH_4

$$E_{GLCH4} = TOW\ FS \times EF_{GLCH4} \times 10^{-7} \quad 4$$

E_{GLCH4} CH_4

TOW COD

, COD

S COD

, COD

EF_{GLCH4} CH_4 CH_4/ COD

3.3.4 CH_4

$$R_{GLCH4} = R_{GLCH4} + R_{GLCH4} + R_{GLCH4} \quad 5$$

R_{GL8} CH_4 CH_4

R_{GL8} CH_4 CH_4

R_{GL8} CH_4 CH_4

$$R_{GL8} = D \times Q \times PUR_{GL8} \times 7.17 \quad 6$$

D %

Q CH_4 Nm^3

PUR_{GL8} CH_4

7.17 CH_4 CH_4

$$R_{GL8} = Q \times PUR_{GL8} \times 7.17 \quad 7$$

Q CH_4 Nm^3

PUR_{GL8} CH_4

7.17 CH_4 CH_4

R_{GL8} CH_4

$$R_{GL8} = \text{Þ} \times \tilde{A}_f \left(\frac{J V \times Z \ddot{} \wedge}{6\ 68} \times 16 \times 10^{?7} \right) \quad 8$$

Þ CH_4 %

H

h

FR_f Nm^3/h

0 101.325KPa

$\ddot{}_f$ CH_4 %

22.4 N "

3.3.5 CO_2

R_{GS0} = Q × PUR_{GS0} + Q × PUR_{GS0} × 19.77 9

R_{GS0} CO_2 CO_2

Q CO_2 Nm^3

PUR_{GS0} CO_2 CO_2 0~1

Q CO_2 Nm^3

PUR_{GS0} CO_2 CO_2

0~1

19.77 CO_2 CO_2/ Nm^3

CO_2

3.3.6 **CO_2**

$$E_{GS0} = AD \times EF \quad (10)$$

$$E_{GS0} = AD \times EF \quad (11)$$

E_{CO2-} CO_2 tCO_2

E_{CO2-} CO_2 tCO_2

AD MWh

AD GJ

EF CO_2 tCO_2/ MWh

EF CO_2 tCO_2/ GJ

3.4

/

3-5 **/**

	-	-
CH_4	COD	Bo MCF
CH_4	-	-
CO_2	-	-
CO_2		

3.4.1

3.4.1.1

3-6

	/	
	7.15	7.15
	t	

	7.15

3-7 **t**

1	0
2	0
3	1.98
4	0
5	0
6	1.59
7	0
8	0
9	0
10	1.95
11	0
12	1.63
t	**7.15**

3.4.1.2

3-8

	/	
	28.01	28.01
	t	

	28.01

3-9 **t**

1	0
2	0
3	6.38
4	0
5	0
6	7.53
7	0
8	0
9	0
10	8.3
11	0
12	5.8
t	**28.01**

3.4.1.3

3-10

	/	
	21606	21606
	m^3	

	21606 m^3

3-11 m^3

1	2077
2	1513
3	1862
4	2413
5	1626
6	1652
7	1993
8	1498
9	1850
10	1233
11	1803
12	2086
m^3	**21606**

3.4.1.4

3.4.1.5

3-12

	m^3	**COD_{in} (kgCOD/m^3**	**COD_{out} (kgCOD/m^3**	**(kgCOD)**
	/	/	/	/

	141462	5.09	1.9	0
	COD			
	COD			
	1 COD COD 2 141462 m^3			

3-13 COD_{in} COD_{in}

		COD_{in}	COD_{out}
	m^3	$kgCOD/m^3$	$kgCOD/m^3$
1	16805	5.09	1.9
2	6431		
3	13277		
4	20733		
5	17854		
6	17367		
7	16442		
8	2342		
9	5482		
10	2084		
11	8425		
12	14220		
/	141462	5.09	1.9

3.4.1.6 CH_4

CH_4

3.4.1.7 CO_2

CO_2

3.4.1.8

3-14

	15632.810	15632.810
	MWh	

	A	B	C=A-B
1	1290560	28184	1262376
2	718920	5884	713036
3	1183000	15580	1167420
4	1569240	35871	1533369
5	1601440	53262	1548178
6	1786960	58119	1728841
7	2154400	89850	2064550
8	1046720	86071	960649
9	1651520	90703	1560817
10	570080	58427	511653
11	1266840	26916	1239924
12	1361760	19761	1341999
kwh	16201440	568628	15632812
MWh	16201.4400	568.6300	15632.8100

