香港交易及結算所有限公司及香港聯合交易所有限公司對本公告的內容概不負責，對其準確性或完整性亦不發表任何聲明，並明確表示，概不對因本公告全部或任何部份內容而產生或因倚賴該等內容而引致的任何損失承擔任何責任。

Beijing Jingneng Clean Energy Co., Limited
北京京能清潔能源電力股份有限公司
（於中華人民共和國註冊成立的股份有限公司）
（股份代號：00579）

海外監管公告

本公告乃根據香港聯合交易所有限公司證券上市規則第13.10B條作出。

茲載列北京京能清潔能源電力股份有限公司在上海證券交易所網站刊登的《北京京能清潔能源電力股份有限公司2020年公開發行公司債券（第一期）募集說明書摘要（面向合格投資者）》，僅供參閱。

特此公告

承董事會命
北京京能清潔能源電力股份有限公司
康健
公司秘書

中國 • 北京
2020年4月13日

於本公告刊發日期，本公司的非執行董事為劉海峽先生、任啟貴先生、李娟女士及王邦宜先生；本公司的執行董事為張鳳陽先生、朱軍先生及曹滿勝先生；而本公司的獨立非執行董事為黃湘先生、張福生先生、陳彥璁先生及韓曉平先生。

北京京能清洁能源电力股份有限公司

募集说明书摘要

（住所：北京市延庆区八达岭经济开发区紫光东路 1 号 118 室）

牵头主承销商、受托管理人、簿记管理人

中信建投证券股份有限公司

（住所：北京市朝阳区安立路 66 号 4 号楼）

联席主承销商

国信证券股份有限公司

（住所：深圳市红岭中路 1012 号国信证券大厦 16-26 层）

二〇二〇年九月

AAA

AAA

2,276,261.27 2019 9 30

197,234.03

2016 2017 2018

1.5

395,615.21 393,560.81 392,273.62

-343,544.03 -357,867.48 -

344,621.50 2019 1-9 358,356.01

-345,552.03

128,953.01

120,051.40 84,660.12 64,753.52 49.09%

48.43% 31.86% 30.60%

2018 68,449

8.49% 18.97 6.57%

2009

http://www.lianhecreditrating.com.cn/

http://www.sse.com.cn

.....9

.....9

.....13

.....13

.....17

.....17

.....18

.....18

.....18

.....20

.....23

.....23

.....23

.....30

.....33

.....34

.....43

.....48

.....57

.....67

.....107

.....114

.....114

.....115

.....116

.....116

.....116

.....125

.....126

.....

8,244,508,144.00

8,244,508,144.00

1993 2 3

91110000101718150E

1 118

H 00579

102101

010-64469988

010-87407009

010-64469736

2010

04 29

2018 6 28 2017

2019 7 2

2019

2019

2019 9 30 2019 1800

20 20

1

2 2020

3 10 10

4 100

5 3

5

6

7

8

9

10 2020 4 15

11 2020 4 16

12

13 2021 2023 4 16
2021 2025 4 16
1

14

15 2023 4 16
2025 4 16 1

16 2020 4 16 2023 4 15 2020 4 16 2025 4 15

17

29 AAA

AAA

30

2020 4 13

2020 4 14

2020 4 15

2020 4 17

1 118

010-87407062

010-64469736

9 7

010-58137799

010-58137788

100020

16 2 4

010-88095588

010-88091190

100077

22

010-85665588

010-85665120

100004

38 508

010-85172818

010-85171273

100022

3

010-68311546

010-68311546

528

021-68808888

021-68804868

166 3

021-38874800

021-58754185

2019 9

AAA

AAA

2020

www.sse.com.cn

www.lianhecreditrating.com.cn

AAA

AAA

1

2018 7

2

1

2

3

4 2018 7

3

1 5.31

2

3

2019 9 603.35

144.12 459.23

4-1

%

1	16	SCP001		10	270	2016-01-27	2016-10-23	2.97	
2	16	SCP002		10	270	2016-02-25	2016-11-21	2.70	
3	16	SCP003		10	270	2016-05-11	2017-02-05	3.02	
4	16	SCP004		10	270	2016-06-17	2017-03-14	3.08	
5	16	CP001		10	1	2016-07-07	2017-07-07	2.80	
6	16	CP002		10	1	2016-08-23	2017-08-23	2.70	
7	16	CP003		10	1	2016-10-28	2017-10-28	3.03	
8	16	SCP005		10	270	2016-11-16	2017-08-13	3.27	
9	17	SCP001		20	270	2017-03-09	2017-12-04	4.30	
10	17	SCP002		20	270	2017-08-18	2018-05-15	4.58	
11	17	SCP003		20	270	2017-11-13	2018-08-10	4.90	
12	17	MTN001		20	5	2017-12-01	2022-12-01	5.50	
13	17	SCP004		20	120	2017-12-14	2018-04-13	5.15	
14	18	SCP001		10	240	2018-03-07	2018-11-02	4.98	
15	18	MTN001		15	5	2018-04-03	2023-04-03	5.19	
16	18	CP001		15	1	2018-04-27	2019-04-27	4.65	
17	18								

20 2019 9

227.63

8.79% 40%

4-2

	2019 9	**2018**	**2017**	**2016**
	0.73	0.75	0.48	0.35
	0.72	0.74	0.47	0.35

8,244,508,144.00

8,244,508,144.00

1993 2 3

91110000101718150E

1 118

H 00579

102101

010-64469988

010-87407009

010-64469736

2010

04 29

1 1993 2

1993 2 3

1993 1 29

3,000

1993 2 6

05222411 3,000

2004 11 18

[2004]45

2 2006 6

2006 10 26

[2006]333

50,000

2006 11 16

11000012224112

3 2009 5

2009 5 12

40,000 10,000

50,000 100,000

2009 5 25

110000002224112

4 2009 12

2009 12

2009 9 30

5,000 644.1224 4,355.8876

100,000

100,644.1224 100,000

99.36% 644.1224 0.64%

2009 12 29

110000002224112 2006 11 16

2056 11 15 1 118

5 2010 1

2009 12 15

2010 1 21

2009 9 30

125,000 15,977.1088 109,022.8912

100,644.1224

116,621.2312 100,000

85.748% 644.1224

0.552% 5,368.0753 4.603%

383.6839 0.329%

1,533.5692 1.315%

5,112.6748 4.384%

3,579.1056 3.069%

2010 3 19

[2010]366 2010

3 25

[2010]214

2010 4 29

110000002224112

1		100,000	100,000	85.748%
2		5,368.0753	5,368.0753	4.603%
3		644.1224	644.1224	0.552%
4		383.6839	383.6839	0.329%
5		1,533.5692	1,533.5692	1.315%
6		5,112.6748	5,112.6748	4.384%
7		3,579.1056	3,579.1056	3.069%
		116,621.2312	**116,621.2312**	**100%**

