

1.	.....
1.1	.....
1.2	.....
1.3	.....
2. ESG	.....
2.1	.....
2.2	.....
2.3	.....
3.	.....
3.1	.....
3.2	.....
3.3	.....
3.4	.....
3.5	.....
4.	.....
4.1	.....
4.2	.....
4.3	.....
5.	.....
5.1	.....
5.2	.....
5.3	.....
5.4	.....
6.	.....
6.1	.....
6.2	.....
6.3	.....
6.4	.....

ESG	.....
GRI	—— GRI

ESG

2024 1 1 -12 31

standards		GRI	GRI	GRI
2023 12		2030		1

<https://www.chinaztt.cn/socialResponsibility/149.html>

ztrfc@ztt.cn

2004

2004 12

50000

2024

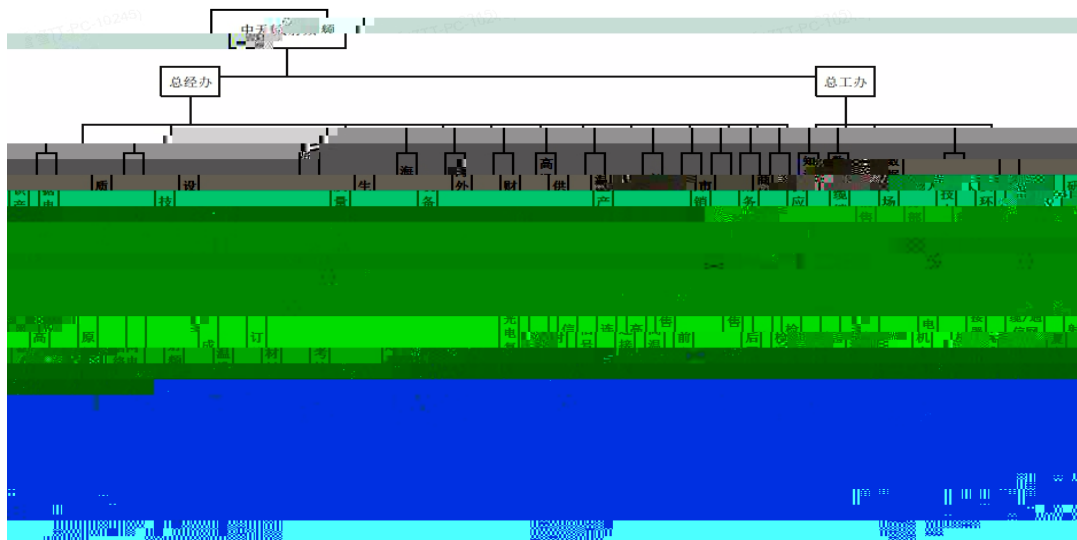
AAA

A

2.3

5G

