

D - C- D -2019-03

D 1600215-2020

2019

2020 06 24

			11
			15105455576 @
<input checked="" type="checkbox"/>			
<hr/> <hr/> 0531-66226381 @			
		2619	
/		01	/2020 03 30
/		02	/2020 05 26
C ₂	136987	56964	
C ₂	132899	53620	
	1. 0.84 / 2.	1. /	
D 17 2019 2019 943 2019 2020 42 ()2019 D 1. 2019			

3.0

2019 6 6
D-5
2019

2.

2.1

2019

	2019	
		CO ₂
C ₂	60760.97	60760.97
C ₂	4864.25	4864.25
2	0	0
C ₂	0	0
C ₂	67274.00	67274.00
C ₂	132899	

2.2

2019

	/			CO ₂
2019			3858	33446
			7484.7447	20174
		--	--	53620

3.

2019

2017 2018

	2017	2018	2019	2019 2018
C ₂	86731	119905	132899	9.78%
C ₂	37893	46375	53620	13.51%
C ₂	24758	32369	33446	3.22%
C ₂	13135	14006	20174	30.57%
	2200.6604	3654	3858	5.29%
	2189.028	8061.79	7484.7447	-7.71%
C _{2/}	11.25	8.86	8.67	-2.19%
C _{2/}	6.00	1.74	2.7	35.56%

2019
9.78% 13.51% 5.29%
7.71% 2.19%
35.56%
2019
C₂

4.

			李皓		2020 06 24
			王坤		2020 06 24
			刘华凯		2020 06 24

2019		9137 0000 2653 8262 25	3590	19229 6	23833 5.7	2619			385 8			74 84. 74 47				3.2019	13.2899	5.3620

1	.....	1
1.1	.....	1
1.2	.....	2
1.3	.....	2
2	.....	3
2.1	.....	3
2.2	.....	4
2.3	.....	5
2.4	.....	5
3	.....	7
3.1	.....	7
3.1.1	.....	7
3.1.2	.....	9
3.1.3	.....	11
3.2	.....	11
3.3	.....	14
3.4	.....	18
3.4.1	.....	18
3.4.2	.....	34
3.4.3	.....	38
3.4.4	.....	40
3.5	.....	59
3.6	.....	60

3.7	.....	60
4	.....	61
4.1	.....	61
4.2	.....	61
4.2.1	61
4.2.2	62
4.3	62
4.4	63
5	64
1	64
2	65
3	66