3.4.1.9

0.7MPa, 200

EasyQuery V2.6

2843.86kJ/kg

3-16

	MPa	kJ/kg
200	0.7	2843.86

3-17

	169424.45	169424.45
	GJ	
	VX2404R 0.5	
	100%	

1 62262

62261 0.0013%

Ä Å

876 = - 61383

3 0.7MPa, 200

EasyQuery V2.6

2843.86kJ/kg

$AD_{:ë"-}$ Ma_{st} u En_{st} -83.74 u 10^{-3}

169424.45GJ

6	7089	7353	9	7080
7	6150	4809	55	6095
8	865	1144	78	787
9	2579	2642	129	2450
10	651	1543	55	596

1159 596 15956j 1.489 0 Td ( )Tj EMC /P <</MCID 30 >>BDC 7.4723 0 Td (596)Tj664489 0 T

		GJ/t	tC/GJ	%
		43.33	0.0202	98
		GJ/t	tC/GJ	%
		43.33	0.0202	98
	2021			

3.4.2.3

		GJ/t	tC/GJ	%
		389.31	0.0153	99
		GJ/t	tC/GJ	%
		389.31	0.0153	99
	2021			

3.4.2.4 Bo MCF

	Bo MCF		
		Bo kgCH4/COD	MCF
		0.25	0.8
		Bo kgCH4/COD	MCF
		0.25	0.8

	2021 Bo MCF

3.4.2.5

	tCO_2/MWh	tCO_2/MWh
	0.7035	0.7035
	2012	
	2012	

3.4.2.6

	tCO_2/ GJ	tCO_2/ GJ
	0.11	0.11

3.4.3

3.4.3.1

	t Nm^3	GJ/t GJ/ Nm^3	tC/GJ	%		tCO_2
	A	B	C	D	E	F=A*B*C*D*E
	-	-	-	-	-	156.57
	7.15	44.8	0.0189	98	44/12	21.75
	28.01	43.33	0.0202	98	44/12	88.09

	2.1606	389.31	0.0153	99	44/12	46.72

3.4.3.2

3.4.3.3 CH_4

	TOW		CODin	CODout	COD	BO	MCF		CH4		
	KgCOD	)	(/	(/	COD	$KgCH_4$/ KgCOD	/	$KgCH_4$)	$KgCH_4$	GWP	tCO_2
	451840.460	141462	5.09	1.90	0	0.25	0.8	0	90368.09	21	1897.73

3.4.3.4 CH_4

CH_4

3.4.3.5 CO_2

CO_2

3.4.3.6 CO_2

3-19 **CO_2**

	(MWh GJ)	(tCO_2/MWh tCO_2/GJ)	tCO_2	tCO_2
	A	B	C=A*B	
	15632.810	0.7035	10997.68	29634.37
	169424.45	0.11	18636.69	

3.4.3.7

3-20

		t	**tCO_2e**	**tCO_2e**	
		156.57	156.57	156.57	-
		-	-	-	-
CH_4		90.37	1897.73	-	-
CH_4	CH_4	-	-	-	-
	CH_4	-	-	-	-
	CH_4	-	-	-	-

3.4.4

2740

2021 9

3.5

1 EHS

2

3

4

EHS EHS

3.6

3.7

4.1

2021

(2021 9)

4.2

4.2.1

2021

156.27tCO_2e

0tCO_2e 1897.73tCO_2e

CH_4 0tCO_2e CO_2 0tCO_2e

10997.68 tCO_2e 18636.69 tCO_2e

31689tCO_2e

2021

	t	**tCO_2e**	**tCO_2e**	
	156.57	156.57	156.57	-
	-	[redacted]	-	-
CH_4	90.37	1897.73	-	-

CH

CH_4

	10997.68	10997.68	10997.68	-
	18636.69	18636.69	18636.69	-
tCO2e	CO2	2054	2054	-
	CO2	31689	31689	-

4.2.2

2740

2021 9

4.3

2021 2020 27.51%

2020 8.41%

0.0111 / 0.0080

/

4.4

2021

1

1	/	/	/

2

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2	
3	

3

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