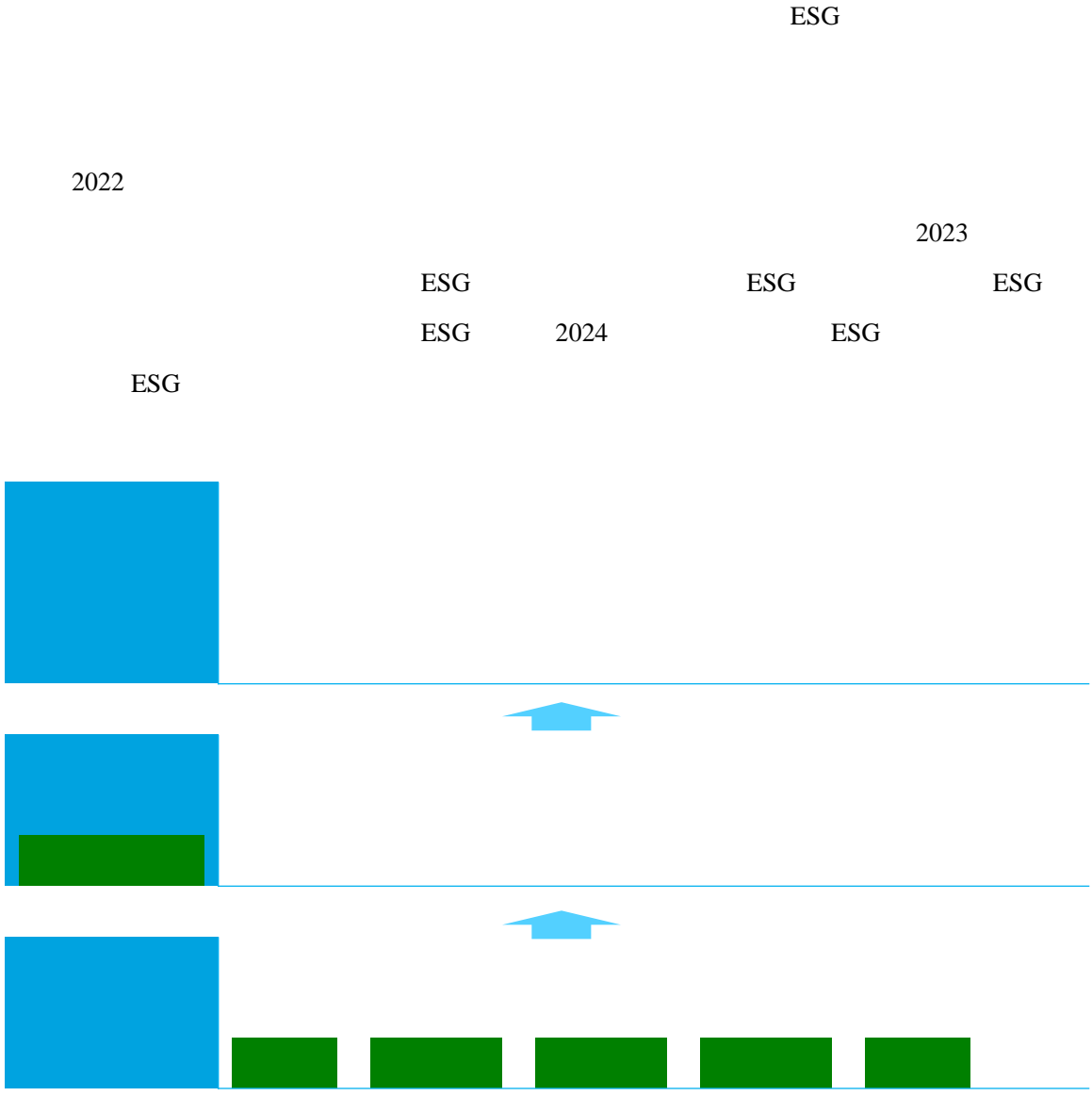
5G



5G

AAA	2024	
	2024	
	2023	
	2023	
	2023	
	2023	
	2022	
	2022	

2021	2021	
2021	2021	
2021	2021	
	2021	



2022

ESG

2023

ESG

ESG

ESG

ESG

2024

ESG

ESG

ESG

ESG

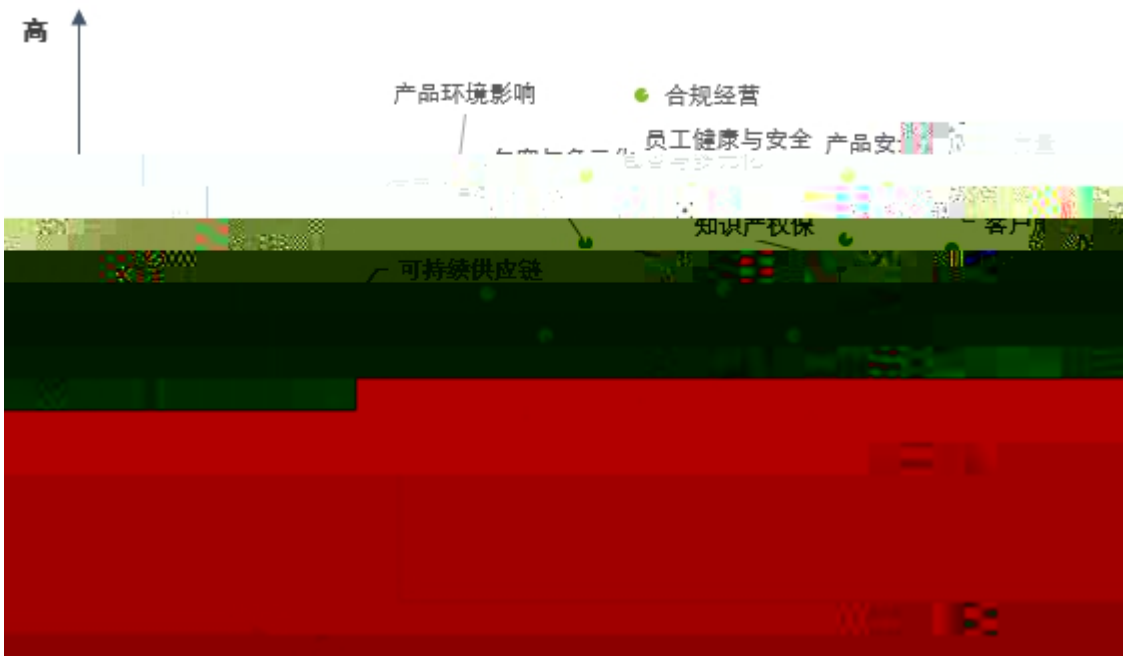
2024

2024

ESG

90

ESG





2024

2024

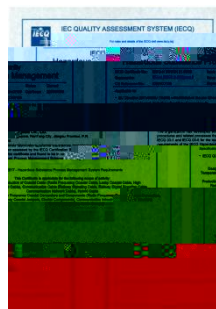
2024

IECQ QC080000

ISO 9001

CRCC

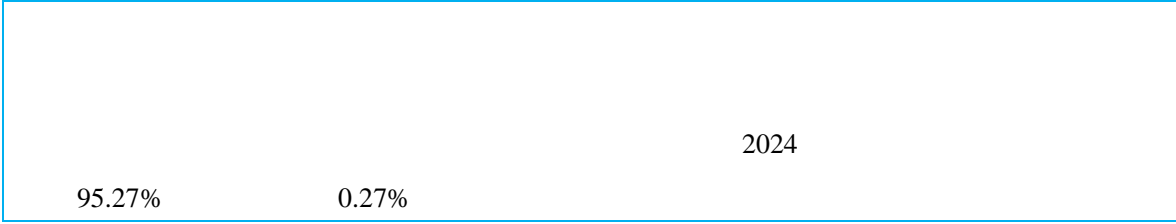
TL9000



2024

2024

2024



2024



CSR

7

CSR

2024

147

CSR

HSF

CCS

CSR

94.56%

100%

SRM

2024

70%

(20)

15%

20

7

(

35%)

