



江苏环保产业技术研究院股份公司
JIANGSU ACADEMY OF ENVIRONMENTAL
INDUSTRY AND TECHNOLOGY CORP.

110kV

1.

30

2.

3.

4.

5.

6.

7.

8.

	110kV			
	0518-87568965		/	222000
				2018-320720-26-03-572446
				D4420
()	9562		()	
	2165	()	30.0	1.39%
()	/		2021 05	

()

1.

12

24.8

110kV

110kV

181

100

10.

2012

2013

10.

3.

110kV

D4420

9262m²

2165

30

1.39%

2021 05

4.

110kV

110kV

1 110kV

4 120MVA

110/35kV

110/35kV

110×8×1.25%/38.5kV

YNd11

Uk%=12

110/35kV

110kV 4

35kV 28

110kV

80m³

3

2 110kV

110kV

4

4

220kV

110kV

GIS

404

OPGW-14.6-120-3

5

110kV

GIS

9562m²

35kV

110kV GIS

35kV

35kV

35kV

110kV

3

6

220kV

GIS

110kV

GIS

110kV

404

4

7

1

1					2015	1	1	
2					2018	12	29	
3					2018	1	1	
4						2016	11	7
5					2018	10	26	
6					2018	12	29	
7					2018	11	23	
8								
2	2018	5	1					
9								2
2018	5	1						
10					2018	74		
11					682			2017 10
1								
12					2017	6	29	
44					2018	4	28	1
13								2011 2016
36	2016	3	25					
14						2012		2013
	[2013]183				2013	3	15	
15						2016		39 2016
8	1							
17								
					2019	2	2019	1 21

2

- 1 HJ2.1-2016
- 2 HJ2.4-2009
- 3 HJ2.3-2018
- 4 HJ19-2011
- 5 HJ24-2014
- 6 HJ681-2013

3

- 1
- 2
- 3
- 4 110kV
- 5 110kV

12

24.8

1

80.88 7444km² 488.25 880km²

2

1

(1)

-

20 87m

87m

(2)

(Qhl)

()

2.5 4.5m

0 2m

2.5 4.5m

(3)

3

(1)

6-9

70%

5%

30

1971-

2000

20

1988-2009

2.1-3

2.1-3

	14.5	14.1	14.4	14.3	14.5
	37.5	38.8	38.9	39.9	37.5
	-11	-13.3	-10.7	-12.2	-13.9
%	70	71	74	70.5	75.4
(mm)	432.2	264.4	377.5	200.1	

1.5

3-5

50

-

-

4

1 ()

(2)

38

30

U

120m

10.5m

3.36m

-0.19m

3.6m^2

1.8m^2

2007 7

$7.29\text{m}^3/\text{s}$

0.15m

2.0m

$\times 3.0\text{m}$

151m

45m

82m

12m

(3)

21

(4)

27.6

1957

10

10

10m

-3.0m

6m

2100m³/s

6

5

(1)

(2)

30

1			A	
2				
2008	HJ681-2013			GB3096-
3				
4	2			
5		2020	07	09
	29.0	63.5%		3.2m/s
6				
	SEM-600	C-0689	LF-01	G-0689
	2020.06.15-2021.06.15			
			1~100Hz	
	0.05V/m~100kV/m		1nT~3mT.	
			XDdj2019-2218	
	AWA6228	102468	2020.02.04~2021.02.03	
	30dB A	~120dB A	10Hz~20.0kHz	
			F11-20200338	
	AWA6221	1003821		
	2020.06.02~2021.06.01			

F11-202001393

3-1

	(V/m)	
	0.980	0.0157
	0.810	0.0161
	1.590	0.0155
	5.250	0.0153
	27.770	0.0159
	28.340	0.0161

0.810~5.250 V/m

GB8702-

/m

0.0159 0.0161

51.1

00/30

1

HJ24-2014

110kV

110kV

2

[2017]188

2.5-3

8.4km

3-5

				WN	16.8km
		-	~ 31	WN	15.4km
		-	1.6 34 2.5 100	WS	8.4km

GB3096 2008 2

60dB(A)

50dB(A)

GB 8702-2014 1

4000V/m

50Hz

10kV/m

1.