2010

2010 6 13

2010 6 30

[2010]99 2010 8 3

H 1,032,200,000

H 103,220,000 2011 12 22 H

00579

2012 1 13 H

129,476,000 H 117,705,454

H 11,770,546 6,149,905,454

614,990.5454 6,149,905,454

2012 8 21

110000002224112

1			417,932.1592	67.958%
2			22,434.8291	3.648%
3			2,690.4249	0.437%
4			1,603.5322	0.261%
5			6,575	1.069%
6		H	21,920	3.564%
7		H	15,345	2.495%
8		H	126,489.6	20.568%
		/	**614,990.5454**	**100%**

2013 10

2013 5 24

[2013]99 2013 10 8

[2013]1278 327,508,000 H 2013

10 23 H 1,965,054,000 H

6,47,741.3454

6,477,413,454

2014 6 9

[2014]425

65,750,000

2013 12 17

2014 7 14

2014 7 14

110000002224112

1			417,932.1592	64.521%
2			22,434.8291	3.464%
3			9,265.4249	1.43%
4			1,603.5322	0.248%
5		H	196,505.4	30.337%
			647,741.3454	**100%**

2014 10

2014 6 16

[2014]98 2014 9 23

[2014]992 393,010,000 H

2014 10 7 H 2,358,064,000

H 687,042.3454

6,870,423,454

2016 9 22

91110000101718150E

1			417,932.1592	60.831%
2			22,434.8291	3.265%
3			9,265.4249	1.349%
4			1,603.5322	0.233%
5		H	235,806.4	34.322%
			687,042.3454	**100%**

2018 7

2017 8 9

[2017]105 2017 12 27

[2017]2448 902,471,890

471,612,800 H 2018 7 12

8,244,508,144 824,450.8144

8,244,508,144

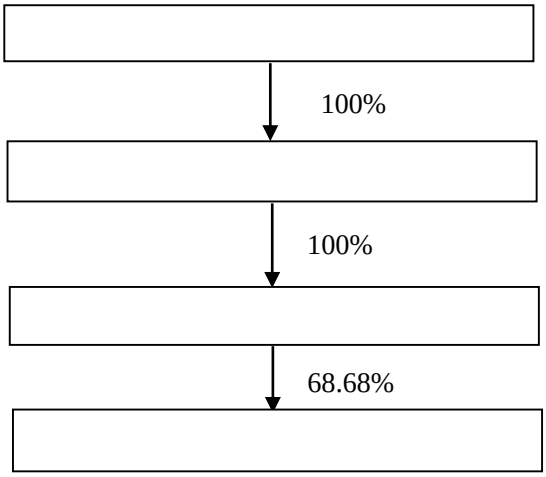
2018 8 29

9111000010171850E

1			508,179.3482	61.639%
2			22,434.8291	2.721%
3			9,265.4249	1.124%
4			1,603.5322	0.194%
5		H	47,161.28	5.720%
6		H	235,806.4	28.602%
			824,450.8144	**100%**