1

1.1

17

2019

2019 943

2019

2020 42

2019

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1.2

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- 2019

1.3

D

1

2

3

4

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17

-

2019

2019 943

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2019

2020 42

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GB/ 4754-2017

-

-

GB 17167-2006

-

GB/ 2589-2008

-

GB/ 213-2008

-

GB/ 476-2008

-

D / 448-2000

-

G596-2012

-

2

2.1

D

2-1

1			1 2
2			1 2

2.2

2020 5 18

2019

2019

1

2

3

4

5

6

2.3

2020 5 21

2-2

		/	
2020 5 21		/	1
		/	2
		/	1
		/	2
		/	
		/	/

2.4

3

D

D

2020 06 24

2-3

1			
2			

3

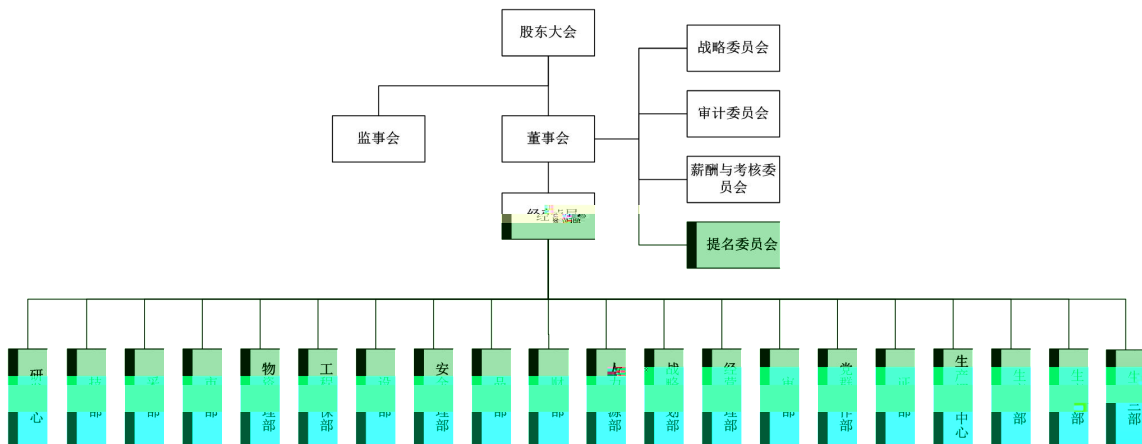
3.1

3.1.1

1992 10 1995 7
2008 3 2011 12
002643 2015
11

3.1-1

			913700002653826225
			1995 07 05
	2619		
		11	
		11	60
		@ .	15105455576
	11		264006



3.1-1

3.1.2

1

2

3.1-2

1		60	60-2.5-		1
2		30	30-1.6/24 5- F		1
3		4	4-1.0-		2
4		4	4-1.6-		1
5			C G20F		2
6			C 690D		2
7			C GF163 C3		1
8			C G16 F		1
9			FDC 550		1
10			B G17.32 CB		1
11			/		2
12			CF 23		1
13			120		1
14			C F1007 5B		1
15			G200		1

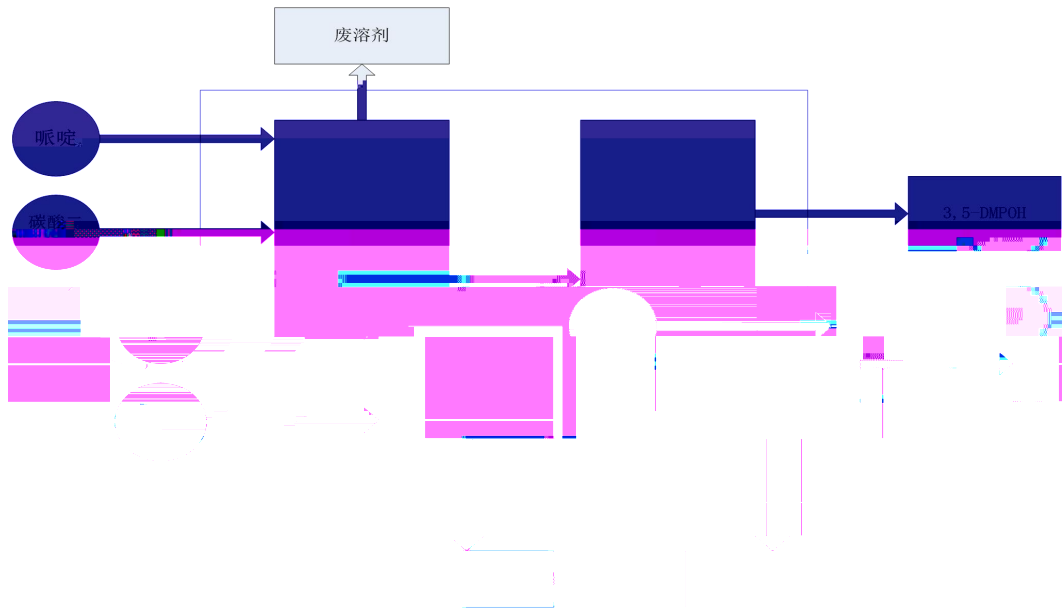
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17			D180		1
18			G -1800		1
19			G-6		1
20			D100		1
21			1300*16100		1
22			1800*20000		2
23			2400*28900		1
24			2400*36000		2
25			1200*25000		1
26			1200*16000		1
27			F B125-100 -315		13
28			F B125-100 -315B		9

