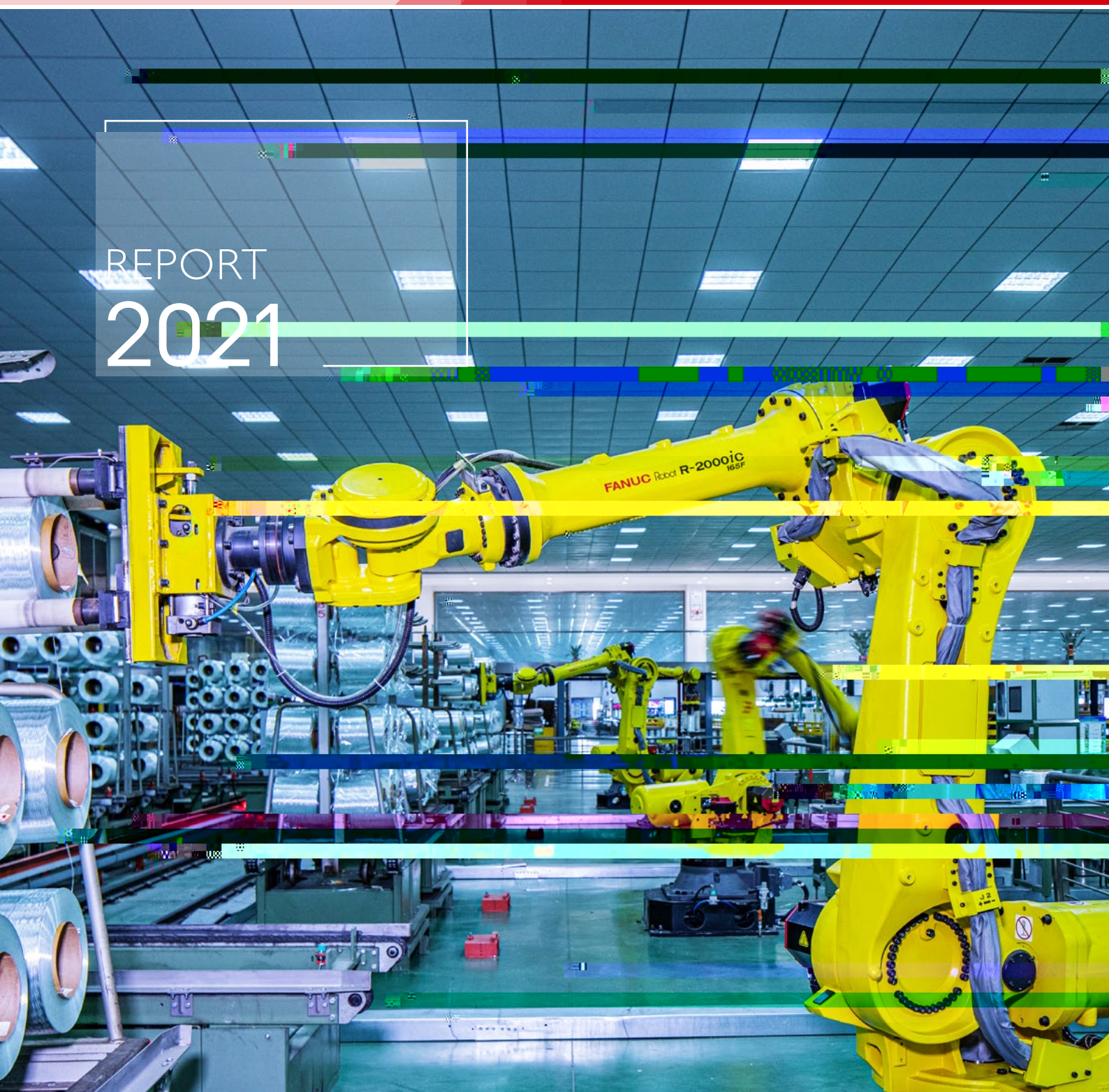


REPORT
2021







“ ”
“ ”

0.0/

“ ”

)

“ ”

0.0/

20,1 #
04,2 #

164,7

064,3

“ ”

2113
63 #

/5

236

0

3/

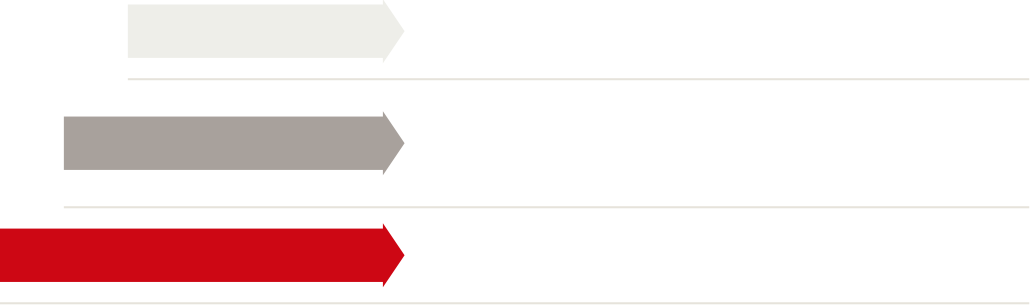
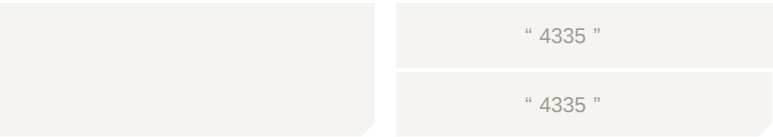
/ /6

“ ”

/123

)

Handwritten signature in black ink.



2

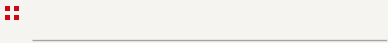




3,/6
2,53



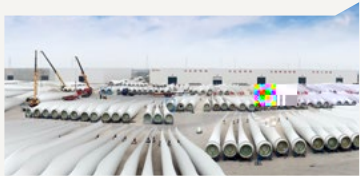
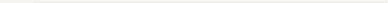
2454



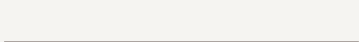
11,36



/7,44EU
/KU 6,3KU
12 7.
/..



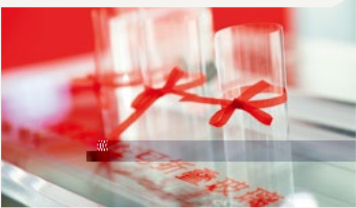
117
/3



/2,1 /0#



05/5
GRM 22/7
17/3 /,17

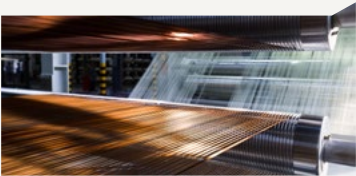


/13..

0.0/ 7

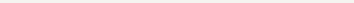
1...

0.0/

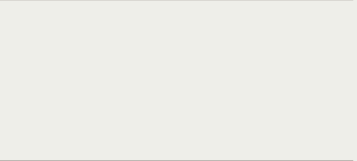
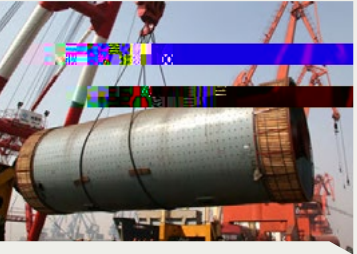


1EU

1..
0..



3



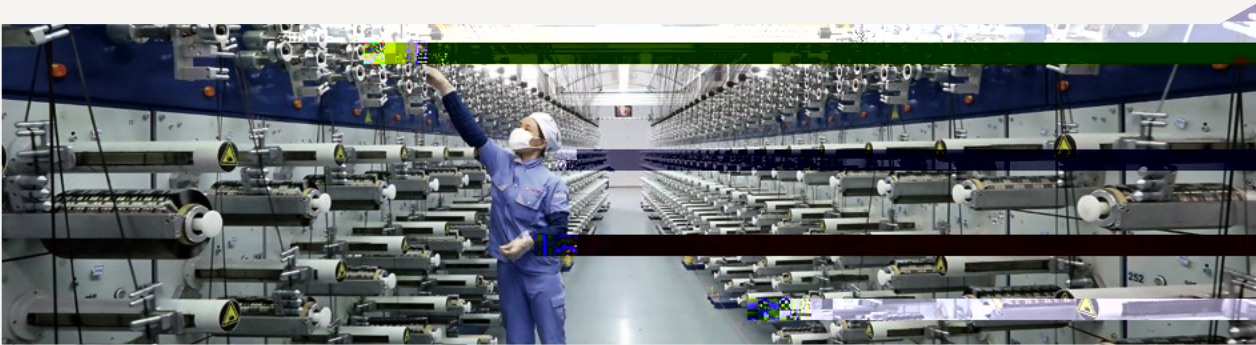
@%NT

10MW BIPV 8.5 TFT-LCD



BIPV

0.0/ 1 @%NT 04,3 03 0,0 / . KU //,5 6,3 RDR+JAB /0



2021

❖

5 2 0... 7. 301 0.0/

❖

/0 0. 0.0/ /1 23 06. 2.