2019 9

6-1 2019 9



2019 9

1

2004 12 8

21,338,060,000

110000007832879

2 A 9

100022

010-85218888

010-85218832

www.powerbeijing.com

[2004]4

2004 12 8

4

2018 12

31 27,530,070.77 17,494,220.20

2018 6,647,765.66 299,489.00 2019

9 30 28,734,907.62 18,422,678.26

2019 1-9 4,409,405.98 321,711.49

2

[2009]2

2008 12 [2008]76

74.24% 20% 5,000

/

2019 9 30 66 3 1

6-1 2019 9

%

1		74,729.73	6	74.00	
2		87,678.00	29	100.00	
3		32,577.00	15	100.00	

4		76,051.20		100.00	
5		101,000.00	1	100.00	

2018 211,313.01 82,335.56
128,977.45 2018 223,357.81
30,402.74

2019 9 187,499.60 35,963.76
151,535.84 2019 1-9 151,141.70
22,558.38

2

2003 9 10
32,577.00
100%

2018 92,680.28 49,008.57
43,671.71 2018 102,050.88 4,107.13

2019 9 74,085.80 28,513.77
45,572.04 2019 1-9 69,483.77
1,900.32

3

2003 12 29
87,678.00
100%

-

2018 276,335.13 148,152.05
128,183.08 2018 242,122.26
27,448.77

2019 9 269,679.09 145,537.62
124,141.47 2019 1-9 171,912.01
20,662.28

4

2010 12 30
76,051.20
100%

2018 277,877.67 162,714.18
115,163.49 2018 235,188.73
30,750.06

2019 9 252,591.35 144,885.03
107,706.31 2019 1-9 159,247.94
20,217.88

5

2012 4 11
101,000.00
100%

2018 390,531.06 225,928.17
164,602.89 2018 389,111.95 45,643.90

2019 9 324,434.50 128,349.34
196,085.16 2019 1-9 253,904.15

31,482.26

6

2013 4 23

29,189.86

100%

2018 171,190.72 119,049.65

52,141.07 2018 67,809.77 2,532.08

2019 9 173,481.00 120,

2018 60,600.41 25,605.61
34,994.80 2018 16,997.32 8,077.83

2019 9 63,216.51 22,087.62
41,128.89 2019 1-9 11,976.72
6,134.09

9

2002 3 20
9,000.00
100%

2018 26,622.39 6,448.35
20,174.04 2018 9,568.09 4,009.93

2019 9 27,485.20 4,470.48
23,014.72 2019 1-9 6,515.97
2,840.67

10

2008 5 12
79,235.00
100%

2018 251,913.41 150,828.31
101,085.10 2018 36,355.51
14,503.98

2019 9 256 570.29 146,569.06

110,001.23 2019 1-9 25,397.97
8,916.13

11

2010 10 10
41,132.70
100%

2018 144,462.63 94,452.04
50,010.59 2018 19,839.92 6,284.57

2019 9 151,269.38 97,716.78
53,552.60 2019 1-9 13,276.96
3,542.01

12

2010 5 19
25,924.80 100%

2018 98,397.35 65,112.42
33,284.93 2018 14,583.32 4,997.70

2019 9 95,887.07 59,644.76
36,242.31 2019 1-9 9,529.68
2,957.38

13

2011 3 15
41,514.00
100%

2018 69,712.04 37,048.37

32,663.67 2018 9,741.59 4,116.42

2019 9 114,430.19 66,242.95

48,187.24 2019 1-9 6,974.92 2,523.57

14

2014 3 25

33,005.00

100%

2018 140,493.13 99,987.93

40,505.20 2018 17,323.19 6,185.22

2019 9 173,814.95 114,086.32

59,728.64 2019 1-9 12,993.56

5,118.81

6-2 2019 9

%

	32 2 806	63,000.00		24.21	
	11	2,500.00		40.00	
	2	6,000.00		50.00	
	16 CBD 22	340,000.00		20.00	

1

2007 8 1

63,000 24.21%

2018 256,026.88

197,611.04 58,415.84 2018 0

0 2

2

2004 9 23

2,500 40.00%

2018 18,549.97

2018 6,783,259.17

4,095,086.84 2,688,172.33 2018

1,267,436.48 80,639.92

3

1

30%

3% 3%

2

1

2 3

4 5

6

7

8 9

10 11

12

13 14

15 16

17

18 19

20

21

6 7 14

3

3

1 2

3

4

5 6

7

8 9

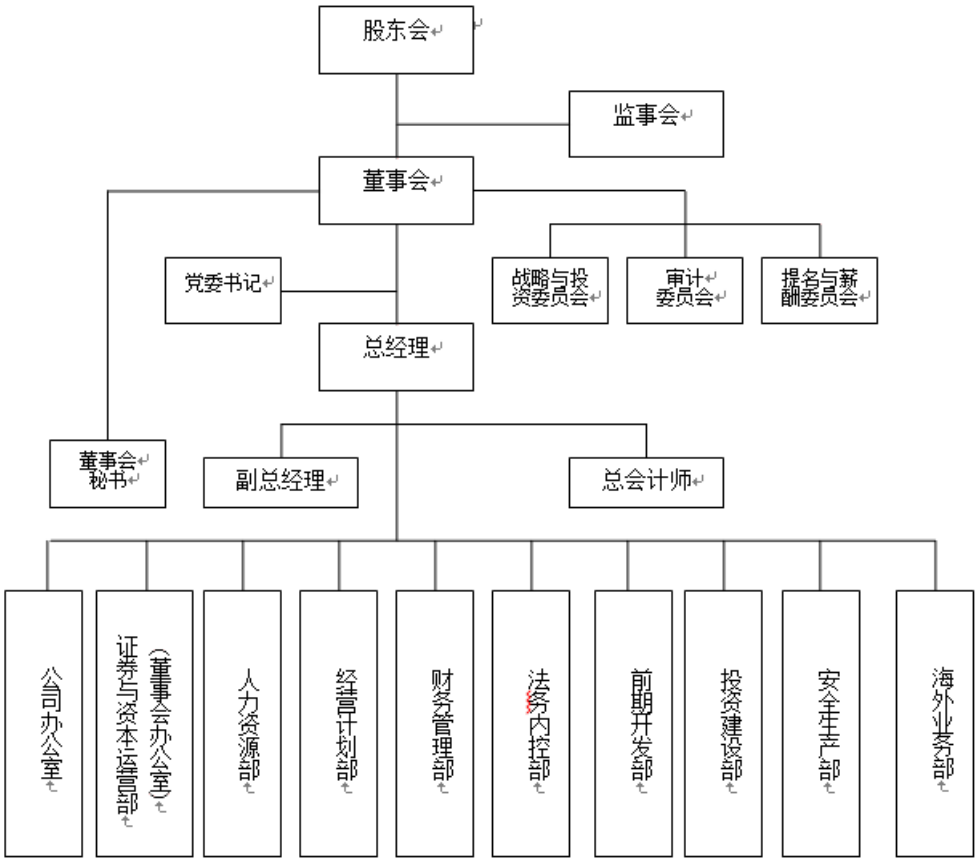
10

11

4

1

2


股东会
监事会
董事会
党委书记
战略与投资委员会
审计委员会
提名与薪酬委员会
总经理
董事会秘书
副总经理
总会计师
公司办公室
证券与资本运营部（董事会办公室）
人力资源部
经营计划部
财务管理部
法务内控部
前期开发部
投资建设部
安全生产部
海外业务部

1

2

3

4

5

6

7

8

9

HSE

10

1

2020

3

378 [2003]

[2009]

10

4

5

6

7

1

2

3

8

9

10

11

H

13

1

2

3

4

5

6

14

1

2

/ 3

1 2 3

1 2

3

4 5

15

10%

6-3

			2018 6 28	

2019 6 20

			2019 6 20	-
			2019 6 20	-
			2016 12 29	-
			2015 6 25	-
			2016 12 29	
			2014 10 28	
			2019 6 20	
			2019 6 20	
			2010 1	-
			2018 5 25	-
			2018 5 25	
			2010 3	-

2018 5 25 2018

2018 6 28

2019 1 30

2019 6 20

1

1

1961 7 2018 6

1983 7 1985 8

1985 8 1991 5

1991 5 1994 3

1994 3 1998 8

1995 9 1998 7

1998 8 2000 2

2000 2 2000 4

2000 4 2004 3

2004 3 2004 12

2004 12 2009 5

2009

5 2014 12

2014 12

2000 4 2018 3

991

601991

1962 5 1986 8 1995 6

1995 6 2006 7

2006 7

2010 6 2010 6

2011 6

2011 6 2012 8 2012 8 2012

9 2012 9 2013

11 2013

11 2017 3 2017

3 2017 7 2017

7 2017 11 2017

11 2019 3 2019 3

1986 7

2008 6

1985 3 2018 6

2010 1 2015 1

2015 1 2016 11

2016 11 2017 8

2017 8 2018 3

2018

2007 9

2009 6

1973 8 2019 1 30

2000 8 2001 8

2005 7 2008 9

2008 9 2010 9

2010 9 2011 6

2011 7 2012 3

2012 4 2013 12

2013 12 2017 10

2014 2 2015 7

2015 7 2017 10

2017 4

1995 7

2000 6

2005 6

2008 11

2

1970 1 2018 2

1994 7 2000 9

2000 9 2003 10

2003 10 2004 7

2004 7 2007 4

2007 4 2009 7

2009 7 2013 11

2013 11 2018 6 2018
2

1968 2 1990 7 1998 12

1998 12 2003 4
2003 4 2004 12

2004 12 2009 3 2009
3 2010 3 2010 3
2017 11
2017 11 2018 1
2018
1 2018 5
2018 5 2018 6

2018 6 2019 6
1990 6
2010 12

1970 8 1993 7 2001 12
2001 12
2005 2
2005 2 2012 8

2012 8 2017 11
2017 11 2018 1
2018 1 2018 5
2018 5 2019 6

1993 7

2003 6

3

1956 6 2016 12

1982 7 1991 1

1991 1 1993 8

1993 8 2001 11

2001 11 2014 3

2004 3 2016 6

2016 6 1982 7

1955 5 2015 6

1990 6 1994 6

1994

1994 7 1997 4

1997 4 2001 1 2001 1

2004 9 2004 9 2006 9

2006 9 2008 9

2008 9 2013 5

1979 11

2016 12

2003 11 2010 7

2010 10 2011 4

2011 6 2012 7

2012 7 2013 8

02700 2014 2 2016

5 8019

2014 9

1220

2016 11

2023

2001 11

2011 11

1957 9 2014 10

1986 1988

1988 2000

2016 6

1281

2018 4

1671 2019 6 18

002015.sz

2

1964 8 1986 7 1988 7

1987 6 1988 6

1988 7 1994 9

1994 9 1997 5 1997 5

1998 12 1998 12
1999 9 1999 9 2000
3 2000 3 2001 10
2001 10 2002 5
2002 5 2004 11
2004 12 2009 12
2009 12 2013 6
2013 6 2013 9
2013 9 2018 5 2018
5 2018 9 2018 9
1986 7
2004 7
2008 1

1972 11 1995 7 1998 1
1998 1 2007 7
2007 7 2010 3
2010 3 2010 6
2010 6 2013 4
2013 4 2018 6
2014 10
2015 5 2018 7
2015 6
2017 12 2018 6 2019
1 2019 1