3

2019

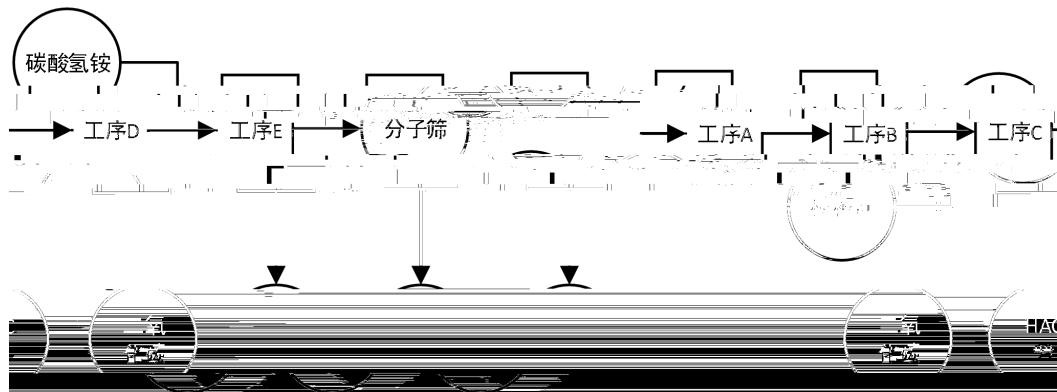
4

3.1-3



3.1-2

2

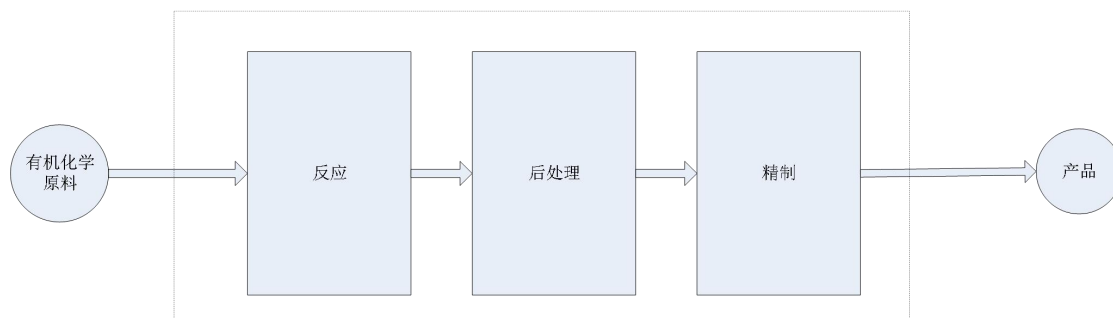


3.1-3

3

1%

-1



3.1-4

3.2

11

2019

3.2-1

/

1

C₂

C₂

C₂

		C ₂		
2		C ₂		
3	C ₂	C ₂		
4		C ₂		
		C ₂		
2019				
1%				

3.0

3.3

$$E_{G\ G} = E_{C\ 2-} + E_{G\ G-} \quad E_{C\ 2} + E_{C\ 2-} + E_{C\ 2-}$$

$E_G - G$ C_2

$E_C - 2$ C_2

$E_C - 2$ C_2

$E_2 -$ 2

$E_2 -$ 2

$G_2 \quad 2 \quad C_2 \quad G$

CC 100 1 2 310 C_2

310

1 C_2

$E_C - 2 = AD - CC - AD + CC + AD - CC$

44 12

$E_G - G$

$E_C - 2$ C_2

AD

3

CC

/

/ 3

AD

3

CC

/

/ 3

AD =

CC /

2 C 2

3 2

4 2

3.3.3 CO₂

3.3.4 CO₂

1

E_{C 2-} =AD EF

E_{C 2-} C 2

C 2

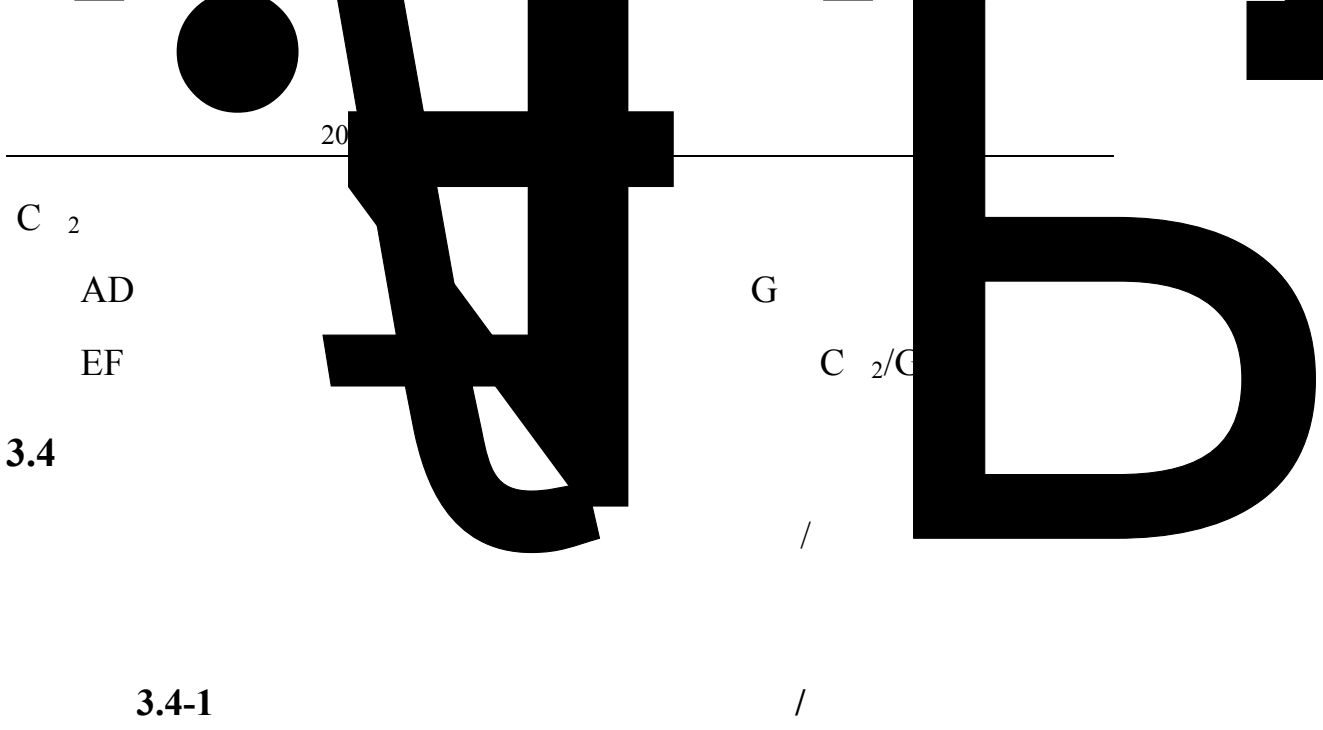
AD

EF C 2 C 2/

2

E_{C 2-} =AD EF

E_{C 2-} C 2



3.4.1.1

1

3.4-2

	23750.30		
	2019		
	1 2019		
	2 2019		
			%
	23750.30	24409.12	-2.70
	1 2019		
	2 2019		
	-2.70%	2019	

3.4-3

1	2441.00	2556.06	2441.00
2	2370.00	2213.38	2370.00
3	2025.00	2258.62	2025.00
4	1870.00	1968.34	1870.00
5	1557.00	1488.58	1557.00
6	1298.00	1259.98	1298.00
7	1656.00	1377.14	1656.00
8	1549.00	2026.54	1549.00
9	1671.00	1420.30	1671.00
10	1788.92	2094.20	1788.92
11	2385.12	2359.62	2385.12
12	3139.26	3386.36	3139.26
	23750.30	24409.12	23750.30

2**3.4-4**

	27.3939
	G /
	2019 19
	GB/ 213-2008

	1	2019	19	
	1			2019 19
	2	2019	19	
				6
	10	12		19
	19			
				2019

3.1

3

3.4-6

	103.0001			
	3			
	2019			
	1 2019			
	2 2019			
		3	3	%
	2019	103.0001	98.6781	4.38
	1 2019			
	2 2019			
	4.38%			