GB12523-

2011

4-6

4-6

dB(A)

70	55

GB 12348-2008 3

4-7

4-7

				Leq	
		/	/		/
		/	/		/
2					
1					
	110kV		110kV		
	10m				
	HJ24-2014	2			
	110kV				
	110kV		10m		
2					
	9562m ²		404m		
	HJ19-2011	1			
		2	2km ² ~20km ² 50k m~100km		2
3					
				GB/T 15190-2014	
	3			GB3096 2008	1
3				HJ2.4-2009	
	GB3096	3	4		

	110kV	3	
		HJ2.4-2009	
GB3096	3	4	110kV
		110kV	
	4		
	3		
		HJ24-2014	
		HJ2.4-2009	1-7
		110kV	110kV
		30m	30m
		100m	30m
		500m	300m
	4		
	1		
		HJ24-2014	
	2		
		GB12348-2008	
		110kV	

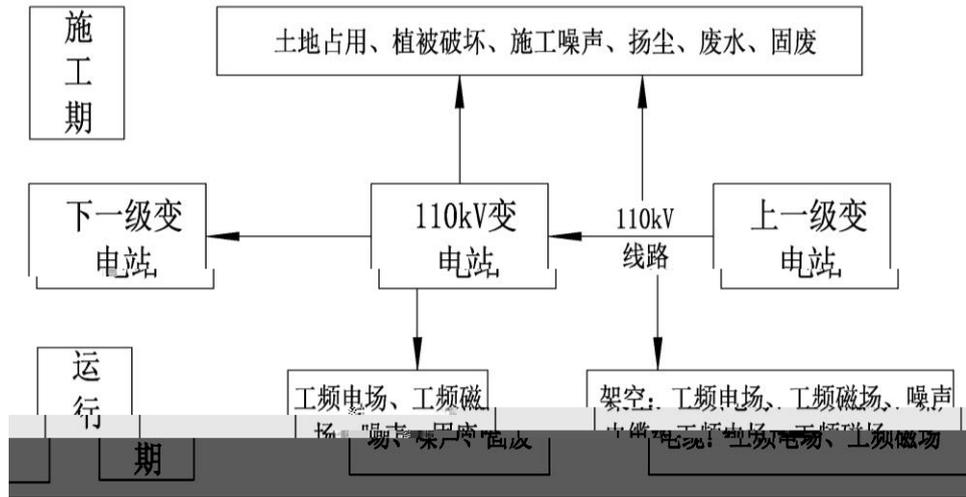
3

110kV

4

5

5.1



5-1

5.2

1.

1

5-1

5-1

	m	dB A
	2	85
	1~2	87
	1~2	91
	1~2	87

2

COD SS

10

100L/ d

80%

0.8m³/d

3

SO₂

NO₂ CO

4

10

0.5kg/ d

5kg/d

5

15~30cm

2.

1 110kV

110kV

110kV

1m

63dB(A)

10~20

2016

110kV

60%

80m³

2 110kV

110kV

110kV

	()			
--	-----	--	--	--

7.1

7.1.1

1

NO_x CO

2

2.5m/s

TSP
150m

2 2.5

TSP

0.49mg/m³

40%

5m/s

TSP

7.1.2

7.1-1

7.1-1

	10	A	dB	A
				105
				82
				76
				84
				82
				82
				85

(1)

(2)

(3)

4)

(5)

(6)

7.1.3

1

2

3

7.1.4

5.1.5

7.2

7.2.1

1 110kV

110kV

1.0m

A

63dB(A)

HJ2.4-2009

HJ2.4-2009

$$1 \quad L_p(r) = L_p(r_0) - (A_{div} + A_{bar} + A_{atm} + A_{gr} + A_{misc})$$

$L_p(r)$	r	dB	$L_p(r_0)$	r_0
dB	A_{div}		dB	A_{bar}
	dB	A_{atm}		dB
		dB	A_{gr}	
			dB	A_{misc}
				dB

2

$$L_s = 20 \lg \frac{r}{r_0}$$

r

m

r_0

$r_0 = 1.0m$

3

2

110kV

GB8702-2014

4000V/m

110kV

GB8702-2014

10kV/m

7.2.3

7.2.4

10~20

2016

7-7

7-7

HW49		900-044-49		T	3~5
HW08		900-220-08		T I	

7.2.5

110kV

60%

80m³

7.3

7.3.1

1

2

7.3.1

7.3-1

7-

--	--	--

		1
		1
		4 1

2018 74

8-1

		1			--
		1	GB18597-2001		--
				5	2021.05
		--			2021.05
		1	80m ³	25	2021.05
		--	--	--	--
				--	
				--	

1.