1995 7
2007 7

1968 8 16

2010 1 1993 12

2010 8

2010 8 2018 6

2018 6

3

1969 12 20

2018 5 1992 7 2003 8

2003 11 2004 11

2004 12 2007 9

2007 9 2009 7

2009 7 2012 3 2009 5

2012 3

2012 3 2014 10

2014 10 2016 8

2016 8 2017 3

2017 3 2018 1

1970 7

20 2018 5 1996

3 2004 12

2004

12 2018 5

2013 6

2015 11

1963 5 20

2010 3

1999 7 2000 2

2000 4 2003 3 Tucows

2004 1 2009 7

2009 8 2009 12 2009 12

2016-2018 2019 1-9 1,484,882.35

1,452,084.89 1,658,446.04 1,178,002.93

90.49% 88.95% 90.42%

9.38% 10.63% 9.31%

6-4

%

	2016		2017		2018		2019 1-9	
	1,343,622.14	90.49	1,291,609.75	88.95	1,469,497.77	88.61	1,065,173.46	90.42
	139,222.48	9.38	154,310.60	10.63	183,647.87	11.07	109,674.04	9.31
	496.70	0.03	154.73	0.01	388.91	0.02	104.97	0.01
	1,541.03	0.10	6,009.81	0.41	4,911.49	0.30	3,050.47	0.26
	1,484,882.35	**100.00**	**1,452,084.89**	**100.00**	**1,658,446.04**	**100.00**	**1,178,002.93**	**100.00**

2016-2018 1,202,044.16 1,158,334.81
1,274,555.87 2017 2016 3.64%
2017 9 29 2.51 / 2.41 / 2018
10.03% 2018

6-5

%

	2016		2017		2018		2019 1-9	
	1,047,394.17	87.13	979,741.26	84.58	1,060,056.50	83.17	796,874.30	86.98
	153,730.09	12.79	177,289.79	15.31	212,964.33	16.71	119,046.16	12.99
	403.11	0.03	125.83	0.01	326.46	0.03	49.31	0.01
	919.90	0.08	1,177.93	0.10	1,208.58	0.09	211.34	0.02
	1,202,044.16	**100.00**	**1,158,334.81**	**100.00**	**1,274,555.87**	**100.00**	**916,181.11**	**100.00**

19.05% 20.23%
23.15% 22.23% 2018 2017 2.92 2019 1-
9 117.80 4.53%
2018
2019 9 25.19%
22.23%

6-6

%

	2016		2017		2018		2019 1-9	
	296,227.97	22.05	311,868.49	24.15	409,441.27	27.86	268,299.16	25.19
	-14,507.61	-10.42	-22,979.19	-14.89	-29,316.46	-15.96	-9,372.12	-8.55
	93.59	18.84	28.90	18.68	62.45	16.06	55.66	53.02
	621.13	40.31	4,831.88	80.40	3,702.91	75.39	2,839.13	93.07
	282,435.08	**19.05**	**293,750.08**	**20.23**	**383,890.17**	**23.15**	**261,821.82**	**22.23**

6-7 2019 9

		2019 1-9	2019 1-9	%
	4,702	14,107,627.49	770,426.84	65.40
	2,348	3,465,572.40	150,969.32	12.82
	450	1,410,890.17	28,118.81	2.39
	1,415	1,472,501.58	115,658.49	9.82
	8,915	**20,456,591.64**	**1,065,173.46**	**90.42**

1

7

1

80%

2017 9 1

0.1 /

2.41 /

2017 11 15 2018 3 15

0.16 / 2.57 /

2017 2016 2.50 / 2018 7 10

2.39 / 2018 11 15 2019 3 15

0.23 / 2.62 /

2018 2017

2.47 / 2019 1-9 2.43 /

6-8

/

	2016	**2017**	**2018**	**2019 1-9**
	39.52	36.44	40.45	29.33
	2.51	2.50	2.47	2.43

6-9 2018

				/
	410	4,005	160,679	0.65
	780	4,315	326,225	0.65

0.495 /

2018

4,702 1308 845

838 780 410

255 266 2019 1-9

2005

2011 5 27

0.528 / 0.538 / 2011 11

29 2011 12 1

0.573 / 2014 1 20

0.65 2018 0.495 / 0.65 /

2016 4,436 2016 18,970,194.26 1,672,104.39 4,078 3,364,295 4,313 3,610,765.95 4,309 1,080,922.59 4,239 3,630,252.78 4,296 5,611,853.55 4,290

2017 4,436 2017 17,091,025.05 1,547,874.90 3,866 2,959,418 3,917 3,495,374.85 4,262 946,942.15 3,833 3,165,805.5 3,835 4,975,609.65 3,896

2018 4,702 2018 18,871,155 1,606,787 4,005 3,262,248 4,315 3,541,250 4,323 1,060,477 4,281 3,459,994 4,191 5,574,257 4,363 366,142 1,407

2

60 ℃ 130 ℃

24

11 15 3 15

24

11 15 3 15

2

2005

2007

2009

2018

2018 2,348.25 2018

50.43 2,177

82 2019 1-9 34.22

8.38%

6-10

	2018	**2017**	**2016**

3

2010 2020

2018 370 1,168

2018 15.00

33.33% 1,441 229

6-11 2018

%

		1,096,710.00	66.13
		170,148.21	10.26
		106,473.52	6.42
		59,386.40	3.58
		37,288.66	2.25
		1,470,006.79	**88.64**

1

2018 4,702

1,308 845 838

780 410 255

266 2019 1-9

1

90%

6-12

	/
2016-01-01 2017-08-31	2.51
2017-09-01 2017-11-14	2.41
2017-11-15 2018-03-15	2.57
2018-03-16 2018-07-09	2.41
2018-07-10 2018-11-14	2.39
2018-11-15 2019-03-15	2.62
2019-03-16 2019-04-30	2.39
2019-05-01 2019-06-30	2.31
2019-07-01 2019-09-30	2.31

2

2005

2011 5 27

2011 4 10 528.00

/MW 538.00 /MW 2011 11 29

2011 12 1 573.00 /MW 2014 1 20

2014 1 20

0.65 650.00 /MW

2

2005 2007

62%

2018 2,348.25

1

2017 1 1

2018 1 1 2018

0.85

0.75

2019 5 21 2019 882

2019 I

0.34 0.39 0.43 0.52

2020 0.29 0.34 0.38 0.47

2018

2020 2019 1 1 2020

2021 2021 1

1

2

2019 9

1

1

GDP 2008~2009

GDP 2010

14.56% 2011

2017 6.31 6.6%
2016 1.6

40%

2017 6.31
6.6%
2017
17.8 7.6% 2016 0.6 2017
13,372 1,287
3.41 4,578 2015
1,822

2018 68,449 8.49%
728 9.80% 47,235
7.17% 10,801 12.75%
9,685 10.35%

2019 72255 4.5%
780 4.5% 49362
3.1% 11863 9.5%
10250 5.7% 2019
10173 417 4092 2019

