
∫

1.

2023 63

2.

7% 2020 CO₂ 13.7
13%

2020 9 22 75
2030 2060

2021 10

2025

2020 13.5% 2020 18%

20% 2060

80 2022 2

2022 2025

30%

11

“ ” 3% 2030

GB/T 32151.8—2023 8

GB 16780—2021 GB 17167
GB/T 21372 GB/T
27977 GB/T 32151.8
8 GB/T 35461
JJF 1071—2010 JJF 1356
JC/T

[illegible]

7 7

”

“

”

5.

5.1

8

GB/T32151.8

5.1.2

1

$$x = \sum (\times \times$$

E_x --

$$\begin{aligned}
 & e_{sh} \text{ — —} \\
 & \text{kgce/t} \\
 & E_{he} \text{ — —} \\
 & \text{kgce/t} \qquad \qquad \qquad 6 \\
 & P_{sh} \text{ — —} \qquad \qquad \text{GB/T 21372} \qquad \qquad \qquad t \\
 & \qquad \qquad \qquad = \qquad \times \qquad \times \qquad \times \frac{44}{12} \dots\dots\dots (5)
 \end{aligned}$$

$$\begin{aligned}
 & \text{NCV} \text{ — —} \\
 & \text{GJ/t} \\
 & \text{CC} \text{ — —} \qquad \qquad \qquad \text{tC/GJ} \\
 & \text{OF} \text{ — —} \qquad \qquad \qquad \% \\
 & \qquad \qquad \qquad = \times 0.1229 \dots\dots\dots (6)
 \end{aligned}$$

$$\begin{aligned}
 & \omega \text{ — —} \qquad \qquad \qquad \text{kw} \cdot \text{h/t} \\
 & 0.1229 \text{ — —} \\
 & [\text{kgce}/(\text{kw} \cdot \text{h})]
 \end{aligned}$$

$$\begin{aligned}
 & 2) \\
 & \qquad \qquad \qquad 7 \\
 & \qquad \qquad \qquad = \sum_{i=1}^7 (\quad / \quad \times \quad) \dots\dots\dots (7)
 \end{aligned}$$

$$\begin{aligned}
 & E \text{ — —} \\
 & \text{tCO}_2 \\
 & \text{FC}_i \text{ — —} \qquad \qquad \qquad i \\
 & t \qquad \qquad \qquad 8 \\
 & E_i \text{ — —} \qquad \qquad \qquad i \\
 & \text{tCO}_2/t \qquad \qquad \qquad \text{tCO}_2/10^4 \text{Nm}^3 \qquad \qquad \qquad 9 \\
 & \text{ — — } i \qquad \qquad \qquad \text{tce/t} \\
 & \qquad \qquad \qquad \text{tce}/10^4 \text{Nm}^3 \\
 & \qquad \qquad \qquad = \times \quad / \quad \dots\dots\dots (8) \\
 & \qquad \qquad \qquad 7 \qquad \qquad 7
 \end{aligned}$$

b)

c)

d)

e)

f)

g)

h)

10

A