3.4-7

N³

	2019		
1	4.8705	4.8535	4.8705
2	3.0695	2.9307	3.0695
3	1.9904	2.0612	1.9904
4	3.6358	4.8495	3.6358
5	14.2925	12.1153	14.2925
6	15.8159	15.7460	15.8159

2019

7	14.8412	14.7914	14.8412
8	11.1990	12.9189	11.1990
9	3.3888	1.6506	3.3888
10	19.5410	13.8785	19.5410
11	3.8244	7.5260	3.8244
12	6.5311	5.3565	6.5311
	103.0001	98.6781	103.0001

4

3.4-8

	389.31
	G / ³
	2019

5

3.4-9

	103.66
	2019
	/
	1 2019

	1	2019
	2	
		2019
		2019

3.4-10

1	0
2	0
3	21.70
4	0
5	0
6	30.76
7	0
8	0
9	26.67
10	0
11	0
12	24.53
	103.66

6

3.4-11

	44.800
	G /
	2019

7

3.4-12

	43.176
	2019
	/
	1 2019
	1 2019
	2 2019
	2019
	2019

3.4-13

	2019		
		/	
1	6800	0.84	43.176
2	2000		
3	4000		
4	6800		
5	1200		
6	1000		
7	5000		
8	5000		
9	5000		

2019

10	4600		
11	3000		
12	7000		
	51400		

0.85 /

0.84 /

1

NC-1

8

3.4-14

	43.330		
	G /		
			2019

3.4.1.2

CO₂

1

3.4-15

	3858		
	2019		

	1 2019
	1 2019
	2 2019
	2019
	2019

3.4-16

	11	12	16	
1	118	87	0	205
2	108	78	65	251
3	115	87	109	311
4	96	84	108	288
5	111	88	118	317
6	96	84	70	250
7	112	86	151	349
8	124	39	195	358
9	121	41	158	320
10	129	88	186	403
11	129	84	183	396
12	128	87	195	410
	1387	933	1538	3858

2

3.4-17

	1	2
	2934.06	2307.9

	2019
	1 2019
	1 2019
	2 2019
	1 12
	2 16
	11
	2019
	2019

3.4-18

1

	1		
	11	16	
1	186.44	0	186.44
2	170.64	102.70	273.34
3	181.70	172.22	353.92
4	151.68	170.64	322.32
5	175.38	186.44	361.82
6	151.68	110.60	262.28
7	176.96	0	176.96
8	195.92	0	195.92
9	191.18	0	191.18
10	203.82	0	203.82

11	203.82	0	203.82
12	202.24	0	202.24
	2191.46	742.60	2934.06

3.4-19

2

	2		
	12	16	
1	95.7	0	95.7
2	85.8	0	85.8
3	95.7	0	95.7
4	92.4	0	92.4
5	96.8	0	96.8
6	92.4	0	92.4
7	94.6	181.2	275.8
8	42.9	234.0	276.9
9	45.1	189.6	234.7
10	96.8	223.2	320.0
11	92.4	219.6	312.0
12	95.7	234.0	329.7
	1026.3	1281.6	2307.9

3

3.4-20

	1440.72
	2019

	1	2019			
	1			2019	
	2	2019			11
			1		12
		2		16	2
		2019			
					2019

3.4-21

	12	16	
1	62.64	0	62.64
2	56.16	0	56.16
3	62.64	0	62.64
4	60.48	0	60.48
5	63.36	0	63.36
6	60.48	0	60.48
7	61.92	108.72	170.64
8	28.08	140.40	168.48
9	29.52	113.76	

	1 2019			
	2 2019			
				%
	2019	79474.633	77117.338	3.06
	1 2019			
	2 2019			
	3.06%			
	2019			