2

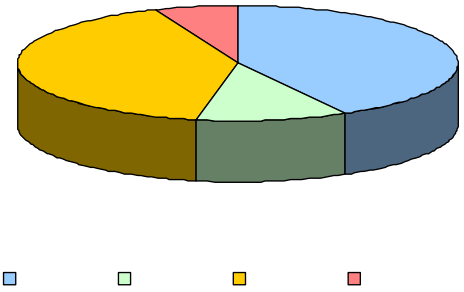
GDP

3

42% 53%

94%

6-3



Wind

4

70%

5

200

55

100 60 500

6

1

2020

15%

8

1

2

2020

2020

2019

I

0.34 0.39 0.43 0.52 2020

0.29 0.34 0.38 0.47

2018 2020

2019 1 1 2020

2021 2021 1 1

2

2016 12

1

2

3

4

5

6

7

2017 6

1

2020 7600 2.1% 2

2020 500

95% 8% 2017

2020

3 2020

2020 2015 17% 4

500

3,500 100%

15% 5

99.995% 27

5

10

9.5 7,000

95% 5

280 14

99.99% 7

9

6-13

	指标名称	单位	2015 年	2020 年	年均增长（%）	属性
总量与结构	★能源消费总量	万吨标准煤	6852.6	7600	2.1	约束性
	★煤炭消费量	万吨	1165.2	500	−15.6	约束性
	★煤炭消费比重	%	13.7	4.7	[−9]	约束性
	油品消费量	万吨	1583.8	1600	0.2	预期性
	油品消费比重	%	33.5	30.5	[−3]	预期性
	天然气消费量	亿立方米	145.4	190	5.5	预期性
	天然气消费比重	%	29	31.6	[2.6]	预期性
	★可再生能源消费量	万吨标准煤	450	620	6.6	约束性
	★可再生能源消费比重	%	6.6	8 以上	—	约束性
	全社会用电量	亿千瓦时	952.7	1100	2.9	预期性
电力发展	电力装机容量	万千瓦	1071	1300	3.95	预期性
	其中：燃气装机容量	万千瓦	846.7	994.4	3.3	预期性
	可再生能源装机容量	万千瓦	47	200	33.6	预期性
	全市供电可靠率	%	99.9886	99.995	[0.0064]	预期性
节能减排	★单位地区生产总值能耗降幅	%	—	—	[17]	约束性
	★单位地区生产总值二氧化碳排放降幅	%	—	—	[20.5]	约束性
	电网综合线损率	%	6.89	6.73	[−0.16]	预期性
能源惠民	居民人均生活用电量	千瓦时	808.7	1000	4.3	预期性
	农网户均变电容量	千伏安	2 左右	7	[5]	预期性
	农网供电可靠率	%	99.95	99.99	[0.04]	预期性

[illegible]为五年累计数，主要发展指标共 20 项，其中“★”为约束性指标，共计 7 项。

6-14　　2020

年份 / 能源品种	2015 年			2020 年		
	实物量	标准量（万吨标准煤）	比重（%）	实物量	标准量（万吨标准煤）	比重（%）
煤炭（万吨）	1165.2	937.7	13.7	500	360	4.7
调入电（亿千瓦时）	537	1504.1	21.9	770（含外调绿色电力 100 亿千瓦时）	2300	30.3
天然气（亿立方米）	145.4	1984.9	29	190	2400	31.6
油品（万吨）	1583.8	2298.3	33.5	1600	2320	30.5
其他能源（万[illegible]）		127.6	1.9		220	2.9
合计		6852.6	100		7600	100

