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# REAL VALUE FOR LIFE





# I. Overview



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<b>Introduction</b>	01
<b>Core Values</b>	03
<b>History &amp; Development</b>	03
<b>Product Lineup</b>	05
<b>Competitive Strength</b>	11
<b>Certifications &amp; Awards</b>	11
<b>Featured Project</b>	15

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## II. Introduction

### “THE REAL VALUE FOR LIFE”



BMAN - robot was 'born' from high quality industrial electrical products of BTB Electric. Through BMAN, Mr. Burak Berk, founder of BTB Electric - implicitly sent out the signal "**BTB Electric is always with you to bring a safe and peaceful life**".

BMAN is a subtle combination of **the brand name** (the letter B in BTB Electric) and **the human element** (the word MAN - strong and full of energy and enthusiasm), it is eager to conquer the market, create real values and always accompany the customers that BTB Electric aims to.

# III. Core Values



RESPECT FOR PEOPLE



FLEXIBILITY TO ADAPT



# IV. History & Development

**BTB Electric** was established in 1980, headquarters in Istanbul, Turkiye. With nearly **50 years of experience** in **manufacturing electrical equipment** and **providing quality electrical solutions**, our products are present in many countries around the world.



- 2000 . Continue to grow and expand into the European market
- 2000 . Actively launch new product lines and solutions, creating a diverse product collection



- 2018 . Establish an office in Vietnam
- 2018 . Establish an office in South Africa
- 2018 . Continue to grow and develop in the Asian market

- 1980 . Establish from a primitive factory in Istanbul, Turkiye



- 2011 . Quickly expand into neighboring regions
- 2011 . Research and launch a diverse product range
- 2011 . Establish an office in the USA



# V. Product Lineup

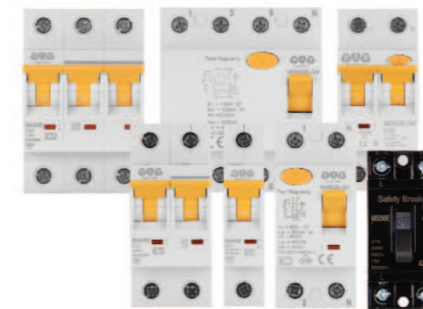
BTB Electric manufactures low-voltage electrical equipment, including circuit breakers, control devices, and power quality devices.



## ACB / MCCB



## MCB



**Model** : MA63, MA125 MR63, MR100  
 MO32, MO63 MS50, MO50  
**Un (V)** : AC240/415  
**In (A)** : 6/10/16/20/25/32/40/50/63/80/100/125  
**Curve** : B/C/D  
**Icu (kA)** : 6/10/15  
**Standard** : IEC/EN 60898-1 & IEC/EN 60947-2  
**Laboratory**: DEKRA & INTERTEK



MCB code MA

RCCB code MR

RCBO code MO

Safety breaker code MS

## POWER FACTOR RELAY

**Model** : PFRBs, PFR96b, PFR60b, PFR80b, PFR120b  
**Power system** : 240/415V and 0.05 ~ 5.5A  
**Cosφ setting** : 0.8 (L) ~ 0.8 (C)  
**Numbers of outputs** : 6/8/12/32(Z)  
**Standard** : IEC/EN 61000-6-2  
**Laboratory** : Quatest1




Power Factor Relay  
PFR-96Bs/PFR-96b




Power Factor Relay  
PFR-60b/80b/120b




Power Factor Relay-Z  
PFR-Z




**Model** : MF (Fixed type)  
**In (A)** : 16 ~ 1600A  
**Un (V)** : 690V  
**Icu (kA)** : 15/25/36/50/85/100kA  
**Standard** : IEC60947-2  
**Laboratory** : DEKRA



**Model** : MT (Thermal adjustable type)  
**In (A)** : 16 ~ 1600A  
**Adjustable** : 0.7 - 0.85 - 1.0In  
**Un (V)** : 690V  
**Icu (kA)** : 18/25/36/50/60/75kA  
**Standard** : IEC60947-2  
**Laboratory** : DEKRA



**Model** : ML (ELCB type)  
**In (A)** : 100 ~ 800A  
**Un (V)** : 440V  
**Icu (kA)** : 35/50/65/100kA  
**Standard** : IEC60947-2



