





# Fortune Electric Co., Ltd.

TWSE Code : 1519

2022/12/5



華城電機股份有限公司  
FORTUNE ELECTRIC CO., LTD.

-  This Presentation contains certain forward-looking statements that are based on current expectation and are subject to known and unknown risks and uncertainties that could cause actual results to differ materially from those expressed or implied by such statements.
-  Except as required by laws, we undertake no obligation to update any forward-looking statements, whether as a result of new information, future events or otherwise.



# 1. Basic company information(1/2)

- |   |                                     |   |                                   |
|---|-------------------------------------|---|-----------------------------------|
| 1 | Type of Business/ <b>Electrical</b> | 6 | OTC Listing Status/ <b>Listed</b> |
| 2 | Establishment/ <b>1969.08.26</b>    | 7 | Listing Date/ <b>1997.04.16</b>   |
| 3 | Chairman/ <b>Pedro Hsu</b>          | 8 | Capital/ <b>2.61Billion</b>       |
| 4 | President/ <b>Ted Hsu</b>           | 9 | Employees/ <b>Global 1,000</b>    |
| 5 | CEO/ <b>Ithen Hsu</b>               |   |                                   |



## Product Categories

**Equipment: Transformer /Power Distribution Panel / Switchgear /Power Distribution Material/  
Intelligent Meter/ Electrical Vehicle Charger**

**Turnkey: Substation/ Power Plant / Renewable Energy System /Offshore Wind Power / Smart Substation /  
Solar Energy Turnkey Project/ Charger System Installation/ Smart Grid System**



# 1. Basic company information(2/2)



1969

## Tu-Chen Plant

FE established Transformer Factory at Tu-Chen Dist., New Taipei City.



1980

## Plant I (Chung Li) Electrical Div.

Moved Plant to Chung Li; Started production of switchgears and transformers.



1994

## Plant II (Guan Yin) Power Division

Completion of Plant II for production of Extra Large Transformers



1999

## Plant III (Guan Yin) Switchgear Div.

Completion of Plant III for production of Switchgears and offshore Wind Turbines and offshore generator projects



2003

## Wuhan Plant

Completion of Wuhan Plant for Transformer Production.

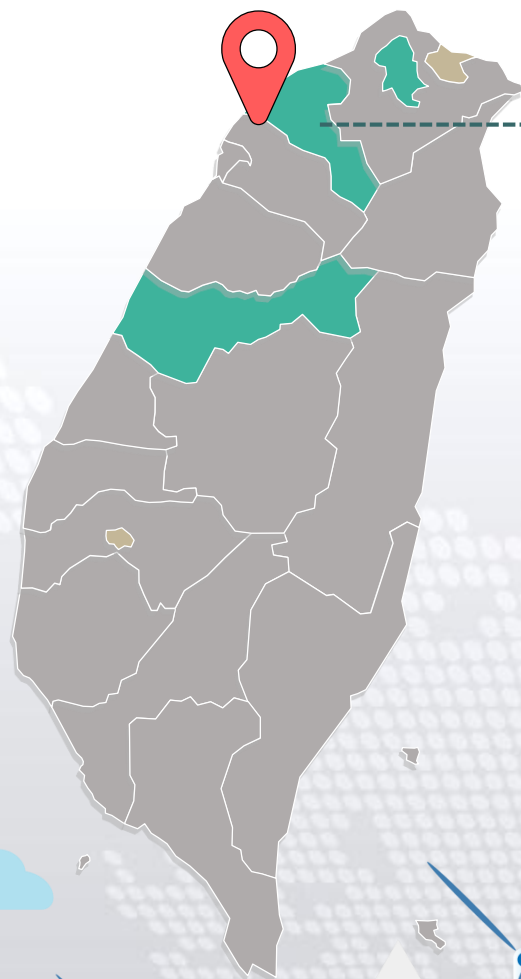


2015

## FE EHV

Taichung Harbor Free Trade Zone Production of >500kV Extra Large Transformer and Transformer inside Wind Turbine Tower and Module Assembly as well as Wind Turbine Assembly