500t/d

❖

❖

1,52

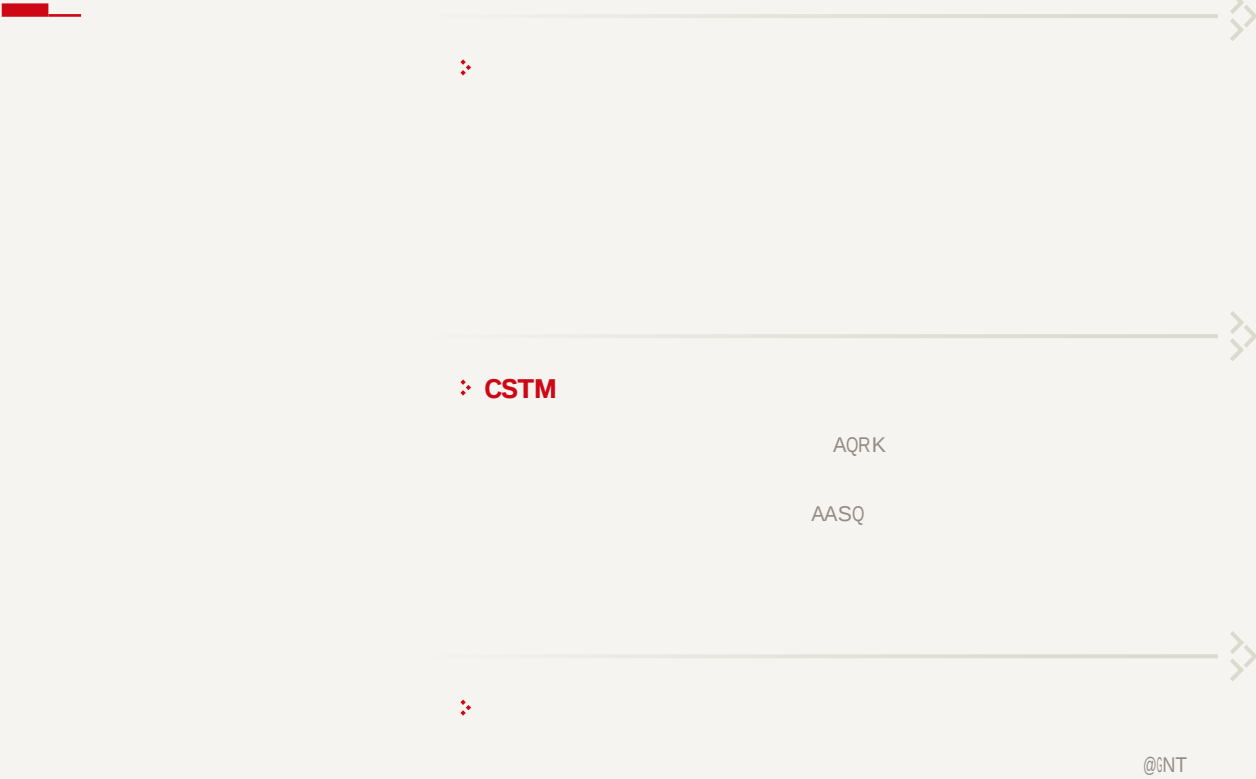
0.0/ 7. 26



❖

❖

AM₀ AM₀





p. 20

p. 32

p. 40



2021





1551

>

2845



0.0/

2113

0.0/

2/33,/

3,2#

064,3

20,1#

164,7

04,2#

0.0/

?

3.3

4554

0257

0



30x30
CIGS
19.8%

T1000

T700/800

2021 10 19

2021 10 9

Solara4 220MW

0.0/
2
01#
144,73
0.# /7
/42,31
4,4#
0.0/
54.,7



2021 9 29

150

2021 7 16

200

150

“ ”

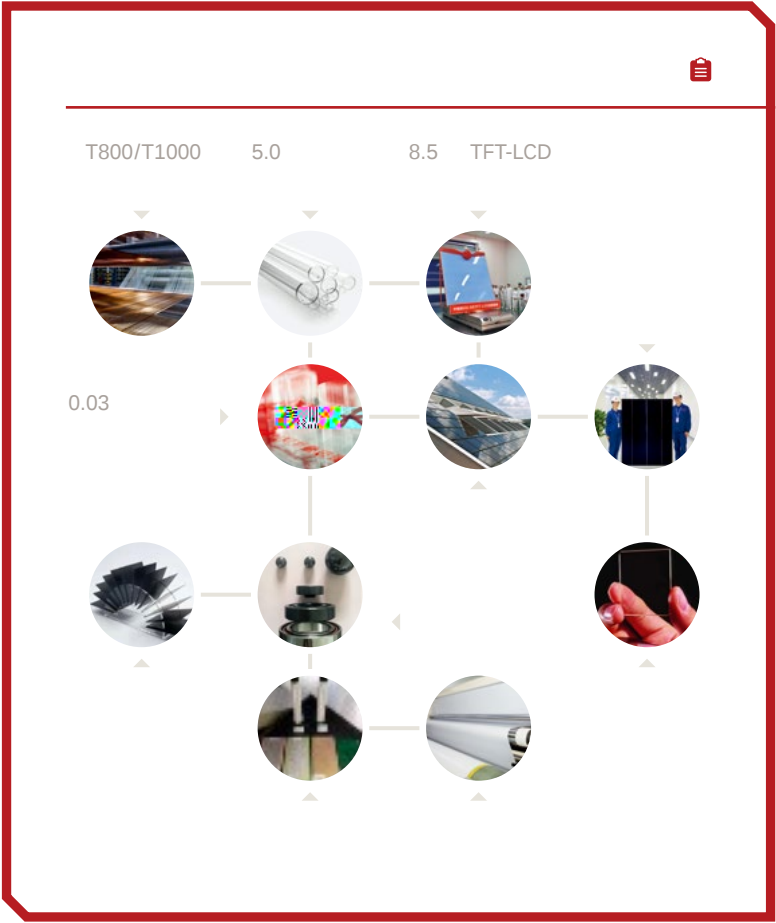
0.0/
/3

0.

2021



20



0.0/

2021



93.12

%



51



2



118



1



2



2

66

77

66

77



2422



66

77

66

77



66

77

66

77

66

77

66

77

66

77

“ 12350 ”

/5#

0.0/

55

13,13

7/,// #

-

3.

6.

/0/



2113

63#

2021

85

%



15

2021

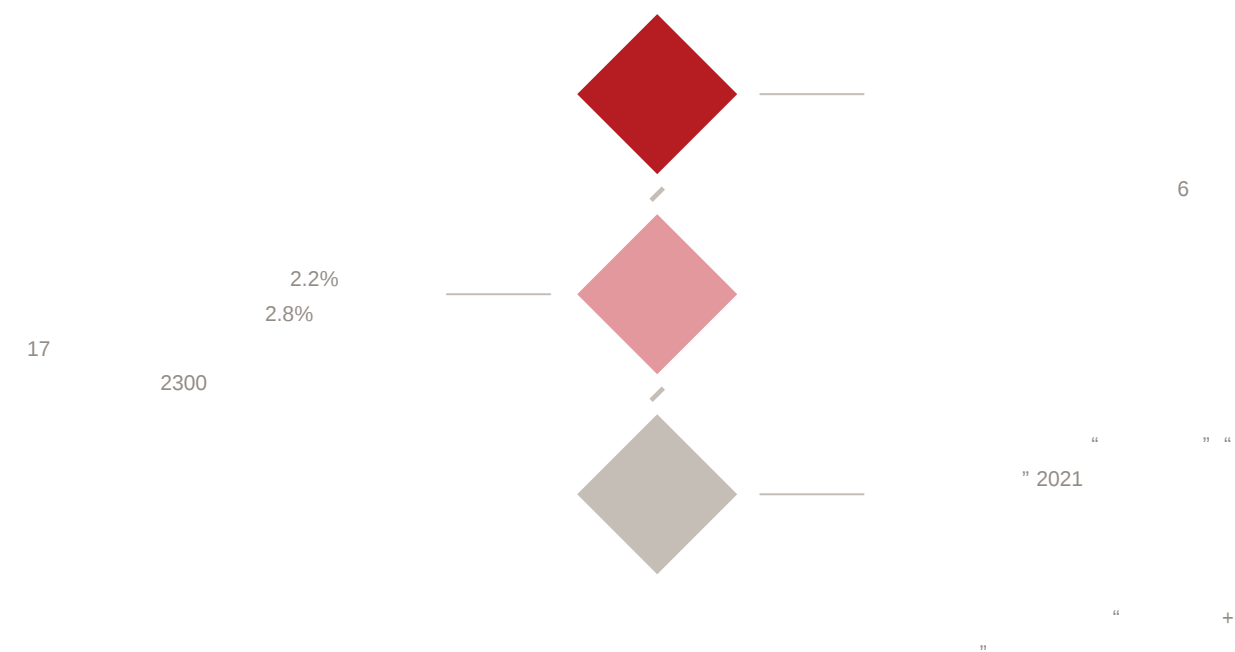
15.

458

5. #

1.

17



0.0/

3

/123

/..