3.4-23**MW**

1	5433.315	6081.038	468.200	233.658	5433.315
2	5349.487	5134.047	294.080	124.221	5349.487
3	5530.569	5734.982	460.560	267.080	5530.569
4	5955.369	6117.488	501.120	297.344	5955.369
5	7131.171	5816.318	478.520	379.414	7131.171
6	6706.235	6349.076	591.400	381.634	6706.235
7	8227.664	6520.324	738.560	520.226	8227.664
8	7848.867	7833.096	884.120	476.705	7848.867
9	6951.961	6602.315	703.600	404.334	6951.961
10	6688.674	5762.745	345.400	281.310	6688.674
11	6910.697	6690.182	606.960	303.806	6910.697
12	6740.624	5850.145	553.080	330.286	6740.624
	79474.633	74491.756	6625.600	4000.018	79474.633
	79474.633	77117.338			79474.633

1

NC-2

2

3.4-24

-27322.0365

G

2019

2019

	/	/	/ /
	185	0.7	2809.71
	175	0.8	2779.62
G =	*(	-83.74)/1000	
G =	*(	-83.74)/1000	

	2019

3.4-25

GJ

		J/	GJ		J/	GJ
1	1954.7	2809.71	31520.9363	-1983	2779.62	-58842.9728
2	1401.4			-1738		
3	1384.9			-2211		
4	914.1			-2070		
5	482.9			-959		
6	501.6			-318		
7	522.5			-1188		
8	531.3			-1960		
9	543.4			-2005		
10	294.8			-1767		
11	1216.6			-2126		
12	1815.0			-3502		
	11563.2			-21827		
	-27322.0365					

3.0

3.4.2

3.4.2.1

1**3.4-26**

	0.02618	93
	C/G	%
	2019	

2**3.4-27**

	0.0153	99
	C/G	%
	2019	

3**3.4-28**

	0.0189	98
	C/G	%
	2019	

4**3.4-29**

	0.0202	98

	C/G	%
	2019	

3.4.2.2

CO₂

1

3.4-30

	1	2
	0.1698	0.1848
	C/	
	2019	
	/	
	/	
	/	
	2019	

2

3.4-31

	0.1519
	C/
	2019

3

3.4-32

	0.0003
	C/
	2019
	2019

3.4.2.3

CO₂

1

3.4-33

	0.8843
	C 2/
	2011 2012
	2011 2012

2

3.4-34

	0.11
	C 2/G

3.0

3.4.3

2019

2019

1

3.4-35

	³	$G /$ 3	C/G	%	C_2
	A	B	C	D	$E=A*B*C*D/100*44/12$
	23750.3	27.3939	0.02618	93	58082.73
	103.0001	389.31	0.0153	99	2227.06
	103.66	44.8	0.0189	98	315.39
	43.176	43.33	0.0202	98	135.79
					60760.97

2

3.4-35**CO₂**

/				
		C/	C	C_2
	A1	B1	C1	$D=(C1-C2)*44/12$
1	2934.06	0.1698	498.20	4188.76
2	2307.9	0.1848	426.50	
	1440.72	0.1519	218.85	
		C/	C	
	A2	B2	C2	
	3858	0.0003	1.16	
				675.49
				4864.25

3

3.4-37

	$C_2/$	C_2
A	B	$C=A*B$
79474.633	0.8843	70279.42

3.4-38

G	C_2/G	C_2
A	B	$C=A*B$

2019

-27322.0365	0.11	-3005.42
-------------	------	----------

4

3.4-39

		2019
	C ₂	60760.97
	C ₂	4864.25
C ₂	C ₂	0

3.4.4.2

1

3.4-41

	28840.155			
	2019			
	1 2019			
	2 2019			
		2019	2019	
				%
	2019	28840.155	27272.808	5.75
	1	2019		
	2 2019	2019		
		5.75%		

2019

	2019

3.4-42

MW

2019

2019

1

2037.68

	2019		
	-1		
1	2019	-1	
2	2019	-1	
	2019	2019	
	-1	-1	
			%
	20279.804	20298.879	-0.09
1	2019	-1	
2	2019		2019
		-1	
	2019	-0.09%	
			2019
			-1
		-1	
			2019
			-1