## 2. Company Overview-Chung-Li Factory(1/4)



**Pole-mount transformer**



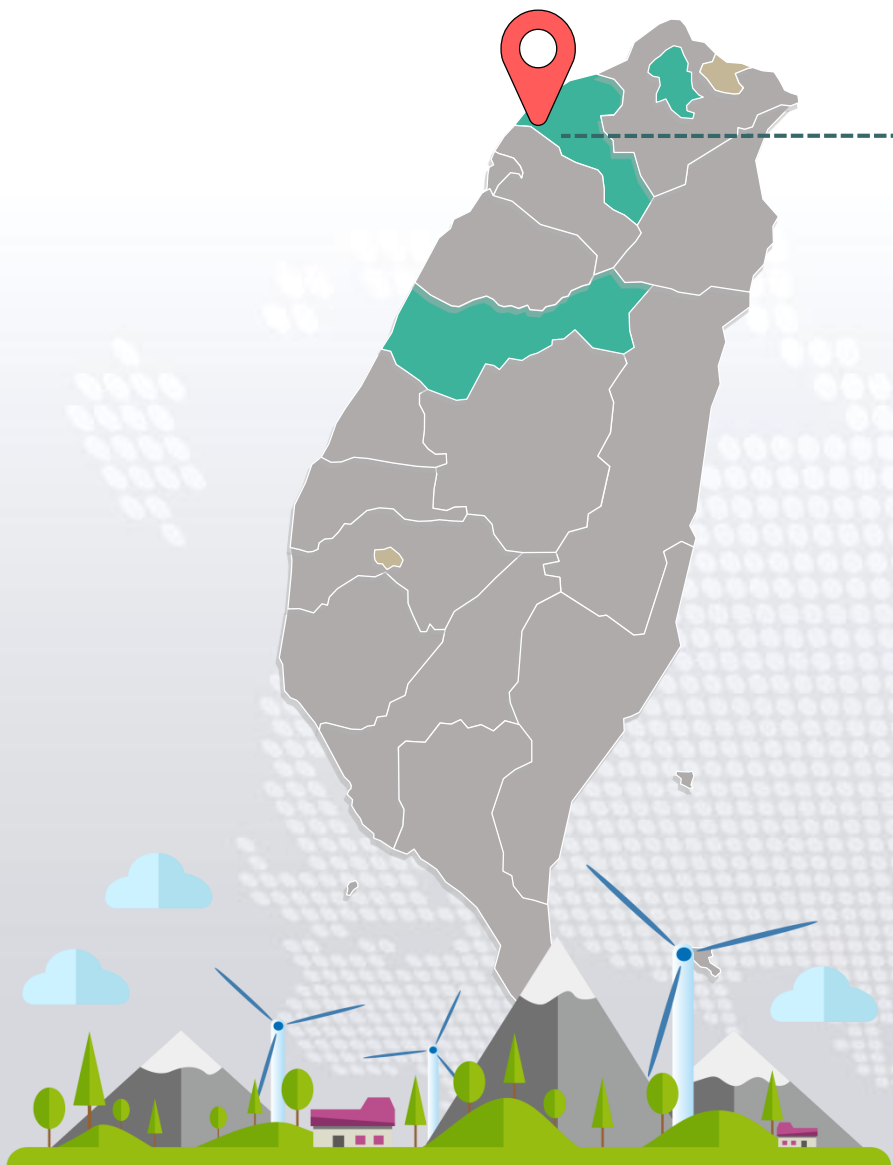
**Pad-mount transformer**



**Oil type amorphous metal core distribution transformer**



## 2. Company Overview-Guanyin II Factory(2/4)

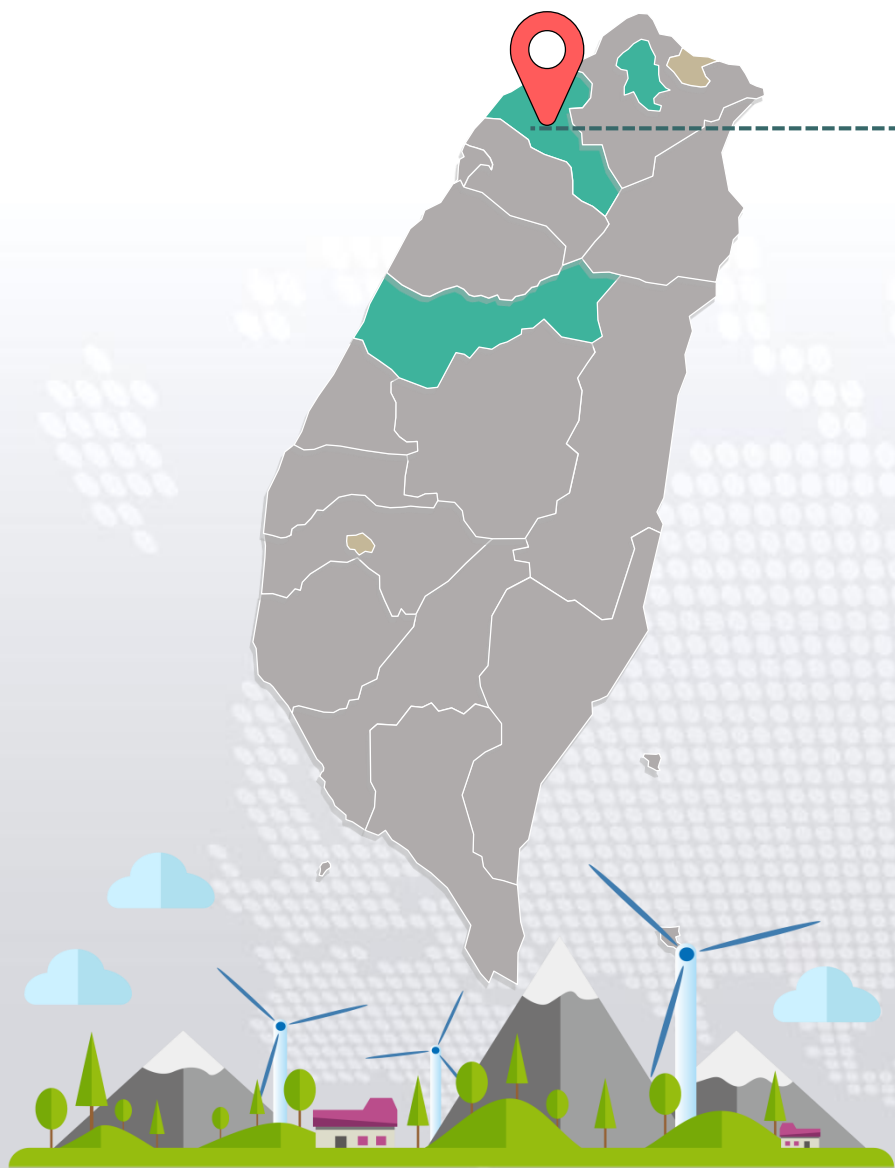


In 2011, a 500kV class (1,300kV BIL), 400kV 200MVA power transformer that suitable for ambient temperature of -50°C operation was delivered to a US utility.

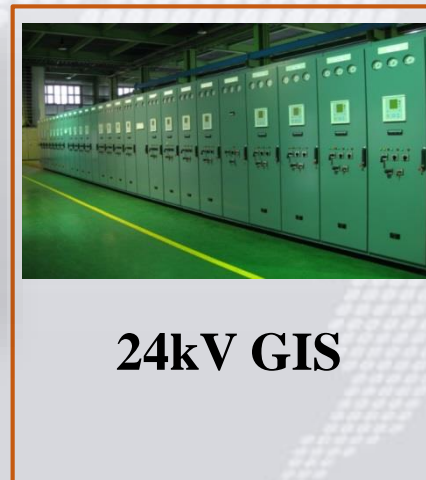


The only domestic manufacturer passed KEMA 230kV 240MVA short circuit test as of 2012.

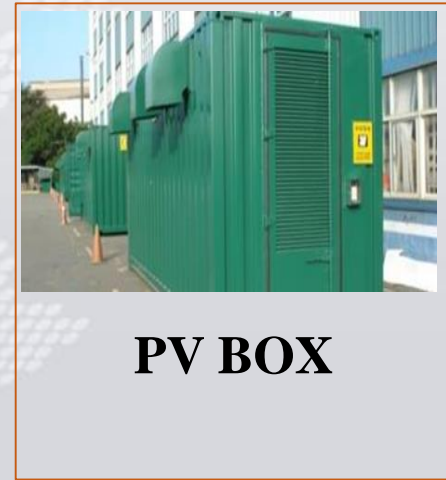
## 2. Company Overview-Guanyin III Factory(3/4)



**Matsu Power Plant was completed & energized with an expedited lead time**



**24kV GIS**

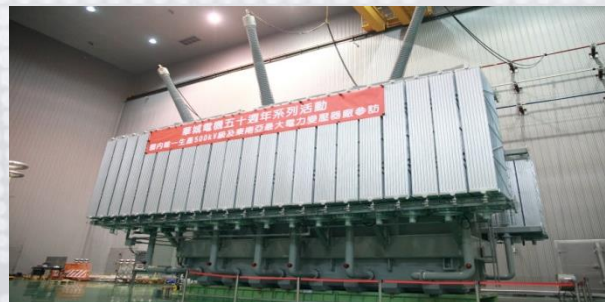
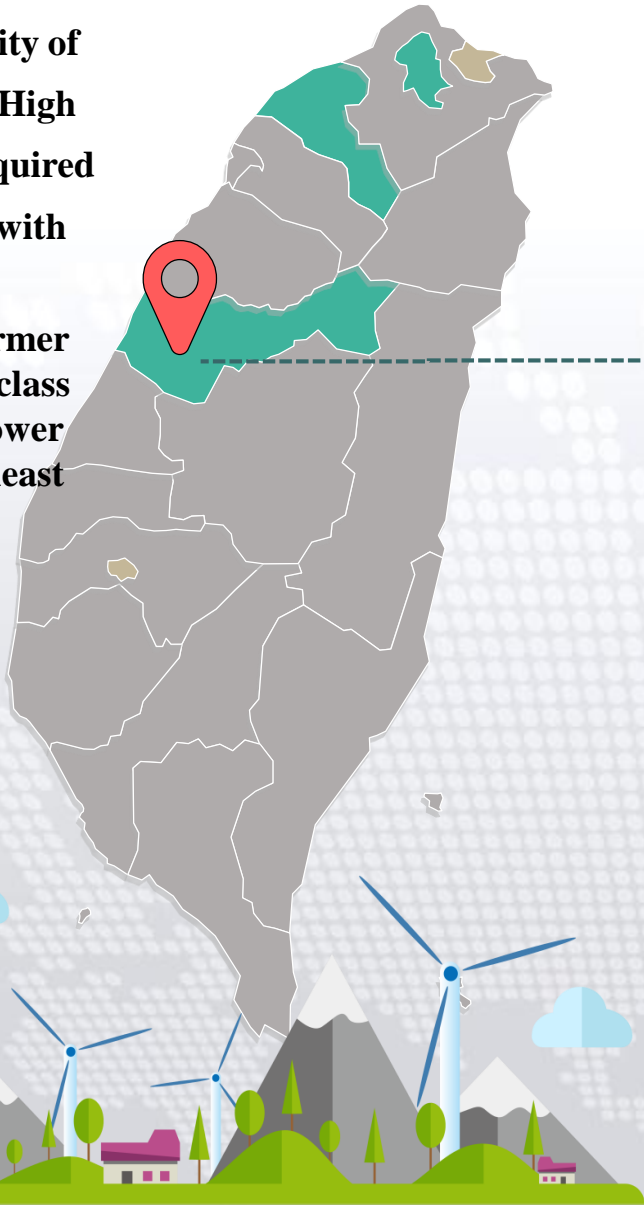