15%

6.9%

2024

2024

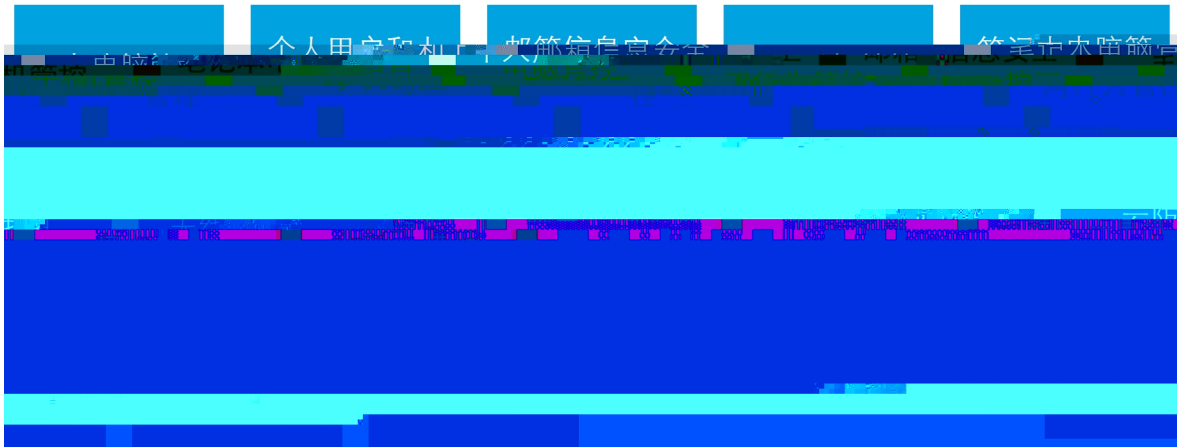
3

1

55



2024



2024

CSR



2024

0



2024

/

2024

2024

88

17%

CBTC

2024	5G		
2022			

2021

2021

3

2021

2021

2020

5G

2019

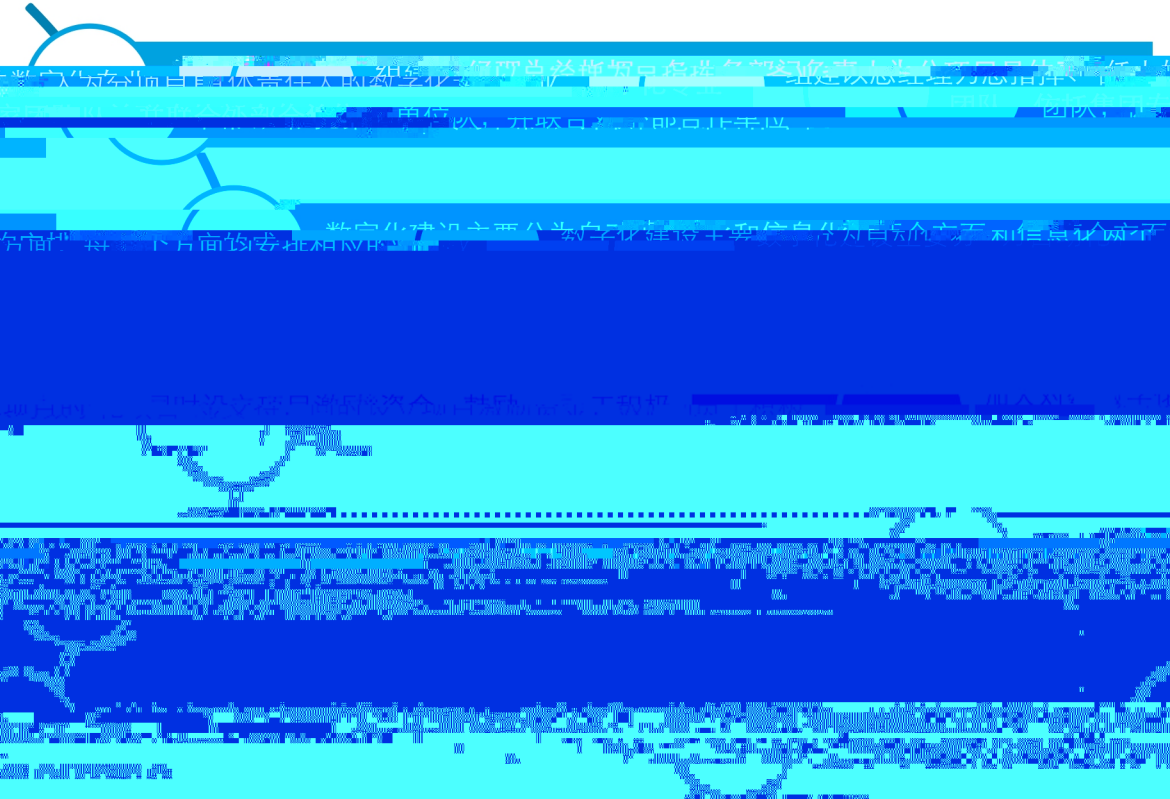
d 4 PC 5 0 1 1 - B 0 5 . t

<

• 3 1 0 1 1 9 . e 0 1 2 0 1 9 1 3 1 4 2 5 % 2

DNA.

2025



2025

28

2024

24

24

	5DFB	<ul style="list-style-type: none"> • 18% •

		<ul style="list-style-type: none"> • 1 / 0 •
		<ul style="list-style-type: none"> • 0 •
		<ul style="list-style-type: none"> • 0.61% • 0.24% •
	PID	<ul style="list-style-type: none"> • 3 1 • 5 / 0 /