--	--

3.4-44

MW

	2019	2019	
	V-1	V-1	
1	1275.823	1422.644	1275.823
2	892.906	830.407	892.906
3	1370.388	1400.153	1370.388
4	1412.136	1518.674	1412.136
5	1664.676	1439.396	1664.676
6	1810.772	1817.642	1810.772
7	2564.932	2245.855	2564.932
8	2620.162	2867.622	2620.162
9	1909.808	2097.396	1909.808
10	1414.535	1286.425	1414.535
11	1663.622	1764.955	1663.622
12	1680.044	1607.710	1680.044
	20279.804	20298.879	20279.804

3

3.4-45

	177099.5773
	G
	2019

5	5420	14699.3110	14699.3110
6	4600	12475.4300	12475.4300
7	5747	15586.1514	15586.1514
8	4965	13465.3283	13465.3283
9	4515	12244.9058	12244.9058
10	6457	17511.7069	17511.7069
11	5877	15938.7179	15938.7179
12	6788	18409.3954	18409.3954
	65301	177099.5773	177099.5773

4

3.4-47

	87161.9629																
	G																
	<p style="text-align: center;">2019</p> <p style="text-align: center;">-1</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td></td> <td>/</td> <td>/</td> <td>/ /</td> </tr> <tr> <td></td> <td>175</td> <td>0.80</td> <td>2779.62</td> </tr> <tr> <td style="text-align: center;">-1</td> <td>200</td> <td>1.50</td> <td>2795.79</td> </tr> <tr> <td></td> <td>185</td> <td>0.70</td> <td>2809.71</td> </tr> </table> <p style="text-align: center;">G = *(-83.74)/1000</p>		/	/	/ /		175	0.80	2779.62	-1	200	1.50	2795.79		185	0.70	2809.71
	/	/	/ /														
	175	0.80	2779.62														
-1	200	1.50	2795.79														
	185	0.70	2809.71														
	1 2019																
	-1																

	1 2019								
	2	-1						-1	
		2019							
			-1						
		2019							
			-1				E		2.6
								2019	

3.4-48

GJ

2019
V-1

11	2170	316	411	5850.0596	857.0078	1120.3737	7827.4411
12	2483	368	425	6693.8700	998.0344	1158.5373	8850.4417
	23820	4075	4363.4	64215.8614	11051.6040	11894.4975	87161.9629

3.4.4.3

3.4-49

/

C_2	0.6101	2019

3.4-50

	0.0895						
	= /						
	G						
	1 2019						
	<table border="1"> <tr> <td>/</td> <td>/</td> <td>/ /</td> </tr> <tr> <td>198</td> <td>1.38</td> <td>2798.05</td> </tr> </table>	/	/	/ /	198	1.38	2798.05
/	/	/ /					
198	1.38	2798.05					
	G = *(-83.74)/1000						
	2 3.4-35 + =58082.73+2227.06=60309.79 C_2						

1	2019
1	2019 /
2	2019
	2019
	E 2.6
	2019

3.4-51

GJ

	2019		
		GJ	GJ
1	22125	60054.1088	60054.1088
2	21582	58580.2384	58580.2384
3	18389	49913.4466	49913.4466
4	14858	40329.218	40329.218
5	15494	42055.5191	42055.5191
6	16776	45535.2646	45535.2646
7	29756	80767.0084	80767.0084
8	19656	53352.4774	53352.4774
9	16988	46110.6983	46110.6983
10	18108	49150.7255	49150.7255
11	24347	66085.3056	66085.3056
12	30244	82091.5916	82091.5916
	248323	674025.6023	674025.6023
	= /	=60309.79/674025.6023=0.0895	