“ 3433 ”

2,044

223

35,243

1

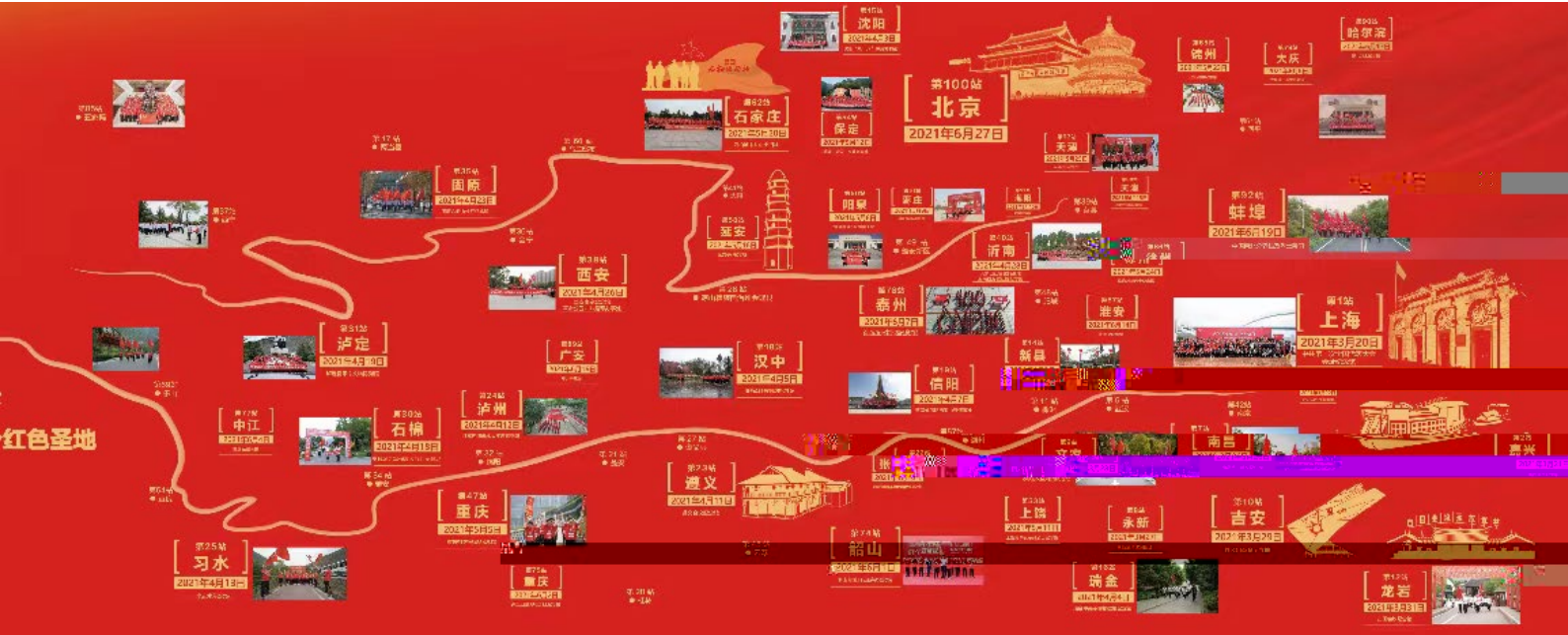
2

3

“ 1345 ”

“ ”				
45	/.			
	6	/..		
		/..		
3/		/..	0.0/	
		/..	0.0.	
			?	

“ ” 2021 3 20 6 27 30 300





02



2021

■ 147.2		■ 1.76	
	■ 34.7		■ 4,577



11

“ ”



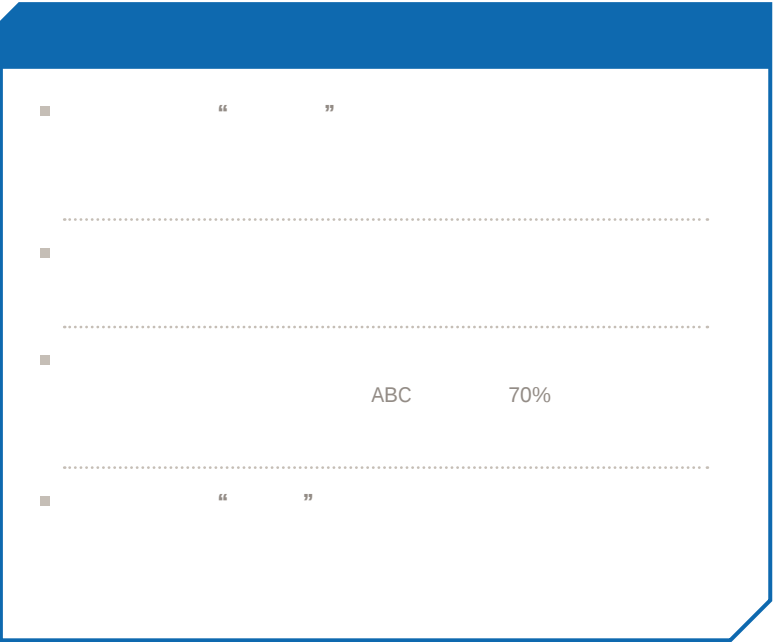
“ ”



4 “ ” 18
5 2 5 2021
6



” “ ”



0.0/

/5

03



2021

3.8



3

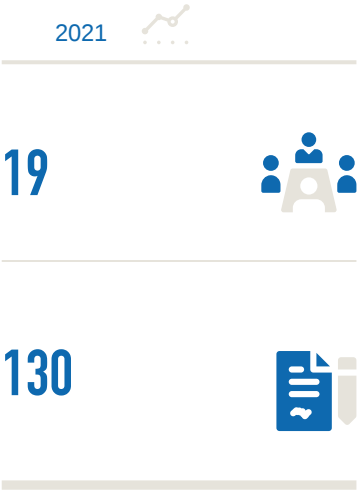


17

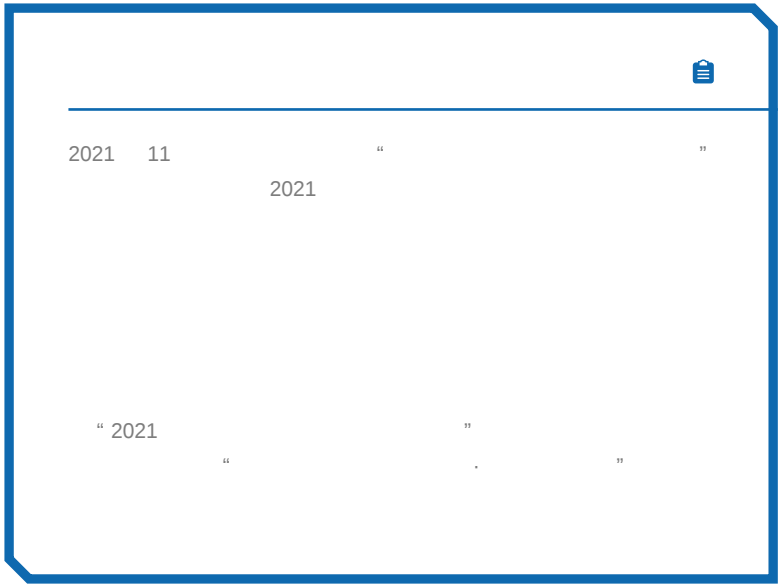
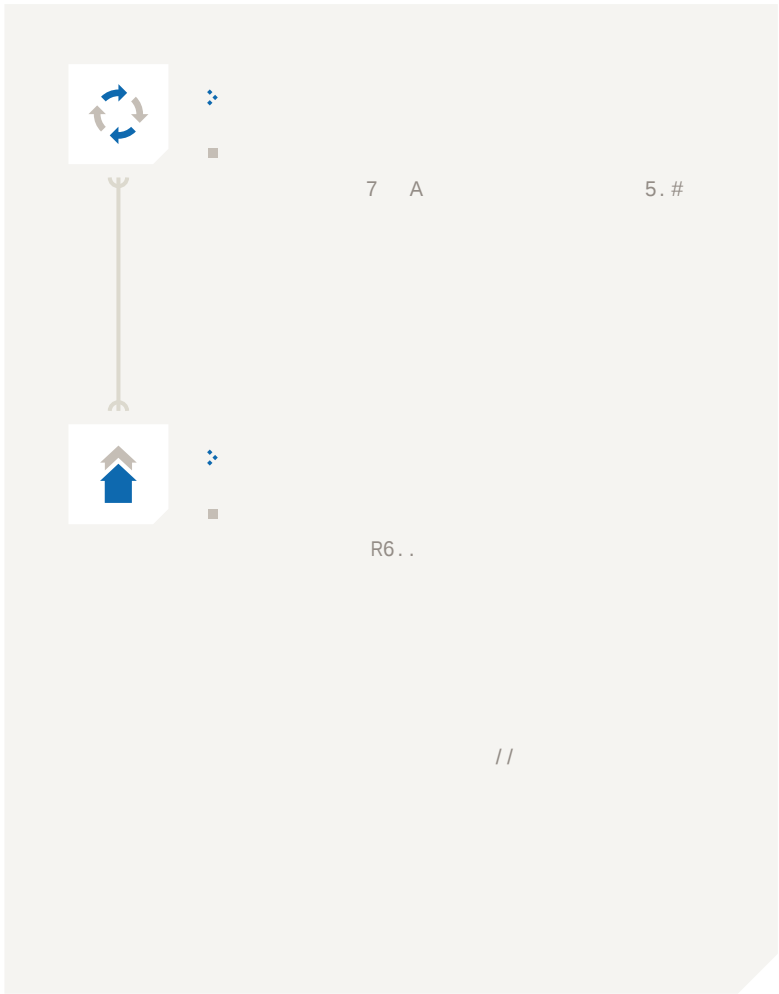