**PV BOX**

## 2. Company Overview-Taichung Factory(4/4)

**【In April 2019, 100% equity of Fortune Electric Extra High Voltage Co., Ltd. was acquired from the joint venture with Hitachi.】**

**The only domestic transformer manufacturer with 500kV class capability & the largest power transformer shop in Southeast Asia**



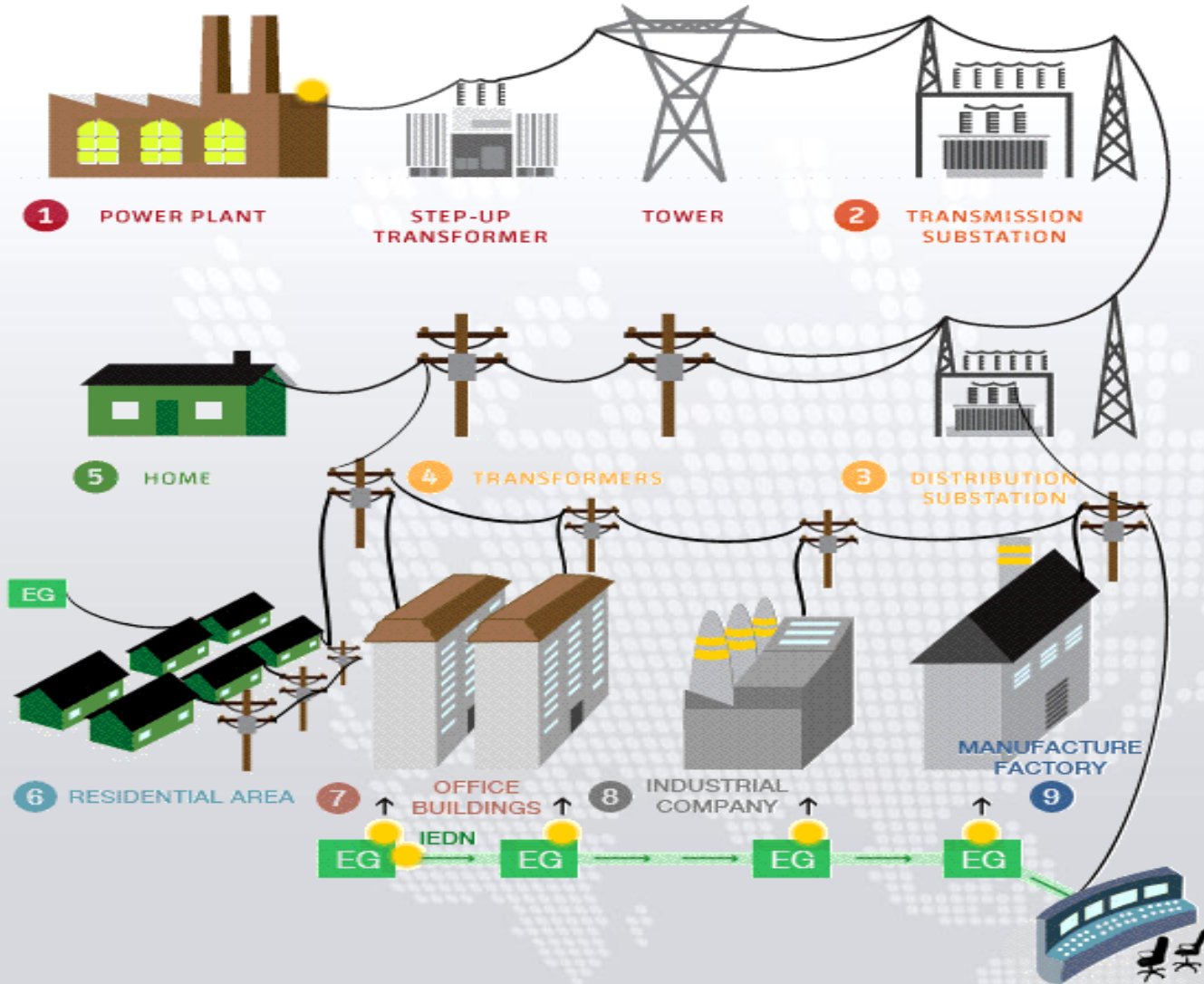
**In August 2019, completed and exported a record-breaking 530kV 775MVA power transformer to an US utility.**