根据国家第三次经济普查统计口径平衡测算

3

1

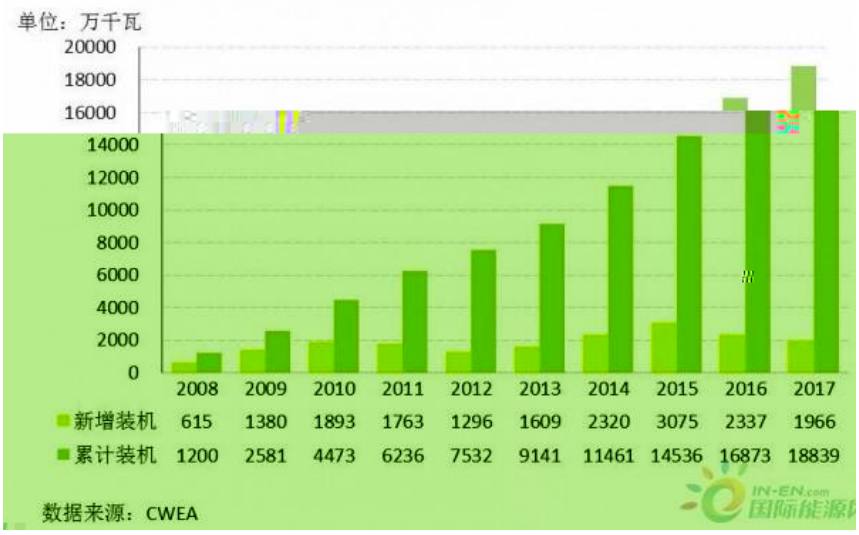
2018

51.3GW GWEC

2023 55GW

2017

6-4 2008-2017



2

1

900

10 100 /

32.26 2.53

7.5 10

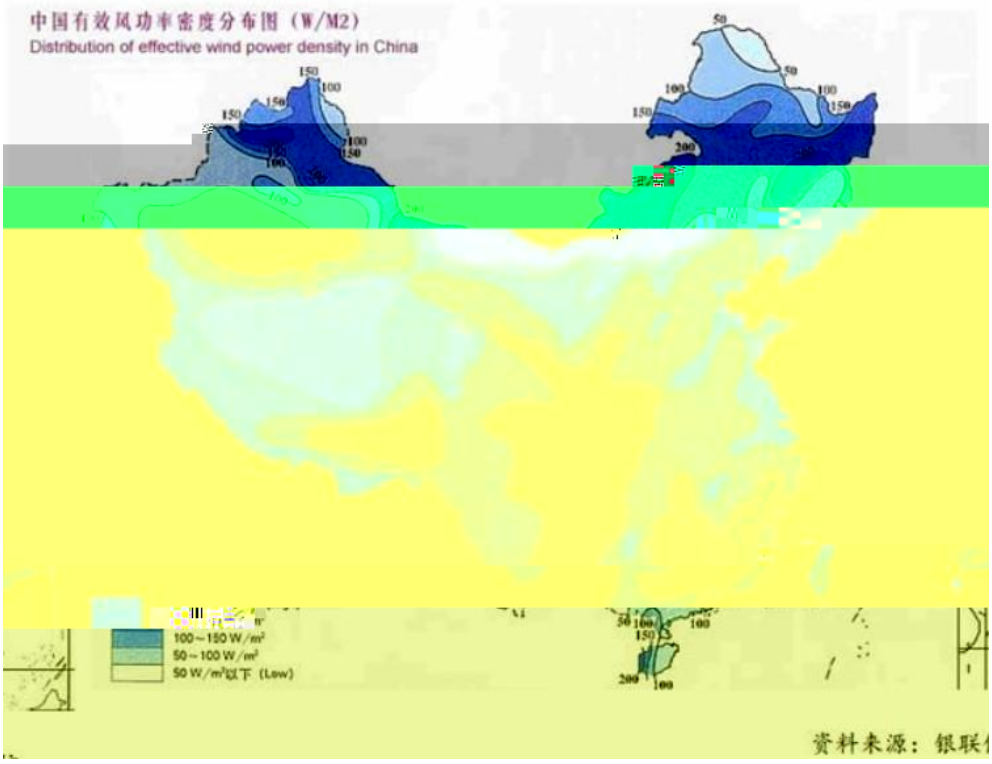
2,000 5,000

2,500 1.8 2.3

50

3,000

6-5



/ 200

200-300 / 500 /

2 79%

1,800 6,000

200 /

500 /

7,000-8,000

50

100 /

3,000

10 7

20% 70% 20

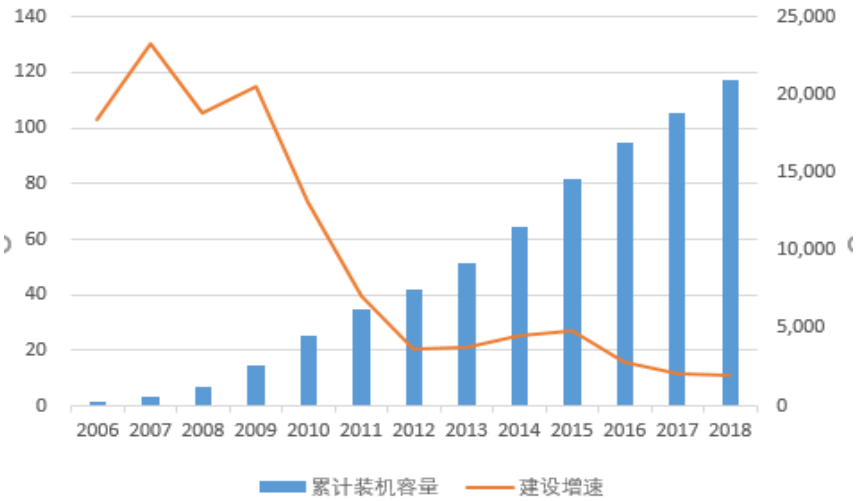
25 30

2

2018 1.84

2018 2,059 9.7%

6-6 2006-2018



Wind

3

2016 11

2020 2.1

500 4,200

6%

2005

2006 1

1

2 2011 11 30 12 1

3

2 6

0.4 0.8

2014 12 31

[2014]3008 2015 1 1

2015 1 1 2016 1 1

2

0.49 0.52 0.56 0.61

6-15

	2016	**2018**	
	0.47	0.44	
	0.50	0.47	
	0.54	0.51	
	0.60	0.58	

[2015]3044

2016 12

26

[2016]2729 0.4 2018 1 1

0.4

0.45 0.49 0.57

2019 5 21

[2019]882

1

2 2019 I

0.34 0.39 0.43

0.52 2020 0.29 0.34

0.38 0.47

3

4 2018 2020

2019 1 1 2020 2021

2021 1 1

4

2020

92%

2015 14% 10% 2015 26% 33%

50% 8%

1

2010 75

2017 2352 17% 2010

13% 20%

2

63

2015

3

4

2015 8.5

20% 70%

3%

2012 3

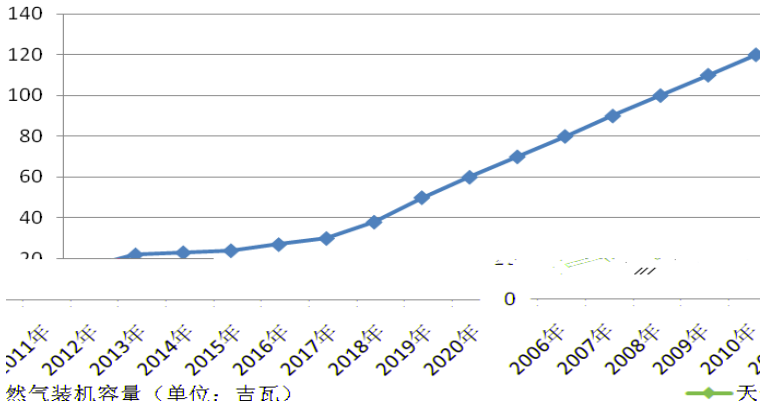
2015 2020 4,000

5,000

2015 2020

100 300

6-7



1

2

2018 4,702

1,308 845

838 780 410

255 266

2018

2,348.25 2018

50.43 2,177 82

2019 1-9 34.22 8.38%

3

2015

20% 2020 25%

4

9F

5

6

1

1

2015

20% 2020 25%

2

3

2

[2010]30

1:1

63

2015 5.3 2

2019 9

87.20 2019 51.46

2019 9

6-16 2019 9

					2019 9
	50.00	3.92	0.78	3.14	1.13

					2019 9
	150.00	10.55	2.11	8.44	3.44
	200.00	13.00	2.60	10.40	3.45
50MW	50.00	3.54	0.71	2.83	1.19
	200.00	22.64	4.53	18.11	0.97
49.5MW	49.50	4.43	0.89	3.54	0.04
	699.50	**58.08**	**11.62**	**46.46**	**10.22**
50MWp	50.00	3.74	0.75	2.99	3.74
	20.00	1.47	0.29	1.18	1.05
	30.00	2.50	0.50	2.00	1.77
	100.00	6.34	1.27	5.07	5.62
	100.00	5.99	1.20	4.79	5.12
	110.00	7.04	1.41	5.63	7.51
	30.00	2.04	0.41	1.63	0.71
	440.00	**29.12**	**5.83**	**23.29**	**25.52**
	1,139.50	**87.20**	**17.45**	**69.75**	**35.74**

6-17

2016-2018

1

1 /

6-18

%

	2018		**2017**		**2016**	
	11,459.43	93.13	10,441.19	98.40	12,340.56	79.05

	2018		2017		2016	
	3,581.10	15.71	3,677.70	16.95	5,856.01	31.34
	2,065.61	9.06	1,989.49	9.17	2,018.13	10.80
	2.73	0.01	-	-	-	-
	82.86	0.36	-	-	-	-
	7,482.08	32.83	6,691.06	30.84	6,587.70	35.26
	-	-	5.26	0.02	-	-
	6.89	0.03	159.30	0.73	192.96	1.03
	1,764.15	7.74	1,824.80	8.41	14.20	0.08
	7.42	0.03	9.86	0.05	-	-
	1,665.73	7.31	-	-	-	-
	699.06	3.07	1,905.57	8.78	1,889.18	10.11
	-	-		0.00	1.39	0.01
	4,923.19	21.60	4,557.64	21.01	2,105.49	11.27
	6.87	0.03	78.23	0.36	5.08	0.03
	242.15	1.06	592.45	2.73	-	-
	109.05	0.48	192.37	0.89	-	-
	-	-	11.61	0.05	14.86	0.08