26

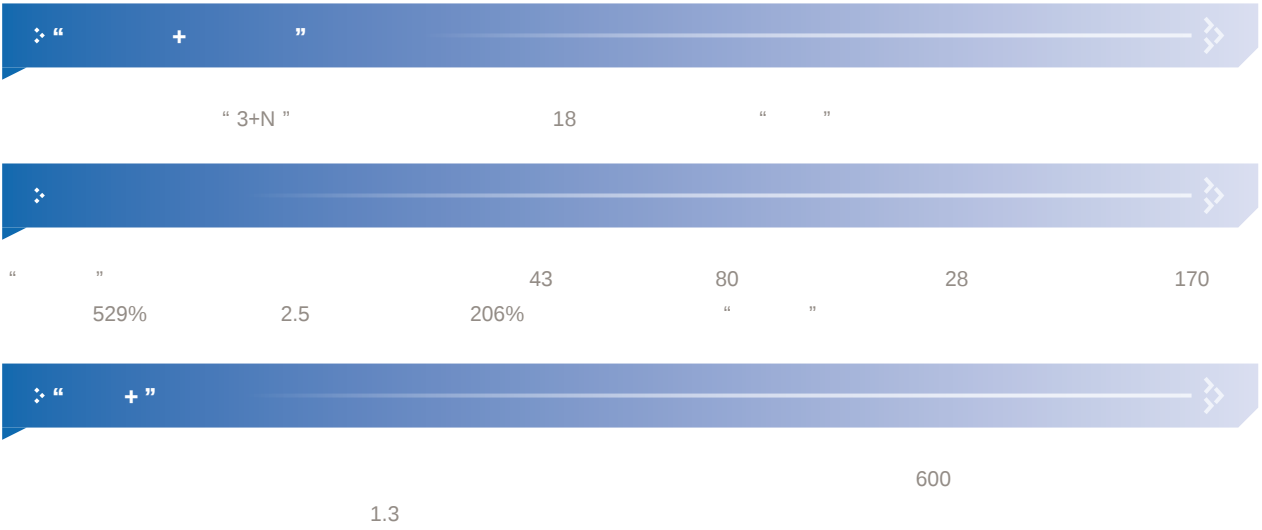




“ ”
“ ”



“ ”



2021 

1.76



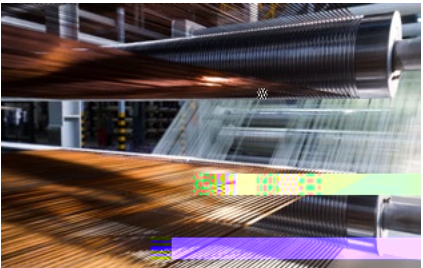
4

6

2021

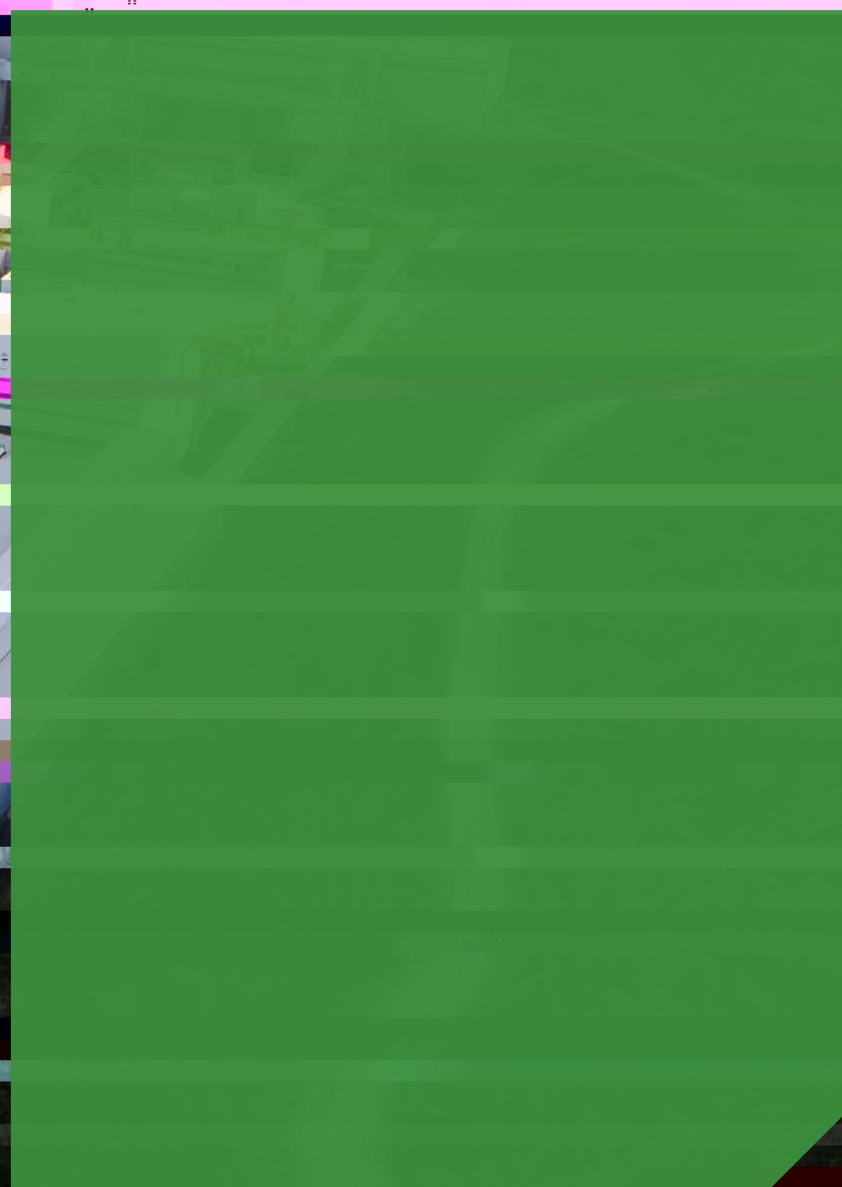
3000

3



362C

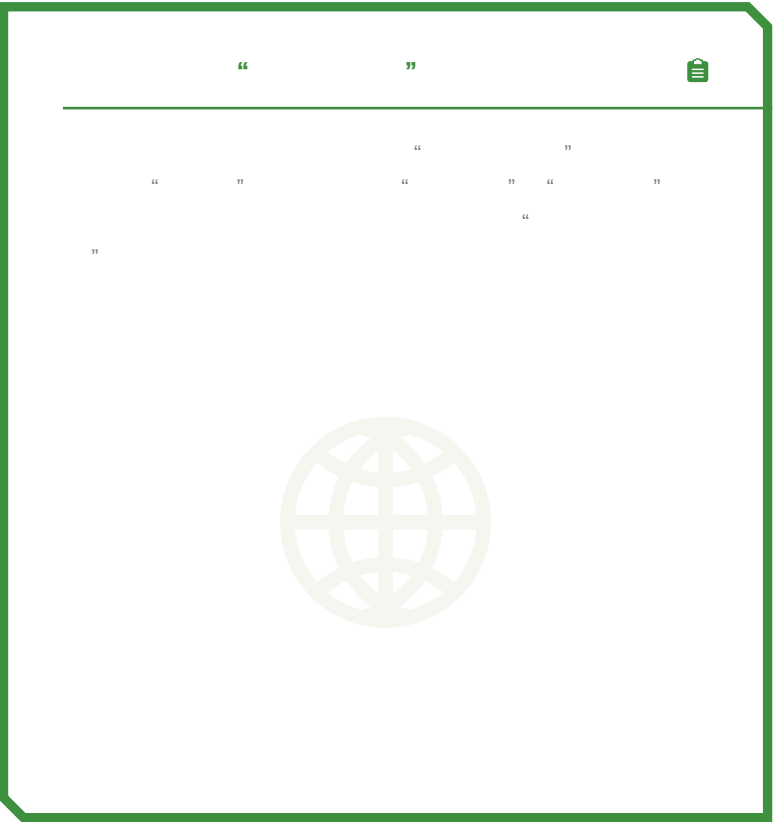




0.0/
/41
/6.
7.,3#
/..#
54#
5/#



Ü



Ü



2021

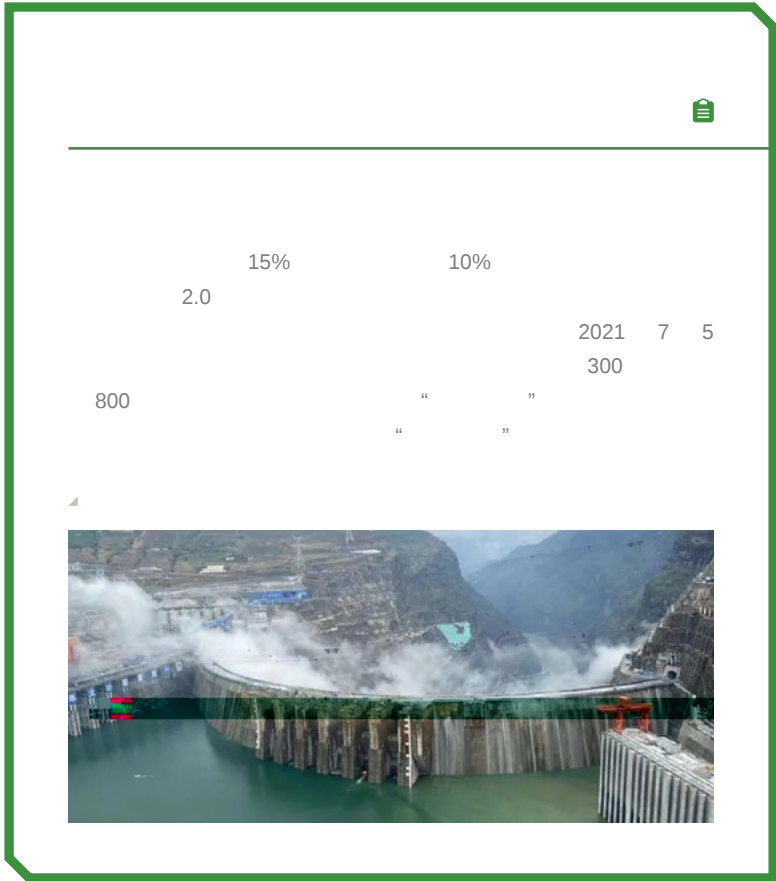
0.60
/

1.35
/

SO₂
16
%

NO_x
15
%

0.0/



0.0/

0.0/

3.