**Model** : ME (Electronic type)  
**In (A)** : 125 ~ 1600A  
**Adjustable** : 0.4 ~ 1.0In  
**Un (V)** : 690V  
**Icu (kA)** : 25/36/50/60/75kA  
**Standard** : IEC60947-2  
**Laboratory** : DEKRA



**Model** : MA3  
**In (A)** : 630 ~ 6300A  
**Adjustable** : 0.4 ~ 1.0In  
**Frame** : 2000/3200/4000/6300  
**Un (V)** : 415/690V  
**Icu (kA)** : 65/85/100/135kA  
**Standard** : IEC60947-2  
**Laboratory** : DEKRA

# V. Product Lineup

## AC CONTACTOR / THERMAL OVERLOAD RELAY

**Model** : MC3 - AC Contactor  
 MT3 - Thermal Overload Relay  
**Un (V)** : AC240/440/690  
**In (A)** : 9~800 Contactor and 1~630 Thermal Overload Relay  
**Coil (V)** : AC24/48/100/110/220/240/380/415  
**Standard** : IEC/EN 60947-1, IEC/EN 60947-4-1, UL 508  
**Laboratory** : Intertek



AC Contactor code MC3

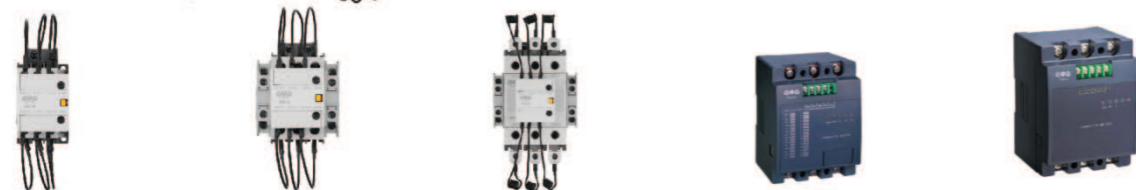


Thermal Overload Relay code MT3

## CAPACITOR SWITCHING CONTACTOR



**Model** : MC3  
 BCS  
**Power range** : 5kVAR ~ 100kVAR  
**Rated voltage** : 250/440V  
**Standard** : IEC60947-4-1  
**Laboratory** : Intertek



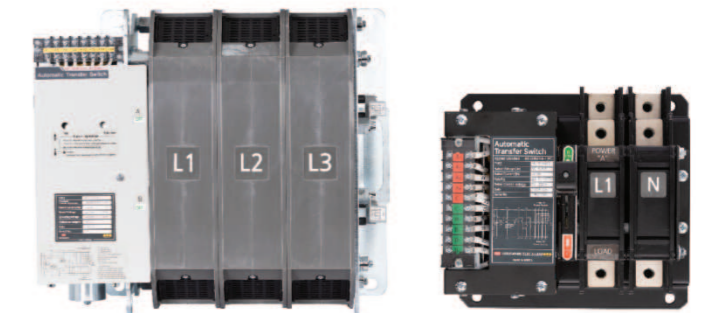
Contactor code MC3

Contactor code BCS



## ATS

**Model** : N  
 TN  
**Un (V)** : AC600 / DC125  
**In (A)** : 63 up to 3200  
**Pole** : 2P/3P/4P  
**Switching frequency** : A - B or A - OFF - B  
**Standard** : IEC/EN 60947-6-1  
**Laboratory** : KERI



## ATS CONTROLLER



**Model** : ATbSC55  
 ATbSC56  
 Hanpro1000  
**Power system** : 3P4W/400V and 1P2W/230V  
**Control** : Two-stage ATS, three-stage ATS,  
 2 ACB and 2 Contactor  
**Standard** : IEC/EN 61000-6-2  
**Laboratory** : Quatest1



# V. Product Lineup

## CAPACITOR

- Model** : BDC  
BIC
- Power range** : 1.0 ~ 70kVAR
- Rated voltage** : 240/415/440/480/525
- Maximum permissible current** : 1.5In
- Standard** : IEC/EN 60831 & IEC/EN 61921
- Laboratory** : CPRI



Capacitor code M

Intelligent Capacitor

## ACTIVE HARMONIC FILTER

- Model** : BF3
- Rated input line voltage** : 380V + 20%
- Power grid structure** : 3P3W / 3P4W
- Compensation current** : 50A đến 600A
- Compensation efficiency** : > 97%
- Standard** : JB/T 11067-2011,  
IEC/EN 60439-1, EN 61000-6