%

	2018		2017		2016	
	-	-	58.67	4.82	-	-
	14.99	57.63	1,157.84	95.18	1,345.24	95.51
	-	-	-	-	49.53	3.52
	-	-	-	-	13.70	0.97
	11.02	42.37	-	-	-	-
	26.01	**100.00**	**1,216.51**	**100.00**	**1,408.47**	**100.00**

2

1

6-22 2016

		220,000.00	2013/8/15	2017/8/15
		80,000.00	2012/12/21	2017/12/20
		120,000.00	2012/7/3	2017/6/30

6-23 2017

		676.00	2015/3/23	2025/12/23
		1,332.00	2014/12/4	2025/12/23
		520.00	2015/6/8	2025/12/23
		1,016.00	2015/8/10	2025/12/23
		908.00	2015/11/12	2025/12/23
		680.00	2015/12/3	2025/12/23
		2,376.00	2016/6/6	2025/12/23
		560.00	2016/6/7	2025/12/23
		1,656.00	2016/12/1	2025/12/23

6-24 2018

		8,548.00	2014/12/4	2025/12/23

2

6-25

%

	2018		**2017**		**2016**	
	12,700.00	75.15	13,000.00	75.58	-	-
	3,000.00	17.75	-	-	-	-
	1,200.00	7.10	1,200.00	6.98	-	-
	-	-	3,000.00	17.44	-	-
	16,900.00	**100.00**	**17,200.00**	**100.00**	**-**	**-**

6-26

%

	2018		**2017**		**2016**	
[redacted]	-	-	50,300.00	19.03	50,300.00	29.75
	169,925.00	90.91	198,025.00	74.92	106,800.00	63.16

			2018	2017	2016
			27.27	27.02	49.53

%

		2018 12 31		2017 12 31		2016 12 31	
		790.27	4.80	723.91	1.55	-	-
		12,643.62	76.82	42,780.29	91.83	35,859.73	96.58
		1,292.54	7.85	1,292.54	2.77	751.38	2.02
		954.51	5.80	25.28	0.05	29.45	0.08
		-	-	1,377.57	2.96	-	-
		-	-	1.15	0.00	-	-
		775.72	4.71	252.05	0.54	471.22	1.27
		-	-	131.61	0.28	18.19	0.05
		1.75	0.01	-	-	-	-
		16,458.41	**100.00**	**46,584.40**	**100.00**	**37,129.97**	**100.00**

2016 2017 2018

2019 1-9

2016 2018

2019 1-9

2016 2017 2018 2019 1

	2019 9 30	2018 12 31	2017 12 31	2016 12 31
	435,878.80	556,907.79	339,210.07	186,931.11
			24,717.48	26,575.02

	2019 9 30	2018 12 31	2017 12 31	2016 12 31
	322,445.19	325,108.36	296,680.40	354,085.47
	-	310.10	8,923.32	5,150.11
	7,362.49	8,889.94	-	-
	8,973.67	9,071.21	9,103.39	8,142.85
	14,526.45	30,616.66	26,583.59	23,589.76
	40,074.62	42,331.97	25,500.89	25,947.29
	138,459.92	147,025.61	225,621.58	750,044.66
	660,646.34	600,790.53	600,623.43	600,569.51
	1,654,238.69	**1,696,714.90**	**1,981,474.56**	**2,016,429.65**
	1,185,646.29	1,164,035.02	905,948.81	896,501.28
	349,009.43	349,009.43	200,000.00	-
	21,458.13			
	29,476.11	29,597.97	29,958.36	40,847.53
	81,769.95	62,653.43	56,926.77	47,956.56
	12,510.13	12,542.40	14,154.18	9,618.13
	7,318.99	7,911.87	3,924.27	20,297.07
	1,687,189.03	**1,625,750.12**	**1,210,912.39**	**1,015,220.57**
	3,341,427.72	**3,322,465.02**	**3,192,386.94**	**3,031,650.22**
	824,450.81	824,450.81	687,042.35	687,042.35
	-	-	148,650.00	148,650.00
	388,085.79	388,085.79	223,570.67	223,027.87
	-17,988.63	-16,275.73	3,122.78	-13,593.38
	99,879.37	99,879.37	80,892.92	62,211.49
	935,765.04	827,599.26	711,209.47	599,856.29
	2,230,192.39	2,123,739.51	1,854,488.19	1,707,194.62
	46,068.88	39,747.58	56,912.14	48,780.77
	2,276,261.27	**2,163,487.09**	**1,911,400.32**	**1,755,975.39**
	5,617,688.99	**5,485,952.11**	**5,103,787.27**	**4,787,625.61**

2019

2

7-2

	2019 1-9	**2018**	**2017**	**2016**
	1,178,002.93	**1,658,446.04**	**1,452,084.89**	**1,484,882.35**
	916,181.11	1,274,555.87	1,158,334.81	1,202,044.16
	13,290.77	21,897.83	17,094.30	11,216.68
	-	-	-	-
	34,762.09	53,295.84	46,379.94	41,217.03
	-	97.10	26.71	-
	83,661.47	119,903.52	105,162.53	99,813.17
	-	11,333.41	2,396.11	9,732.11
	-	1,387.62	-	-
	1,462.94	-6,074.52	-120.98	-10,199.25
	12,599.68	11,438.81	5,420.20	23,574.17
	10,383.19	7,887.97	4,795.86	21,283.53

	2019 1-9	**2018**	**2017**	**2016**
	1,326,160.12	1,797,664.09	1,640,270.43	1,687,323.95
	8,879.0	11,966.84	14,066.03	11,541.08
	82,035.33	98,659.06	134,056.75	108,406.89
	1,417,074.46	**1,908,289.99**	**1,788,393.22**	**1,807,271.92**
	807,725.40	1,054,089.20	1,031,718.53	1,096,392.85
	49,738.24	76,920.74	69,423.23	61,404.94
	141,529.64	209,128.35	167,158.09	139,702.90
	20,243.07	38,202.17	28,136.62	27,168.21
	1,019,236.36	**1,378,340.47**	**1,296,436.48**	**1,324,668.90**
	397,838.10	**529,949.52**	**491,956.74**	**482,603.02**
	500.00	14,200.00	600.00	27,000.00
	2,359.76	5,977.08	9,967.83	13,202.28
	2,674.92	192.11	95.51	14.67
	-	-	-	-
	7,269.31	27,282.93	25,030.00	11,854.23
	12,803.98	**47,652.12**	**35,693.34**	**52,071.18**
	338,263.07	349,790.82	354,576.10	374,558.06

	2019 1-9	2018	2017	2016
	1,289,765.91	2,718,745.67	2,753,466.00	1,726,512.81
	149,151.15	159,020.83	180,276.87	167,148.72
	14,967.89	89,272.37	80,124.77	45,059.14
	1,453,884.95	**2,967,038.87**	**3,013,867.65**	**1,938,720.66**
	-174,134.95	**86,913.86**	**-43,566.61**	**-175,370.44**
	-855.34	**6,388.31**	**162.97**	**813.25**
	-122,704.22	**278,630.18**	**90,685.62**	**-35,498.20**
	551,187.02	272,556.84	181,871.22	217,369.42
	428,482.80	**551,187.02**	**272,556.84**	**181,871.22**