**The largest and only 500kV transformer shop in Southeast Asia passed KEMA short circuit test as of 2018.**

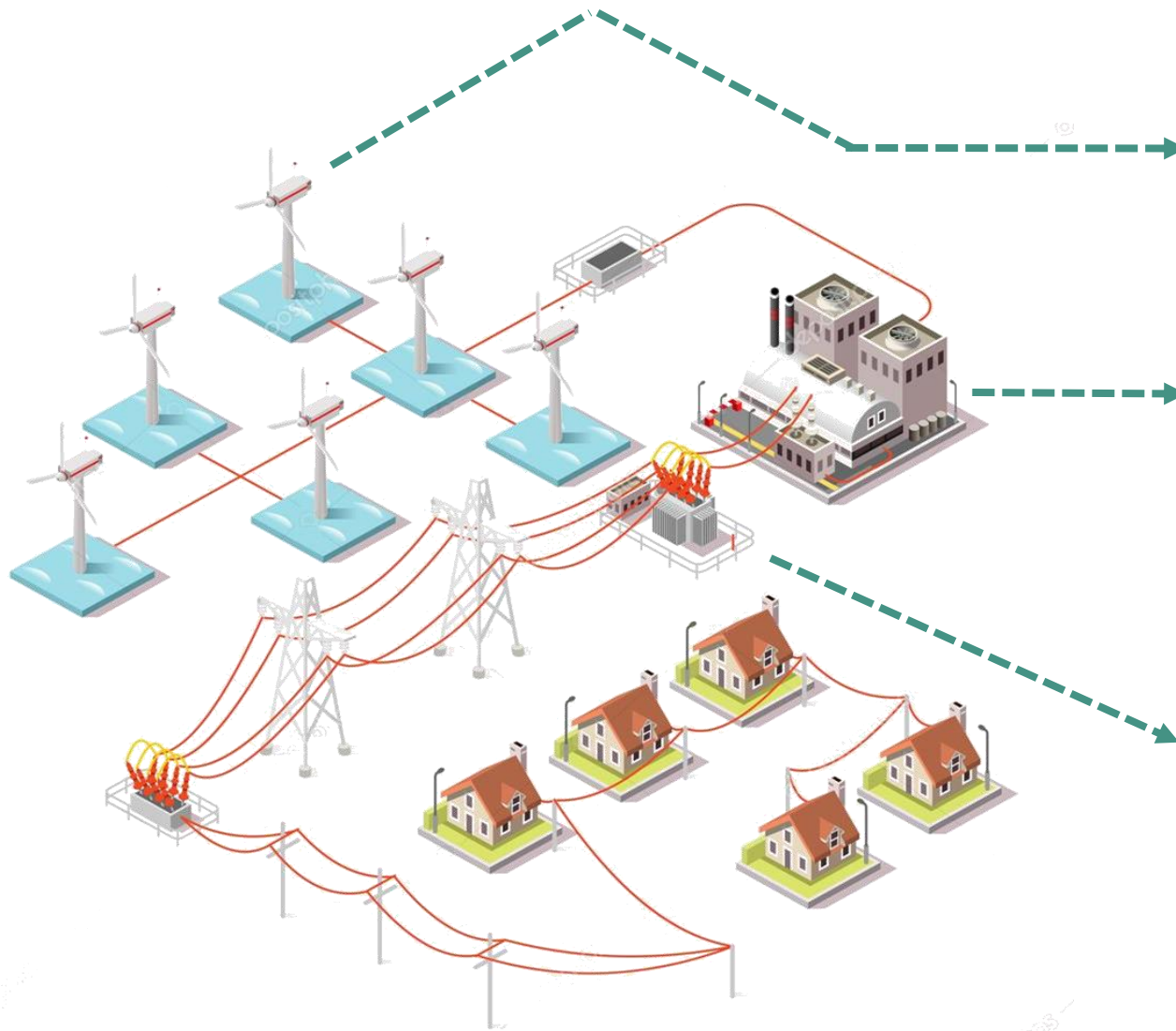


# 3. The Most Completed Product Line



- 1 Step-up 345kV~500kV power transformers
- 2 Substation type 161kV power transformers
- 3 Substation type 69kV power transformers
- 4 Distribution pole/pad transformers
- 5 Transformers for industrial applications
- 6 System pre-planning, replacement & specification requirement service

# 4. Renewable Energy - Offshore Wind Farm Power System

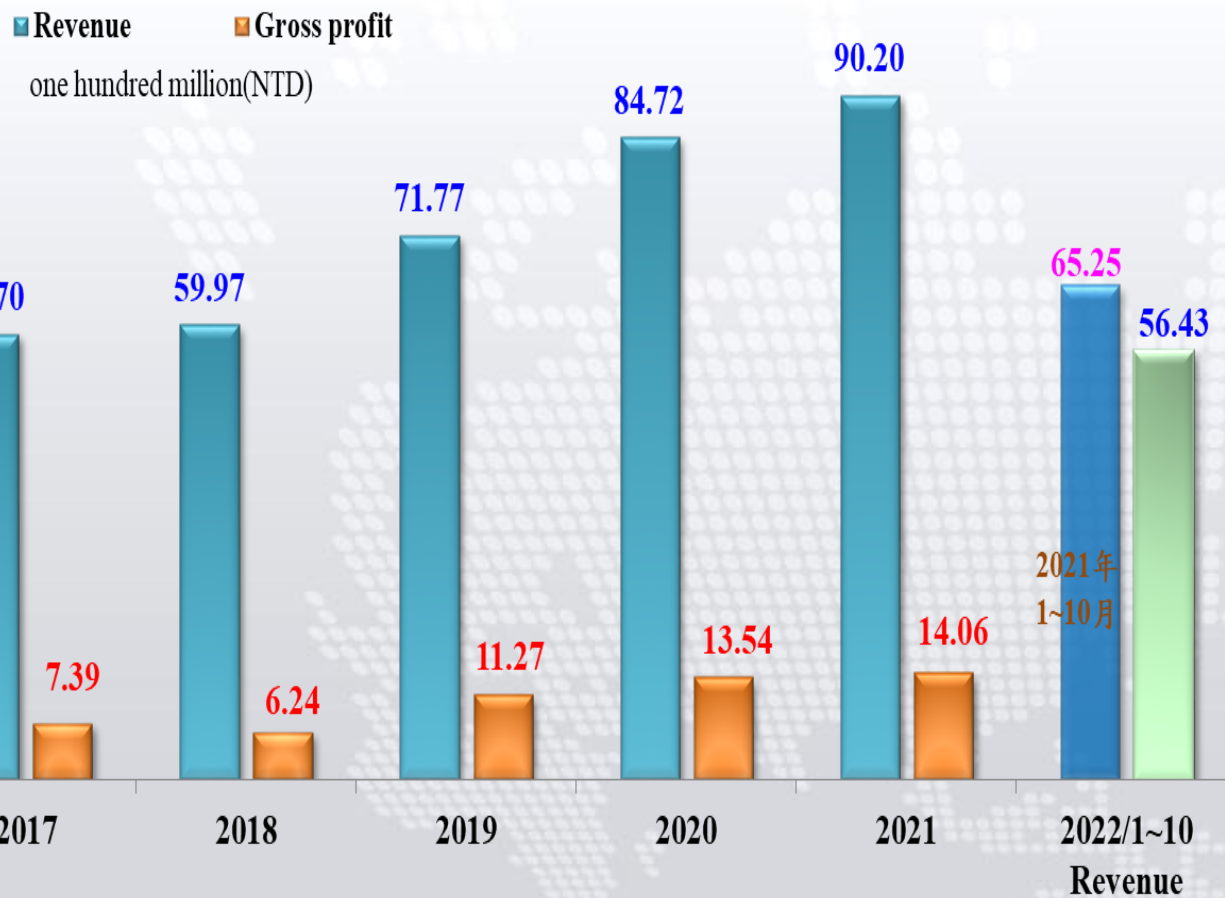


- 1** In-tower transformer for 66kV
- 2** 230KV submarine cable transmission
- 3** 161kV UHV step-up substations and onshore power system turnkey projects
- 4** TPC grid-connected power transmission