Type: Drawer

Type: Wall-mounted

Type: Cabinet

## REACTOR

- Model** : BRH3
- Power range** : 5~100 for LV and 100~2500 for MV
- Rated voltage** : 200~690V for LV and 3~35kV for MV
- Resonance frequency** : 6/7/13/14%
- Standard** : IEC/EN 60076-6
- Laboratory** : ETCI



Discharge Reactor


Reactor LV

Reactor MV




# VI. Competitive strength






Electrical equipment manufactured according to European standards



Stable competitive pricing according to price list



The electrical equipment supplier to prestigious partners in the electrical industry

BTB Electric is not just a company that manufactures and supplies electrical products; it also brings unique ideas and optimal solutions to each project, with the ultimate goal of achieving customer satisfaction and trust.



# VII. Certifications & Awards






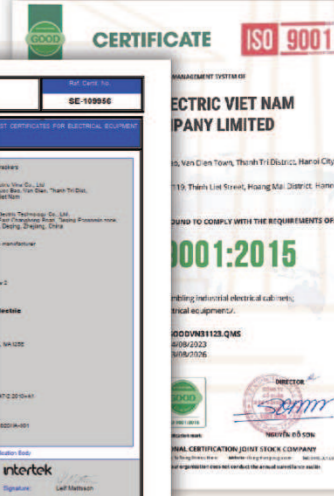












BTB Electric's products have been certified for quality by leading global organizations such as Underwriters Laboratory (UL) - USA, Intertek - UK, Dekra - Netherlands, and meet IEC, EN, JIS, and other standards. Our products are **continually enhanced in terms of energy efficiency and stability** across various environments.



# VII. Certifications & Awards



## CERTIFICATE

**Issued to:**  
**Applicant:**  
 BTB Electric Vina Co., Ltd  
 No.85 Quoc Bao, Van Dien Town, Thanh Tri Dist  
 10000 Hanoi, Vietnam

**Product** : Moulded-Case Circuit-Breaker  
**Trade name(s)** : BTB Electric  
**Type(s)/model(s)** : MF 125E, MF 125S, MTm 125E, MTm 125S, MT 125E and MT 125S

The product and any acceptable variation thereto as specified in the Annex to this certificate and the documents therein referred to.

DEKRA hereby declares that the above-mentioned product has been certified on the basis of:

- a type test according to EN 60947-2:2017, EN 60947-2:2017/A1:2020, IEC 60947-2:2016 and IEC 60947-2:2016/AMD1:2019
- an inspection of the factory location according to CENELEC Operational Document CIG 021
- a DEKRA certification agreement with the number 2165673
- the licensee is registered with the number 2926

DEKRA hereby grants the right to use the KEMA-KEUR certification mark.

The KEMA-KEUR certification mark may be applied to the product as specified in this certificate for the duration and under the conditions of the KEMA-KEUR certification agreement.

This certificate is issued on 18 December 2023 and expires upon withdrawal of one of the above mentioned standards.

Certificate number: 33-133660

DEKRA Certification B.V.

**B.T.M. Holtus**  
 Managing Director

**K. Lin**  
 Certification Manager

© Integral publication of this certificate is allowed

ACCREDITED BY THE  
DUTCH ACCREDITATION  
COUNCIL

DEKRA Certification B.V. Meander 1051, 6825 MJ Arnhem P.O. Box 5185, 6802 ED Arnhem, Netherlands  
 T +31 88 96 83000 F +31 88 96 83100 www.dekra-product-safety.com Company registration 09085396

Test Report issued under the responsibility of  
**Intertek**  
 Test Quality Assured

### TEST REPORT

IEC 60947-2  
Low-voltage switchgear and controlgear - Part 2: Circuit-breakers

**Report Number:** 221200923HA-001  
**Date of issue:** 2023-12-22  
**Total number of pages:** 191

**Name of Testing Laboratory preparing the Report:** Intertek Testing Services Shanghai Building No.85, 1198 Qirchou Road (North), Shanghai 200233, China  
**Applicant's name:** BTB Electric Vina Co., Ltd.  
**Address:** No.85 Quoc Bao, Van Dien, Thanh Tri Dist, Hanoi, Vietnam

**Test specification:**  
**Standard:** IEC 60947-2:2016, AMD1:2019  
**Test procedure:** CB Scheme  
**Non-standard test method:** N/A

**Test Report Form No.:** IEC0947\_2J  
**Test Report Form(s) Originator:** DEKRA Certification B.V.  
**Master TRF:** Dated 2020-03-31  
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If this Test Report Form is used by non-IECEE members, the IECEE/IEC logo and the reference to the CB Scheme procedure shall be removed.

