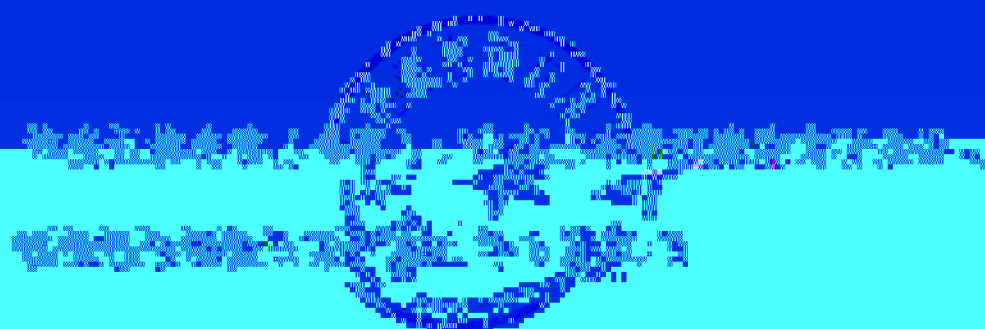


哈尔滨锅炉厂有限公司

2020 年款

哈尔滨锅炉厂有限公司







1	.....	1
1.1	.....	1
1.2	.....	1
1.3		

3.5	.....	24
3.6	.....	24
3.7	.....	26
4	.....	26
4.1	.....	26
4.2	.....	26
4.2.1	.....	26
4.2.2	.....	27
4.3	.....	27
5	.....	28
1	.....	28
2	.....	29
3	.....	30

**1**

**1.1**

17

2021 9

2020

-

"

"

-

"

"

-

**1.2**

-

- 2020

### 1.3

1

2

- GB/T4754-2017
- 
- GB 17167-2006
- GB/T2589-2020
- DL/T448-2000
- JJG596-2012
- 

## 2

### 2.1

2-1

**2-1**

1				1 2
2				1 2

--

3

2020



**3**

**3.1**

**3.1.1**

156

1954 " "

3000

70%

2020 1633 /3.8

400 30

3000

" " 1954

" "

"	"	"	"
816.7		121.3	
	2012	"	"
"			2013
"	"	2015	
2016		"	
	"		--
			2018
--	"	"	
2018			2019
	66		"
		8	"
			9
2020	"	CO2	"

**3-1**

			91230199128025389R
			( )



2020

---

-

0451-82198888

---

4			538-014	0.928m×3.8m	7		150m <sup>3</sup> /h
5			538-008	4m×2.5m	8		150m <sup>3</sup> /h
6		601	538-012	3m×15m			750m <sup>3</sup> /h
7		701	538-009	32m×4.5m	2		1500m <sup>3</sup> /h
8		702	538-011	15m×4.5m	2		1500m <sup>3</sup> /h
9		24	/	24m×6m	2		2813m <sup>3</sup> /h

2020

---

38			899-244	KGPS100KW	2		100KW
39			122-02				100kw
40			271-82	TS32S-400L			300kw
41			271-83	TS32S-400L			300kw
42			271-86	TS32S-400L			300kw
43			271-85	S25S-300L			200kw
44			899-06				180kw
45			991-06		1		100KW
46			639-030				480kw
47			639-031				480kw

**3**

2020

**4**

**3-3**

2020



$$E = \sum_{i=1}^n AD_i \times EF_i \quad \text{---} \quad 2$$

$E$  CO2  
tCO2

$AD_i$  i

GJ

$EF_i$  i tCO2/GJ

$i$

i ADi 3

$$AD_i = NCV_i \times FC_i \quad \text{---} \quad 3$$

$NCV_i$  i

/ GJ/t

/ GJ/ Nm3

$FC_i$  i

t Nm3

4

$$EF_i = CC_i \times OF_i \times \frac{44}{12} \quad \text{---} \quad 4$$

$CC_i$  i /

tC/GJ

$OF_i$  i %

**3.3.2**

**3.3.3**

6

$$E = AD \times EF$$

6

*E*

t

*AD*

MWh

*EF*

tCO<sub>2</sub>/MWh

7

$$E = AD \times EF$$

7

E

t CO<sub>2</sub>

*AD*

GJ

*EF*

tCO<sub>2</sub>/GJ

**3.4**

/

**3-5**

/

		/
CO <sub>2</sub>		
CO <sub>2</sub>		

**3.4.1**

**1**

**3-6**

	602.0000
	Nm <sup>3</sup>
	2020

2020



2020

---

	1	2020
	2	

**1**

**3-12**

--	--

**4**

**3-15**

	98
	%

**5**

**3-16**

	0.7035
	tCO <sub>2</sub> /MWh
	2012 /
	2012 /

**6**

**3-17**

	0.11
	tCO <sub>2</sub> /GJ

2020

--	--

**3.4.3**

2020

2020

**3-18**

		Nm <sup>3</sup>	GJ/t	tC/GJ	%	--	tCO <sub>2</sub>
		t					
		A	B	C	D	E	F=A*B*C*D*E
2020		602.0000	389.31	0.0153	99	44/12	

2020

(tCO <sub>2</sub> )	0
(tCO <sub>2</sub> )	21341.44
(tCO <sub>2</sub> )	19529.40
(tCO <sub>2</sub> )	<b>53993</b>

**3.5**

**3.6**

2020

-

-

-

-

-

-

**3-21**


2020


**3.7**

**4**

**4.1**

2020

**4.2**

**4.2.1**

2020

**4-1 2020**

	<b>2020</b>
(tCO <sub>2</sub> )	13121.68
(tCO <sub>2</sub> )	0
(tCO <sub>2</sub> )	21341.44

2020

---

(tCO <sub>2</sub> )	19529.40
(tCO <sub>2</sub> )	53993

**4.2.2**

3411

**4.3**

**5**

**1**


2

1

2

3

**3**

1	
2	-
3	
4	
5	2020
6	
7	