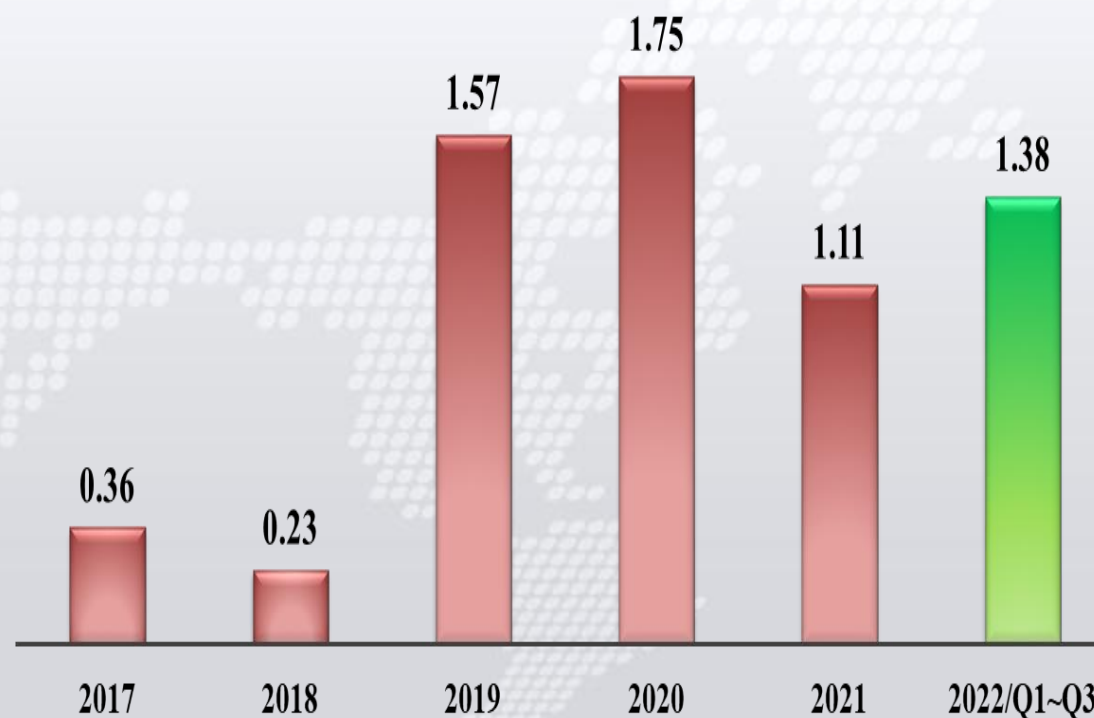


# 5. Operating Revenue & Profit

### Revenue and Profit for 2017~2022/10

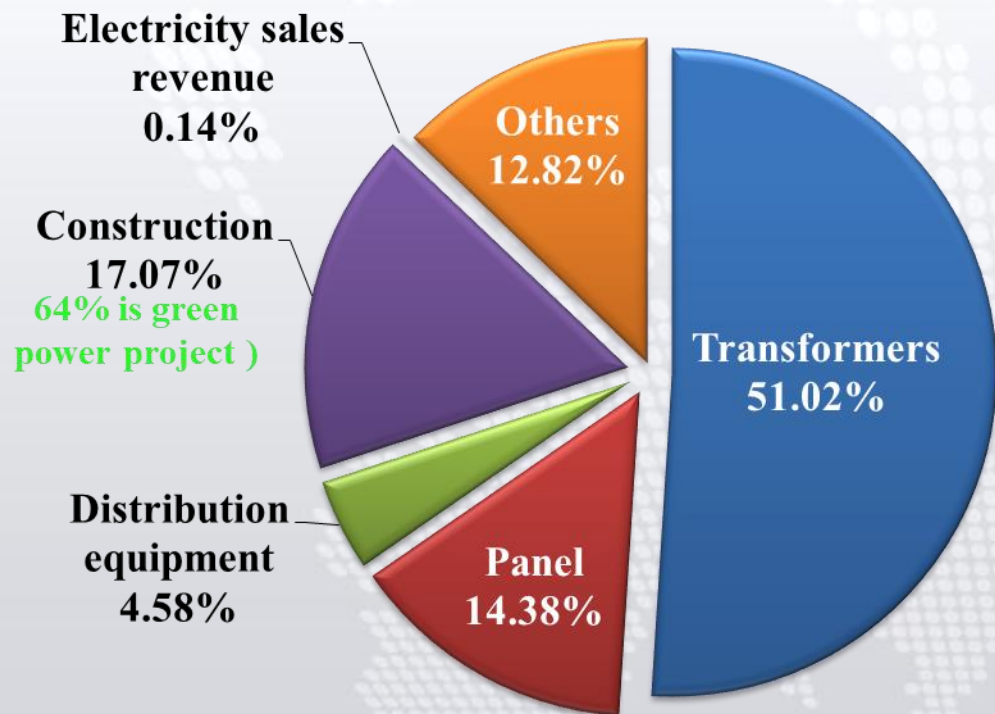


### EPS for 2017~2022/Q3

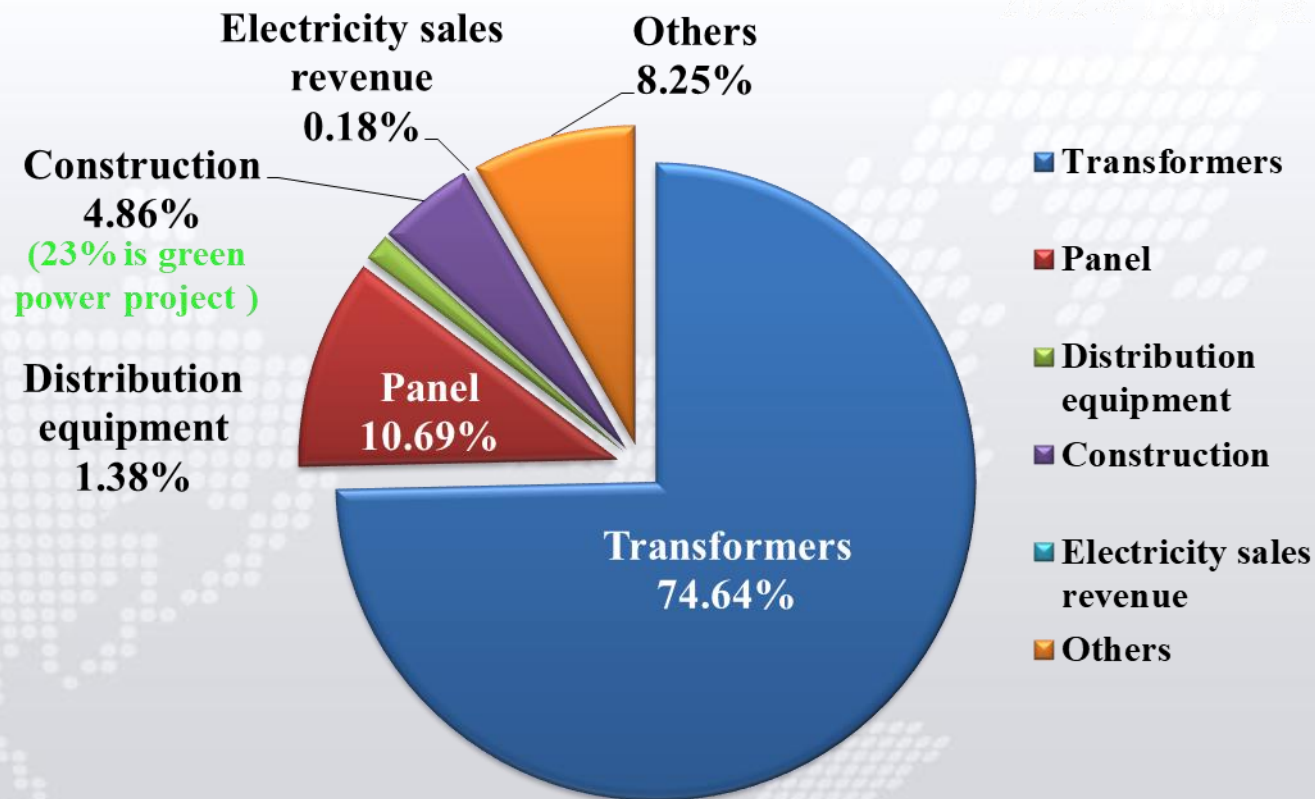


# 6. Percentage of Products for 2021 and 2022/1~10

2021



2022/1~10



Others: including transformer installation / maintenance works, sale of materials / spare parts, et



# 7. Consolidated Simplified Financial Overview for Q3 2022

## Fortune Electric Co., Ltd. and Subsidiaries Consolidated Financial Simple Highlights

Unit : NTD in Thousands

Item	2022Q3		2021Q3	
	Amount	%	Amount	%
Property, plant and equipment	1,969,607	17%	1,996,086	20%
TOTAL Assets	11,667,866	100%	10,206,454	100%
Interest-bearing Debt	2,476,139	21%	2,922,644	29%
Total Liabilities	7,900,905	68%	6,854,577	67%
Total Equity	3,766,961	32%	3,351,877	33%
Operating Revenues (for the Nine Months Ended September 30)	5,085,238	100%	5,957,561	100%
GROSS PROFIT	1,142,567	22%	861,192	14%
NET PROFIT FOR THE PERIOD	347,232	7%	119,815	2%
<b>Key Indices</b>				
Current Ratio	136%		141%	
Acid Test Ratio	64%		77%	
Total Liabilities to Equity Ratio	210%		204%	
Net profit rate	7%		2%	
EPS (NTD dollar)	1.38		0.46	



## 8. Export leader of heavy electricity(1/4)

Fortune electric exported large capacity of Power transformer to support US\$2.3T infrastructure plan of United State.