110kV

D4420

9262m²

2165

30

1.39%

2021 05

2

(2011) 2016

10.

2012

2013

10.

3

[2017]188

8.4km

4.

1

110kV

48.3 51.4 dB(A)

43.7 45.7 dB(A)

GB3096-2008 2

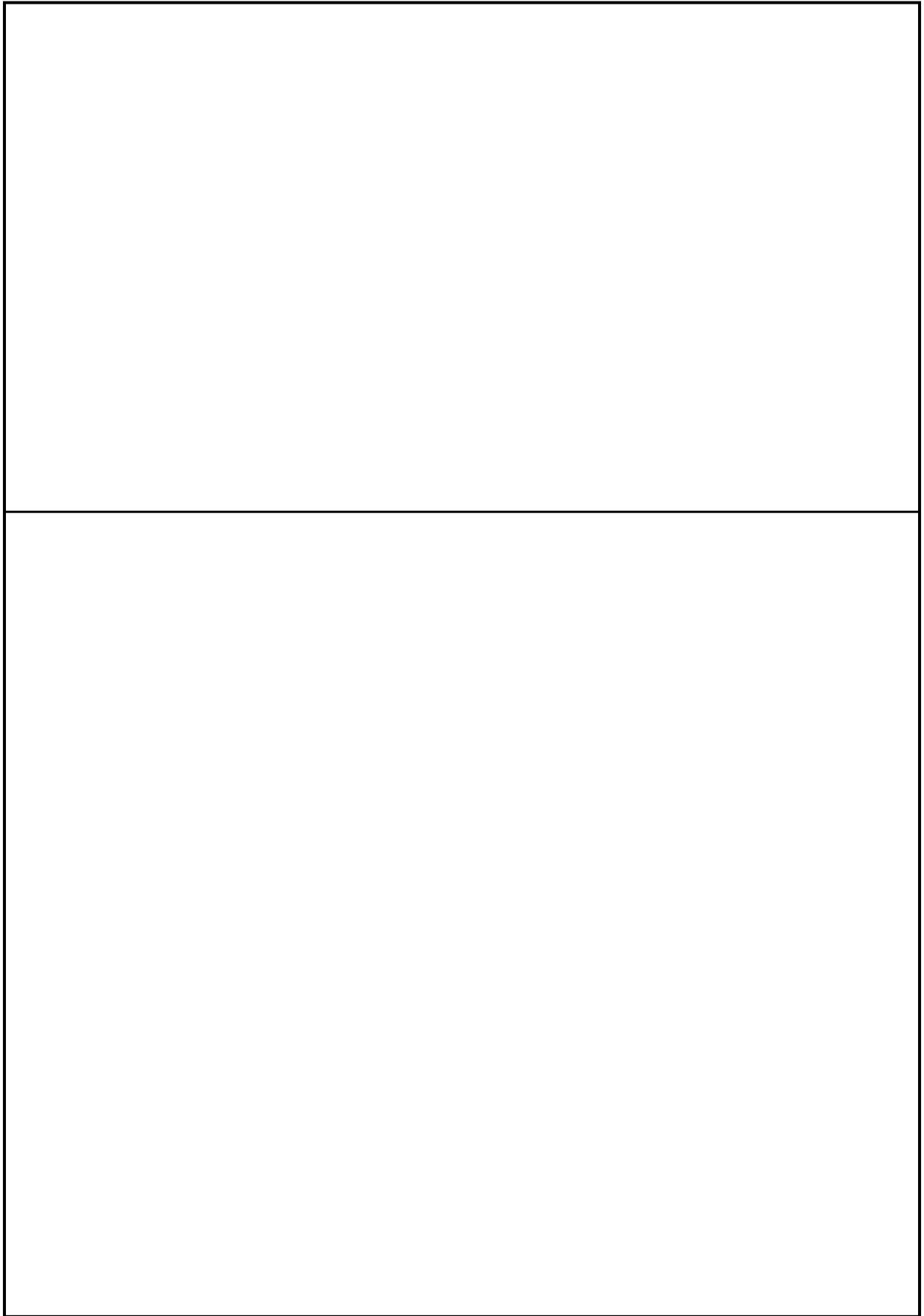
2