2024

PCT

PCT

2010			
		2011	4
13			9
8			
2024	229	4207.5	

2024

5 2 2
1
IEC
2024 /
7 3 1

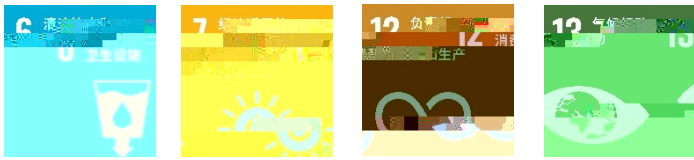
2024

/



2024 5

CommunicAsia



2024

2024

2024

2024

LCA

		45%
	380 250	

5S

2024

HSF

/

HSF

HSF

		0.01%
	8%	
		2022-2024
3000		

2024

8395.5



GLCM

2021

2025

2024-1-31 2024

2 FP (A) (B) (C) (D) (E) (F) (G) (H) (I) (J) (K) (L) (M) (N) (O) (P) (Q) (R) (S) (T) (U) (V) (W) (X) (Y) (Z) (AA) (AB) (AC) (AD) (AE) (AF) (AG) (AH) (AI) (AJ) (AK) (AL) (AM) (AN) (AO) (AP) (AQ) (AR) (AS) (AT) (AU) (AV) (AW) (AX) (AY) (AZ) (BA) (BB) (BC) (BD) (BE) (BF) (BG) (BH) (BI) (BJ) (BK) (BL) (BM) (BN) (BO) (BP) (BQ) (BR) (BS) (BT) (BU) (BV) (BW) (BX) (BY) (BZ) (CA) (CB) (CC) (CD) (CE) (CF) (CG) (CH) (CI) (CJ) (CK) (CL) (CM) (CN) (CO) (CP) (CQ) (CR) (CS) (CT) (CU) (CV) (CW) (CX) (CY) (CZ) (DA) (DB) (DC) (DD) (DE) (DF) (DG) (DH) (DI) (DJ) (DK) (DL) (DM) (DN) (DO) (DP) (DQ) (DR) (DS) (DT) (DU) (DV) (DW) (DX) (DY) (DZ) (EA) (EB) (EC) (ED) (EE) (EF) (EG) (EH) (EI) (EJ) (EK) (EL) (EM) (EN) (EO) (EP) (EQ) (ER) (ES) (ET) (EU) (EV) (EW) (EX) (EY) (EZ) (FA) (FB) (FC) (FD) (FE) (FF) (FG) (FH) (FI) (FJ) (FK) (FL) (FM) (FN) (FO) (FP) (FQ) (FR) (FS) (FT) (FU) (FV) (FW) (FX) (FY) (FZ) (GA) (GB) (GC) (GD) (GE) (GF) (GG) (GH) (GI) (GJ) (GK) (GL) (GM) (GN) (GO) (GP) (GQ) (GR) (GS) (GT) (GU) (GV) (GW) (GX) (GY) (GZ) (HA) (HB) (HC) (HD) (HE) (HF) (HG) (HH) (HI) (HJ) (HK) (HL) (HM) (HN) (HO) (HP) (HQ) (HR) (HS) (HT) (HU) (HV) (HW) (HX) (HY) (HZ) (IA) (IB) (IC) (ID) (IE) (IF) (IG) (IH) (II) (IJ) (IK) (IL) (IM) (IN) (IO) (IP) (IQ) (IR) (IS) (IT) (IU) (IV) (IW) (IX) (IY) (IZ) (JA) (JB) (JC) (JD) (JE) (JF) (JG) (JH) (JI) (JJ) (JK) (JL) (JM) (JN) (JO) (JP) (JQ) (JR) (JS) (JT) (JU) (JV) (JW) (JX) (JY) (JZ) (KA) (KB) (KC) (KD) (KE) (KF) (KG) (KH) (KI) (KJ) (KK) (KL) (KM) (KN) (KO) (KP) (KQ) (KR) (KS) (KT) (KU) (KV) (KW) (KX) (KY) (KZ) (LA) (LB) (LC) (LD) (LE) (LF) (LG) (LH) (LI) (LJ) (LK) (LL) (LM) (LN) (LO) (LP) (LQ) (LR) (LS) (LT) (LU) (LV) (LW) (LX) (LY) (LZ) (MA) (MB) (MC) (MD) (ME) (MF) (MG) (MH) (MI) (MJ) (MK) (ML) (MM) (MN) (MO) (MP) (MQ) (MR) (MS) (MT) (MU) (MV) (MW) (MX) (MY) (MZ) (NA) (NB) (NC) (ND) (NE) (NF) (NG) (NH) (NI) (NJ) (NK) (NL) (NM) (NN) (NO) (NP) (NQ) (NR) (NS) (NT) (NU) (NV) (NW) (NX) (NY) (NZ) (OA) (OB) (OC) (OD) (OE) (OF) (OG) (OH) (OI) (OJ) (OK) (OL) (OM) (ON) (OO) (OP) (OQ) (OR) (OS) (OT) (OU) (OV) (OW) (OX) (OY) (OZ) (PA) (PB) (PC) (PD) (PE) (PF) (PG) (PH) (PI) (PJ) (PK) (PL) (PM) (PN) (PO) (PP) (PQ) (PR) (PS) (PT) (PU) (PV) (PW) (PX) (PY) (PZ) (QA) (QB) (QC) (QD) (QE) (QF) (QG) (QH) (QI) (QJ) (QK) (QL) (QM) (QN) (QO) (QP) (QQ) (QR) (QS) (QT) (QU) (QV) (QW) (QX) (QY) (QZ) (RA) (RB) (RC) (RD) (RE) (RF) (RG) (RH) (RI) (RJ) (RK) (RL) (RM) (RN) (RO) (RP) (RQ) (RR) (RS) (RT) (RU) (RV) (RW) (RX) (RY) (RZ) (SA) (SB) (SC) (SD) (SE) (SF) (SG) (SH) (SI) (SJ) (SK) (SL) (SM) (SN) (SO) (SP) (SQ) (SR) (SS) (ST) (SU) (SV) (SW) (SX) (SY) (SZ) (TA) (TB) (TC) (TD) (TE) (TF) (TG) (TH) (TI) (TJ) (TK) (TL) (TM) (TN) (TO) (TP) (TQ) (TR) (TS) (TT) (TU) (TV) (TW) (TX) (TY) (TZ) (UA) (UB) (UC) (UD) (UE) (UF) (UG) (UH) (UI) (UJ) (UK) (UL) (UM) (UN) (UO) (UP) (UQ) (UR) (US) (UT) (UU) (UV) (UW) (UX) (UY) (UZ) (VA) (VB) (VC) (VD) (VE) (VF) (VG) (VH) (VI) (VJ) (VK) (VL) (VM) (VN) (VO) (VP) (VQ) (VR) (VS) (VT) (VU) (VV) (VW) (VX) (VY) (VZ) (WA) (WB) (WC) (WD) (WE) (WF) (WG) (WH) (WI) (WJ) (WK) (WL) (WM) (WN) (WO) (WP) (WQ) (WR) (WS) (WT) (WU) (WV) (WW) (WX) (WY) (WZ) (XA) (XB) (XC) (XD) (XE) (XF) (XG) (XH) (XI) (XJ) (XK) (XL) (XM) (XN) (XO) (XP) (XQ) (XR) (XS) (XT) (XU) (XV) (XW) (XZ) (YA) (YB) (YC) (YD) (YE) (YF) (YG) (YH) (YI) (YJ) (YK) (YL) (YM) (YN) (YO) (YP) (YQ) (YR) (YS) (YT) (YU) (YV) (YW) (YZ) (ZA) (ZB) (ZC) (ZD) (ZE) (ZF) (ZG) (ZH) (ZI) (ZJ) (ZK) (ZL) (ZM) (ZN) (ZO) (ZP) (ZQ) (ZR) (ZS) (ZT) (ZU) (ZV) (ZW) (ZX) (ZY) (ZZ)