271

0.0/

ABK

0.0/



0.00

2 100 300 4000 10 15 1200



8 70

2022
2019

22

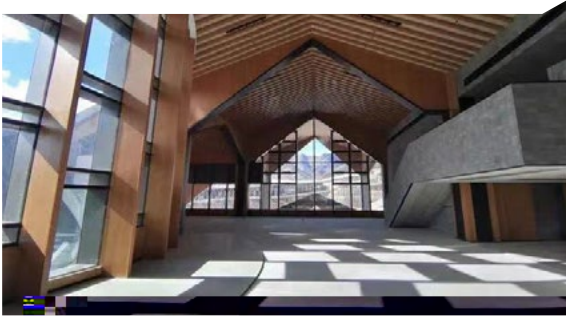
5



— Karrisen

3A

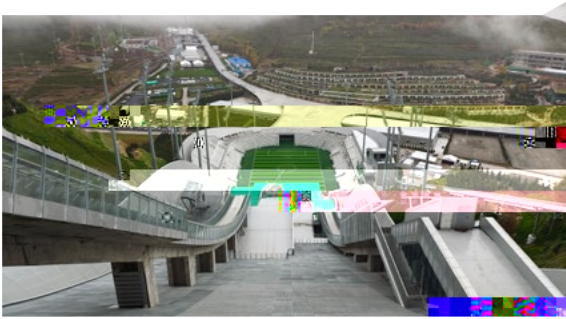
B1



70

20

ZY



46

165L

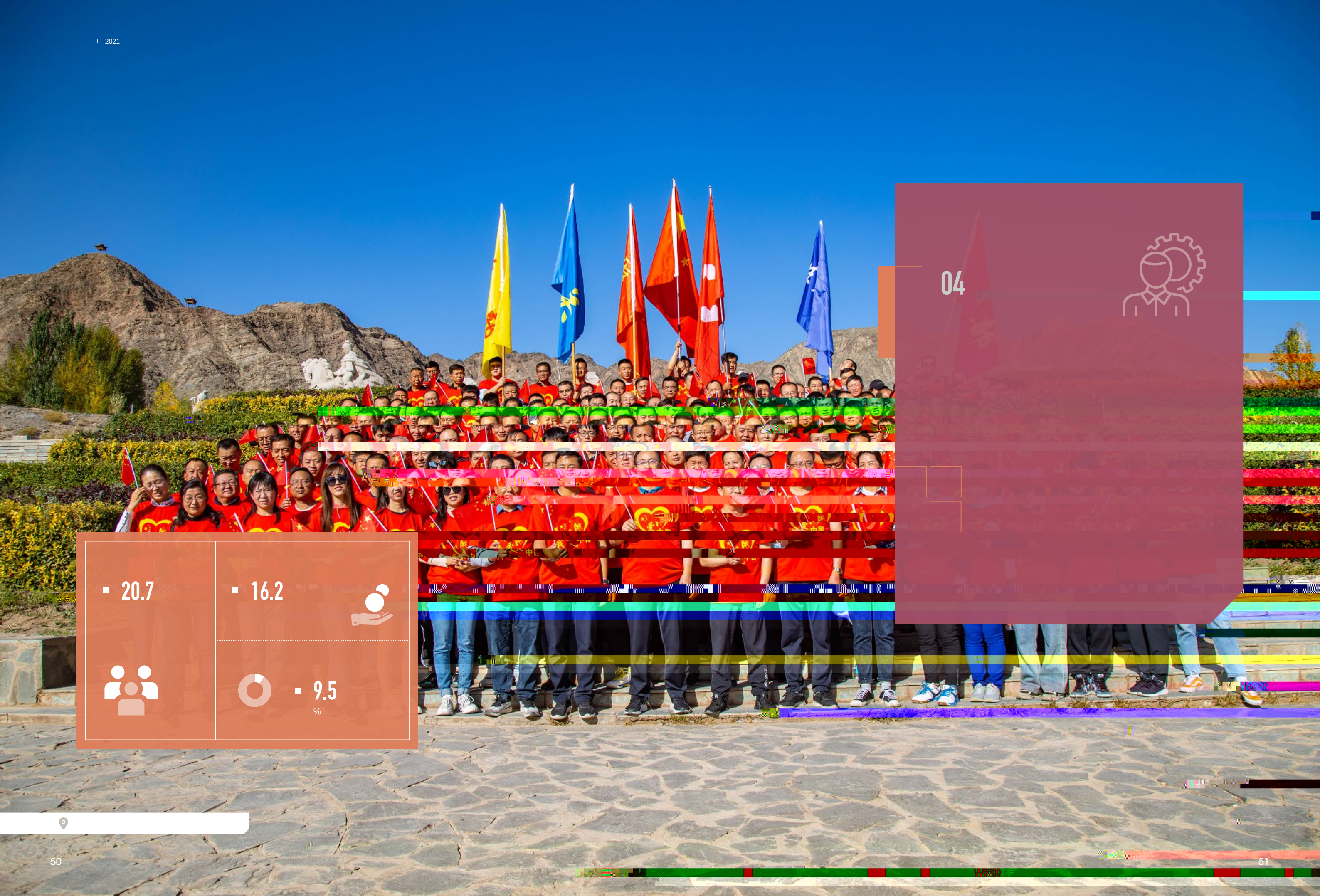
630



3D







04



■ 20.7

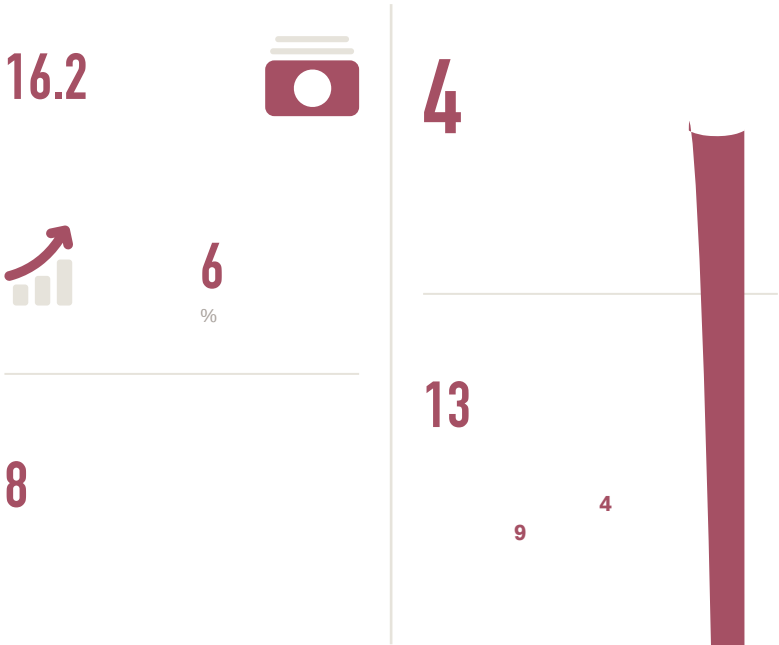


■ 16.2