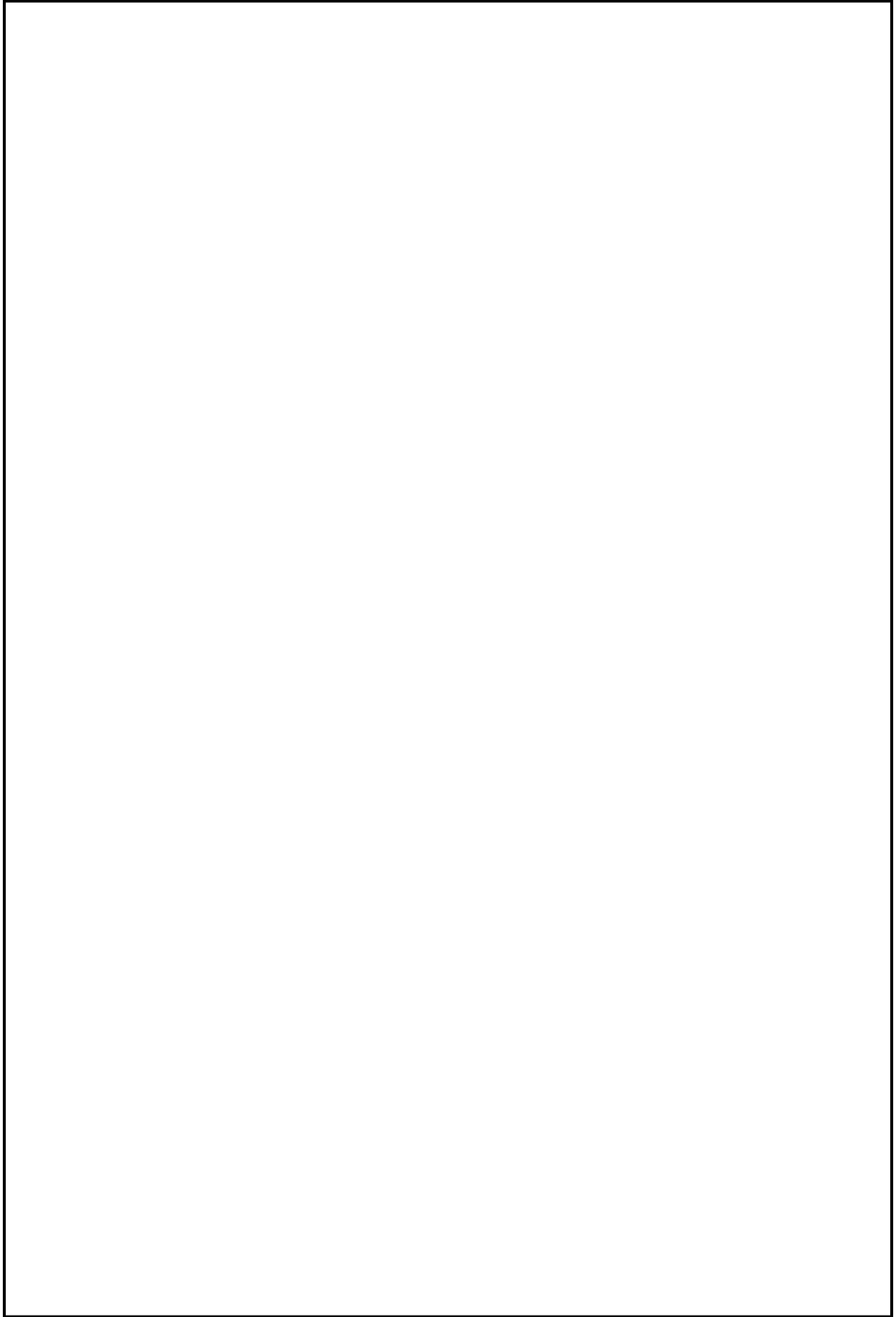
110kV 0.810~5.250
V/m 0.0153 ~0.0161
GB8702-2014 4000V/m 110kV
27.770~28.340V/m
GB8702-2014
4000V/m
110kV

1

2

2017





1
2
3
7
9
10

1
2
3
4
5
6
7

1-2

1.
2.
3.
4.
5.
6.
7.