2024 HSYV-5e 4x2x0.50mm HSYV-5e 4x2x0.50mm HSYZ-6 4x2x0.57mm HSYYPV-6A 4x2x0.57mm HCAAY-50-12 HCAAYZ-50-12 HRCAYZ-50-9 HRCAY-50-9 HCTAYZ-50-23 HCTAY-50-22 HCTAY-50-32 HHTAY-50-42 HLRWUCYZ-50-22T HLRHTCYZ-50-32T
 4310M-4310M-9*2 4310M-4310M-9*15 NM-NM-9*2 4310M-4310MA-9*5 4310M-DM-9*3 4310M-NM-9*3 4310M-DMA-9*3 DM-DMA-9*3 NM-NM-12*3 DM-DM-12*2
 1/2 1/2 N 7/8 7/8 N




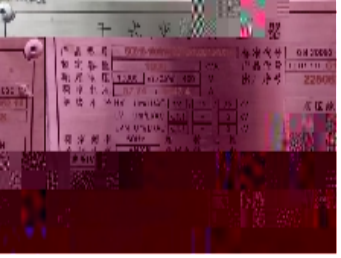
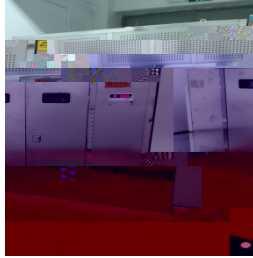