**American Northwest Coast 700MVA  
Super large power transformer**



**AEP 525kV large power transformer**



# 8. Export leader of heavy electricity(2/4)

Special land transportation for 345kV 700MVA in USA



Overcome transportation challenges.



Railway transportation for 3sets of 345kV 700MVA、232kV 510MVA、232kV 224MVA.





# 8. Export leader of heavy electricity(3/4)

232kV 510MVA , 6 units arrived at this site



525kV  
216.7MVA



For Japan Power company



8 units arrived at this site



For Japan Solar Power Plant



For Southeast Asian Thermal Power Plants



Continue to deliver nearly 77 units of power transformers in 2022, including 51 unites power transformer and 46 units distribution transformer for export to United States, Australia, Japan, Southeast Asia and other local.





# 8. Export leader of heavy electricity(4/4)



4 units arrived at this site

2021.07.02 10:41



Several units in the factory are testing



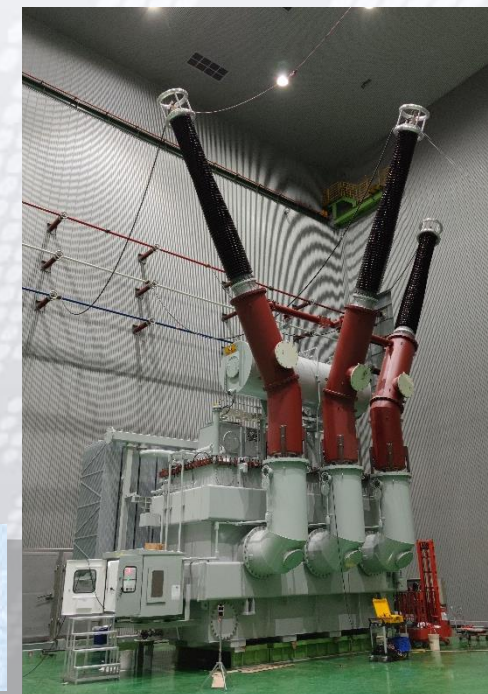
For U.S.A. Power company



For Solar Plants



For Taiwan Power Company





# 9. Wind Farm References



- NO.1 Formosa 2 Offshore Wind Power In-land Substation Turnkey Project (376MW)
- NO.2 TPC Offshore Phase I (Design, Fabrication and Module Assembly of in-tower Transformer)
- NO.3 Changhua Offshore Wind Farm (Fabrication and Delivery of Power Transformer, Distribution Panel)
- NO.4 Yunlin Wind Farm (Power Transformer, GIS Test and Assembly)
- NO.5 CIP, MVOW, Nacelle Assembly
- NO.6 Changhua Offshore Wind Farm Project (Power Transformer)



# 10. Energy Storage Model Demonstration Site(1/2)



In 2018,  
completed the construction of Lungjing Energy Storage Model Demonstration Site for TPC.



In November 2019,  
completed the construction of Rooftop Energy Storage Solar Power System for Shinchu Biomedical Industrial Park



In November 2019,  
completed the construction of model demonstration site for energy storage, wind turbine and charging pole system for Shinchu Biomedical Industrial Park



# 10. Energy Storage Model Demonstration Site(2/2)

**【FE ESS-2MW/2MWh Battery energy storage system demonstration field】**





# 11. Digital transformation, building a smart factory(1/2)

## Won the Smart Manufacturing Digital Transformation Tripod Award of HBR



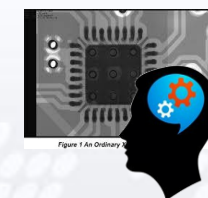
### Intelligent quotation



data center  
deep learning

Use artificial intelligence to  
analyze customer order details

### Product Design Optimization



Key Materials and  
Purchasing Decisions

Propose the best design scheme  
according to the key factors

### Intelligent manufacturing



Industrial  
Internet of  
Things (IIoT)

digital  
streaming

Digitization of the production  
process  
Production  
Management Visualization

### Dashboard



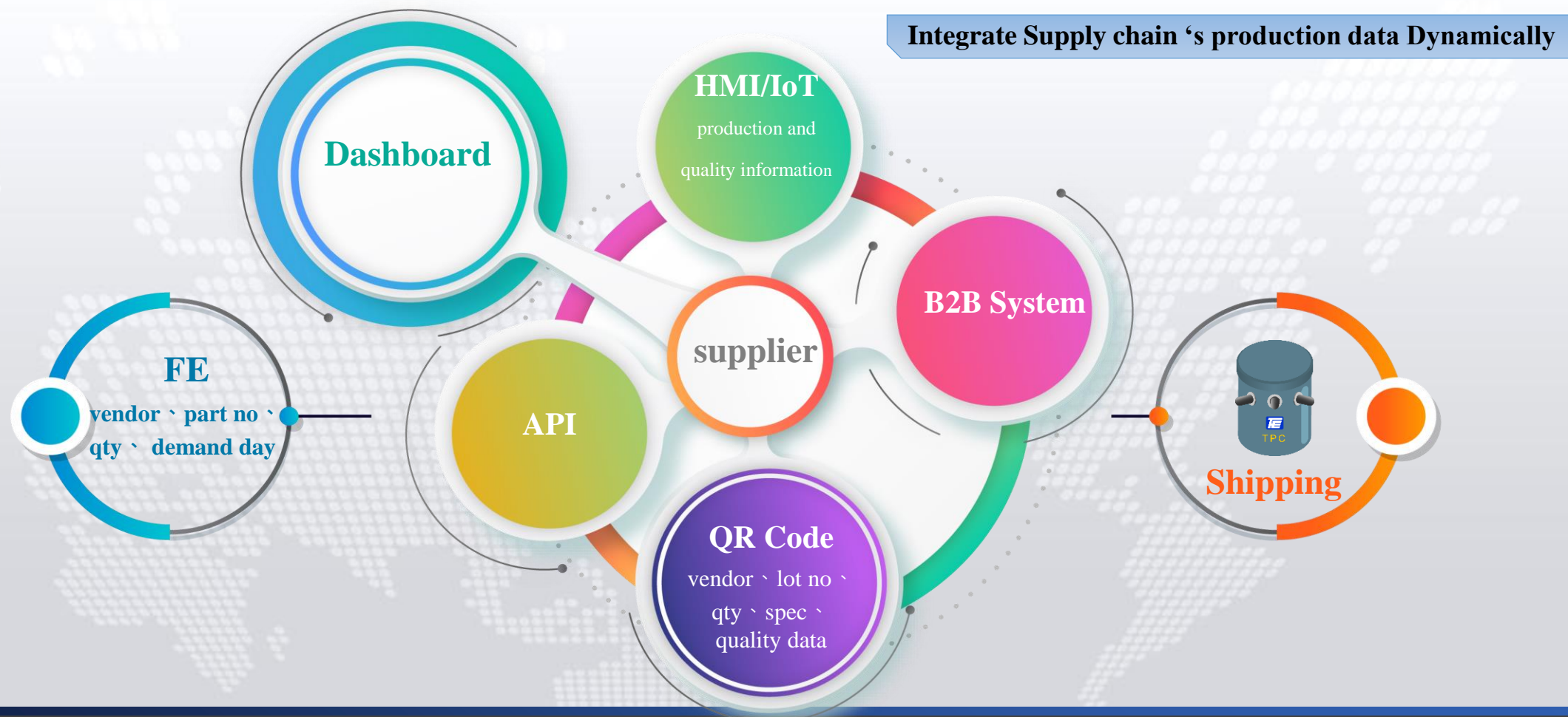
Production and  
Management  
Information