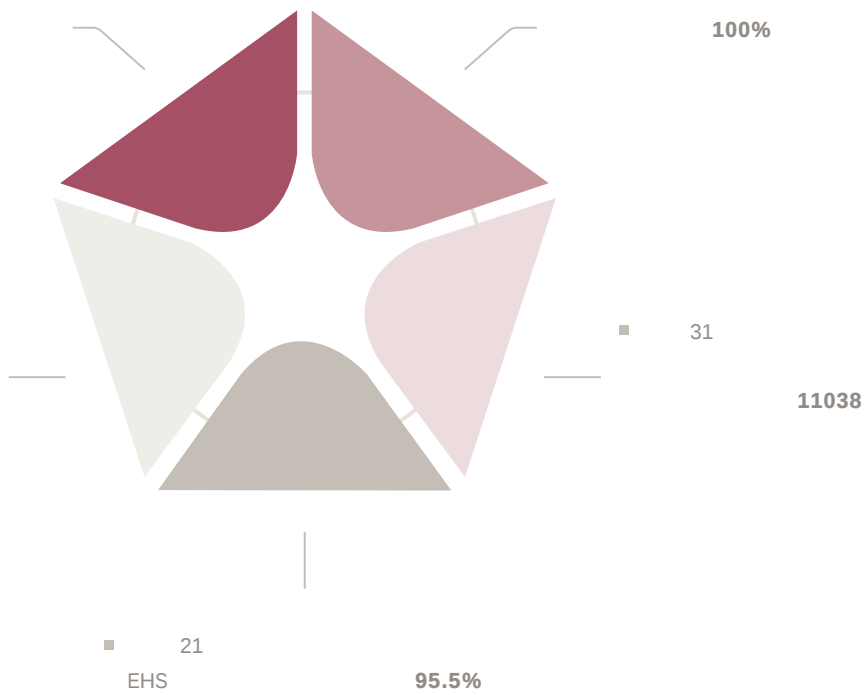


■ 9.5 %

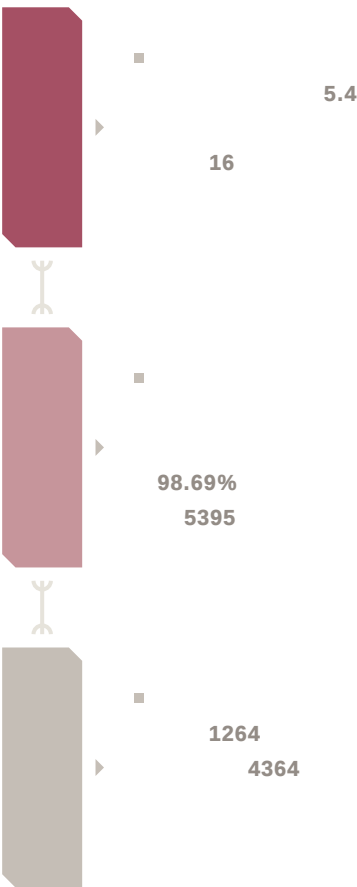
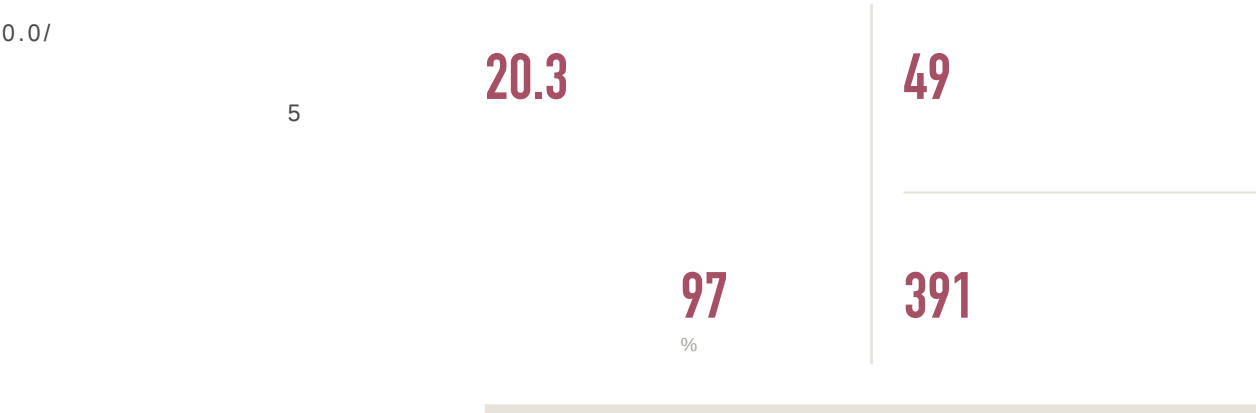
2021



1...



2021





0.0/

10

100%

262

■ 2021

98.6%

14

5

12046

36

■ 2021

14.1

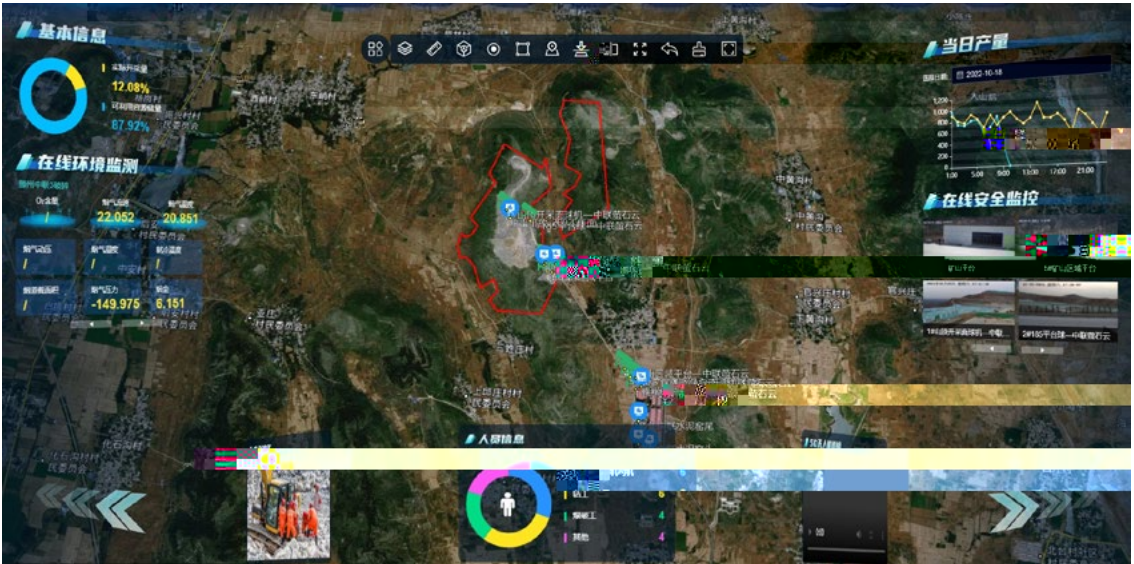
10%

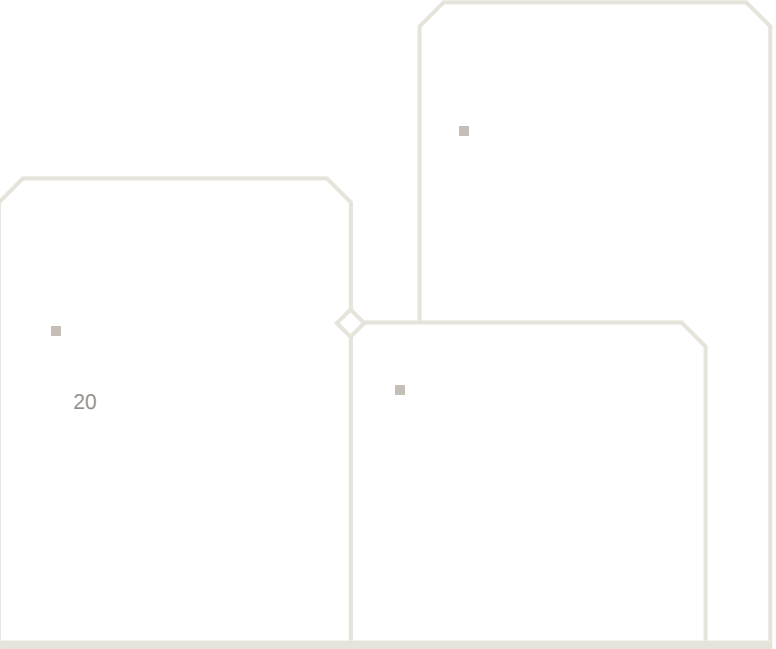
0.0/

“ 5G ”