1

7-4

	2019 9 30	2018 12 31	2017 12 31	2016 12 31
	89,815.53	168,047.75	151,365.77	24,344.34
	56,443.35	50,083.47	37,279.17	22,624.77
	2,710.15	1,284.04	338.26	301.76
	384,235.70	526,186.10	344,843.80	236,699.65
	215.80	283.71	78.85	88.35
	1,500.00	2,000.00	114,000.00	134,600.00
	918,375.86	765,400.51	426,817.90	476,870.96
	1,453,296.39	**1,513,285.58**	**1,074,723.75**	**895,529.84**
	-	-	12,802.75	12,802.75
	13,624.09	13,624.09	-	-
	1,863,509.33	1,802,351.21	1,706,236.69	1,672,162.35
	124,175.81	131,437.26	141,904.88	91,064.05
	3,717.44	3,662.51	2,833.57	75,934.53

	2019 9 30	2018 12 31	2017 12 31	2016 12 31
	687.44	736.74	474.02	512.81
	-	-	-	1,156.23
	4,131.91	4,131.91	4,389.62	1,795.32
	228,347.19	234,314.07	156,084.44	134,830.09
	2,238,193.22	**2,190,257.79**	**2,024,725.97**	**1,990,258.13**
	3,691,489.60	**3,703,543.36**	**3,099,449.72**	**2,885,787.97**
	266,900.00	406,970.52	393,000.00	104,000.00
	2,152.22	3,303.76	4,444.73	3,202.83
	-	-	-	-

1,033.83

	2019 9 30	2018 12 31	2017 12 31	2016 12 31
	2,057,967.40	2,063,958.22	1,780,202.82	1,651,411.86
	2,057,967.40	**2,063,958.22**	**1,780,202.82**	**1,651,411.86**
	3,691,489.60	**3,703,543.36**	**3,099,449.72**	**2,885,787.97**

7-6

	2019 1-9	**2018**	**2017**	**2016**
	14,126.25	28,037.42	33,754.52	21,634.74
	1,456.31	1,672.92	1,713.74	1,766.45

	2019 1-9	**2018**	**2017**	**2016**
	1,319.05	119,178.24	64,201.61	2,540.95
	1,129,922.76	**2,278,242.89**	**2,439,628.38**	**1,359,236.73**
	-111,022.76	**403,393.84**	**-85,228.38**	**-42,355.41**
	1.39	1,056.78	-27.10	24.14
	-78,232.22	**77,941.98**	**66,021.43**	**4,940.62**
	168,047.75	90,105.77	24,084.34	19,143.71
	89,815.53	**168,047.75**	**90,105.77**	**24,084.33**

2019 1-9

2019 9 66 2018

8

2018

2018 58 2017

2017

2017 2016

100%

2016

2016 2015

100%

2018

1

1

2017 14

2018 1 1

2018

2018 1 1 2018

7-7

		2018 1 1
		-
		-
		-
		-
		84,294,957.79
		-84,294,957.79
		-

2018 12 31

7-8 **2018 12 31**

	-
	-
	-
	-
	88,899,423.12

	-88,899,423.12

2

2017 22

23

24 37

2018 1 1

1 2

3

2018 1 1

2018 1 1 2018

2018 1 1

7-9

		247,174,808.69			247,174,808.69
		-			-
		-			-
					-
		128,027,500.00			-
					142,347,500.00
		4,313,479,265.31			4,313,479,265.31
					-
		232,095,284.26			-
					232,095,284.26
		-			-
					-

					-

2018 1 1

7-10

	2017 12 31			**2018 1 1**
	247,174,808.69	-247,174,808.69	-	-
	-	247,174,808.69	-	247,174,808.69
	4,313,479,265.31	-	-	4,313,479,265.31
	232,095,284.26	-	-	232,095,284.26
	-	-	-	-
	-	-	-	-
	-	-	-	-
	-	-	-	-
	524,101,608.36	-	-	524,101,608.36
	128,027,500.00	-128,027,500.00	-	-
	-	-	-	-
	-	-	-	-
	-	-	-	-
	-	-	-	-
	-	128,027,500.00	14,320,000.00	142,347,500.00
	-	-	-	-
	-	-	-	-
	-	-	-	-
	-	-	-	-

	2017 12 31			**2018 1 1**
	-	-	-	-
	31,227,846.88	-	10,740,000.00	41,967,846.88
	808,929,170.12	-	-	808,929,170.12
	7,112,094,654.64	-	-	7,112,094,654.64
	569,121,375.72	-	-	569,121,375.72

2017

2018

7-11

	2017 12 31			**2018 1 1**
	-	-	-	-
	3,319,878.77	-	-	3,319,878.77
	10,814,017.56	-	-	10,814,017.56
	-	-	-	-

3

2018

[2018]15

A

B

C

[2018]15

4 2018

5 9-12

9 [2017]16

10 [2017]17

4

11 [2017]18

6

12 [2017]19

36

2

2018

3

2018

4

2018

2017

1

7-12 2017

42 2017 5 28		1,970,180,860.93 0.00
16 2017 2017 6 12 2017 1 1 2017		1,179,638,208.34
2017 30		60,073.60 23,129,594.46 3,903,697.05

2

2017

3

2017

4

2017

2016

1

2016

2

2016

3

2016

7-13

	2019 1-9 / 2019 9	**2018 / 2018**	**2017 / 2017**	**2016 / 2016**
	561.77	548.60	510.38	478.76
	334.14	332.25	319.24	303.17
	281.25	282.50	275.35	257.98
	227.63	216.35	191.14	175.60
	117.80	165.84	145.21	148.49
	21.16	26.58	24.79	26.27
	16.95	20.24	19.70	21.87
	16.80	20.55	19.52	22.58
	16.32	19.39	18.86	20.92
	39.78	52.99	49.20	48.26
	-34.56	-34.46	-35.79	-34.35
	-17.41	8.69	-4.36	-17.54
	0.73	0.75	0.48	0.35
	0.72	0.74	0.47	0.35
%	59.48	60.56	62.55	63.32
%	55.27	56.63	59.03	59.50
%	22.23	23.15	20.23	19.05

	2019 1-9 / 2019 9	2018 / 2018	2017 / 2017	2016 / 2016
%	5.31	7.06	7.08	7.49
%	7.63	9.93	10.74	12.96
%	10.09	10.09	10.64	13.39
EBITDA	47.76	60.05	57.61	54.55
EBITDA	0.17	0.21	0.21	0.21
EBITDA	5.27	4.92	5.22	5.53
	2.11	3.40	3.65	4.24
	74.57	103.56	89.55	91.58

= + = + +

= + + +

= /

= - /

= /

= / +

= - /

= + /

/

EBITDA= + +

+ +

EBITDA =EBITDA/

EBITDA =EBITDA/ +

= /

= /

2019 1800

10 10

1		19 SCP003	25.00	10.00	2020-04-21

2016 2017 2018 2019

1-9

9:00-11:30 14:00-17:00

1 118

6

010-64469988

010-8740709

/

66 4

2 B 2

010-65608354

010-65608445

www.sse.com.cn