ISO 14067

2021

2024

		2074.7
		1648.38
		1384.80
		263.58
		16.091



	SCB10-2000/10	SCB10-1000/10	2010
2012			
2004			
SCB10-2000/10	SCB10-1000/10	SCB18-2000/10	SCB18-1250/10
	2#	3#	450kvar/
			5.8
  			
  			

270.6kWp

2024

393.72kWp

263.58

664.32 kWp

15.99%

ISO14001:2015

2024

PQ2

UV

15

15

PQ1

PQ3





2024		%
2024	,	
2024		
2024		

ISO 45001

2024

2024

2024

0

0

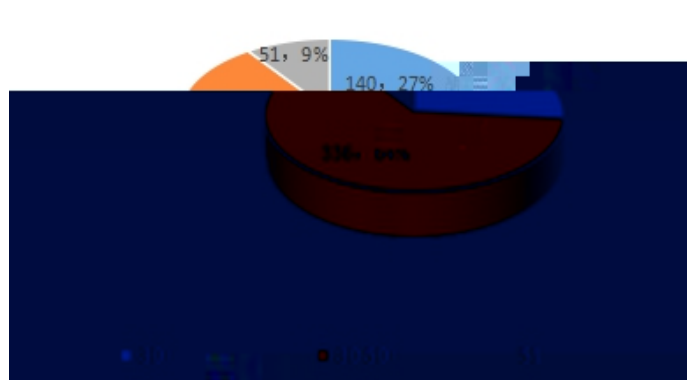
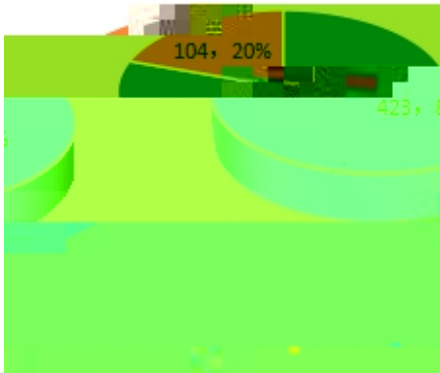
2024