5G

5G





■
16 70

■
0.0/

■

0.0/

4480

CKR



EMT

2021



6,796



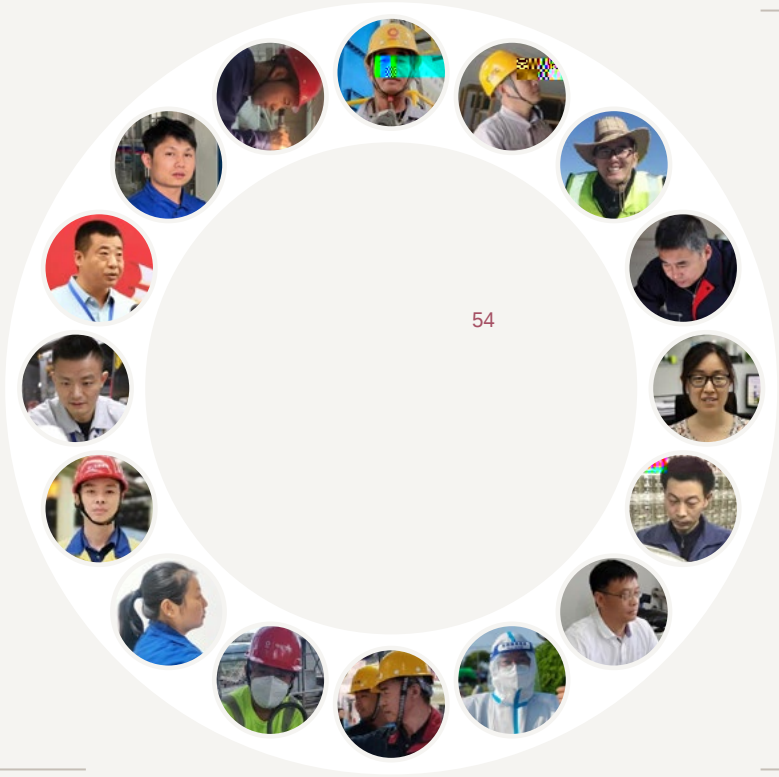
50



30

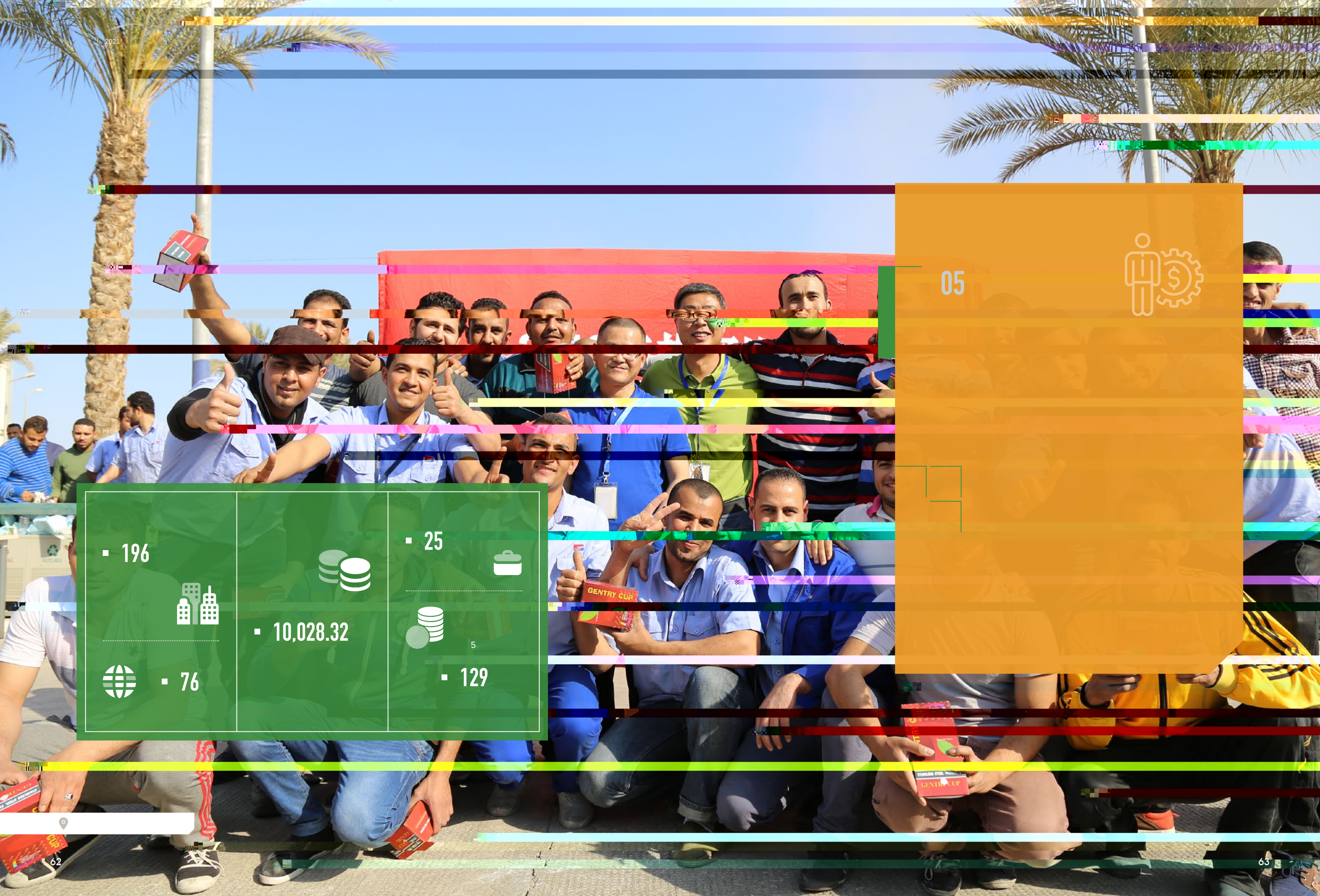


100



76

196



05



▪ 196



▪ 76



▪ 10,028.32

▪ 25



5

▪ 129

2021

40



608.53

143

196

45

76



126.57

500



0.0/



■	
■	5
■	

3

0.0/

3

//



▼ 2021 2 25

46

33



▼ 2021 4 19

91

19



11	12

2021

10,028.32

25



129



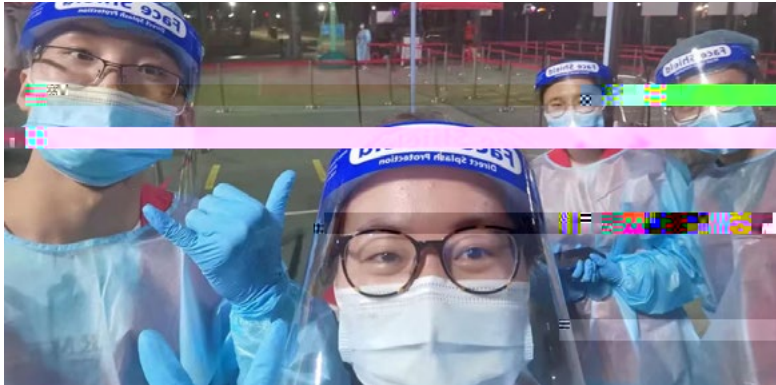
Diagram illustrating a timeline or sequence of events, likely related to the '4' and '3' categories mentioned in the text. The timeline shows four points, labeled 4, 3, 2, and 1 from left to right. The values associated with these points are 2139, 3000, 268, and 2139 respectively. A legend at the bottom left indicates that the square symbol represents the number 4. A clipboard icon is located at the top right.

Point	Value
4	2139
3	3000
2	268
1	2139

0.0/
/13/5
/2.51,6

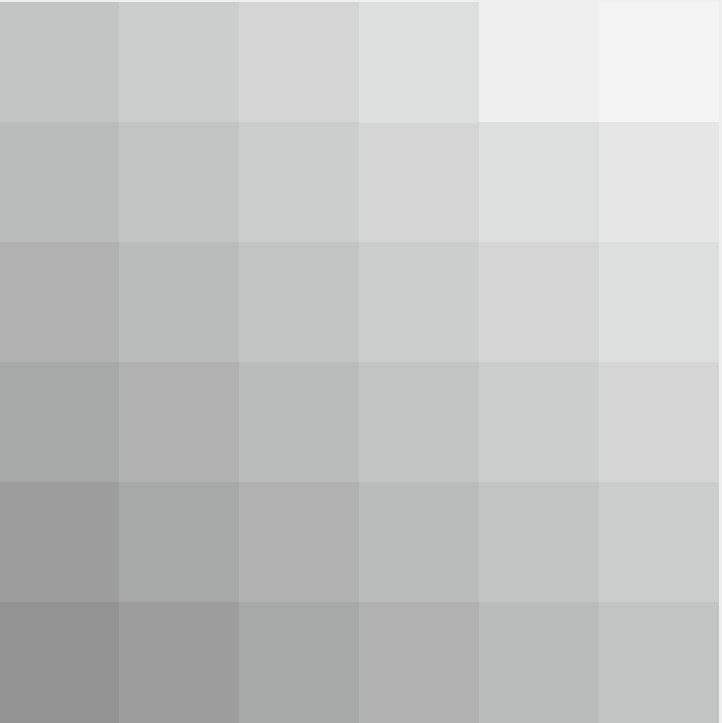
202135312

36



/...





“ ” — “ ”

2021 9 2

“ ”

5 72 93

5

500

“ ”



“ ” 93

1.)
)

2

2021



99.6

%

391



1,041



193,945



56,525

2,055

179



2021



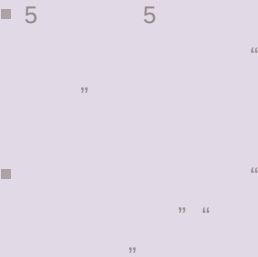
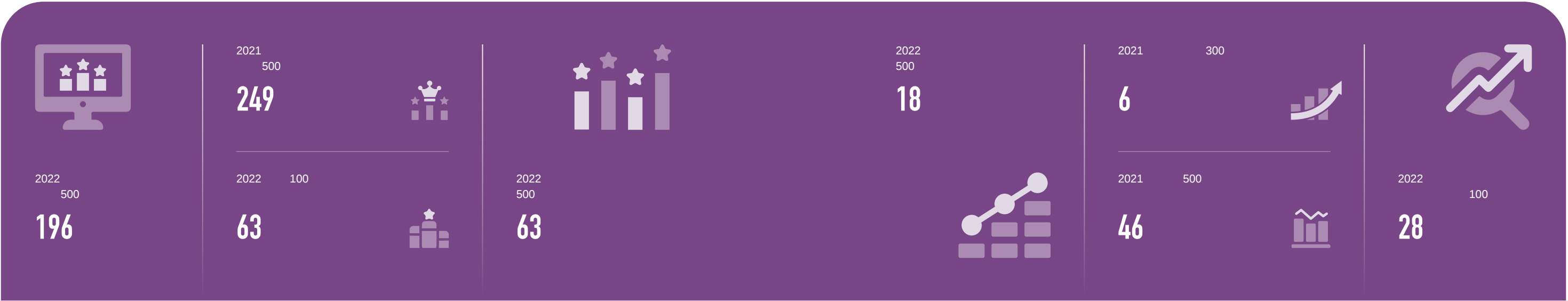
147,385

100%

99.9

%

1,152



2021

5

0

2021

NO.1

ESG

500

2021

2020

2021

100

2021

100

2021



2022

2022	500	
2022		2021
196		64416.6
252		52211.8
353		39699.5
460	CRH	30981
488	HOLCIM	29362.1

2011-2021

2011-2021



2021



2011-2021		
2021	116	1
2020	109	0
2019	166	3
2018	231	1
2017	197	2
2016	173	2
2015	123	0
2014	117	1
2013	145	1
2012	152	0
2011	132	2

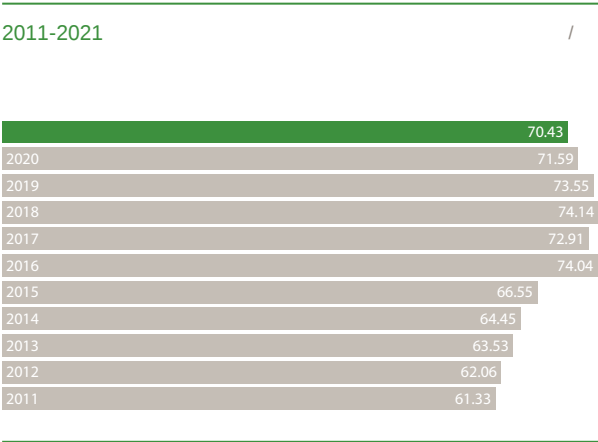
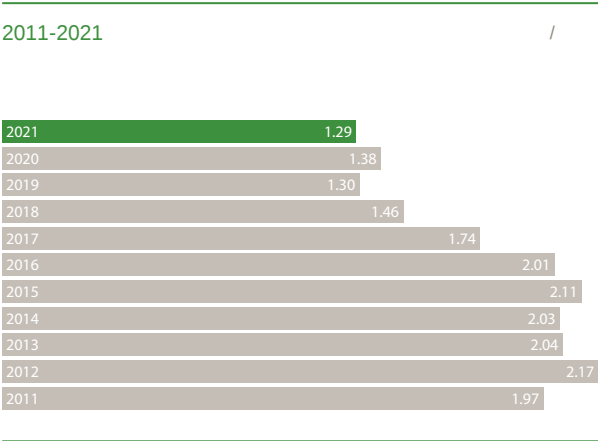
2011-2021				
2021	4004	1820	3745	747
2020	4436	1821	2576	532
2019	3308	1638	1804	478
2018	2287	1056	1571	385
2017	2144	1039	1524	428
2016	2156	880	1793	455
2015	1568	566	1492	193
2014	1571	531	1381	106
2013	1262	373	848	128
2012	766	228	729	143
2011	630	170	487	80