data visualization  
action  
management

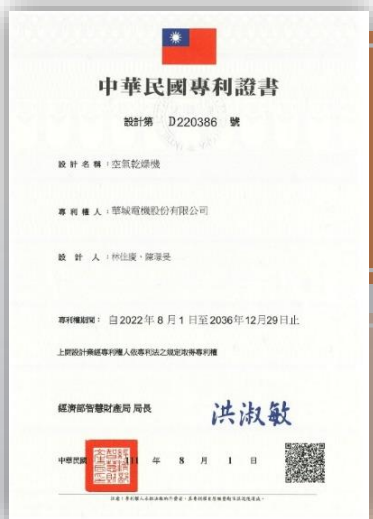


# 11. Digital transformation - cross-organization and supply chain information flow integration

- **Integrate the information of different-organization**
  - Exchange production and quality data through API and QR Code.
- **Tracking the status of material**
- **Integrate the inspection data of pre-process**

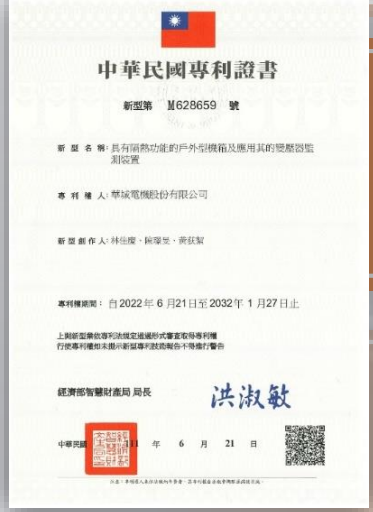
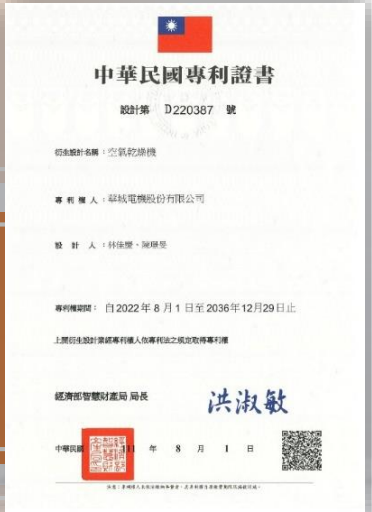


# 12. Patent and Awards



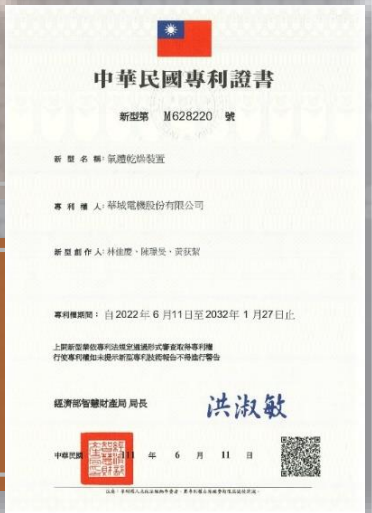
**← Design D220386**  
**Self dehumidification device**

**Design D220387 →**  
**Self dehumidification device**



**← Model M628659**  
**TTU Outdoor Box**

**Model M628220 →**  
**Gas Drying Device**



**EValue “Smart EV AC charger” awarded 2023 Taiwan excellence silver award.**



# 13. Containerized Energy Storage Substations

## 【FE ESS-2MW/2MWh Battery energy storage system demonstration field】

FE and ITRI Co-development Energy Storage System(ESS), Customized energy storage system and construction, Integrated monitoring system improves maintenance and operation management performance.

Battery storage cabinet



Energy Management System(EMS)

DC Power and Communication Management System



Power Conversion System(PCS)

bidirectional conversion, Efficient, low power consumption, Quick Response

HT switch-board (DS、MOF、PT、VCB)

TPC HV power transmission and power meter, Auxiliary power supply and Circuit protection

Containerized Energy Storage Substations

RMU, TR-2500kVA, MESS



## ① Electrical & Mechanical Construction (Public/Private)



### Construction in Process

- Administration Building and Parking Lot Construction Project of Yangmei District Office, Taoyuan City

## ② MRT AC/DC Power System Construction

### Construction in Process

- Replacement of AC/DC Equipment in MRT Traction Power Substation
- Project of DC Traction Power System of MRT Circular Line (Phase II)



### Construction in Process

- Energy Storage System of Construction Project  
3 Projects ,  
Total Amount of 10.9 MW

## ③ Green Power & Energy Storage System



# 15. Electric Vehicle Charging Solutions



## Vehicle Service Center

- Service to the brands from Germany, Japan, Korea, America, France, and Taiwan, and as one part of supply chain in Taiwan EV market.
- Provide charging solution including equipment, installation service, EMS, operation management public charging service.



## Charging Equipment

### DC Charger

- 30kW~120kW DC Chargers
- 180kW~480kW DC Chargers

### AC Charger

- 7~17kW AC Chargers
- For Enterprise and Home Charging



## Installation Service

- Completed for over 85 DC installation.
- Completed for 200 AC destination charging installation.
- Completed for 3000 AC home charging installation.



## Charging Operation

- Cooperate with over 100 companies and area cover around whole Taiwan.
- Combine with Mobility, IOT, Cloud, Charger, and E-payment.
- DC super charger and AC destination charger.
- Easy Card payment support.

## 16. Charging Operation Modes

- EVALUE combines the two major charging operation modes of Easy Card and APP to create a dual-charging operation mode.

全新EVALUE電動車充電站 **APP 2.0**  
服務體驗再進化!

邀請您開啟美好充電體驗!

EVALUE's  
Dual-Charging mode

悠遊卡公司  
EASYCARD CORP.

悠遊卡 EASYCARD | 普通 Adult

## 17. Vehicle Charging Map (DC stations)

**T  
Y**

Décor House 60kW  
7-ELEVEN JiangYuan Store 120kW  
TOYOTA\_Zhongli Station LEXUS\_Taoyuan station  
MB\_Taoyuan CMI MB\_Zhongli LL

**H  
C**

JIN HORNG SHENG 120kW  
Tsannkuen 60kW  
THE HO HOTEL 30kW  
MB\_Hsinchu LL

**M  
L**

Sanyi Cheting Service Area 120kW

**T  
C**

Tsannkuen 120kW Tsannkuen 30kW  
TOYOTA\_Middle Taichung Station  
LEXUS\_Taichung Station  
MB\_Henan CMI MB\_Taichung CCM

