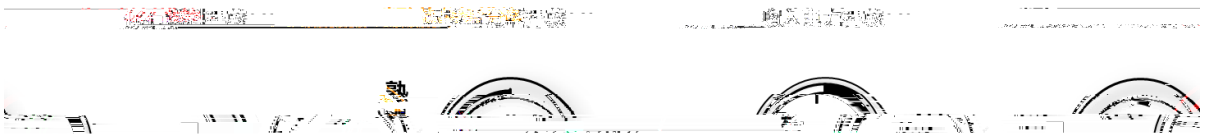
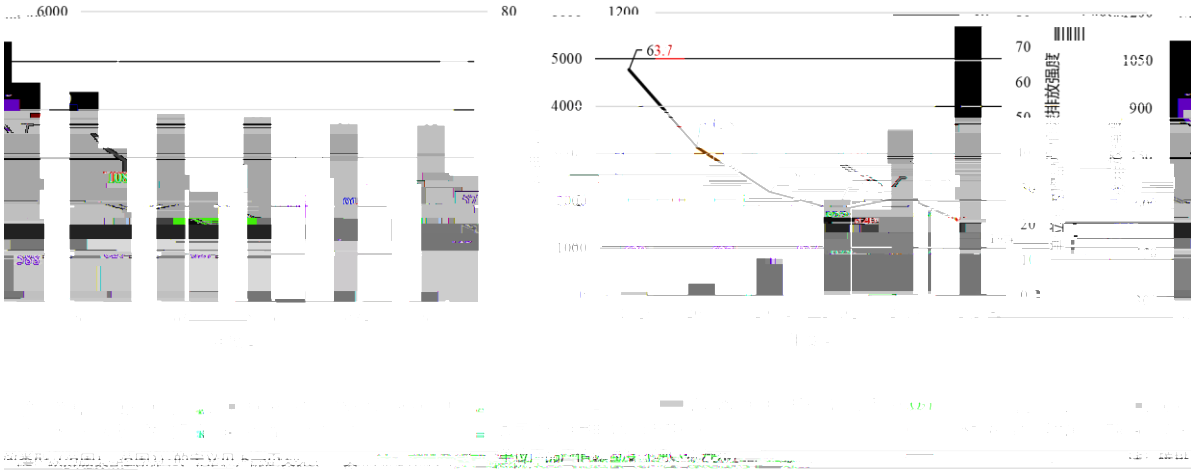
“ ”

“ ”






1990 2000 2005 2010 2015 2020

2 1990

**1.**

GHG Protocol 1 2

3

1

2 3

**2.**

2021 6 30 9 5 58

*

1

kg$CO_2$/t.cl

| | | 2018 | 2019 | 2020 |
|---|---|---|---|---|
| | | 860.52 | 852.46 | 853.63 |
| 1 | | 302.87 | 295.97 | 295.86 |
| | | 530.57 | 529.58 | 530.66 |
| 2 | | 27.08 | 26.91 | 27.11 |

**3.**

2020 695kg 1

419kg 233kg 2 43kg 2020

1 2

**4.**

2020 461

1 196kg

**1.**



Å

**2.**

“ ” 2016

“ ” 2019

2020 7

“ ” 91.75kgce/t

31% 590kcal/kg

2020

CMSW 90 / 150 /

20 / $CO_2$ 54 /

40%

2020 206 240

45 120

20% 70%

2020

318.54 34.59

“ ” 2009

53% 42.5 120

24 /

4

2.4

11885 /

1.58



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| | | | $kgCO_2/t.cl$ | |
|---|---|---|---|---|
| | | | | |
| 1 | | | 0.1 | 0.3 |
| 2 | | | 4 | 7 |
| 3 | | <2% | 140 | 285 |
| 4 | | | 20 | 50 |
| 5 | | | 30 | 45 |
| 6 | $kgCO_2/t.cem$ | + LC3- | 120 | 170 |
| 7 | | - | 40 | 70 |
| 8 | | | 6 | 10 |
| 9 | | | 5 | 10 |
| 10 | | | 30 | 60 |
| 11 | | CCS | 160 | 350 |

CCUS

BECCS CCUS

2060

3

1

“ ”

| | | | | | | |
|---|---|---|---|---|---|---|
| | / | 92.8~131.47 | 38.01 | | | |
| | | | | | RDF | |
| | 30.19 | 108.3~220.4 | 66.58 | 83.83 | 10 | 9000 |