2011-2021	
2021	147.2
2020	119.1
2019	95.9
2018	81.9
2017	59.3
2016	51.2
2015	40.9
2014	41.6
2013	36.2
2012	33.4
2011	31.6

2011-2021					
2021	130	4	84	42	
2020	74	3	39	32	
2019	88	0	52	36	
2018	167	4	90	73	
2017	122	4	90	28	
2016	91	2	57	32	
2015	62	2	36	24	
2014	104	3	35	66	
2013	59	1	8	50	
2012	22	1	5	16	
2011	28	1	15	12	

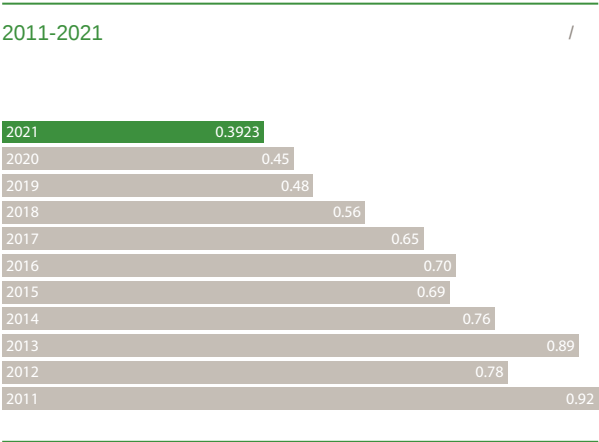
2011-2021			
2021	17642	4577	
2020	14463	3816	
2019	12124	3164	
2018	10967	2765	
2017	10024	2403	
2016	8408	1913	
2015	5663	900	
2014	4255	687	
2013	3231	589	
2012	2549	448	
2011	1606	288	

2011-2021		
2021	34.7	810.6
2020	35.2	754.7
2019	28.4	577.6
2018	30.1	555.9
2017	16.6	468.5
2016	15.7	339.0
2015	11.5	256.5
2014	8.8	289.9
2013	10.3	259.4
2012	9.4	248.4
2011	11.0	240.3



2011-2021		
%		
2021	13121	96.3
2020	17880	91.7
2019	14967	99.9
2018	9900	92.8
2017	15615	99.0
2016	14909	88.6
2015	7545	98.5
2014	7882	98.0
2013	6191	99.2
2012	9700	100
2011	6500	100

2011-2021	SO ₂	COD	/
SO ₂		COD	
2021	0.33	0.04	
2020	0.42	0.04	
2019	0.62	0.03	
2018	1.09	0.03	
2017	1.07	0.03	
2016	1.60	0.05	
2015	1.46	0.06	
2014	1.36	0.06	
2013	1.39	0.07	
2012	1.45	0.07	
2011	1.60	0.12	



2011-2021			
/		/	%
2021	5.4	0.53	97.8
2020	5.3	0.49	95.1
2019	3.6	0.34	90.0
2018	7.9	0.45	90.8
2017	7.1	0.51	96.2
2016	6.2	0.38	93.7
2015	7.2	0.46	93.5
2014	6.2	0.41	90.3
2013	8.0	0.41	96.4
2012	5.0	0.33	94.7
2011	5.5	0.37	—

2011-2021

					%
2021	206910	881	6199	1478	17.9
2020	202844	1036	5725	1731	16.9
2019	204763	483	5808	1729	16.2
2018	208680	1059	5167	1697	18.7
2017	221421	750	5985	1732	18.4
2016	234511	1126	5964	1875	18.3
2015	176610	841	3521	1449	17.2
2014	176854	892	3120	2263	18.4
2013	179421	1234	3031	1685	18.1
2012	165652	1190	2706	1620	13.5
2011	126385	594	3516	1023	11.6

2011-2021

2021	580	104210
2020	531	95554
2019	207	56174
2018	100	35644
2017	74	24093
2016	71	22871
2015	68	22165
2014	67	21750
2013	67	21131
2012	66	20392
2011	53	13368

2011-2021

Year	Number of cases
2021	162000
2020	151500
2019	123697
2018	108357
2017	87032
2016	79527
2015	57249
2014	43221
2013	31363
2012	30324
2011	12191

2011-2021

2021	100	100	84
2020	100	90	78
2019	100	92	78
2018	100	90	78
2017	100	98	92
2016	100	98	91
2015	100	98	91
2014	93	88	70
2013	96	92	75
2012	96	92	80
2011	94	91	73

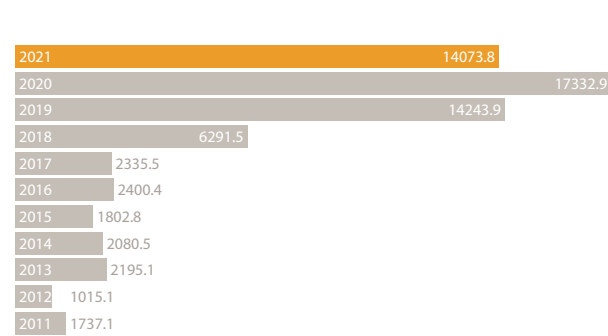
2011-2021

2021	77120	250	2431
2020	84771	215	2628
2019	107787	137	1679
2018	75187	485	1424
2017	52676	112	2251
2016	47554	331	3028
2015	32672	133	2882
2014	43352	91	3520
2013	37491	164	2387
2012	21028	126	1138
2011	11975	108	1580

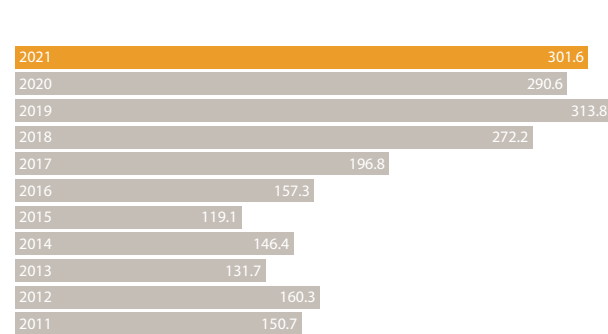
2011-2021

	%	
2021	0.2	0
2020	0.2	0
2019	0.4	1
2018	0.5	1
2017	0.5	2
2016	0.5	0
2015	0.9	3
2014	1.3	2
2013	1.6	1
2012	2.3	3

2011-2021



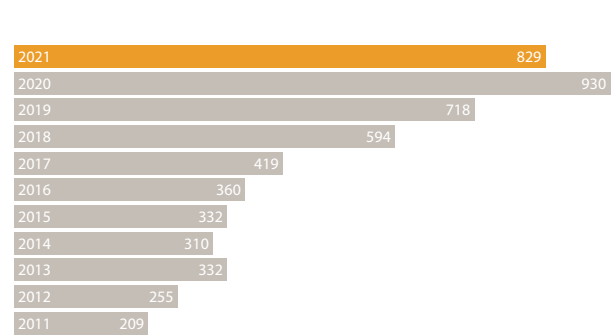
2011-2021



2011-2021

2021	16	109	200	85	37005
2020	20	99	298	128	53145
2019	22	113	284	132	52689
2018	18	73	188	118	45464
2017	14	72	155	163	31519
2016	8	37	266	134	34030
2015	8	36	159	47	26586
2014	31	53	227	97	28619
2013	18	112	506	119	36530
2012	20	136	466	98	17815

2011-2021



2011-2021

2021	35170	3375	2
2020	22032	3667	24
2019	27763	3890	22
2018	26553	3626	141
2017	29612	4727	139
2016	22342	3129	23
2015	16929	2473	10
2014	23617	3848	46
2013	16081	4383	158
2012	15901	3743	521
2011	21182	4276	241

2011-2021

2021	221	180	11517	74568
2020	192	190	10121	49220
2019	213	2219	10343	40192
2018	189	126	6853	44445
2017	335	363	5334	25164
2016	112	344	5646	28157
2015	56	191	2187	14840
2014	65	145	3400	9418
2013	109	145	4864	10681
2012	67	91	3337	39778

		SDGs	GRI	GRI Standards	CASS-CSR4.0
		-		102-46 102-50-102-53	P1.1-1.3
		-		102-14 102-15	P2.1-2.2 P3.1-3.2 M1.6-1.7 M2.4 S1.4 S4.12
				102-1 102-2 102-4-102-8 102-10 102-16 102-18 102-22 102-24	P4.1-4.4 G1.1-1.2
		    		302-1 302-3-302-5 305-1 305-5 305-7	E2.1-2.5
		   		102-2 102-26 102-30 203-1-203-2 205-2	M1.1-1.3 M1.6-1.8 M2.2 S1.1-1.2 S1.4
		   		201-1 203-1-203-2	M2.4-2.5
		     		304-1-304-3302-1 302-3 302-5 305-1 305-5 305-7 307-1	E1.1 E1.3 E1.8 E1.9 E2.1-2.5

	SDGs	GRI Standards	CASS-CSR4.0
	    	403 404-410	S2.11-2.15 S2.2-2.4 S2.7-2.8 S2.10 S2.17-2.18 S3.1-3.7
	      	201-1 203 204 413 415	S4.1 S4.5-4.11
	 	102-12-102-13 102-9 418 102-40-102-44	G6.1-G6.3 M2.9-2.15 M2.17-2.18 E2.24
	-	-	A1
	-	-	A2
	-	102-55	A5
	-	-	P1.1
	-	-	A4
	-	102-53	A6