This report is not valid as a CB Test Report unless signed by an approved CB Testing Laboratory and appended to a CB Test Certificate issued by an NCB in accordance with IEC60947-2.

**General disclaimer:**  
 The test results presented in this report relate only to the object tested. This report shall not be reproduced, except in full, without the written approval of the issuing CB Testing Laboratory. The authenticity of this Test Report and its contents can be verified by contacting the NCB responsible for this Test Report.

**Test item description:** Circuit-breakers  
**Trade Mark(s):** BTB Electric  
**Manufacturer:** MAXGE ELECTRIC TECHNOLOGY CO., LTD No. 299 East Changsheng Road, Deqing Economic Zone, Wukang, Deqing, Zhejiang, China MA125S, MA125E  
**Model/Type reference:** Usm 240V-(1P), 415V-(2P, 3P, 4P), 50/60Hz; Int: 40, 50, 63, 80, 100, 125A  
**Ratings:**

Ref. Certif. No.:  
SE-109956

IEC SYSTEM FOR MUTUAL RECOGNITION OF TEST CERTIFICATES FOR ELECTRICAL EQUIPMENT  
IECEE CB SCHEME

### CB TEST CERTIFICATE

**Product:** Moulded-Case Circuit-Breaker

**Name and address of the applicant:** BTB Electric Vina Co., Ltd  
No.85 Quoc Bao, Van Dien Town, Thanh Tri Dist., 10000 Hanoi Vietnam

**Name and address of the manufacturer:** MAXGE ELECTRIC TECHNOLOGY CO., LTD  
No. 299 East Changsheng Road, Wukang Town, 313200 Deqing County Zhejiang, China

**Name and address of the factory:** MAXGE ELECTRIC TECHNOLOGY CO., LTD  
No. 299 East Changsheng Road, Wukang Town, 313200 Deqing County Zhejiang, China

After non-then use factory, please report on page 2

**Product data:**  
 Ratings: Up to 240 VAC / 415 VAC / 415 VAC, 50 / 60 Hz  
 In: 40 A, 50 A, 63 A, 80 A, 100 A, 125 A, 160 A, 200 A, 250 A, 315 A, 400 A, 500 A, 630 A, 800 A, 1000 A, 1250 A, 1600 A, 2000 A, 2500 A, 3150 A, 4000 A, 5000 A, 6300 A, 8000 A, 10000 A  
 U<sub>e</sub> 100, 150, 180, 250, 315, 400, 500, 630, 800, 1000, 1250, 1600, 2000, 2500, 3150, 4000, 5000, 6300, 8000, 10000, 12500, 16000, 20000, 25000, 31500, 40000, 50000, 63000, 80000, 100000, 125000, 160000, 200000, 250000, 315000, 400000, 500000, 630000, 800000, 1000000  
 SP and IP (2 pole without preinsertion protection)  
 In: 25 kA for 2 series, 18 kA for 3 series, 12 kA for 4 series. See additional pages for further ratings

**Trademark / Brand (if any):** BTB Electric

**Customer's Testing Facility (CTF) Stage used:**

**Model / Type Ref.:** MF 125E, MF 125S, MT 125E, MT 125S, MF 125E and MF 125S

**Additional information (if necessary may also be reported on page 2):** Additional information on page 2

A sample of the product was tested and found to be in conformity with IEC 60947-2:2016 and IEC 60947-2:2016/AMD1:2019 as shown in the Test Report Ref. No. which forms part of this Certificate.

Signature: H.L. Sebentoes

## CERTIFICATE OF COMPLIANCE

**Certificate Number:** E531672  
**Report Reference:** E531672-20221129  
**Issue Date:** 2022-NOVEMBER-30

**Issued to:** BTB ELECTRIC VIETNAM COMPANY LIMITED  
No 85 Quoc Bao Street, Van Dien Town, Thanh Tri District Hanoi, VN

**This certificate confirms that representative samples of:** MOTOR CONTROLLERS, MAGNETIC Capacitor switching contactors:  
BCC05K11M7, BCC10K11M7, BCC12K11M7, BCC15K11M7, BCC20K11M7, BCC25K11M7, BCC30K11M7, BCC40K12M7, BCC50K12M7, BCC60K12M7.  
Motor controllers: BCC75K12M7, BCC100K12M5.