NC-3

3.4.4.4

2019

3.4-52

		C ₂ /	C ₂
	28840.155	0.6101	17595.38
	20279.804	0.6101	12372.71

3.4-53

	G	C ₂ /G	C ₂
	177099.5773	0.0895	15850.41
	87161.9629	0.0895	7801.00

3.4-54

	2019	
(C ₂)	0	0
(C ₂)	17595.38	12372.71
(C ₂)	15850.41	7801.00
(C ₂)	33446	20174

3.4.4.5

3.4-55

		2019
		3858

		7484.7447
	2019	
	1	2019
	1	2019
	2	
		2019
		2019
		2019

3.4-56

	2019							
	11	12	13	1	2	5		-1
1	118	87	0	7.0114	349.5883	22.5029	2.4527	81.4000
2	108	78	65	3.4462	321.0643	5.4187	3.4020	72.1000
3	115	87	109	6.4155	496.7796	32.4437	8.2193	185.3000
4	96	84	108	6.8000	388.0658	47.0259	8.2469	121.7000
5	111	88	118	5.5000	561.8586	51.3149	11.4562	154.9000
6	96	84	70	12.9200	580.3011	28.1827	7.7149	128.4000
7	112	86	151	9.7000	512.2368	38.4399	12.2375	181.5000
8	124	39	195	8.0900	347.8210	53.2691	9.7601	185.9000

9	121	41	158	27.0000	370.1871	32.6582	12.2339	192.6000
10	129	88	186	9.8000	388.0087	27.7728	7.0491	150.5000
11	129	84	183	16.3000	572.8475	34.4754	10.7815	104.1000
12	128	87	195	18.9000	348.6706	50.5989	6.1750	33.2000
	3858			7484.7447				

3.0

2019

3.4-57

2019		9137 0000 2653 8262 25	3590	19229 6	23833 5.7	2619			385 8			74 84. 74 47				3.2019	13.2899	5.3620

3.4-58

2019

*3

1	
2	260120
3	3858

1*4

4.2.3		1		
*6	3	*6		
4.2.4		1		
3	C/ C/	*6		
4.3		C 2	17595.38	13
4.3.1			28840.155	
4.3.1.1			28840.155	
4.3.1.2		*7		
4.3.1.3				
4.3.1.4				
4.3.2			0.6101	2015
C 2/				0.6101 C 2/
				0
4.4		C 2	15850.41	14
4.4.1		G	177099.57 73	
4.4.2		C 2/G	0.0895	0

	3	*6		
4.2.2	C/ C/ 3			
		*6		
4.2.3	3	1		
*6		*6		
4.2.4	C/ C/	1		
3		*6		
4.3	C 2	12372.71	13	
4.3.1		20279.804		
4.3.1.1		20279.804		
4.3.1.2	*7			
4.3.1.3				
4.3.1.4				
4.3.2	C 2/	0.6101	0.6101 C 2/	2015
			0	
4.4	C 2	7801.00	14	
4.4.1	G	87161.962		

		9	
	4.4.2 C ₂ /G	0.0895	0 / 0.11 C ₂ /G
	5 C ₂	53620	

*1

*2 1

*3

*4

1

*5

*6

*7

3.5

3.0

2019

	3.0
	3.0
	3.0
	3.0
	3.0
	3.0
	3.0

3.6

3.7

4

2	0	0
C ₂	0	0
C ₂	67274.00	67274.00
C ₂	132899	

4.2.2

4-2 2019

	/			CO ₂
2019			3858	33446
			7484.7447	20174
		--	--	53620

4.3

4-3 2019 2018

	2017	2018	2019	2019 2018
C ₂	86731	119905	132899	9.78%
C ₂	37893	46375	53620	13.51%
C ₂	24758	32369	33446	3.22%

C ₂	13135	14006	20174	30.57%
	2200.6604	3654	3858	5.29%
	2189.028	8061.79	7484.7447	-7.71%
C _{2/}	11.25	8.86	8.67	-2.19%
C _{2/}	6.00	1.74	2.7	35.56%

2019

9.78% 13.51%

5.29%

7.71%

2.19%

35.56%

2019

C₂

4.4

2019

5

1

NC-1	0.85 /		0.84 /	
	0.84 /			
NC-2				
NC-3				



2

1

2

3

3

1			
2			
3			
4			
5			
6			
7		-1	
8	2019		
9	2019		
10	2019	19	
11	2019		
12	2019		
13	2019		
14	2019		
15	2019		
16	2019		
17	2019		
18	2019		
19	2019		
20	2019		B204-1
21	2019		B205-1
22			
23	2019		
24			
25			