**C  
Y**

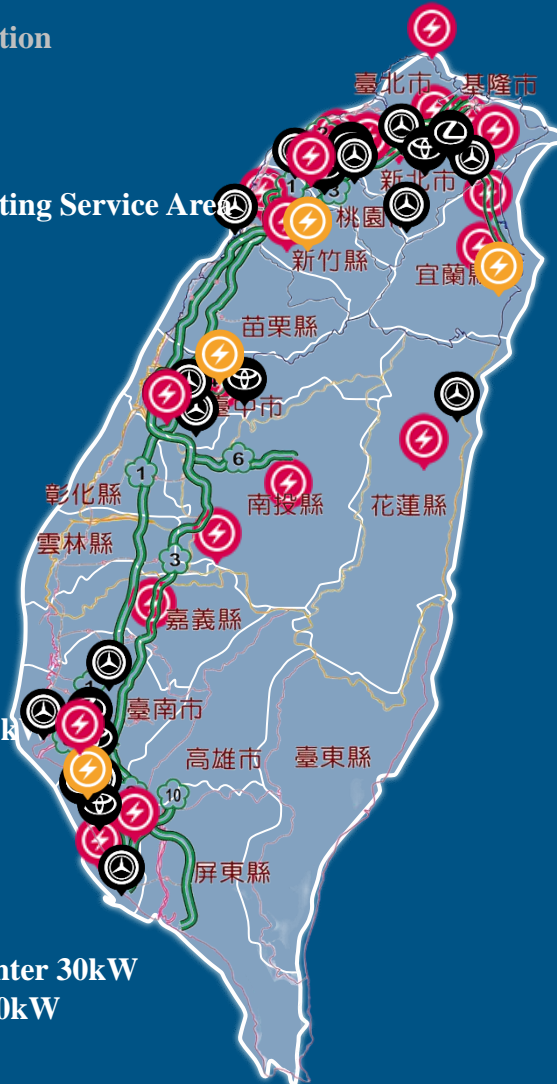
Ju De Limited Company 180kW

**T  
N**

JIN HORNG SHENG 120kW Décor House 120kW  
TOYOTA\_North Tainan station  
LEXUS\_Tainan Station  
MB\_Tainan CMI MB\_Tainan BW

**K  
H**

JIN HORNG SHENG 120kW Exhibition Center 30kW  
Tsannkuen 60kW Décor House 30kW  
7-ELEVEN Defu 120kW  
MB\_Kaohsiung SUP MB\_KP CMI  
TOYOTA\_North Kaohsiung station LEXUS\_Kaohsiung Mintsu station



**T  
P**

EVALUE NH Charging Station 480kW/  
30kW MB\_Binjiang TL  
S.K Nangang Software Park 30kW MB\_NH CMI  
Taipei 101 60kWx2 TOYOTA\_NH Station  
TK3C Headquarters 60kW LEXUS\_Binjiang station  
LEXUS\_NH station

**N  
T  
C**

The Loft Seaside Suites 60kW  
ASE WeMall 30kW  
TOYOTA\_Xinzhuang Charging station  
MB\_Sanchong TM MB\_Zhonghe BH  
MB\_Guandu CMI

**Y  
L**

Anyo Museum 30kW  
No.9 Hotel 180kW

**H  
L**

Taroko Liiko Hotel 180kW  
MB\_HL CMI

**N  
T**

7-ELEVEN Xinzhongtan 120kW  
7-ELEVEN Zhuxiu 120kW

EVALUE Operation

**29** stations

Authorized from Vehicle Dealer DC 27 stations

Charging fee  
AC \$6.5~7 /kWh  
DC \$9~12 /kWh

# 18. Vehicle Charging Map (AC stations)

**T  
Y**

JC Park      **CHANG GUNG GOLF CLUB**  
 Longtan Science Park      Aspire Resort  
 CGHDPT  
 Décor House

**H  
C**

Biomedical Science Park  
 Cy-House      **THE HO HOTEL**  
 Royalkuanhsi      Sheraton  
 Big City      **UNI-RESORT MAWUDU**

**M  
L**

Zhunan Science Park  
 Tongluo Science Park  
 Chateau in the air

**T  
C**

Harbor Hotel      M Square  
 Windsor Hotel      Moxy  
 Golf Course      Howard Hotels  
 Uni Resort-KuKuan

**Y  
L**

Grand Earl Hotel

**C  
Y**

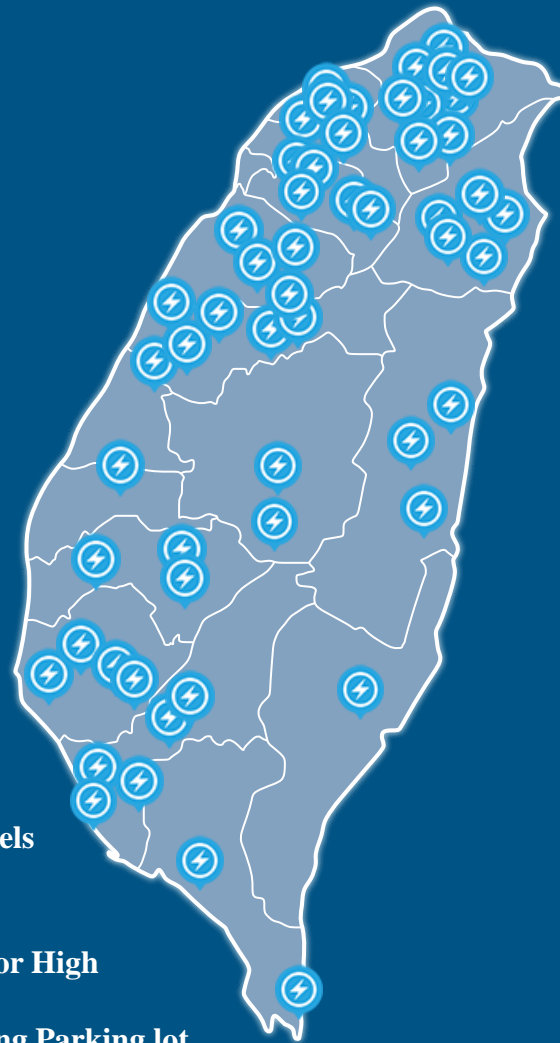
Ju De Limited Company      SBNPM  
 Nice Prince Hotel      F Hotel  
 YUYUPAS

**T  
N**

U.I.J Hotel      Evergreen International Hotels  
 Nanying Green Heart Park  
 FU-NONG Parking lot

**K  
H**

Phoenix Golf Center      Dah Yung Senior High  
 SchoolHanshin Department Store      SKM Park  
 Exhibition Center      You Chang Parking lot  
 Décor House



**T  
P**

**EVALUE**  
**TSANN KUEN TRANS-NATION GROUP**  
 101 Shop  
**CHECK**  
 Taipei SIN-YI Star  
**GARDEN HOTEL**  
 Jianguo Elevated Rd x5  
 The Okura Prestige  
 Nangang Software Park  
 Japan-Taiwan Exchange Association  
 NH Asia Pacific Office building

**N  
T  
C**

Volando Taipei Urai Spring Spa      Xindian Baoqiao Parking lot  
**BEYOND PLAZA**      Xindian Dafeng Parking lot  
 Tamkang University      F-Hotel  
 Taisugar Hotel      Acer Group-B5  
 Grand VictoriaI Hotel      ASE WeMall  
 The Great Roots Forestry Spa Resort      **MITSUI OUTLET PARK**

**Y  
L**

**DANCEWOODS HOTEL**      **LUNA PLAZA.**  
 No.9 Cafe at the Beach      No.9 Hotel  
 Lanyang Seaview Hotel      Yilan Science Park

**N  
T**

Sheng Shine Forest Resort      Puli Story House  
 Jinge B&B

**H  
Y**

Fangshuh B&B  
 Penlai Home  
 Taroko Liiko Hotel

**T  
T**

Papago International  
 Resor

**P  
T**

**UNI-RESORT KENTING**  
 Pingtung SING-FU Parking lot

**EVALUE Operation**  
280 station

**Thank You for  
Your Attention.**