Have been evaluated by UL in accordance with the Standard(s) indicated on this Certificate.

**Standard(s) for Safety:** UL 60947-4-1 and CAN/CSA C22.2 No. 60947-4-1-14 - Low-Voltage Switchgear and Control gear – Part 4-1: Contactors and motor-starters – Electromechanical contactors and motor-starters.  
UL 60947-1 and CSA C22.2 NO. 60947-1-13 - Low-Voltage Switchgear And Controlgear - Part 1: General Rules.

**Additional Information:** See UL Product IQ® at <https://ul.ulprospector.com> for additional information.

This Certificate of Compliance indicates that representative samples of the product described in the certification report have met the requirements for UL certification. It does not provide authorization to apply the UL Mark. Only the Authorization Page that references the Follow-Up Services Procedure for ongoing surveillance provides authorization to apply the UL Mark.

Only those products bearing the UL Mark should be considered as being UL Certified and covered under UL's Follow-Up Services.

Look for the UL Certification Mark on the product.

Signature:   
 Leif Mattsson  
 UL  
 Date: 05 January, 2023

Ref. Certif. No.:  
SE-109956

IEC SYSTEM FOR MUTUAL RECOGNITION OF TEST CERTIFICATES FOR ELECTRICAL EQUIPMENT  
IECEE CB SCHEME

### CB TEST CERTIFICATE

**Product:** Circuit breakers

**Name and address of the applicant:** BTB Electric Vina Co., Ltd  
No.85 Quoc Bao, Van Dien, Thanh Tri Dist., Hanoi Vietnam

**Name and address of the manufacturer:** Maxge Electric Technology Co., Ltd  
No. 299 East Changsheng Road, Deqing Economic Zone, Wukang, Deqing, Zhejiang, China

**Name and address of the factory:** Same as manufacturer

After non-then use factory, please report on page 2

**Ratings and principal characteristics:** See page 2

**Trademark / Brand (if any):** BTB Electric

**Customer's Testing Facility (CTF) Stage used:**

**Model / Type Ref.:** MA125S, MA125E

**Additional information (if necessary may also be reported on page 2):**

A sample of the product was tested and found to be in conformity with IEC 60947-2:2016-A1

As shown in the Test Report Ref. No. which forms part of this Certificate.

Signature:   
 Leif Mattsson

# VIII. Featured project



Lotte World Mall (Korea)



Qingdao Subway (China)