2024

527

59

6



2024

860.67%

15.24%

1552170h

2024

5S

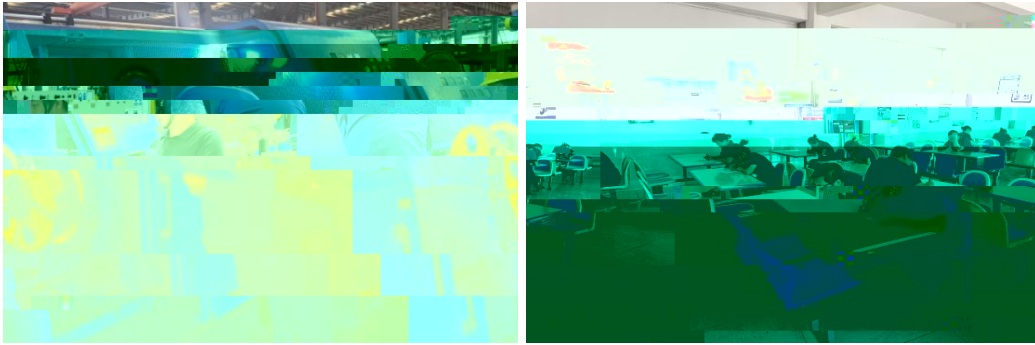
3

30429

49



5s



2024

100%

15%

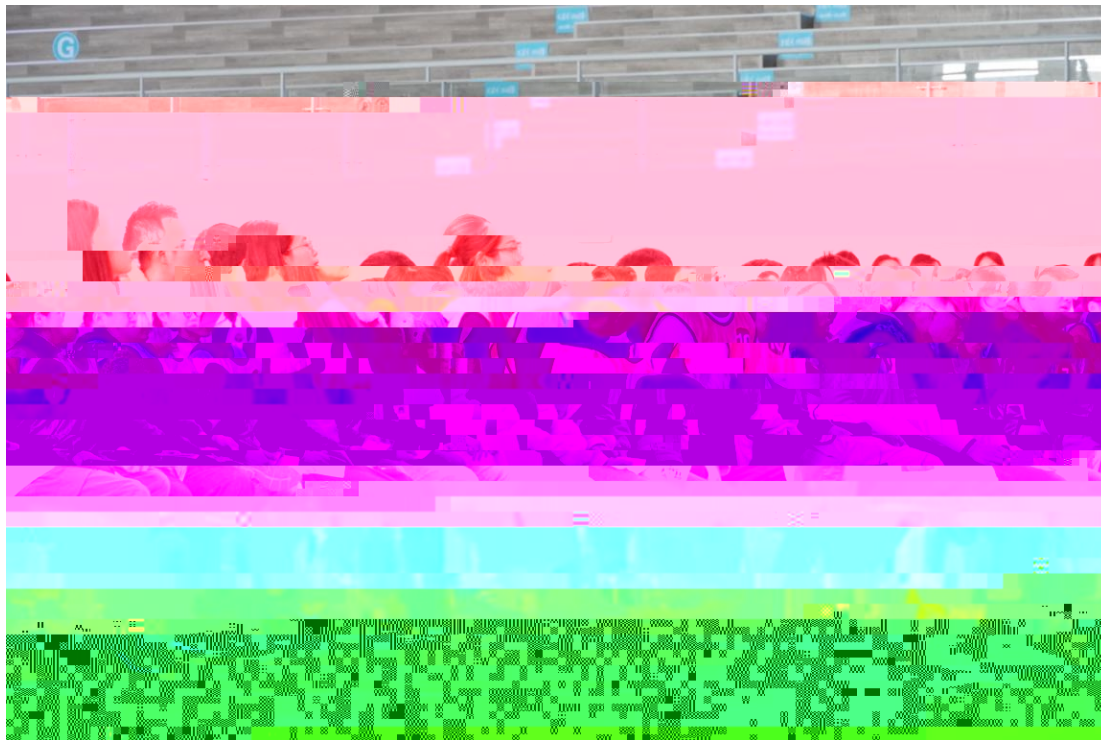
92%

1%

100%



2024





2024

2024

12893.75

180

2024

10

		0	0	0
	%	92.48	95.01	95.27
		109	118	147
/		6	4	9
		23	38	46
		18	46	36
		1917.6	2090.3	2074.7
		2960423	2912500	2635809
		134.07	126.78	195.36
		6888.98	7827.12	7458.00
		7023.05	7953.90	7653.36
		101526	106618	95795
		894	1000	10823
		6985.5	7128.5	8395.5
		510	528	527
		397	417	423
		113	111	104
		74	73	59
		25574	27984	30429

		0	0	0
		0	0	0
		0	0	0
	%	90	91	92
		5.63	75	10



	5S	
		2020

	2015 3	
	5S	
		1

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	2-29	P9
	2-30	P36
	3-1	P10-11
	3-2	P10
	3-3	P10-11
	201-1	P6
	201-2	/
	201-3	/
	201-4	/
	202-1	/
	202-2	/
	203-1	/
	203-2	/
	204-1	/
	205-1	/
	205-2	P16
	205-3	
	206-1	
	207-1	/
	207-2	/
	207-3	/
	207-4	/
	301-1	/
	301-2	P24
	301-3	P25
	302-1	P28
	302-2	/
	302-3	/
	302-4	P27-28

	302-5		P27-28
	303-1		P30
	303-2		P29
	303-3		P30
	303-4		P29
	303-5		P30
	304-1		
	304-2		
	304-3		
	304-4 (IUCN)		
	305-1	1	P26-27
	305-2	2	P26-27
	305-3	3	/
	305-4		/
	305-5		P26-27
	305-6	ODS	/
	305-7	NOX	SOX	P29
	306-1		P29-30
	306-2		P29-30
	306-3		P29-30
	306-4		P29-30
	306-5		P29-30
	308-1		P14-15
	308-2		P14-15
	401-1		P32, P35
	401-2		P33
	401-3		/

	402-1	/
	403-1	P31-32
	403-2	P31-32
	403-3	P31-32
	403-4	P31-32
	403-5	P31-32
	403-6	P31-32
	403-7	P31-32
	403-8	P31-32
	403-9	P31-32
	403-10	P31-32
	404-1	P33
	404-2	P33-34
	404-3	/
	405-1	P32
	405-2	P35
	406-1	P35
	407-1	/
	408-1	
	409-1	
	410-1	/
	411-1	
	413-1	P38
	413-2	P38
	414-1	P14-15

	414-2	P14-15
	415-1	
	416-1	P12-13
	416-2	
	417-1	P20
	417-2	
	417-3	
	418-1	