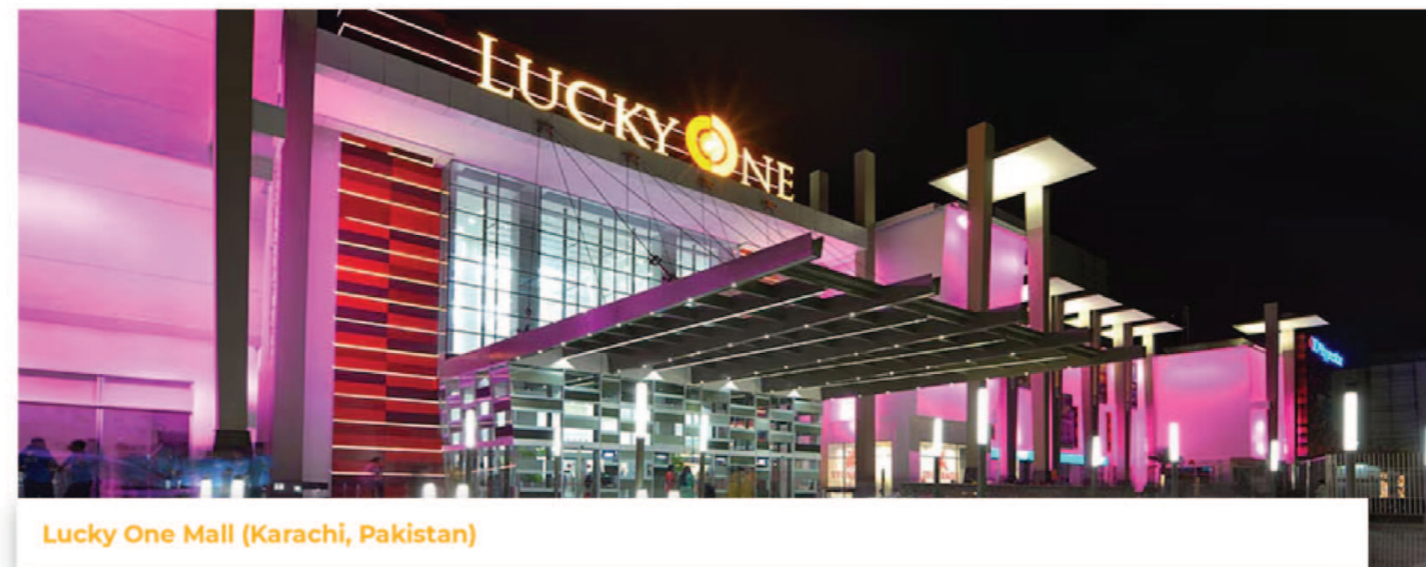
Kenneth Kaunda International Airport



Orissa International (Thailand)



BUMJIN Electronics Vina



Lucky One Mall (Karachi, Pakistan)

# VIII. Featured project



Vinh Phat Spinning Company Limited



VINAUSTEEL Joint Stock Company



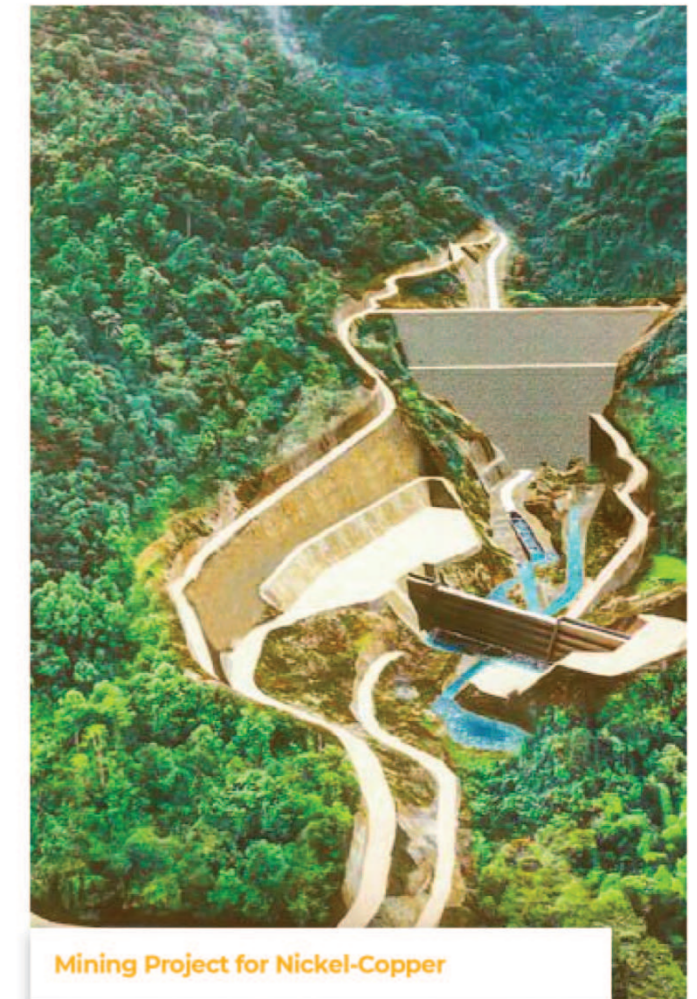
Luxshare - ICT (Van Trung) Company Limited



Bumjin Electronics VINA CO.,LTD



Luxshare - ICT (Nghe An) Limited



Mining Project for Nickel-Copper



BWID Phu Nghia CO., LTD (Chuong My)



Ha Thanh Cereramic Tile Corporation



VinES Energy Solutions Joint Stock Company



Phenikaa Chemical Company Limited

# VIII. Featured project



EVNNPC - PC Hoa Binh



EVNNPC - PC Thai Binh



EVNNPC - PC Tuyen Quang



EVNNPC - PC Vinh Phuc



EVNNPC - PC Nam Dinh



EVNNPC - PC Hung Yen



EVNNPC - PC Thanh Hoa



EVNNPC - PC Ha Nam



EVNNPC - PC Bac Giang



EVNNPC - PC Lao Cai

# VIII. Featured project

